

CONFIDENTIAL

Release Date 11-25-95

RIDGEWAY/CANSTAR PLATEAU CATTLE NO. 1
NE SW 15-12N-29E, Apache Co. (880)

COUNTY APACHE AREA ST. JOHNS WILDCAT LEASE NO. FEE LEASE

WELL NAME PLATEAU CATTLE COMPANY NO. 1

LOCATION NE SW SEC 15 TWP 12N RANGE 29E FOOTAGE 3023' FNL & 3564' FEL

ELEV 6372 GR KB SPUD DATE 7/23/94 STATUS CO2 GAS PLUGGED TOTAL 2431'
 COMP. DATE 11/25/94 P&A 9/9/97* on 8/4/94

CONTRACTOR L&B SPEED DRILL

CASING IZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY	YES
9 5/8" 36#	150'	120sxs		DRILLED BY CABLE TOOL	NO
7" 23#	722'	85sxs		PRODUCTIVE RESERVOIR	SUPAI
4 1/2" 10.5#	1794'	100sxs		INITIAL PRODUCTION	640 MCFD

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
TRIASSIC CHINLE	SURF			TOPS RPTD BY OPERATOR
TRIASSIC MOENKOPI	198'			
PERMIAN SAN ANDRES	213'			
PERMIAN GLORIETA	480'			
PERMIAN SUPAI	660'			
PERMIAN FT APACHE	1366'			
PERM(?) GRANITE WASH	2138'			
PRECAMB GRANITE	2365'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG YES
DIGL & SDL/DSN/GR	1300'-1704'		SAMPLE DESCRP. ON LOG
			SAMPLE NO. 1877
			CORE ANALYSIS
			DSTs

REMARKS CO2 DISCOVERY *PLUGGED BACK AND TURNED OVER TO PLATEAU
PARTNERSHIP AS WATER WELL ON 9/12/97
 APP. TO PLUG _____
 PLUGGING REP. _____
 COMP. REPORT 12/13/94

WATER WELL ACCEPTED BY PLATEAU PARTNERSHIP

BOND CO. BANK ONE ARIZONA BOND NO. C.D. #4002111 ^{cancel} #4002112
 BOND AMT. \$15,000 } \$25,000 blanket CANCELLED DATE _____ ORGANIZATION REPORT 6/8/94
 FILING RECEIPT 3066 LOC. PLAT WELL BOOK PLAT BOOK
 API NO. 02-001-20295 DATE ISSUED 7/8/94 DEDICATION N 1/2 SW QTR

PERMIT NUMBER 880

To: Oil and Gas Program Administrator
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701

This is to advise you that I accept the abandoned oil or gas exploration well, known as the Plateau Cattle #1, located on the 3023' FNL & 3564' FEL (quarter-quarter) of Section 15, Township 12N, Range 29E, County of Apache (NW/4 SW/4), Arizona, as a domestic water well.

I accept full responsibility for the proper maintenance and use of the above well, including its final plugging, in compliance with rules of the Arizona Department of Water Resources (12 A.A.C. 15).

I understand that I am responsible for compliance with the provisions of the State Groundwater Code, A.R.S. Title 45, Ch. 2, Article 10, and with any applicable requirements of the federal government.

Signature The Plateau Partnership, an Arizona General Partnership
By: A. J. Platt
Address General Partner

P.O. Box 426
St. Johns, AZ 85736

* * * * *

State of Arizona

County of Apache

On this, the 12 day of September, 1997, before me Jackie Ellsworth the undersigned officer, personally appeared H. Jay Platt as a general partner in the Plateau Partnership, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument and acknowledged that he executed the same for the purpose stated therein contained, on behalf of the Partnership.

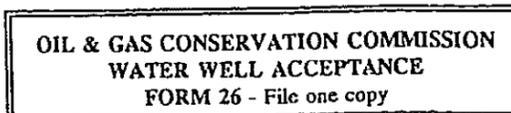
In witness whereof I hereunto set my hand and official seal.

Notary Public Jackie Ellsworth



My commission expires 12-16-00

Permit Number 880



WELL COMPLETION OR RECOMPLETION REPORT AND WELL LOG

DESIGNATE TYPE OF COMPLETION:

New Well Work-Over Deepen Plug Back Same Reservoir Different Reservoir Oil Gas Dry

DESCRIPTION OF WELL AND LEASE

Operator RIDGEWAY ARIZONA OIL CORP.		Address 1080,700 - 4th Ave. SW Calgary, Alberta Canada T2P 3J4	
Federal, State or Indian Lease Number or name of lessor if free lease Plateau Cattle Company		Well Number 1	Field & Reservoir Wildcat Fort Apache
Location 3023' FNL & 3564' FEL (SW/4)		County Apache	
Sec. TWP-Range or Block & Survey Sec. 15, T12N, R29E			
Date spudded 7/23/94	Date total depth reached 8/4/94	Date completed, ready to produce 11/25/94	Elevation (DF, RKB, RT or Gr.) 6372 GR feet
Total depth 2431'		P.B.T.D. 1794'	Elevation of casing hd. flange 6372 feet
Producing interval (s) for this completion Fort Apache		Rotary tools used (interval) 0-2431'	Cable tools used (interval) None
Was this well directionally drilled? No	Was directional survey made? Yes	Was copy of directional survey filed? Attached	Date filed
Type of electrical or other logs run (check logs filed with the commission) DIGL & SDL/DSN/GR			Date filed

CASING RECORD

Casing (report all strings set in well - conductor, surface, intermediate, producing, etc.)						
Purpose	Size hole drilled	Size casing set	Weight (lb./ft.)	Depth set	Sacks cement	Amt. pulled
Surface	12-1/4"	9-5/8"	36#	160'	120	5 bbls
Int	8-3/4"	7"	23#	722'	85	Circ.
Prod	6-1/4"	4-1/2"	10.5#	1794'	100	Circ.

TUBING RECORD

Size	Depth set	Packer set at	Size	Top	Bottom	Sacks cement	Screen (ft)
2-3/8 in.	1705 ft	-- ft.	-- in.	-- ft.	-- ft.	--	--

PERFORATION RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval
4	0.36" Dia	1300'-1704'	1200 gal 15% Hcl	1300-1704' in 4 stages
112' Total 448 Holes				

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Date of first production		Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)			
11/25/94		Flowing			

Date of test	Hrs. tested	Choke size	Oil prod. during test	Gas prod. during test	Water prod. during test	Oil gravity
11/28/94	24	3/4	0 bbls.	640 MCF CO2MCF	436 bbls.	-- *API (Corr)
Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil	Gas	Water	Gas-oil ratio
130	315		0 bbls.	640 MCF	436 bbls.	--

Disposition of gas (state whether vented, used for fuel or sold):
Vented

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Agent of the Ridgeway Arizona Oil Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 12/13/94

Paul C. Thompson
Signature Paul C. Thompson, P.E.

**AZ OIL & GAS
CONSERVATION COMMISSION**

DEC 16 1994

Permit No. 880

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. 4 File One Copy

INSTRUCTIONS:
 * Show all important zones of porosity, detail of all cores, and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures, and recoveries.
 Attach drillers log or other acceptable log of well.
 This Well Completion or Recombination report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.
 Form No. 4

FORMATION	TOP	BOTTOM	FORMATION	TOP	BOTTOM
Chinle	0	198'	Chinle	0	198'
Moenkopi	198'	213'	Moenkopi	198'	213'
San Andres	213'	480'	San Andres	213'	480'
Glorieta	480'	660'	Glorieta	480'	660'
Supai	660'	1366'	Supai	660'	1366'
Ft Apache	1366'	2138'	Ft Apache	1366'	2138'
Granite Wash	2138'	2365'	Granite Wash	2138'	2365'
Granite	2365'		Granite	2365'	

DETAIL OF FORMATIONS PENETRATED
 Permit 880

PLUGGING RECORD

Operator Ridgeway Az Oil Corp.	Address & Phone number 520-337-3230 P. O. Box 1110 St. Johns, AZ 85936
--	--

Federal, State, or Indian Lease No. or lessor's name if fee lease Platt Fee	Well No. Plattau	Field & Reservoir Cattle #1 Wildcat	Sec - Twp - Rge 15-T12N-29E	County Apache
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Location of Well 3023 FNL & 3564 (SW/4)	Has this well ever produced oil or gas	Character of well at completion (initial production): Oil (bbls/day)	Gas (MCF/day) 364	Dry? Dry?
---	--	---	-----------------------------	---------------------

Application to drill this well was filed in name of Ridgeway Az Oil Corp.	Date plugged 9-9-97	Total depth 1794'	Amount well producing when plugged: Oil (bbls/day)	Gas (MCF/day) 364 CO2	Water (bbls/day) 0
---	-------------------------------	-----------------------------	---	---------------------------------	------------------------------

Name of each formation containing oil or gas. Indicate which formation open to wellbore at time of plugging	Fluid content of each formation	Depth interval of each formation	Size, kind & depth of plugs used. Indicate zones squeeze cemented, giving amount of cement
Amos Wash	0	1300-1704'	

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, etc.)	Packers and shoes
9 5/8"	160'	0	160'	Left in	
7"	722'	0	722'	Hole	
4 1/2"	1794'	0	1794'		

Was well filled with heavy drilling mud, according to regulations?	Indicate deepest formation containing fresh water
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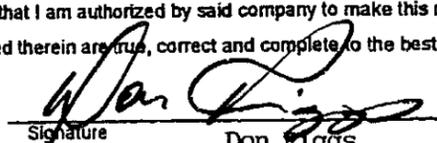
NAME AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name	Address	Direction from this well
Ridgeway Az Oil Corp.	590 S. White Mountain Drive	Southwest

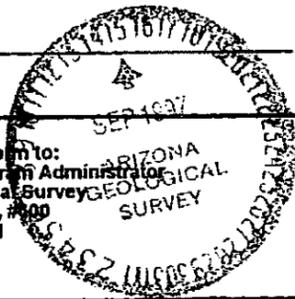
In addition to other information required on this form, if this well was plugged back for use as a fresh water well, give all pertinent details of plugging operations to base of fresh water sand, perforated interval to fresh water sand, name and address of surface owner, and attach letter from surface owner authorizing completion of this well as a water well and agreeing to assume full liability for any subsequent plugging which might be required.

Use reverse side for additional detail. See Reverse 

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Vice President of Operations of the Ridgeway AZ Oil Corp. (company) and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Date 9-12-97	Signature  Don Riggs
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Mail completed form to: Oil and Gas Program Administrator Arizona Geological Survey 416 W. Congress, #300 Tucson, AZ 85701	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy
Permit No. 880	Form No. 10



Cement thru retainer @ 710' with 100 sacks with 2% C.C.
 W.O.C. 3 hours cement again with 68 sacks of class G
 with 2% C.C.
 Pressure came up to 1600# on displacement
 Shut in well

Perfs: 1300-1704
 H_{ret}: 710
 590'

$$4\frac{1}{2}'' \quad 10.5 \# \text{ csg} = .6679 \text{ gal/ft (590 ft)} = 395 \text{ gal}$$

$$= .0845 \text{ ft}^3/\text{ft (590 ft)} = 52.8 \text{ ft}^3$$

= pipe volume between retainer + perfs

$$100 \text{ sacks } \left(\frac{5 \text{ gal}}{\text{sack}} \right) = 500 \text{ gal cont slurry} / .67 \text{ ft}^3$$

$$68 \text{ sacks } \left(\frac{5 \text{ gal}}{\text{sack}} \right) = 340 \text{ gal cont slurry (45 ft}^3)$$

$$840 \text{ gal} \quad 112 \text{ ft}^3$$

= enough cont slurry to fill pipe and squeeze perfs w/ cont

Cement thru retainer @ 710' with 100 sacks with 2% C.C.
 W.O.C. 3 hours cement again with 68 sacks of class G
 with 2% C.C.
 Pressure came up to 1600# on displacement
 Shut in well

APPLICATION TO PLUG AND ABANDON

FIELD Wildcat
 OPERATOR Ridgeway AZ Oil Corp. ADDRESS P. O. Box 1110 St. Johns, AZ 85936
 Federal, State or Indian Lease Number or Lessor's Name if Fee Lease Platt WELL NO. Plateau Cattle
 LOCATION 3023 FNT. & 3564 (SW/4)
 TYPE OF WELL CO2 TOTAL DEPTH 1794
(Oil, Gas or Dry Hole)
 ALLOWABLE (If Assigned) None
 LAST PRODUCTION TEST OIL _____ (Bbls.) WATER 0 (Bbls.)
 GAS 364 (MCF) DATE OF TEST 10-3-95
 PRODUCING HORIZON Amos Wash PRODUCING FROM 1300 TO 1704

1. COMPLETE CASING RECORD.
 9 5/8" - 36# - 160'
 7" - 23# - 722'
 4 1/2" - 10.5# - 1794'

2. FULL DETAILS OF PROPOSED PLAN OF WORK.

Rig up, trip out of hole with tubing and packer. Trip in hole set cement retainer @ 1200' pump 150 sacks cement. Trip out of hole displace top with 10# mud. Set 5 sacks plug in top. Cut off 3' below GL. and place dry hole marker.

DATE COMMENCING OPERATIONS 9-2-92
 NAME OF PERSON DOING WORK Buddy Davis ADDRESS Box 1110 St. Johns, AZ 85936



Signature [Handwritten Signature]
 Title [Handwritten Title]
 Address Box 1110, St Johns Az, 85936
 Date 8-21-92

Date Approved 8/25/92
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 By: [Handwritten Signature]

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Plug and Abandon
 File Two Copies
 Form No. 9

SUNDRY NOTICES AND REPORTS ON WELLS

1. Name of Operator Ridgeway Arizona Oil Corp.
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Plateau Cattle Co. #1
 Location 3023 FNL & 3564 FEL
 Sec. 15 Twp. 12N Rge. 29E County Apache, Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Plat

5. Field or Pool Name Wildcat - Fort Apache

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input checked="" type="checkbox"/>	MONTHLY PROGRESS <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>		ABANDONMENT <input type="checkbox"/>
(OTHER) _____		(OTHER) _____	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

This well was making 360 bbls wtr. per.day. It was always suspected that there was no cement behide pipe. A retrievable brige plug was set @ 1450', & squeeze packer set @ 1200'. Pumped 100 sks. class B cement into perforation from 1300' to 1428'. Drilled out cement & flow tested well. Job a success, well now wtr. free.

? what rate? what pressure? -scr

~ 364 mcf per App to P&A filed 8/21/97 -scr

8. I hereby certify that the foregoing is true and correct.

Signed Don Rigas Title Agent Date 10/3/95

Permit No. 880

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25 File One Copy

Permit 880

STATE: ARIZONA
COUNTY: APACHE
API 02-001-20295
FIELD: UNNAMED
WELL CLASS: WFD
OPR: RIDGEWAY ARIZONA OIL 1. RIDGEWAY/CANSTAR PLATEAU CATTLE CO

12N-29E 15
SE NW
3023 FSL 3564 FEL
STATUS: GAS

SPUD: 07/23/94 COMP: 03/01/95 ELEV: 6372 GR
ID: 2431 (08/05/94) FM/TO: GRANITE
CONTR: L & B SPEEDRILL RIG #1 (R) (VERTICAL)
PROJ DEPTH/FM: 3055 PRECAMBRIAN PERMIT #880

COMP 3/1/95(EST), GAS WELL. PROD ZONE - FORT APACHE 1300-1704(GROSS). NO
CORES, TWO DSTS. (FORT APACHE DISCOVERY - NEW FIELD)

LOC DESCRIPTION: 51 MI S NAVAJO SPRINGS FLD(COCONINO) 7 MI SE ST JOHNS, AZ; LAT: 3443676
LONG: 10028707;

WELL ID CHANGES: FTG CHGD FROM 2310 FSL 1650 FWL
CASING: 9 5/8 @ 150 W/120 SX, 7 @ 722 W/85 SX, 4 1/2 @ 1794 W/100 SX;

SPL TOPS:
SAN ANDRES 142 6230 SUPAI 680 5692
GLORIETA 481 5891 GRANITE 2360 4012
TD 2431 3941
SUBSEA MEASUREMENTS FROM GR;

DST # 1 (SUPAI - STRD) 1680-1720, REC: 475 FT GCW, 5 FT GC FILTRATE WTR (96% CO2, 4% HELIUM).

(OVER)

COPYRIGHT 1995 PETROLEUM INFORMATION CORPORATION

DATE 07/17/95CARD # 00001-F COR

STATE: ARIZONA
COUNTY: APACHE
API 02-001-20295
FIELD: UNNAMED
WELL CLASS: WFD
OPR: RIDGEWAY ARIZONA OIL 1 RIDGEWAY/CANSTAR PLATEAU CATTLE CO

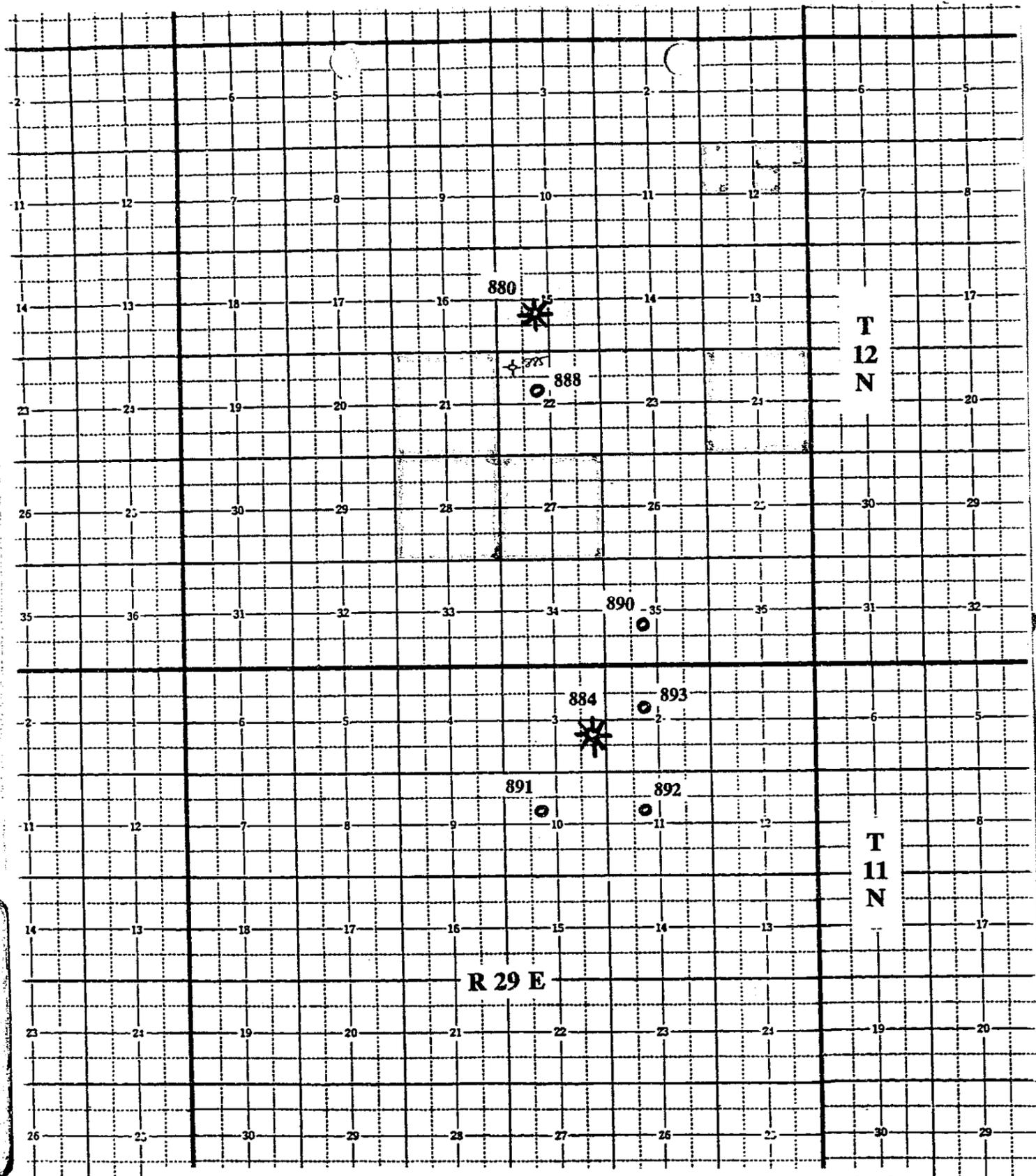
12N-29E 15
SE NW
3023 FSL 3564 FEL
STATUS: GAS

(CONTINUED)

DST # 2 (SUPAI - STRD) 1410-1479, REC: 175 FT GCW, 5 FT GC FILTRATE WTR (96% CO2, 4% HELIUM). GTS
IMMEDIATELY - NO RATE;

DRILG COMMENTS: LOCAL CALL(LOG): SAN ANDRES LS 209, YESQ/SUPAI 680.
PROD TEST(S): PERF (FORT APACHE) 1300-1704 W/4 PF GROSS, F GAS (GAUGE NOT RPTD) FLWD
500-715 MCFGPD(CO2); 825 MCFG(CO2), 380 BW/ DAYS; 31500 MCFG, 48/64 CK, FTP 130-138, SITP 380/48
DAYS(GAS ANALYSIS: 91.5% CO2, 7.6% NTGN, .845% HELIUM, .20% ARGON)
PRODUCING INTERVAL: PERF (FORT APACHE) 1300-1704 W/4 PF GROSS, IP NOT RPTD
OPER ADD: % RIDGEWAY PET, 1080-700 4TH AVE SW, CALGARY, AB, PHONE (800) 347-0294;

DATE 07/17/95CARD # 00001-F COR

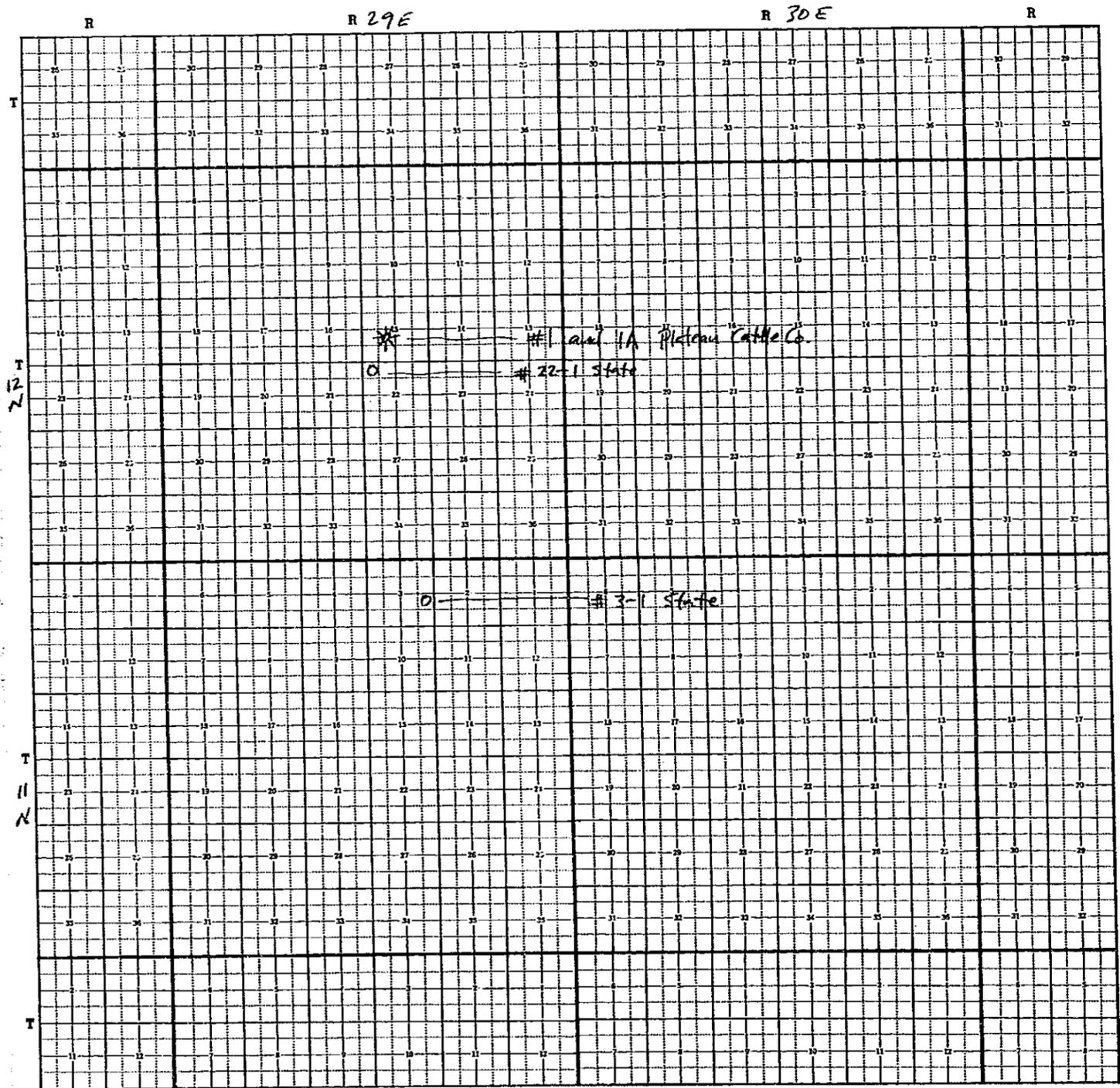


RIDGEWAY ARIZONA OIL COMPANY WELLS AND LOCATIONS

ST. JOHNS AREA, APACHE COUNTY, ARIZONA

No. 4B. TOWNSHIP PLAT. —Bradford-Robinson Co., Mfrs. Robinson's Legal Blanks, 1824-46 Stout St., Denver, Colorado

County Apache State Arizona



Four Township Island plat (1/2" to the mile)



WALSH

ENGINEERING & PRODUCTION CORP.

Petroleum Engineering Consulting
Lease Management
Contract Pumping

7415 East Main
Farmington, New Mexico 87402
(505) 327-4892

DEVIATION AFFIDAVIT

Well Name and Number: **Ridgeway Arizona Oil Corp.
Plateau Cattle Company #1**

Location: **SW/4 Section 15, T12N, R29E
Apache County, Arizona**

Drilling Contractor: **Big A Well Service
Farmington, New Mexico**

Degrees and Depth

1	727'
1-3/4	2284'

BY: Paul C. Thompson
Paul C. Thompson, P.E.

Subscribed and sworn to before me this 12th day of December
1994.

Beth L. Rapp
Notary

My Commission Expires:

July 31, 1997

AZ OIL & GAS
CONSERVATION COMMISSION

DEC 16 1994

Permit 880

AUG-23-94 16:52 FROM:

ID:

PAGE 2

John B. Somers II
Consulting Petroleum Engineer
3860 Carlock Drive
Boulder, Colorado 80303

AZ OIL & GAS
CONSERVATION COMMISSION

SEP 1 1994

August 23, 1994

Mr. Walter B. Ruck
Chairman
Ridgeway Petroleum Corp.
1080,700 4th Avenue S.W.
Calgary, Alberta T2P 3J4
CANADA
Facsimile Letter to 403-262-5294

Re: Gas Reserves
Plateau Cattle Co. No. 1
and St. Johns Anticline
Apache County, Arizona

Dear Walt,

Reserves have been calculated for Ridgeway/Canstar Plateau Cattle Co. No. 1 and the St. Johns Anticline, as you requested.

Total proved reserves for the well are estimated to be 2 Bcf of nonflammable inert gas containing 16 MMcf of helium. Those reserves are comprised of 1 Bcf of proved developed reserves in the two intervals that were drill stem tested, 1680' to 1720' and 1410' to 1479', and 1 Bcf of proved undeveloped reserves in two other dolomites in the Supai (1508-24' and 1540-47'), which had mud log shows of CO₂, exhibited neutron-density crossover indicative of gas and were not tested. Based on the present private market price for helium of \$50/Mcf, the helium reserves have a gross undiscounted value of \$781,000. If sufficient CO₂ reserves are developed on the structure to justify a pipeline for sale of that gas, the CO₂ reserves could have a value in the order of \$1.986 million dollars. These reserves are based on spacing and drainage of 160 acres.

The St. John Anticline covers 20,880 acres, so it contains 130-160 acre locations. Therefore, a conservative estimate of the structure's reserves are 260 Bcf of gas containing 2 Bcf of helium. This estimate for the structure is considered to be conservative, because the initial well was drilled on the northwest flank of the structure. On the top of the structure to the south in Section 3, T11N,R29E, it is expected that the helium content may be much higher, like Pinta Dome, which had 8% helium on the top of a much smaller, 4729 acre anticline. That structure had only 80 feet of surface structural closure compared to over 400 feet of surface structural closure that have been proven by the initial well on the St. Johns Anticline.

AUG-23-94 16:53 FROM:

ID:

PAGE 3

Ridgeway Petroleum Corp.
August 23, 1994
Page 2

The reservoir quality of the dolomites in the Supai, which contain gas, is excellent. Four (4) of the eight (8) intervals which were assigned proved reserves, have porosities in excess of 30%, which is exceptional. The pressure buildup curves from the two (2) DST's indicate that the permeability is also very high, and there was very little damage from mud filtrate invasion. The rate of 243 M/D from DST #2 covering the interval from 1410' to 1479' is in no way indicative of the productive capacity of the four (4) dolomites in that interval, because mud filtrate recovery was inhibiting flow and the pressure was only drawn down 39 psi at that flow rate. Therefore, the absolute open flow (AOF) from that interval could be several million feet of gas per day.

Gas was indicated to be present in other dolomites in the Supai from 800' to 1900', based on neutron-density crossover. However, no gas was detected by the mud logger, so those other intervals were covered with cement and may prove productive when further more extensive production testing is done. CO₂ and methane, C₁, were encountered in the interval 2370-75', and methane was detected in sands 2020-50' and 2110-2200'. Those intervals were not tested, but those zones in the granite wash could possibly be productive higher on the structure.

If there are any questions about this evaluation, please call me.

Sincerely,

John B. Somers II
John B. Somers II

cc:Mr. F.L. Shogrin

DFSPC012

REPORT OF ANALYSIS

AZ OIL & GAS
CONSERVATION COMMISSION

F.S.: 19810 H.S.: 00000000

STATE: ARIZONA

COUNTY: APACHE

SEP 1 1994

FIELD: WILDCAT

WELL NAME: PLATEAU LAND & CATTLE NO. 1
API:

LOCATION: SEC. 15, T12N, R29E
SPOT: NE SW

OWNER: RIDGEWAY ARIZONA GAS CORP.

DATE SAMPLED: 08/11/94
SAMPLED BY: TECH SERVICES

DATE COMPLETED: NOT GIVEN
ELEVATION, FT: NOT GIVEN

NAME OF PRODUCING FORMATION: PERM-SUPAI
DEPTH IN FEET: 1,680

THICKNESS IN FEET: 40

SHUT IN WELLHEAD PRES., PSIG: NOT GIVEN OPEN FLOW, MCF/D: NOT GIVEN

CHECK OF DATA - THE WELL DATA ARE ACCURATE,
() WITHOUT CORRECTION, () AS CORRECTED ABOVE.

REMARKS

ANALYSIS:

METHANE	0.1 %	NORMAL PENTANE	0.0 %	OXYGEN	TRACE %
ETHANE	0.1 %	ISOPENTANE	0.0 %	ARGON	0.1 %
PROPANE	0.0 %	CYCLOPENTANE	0.0 %	HYDROGEN	TRACE %
NORMAL BUTANE	0.0 %	HEXANES PLUS	0.0 %	H2S	0.0 %
ISOBUTANE	0.0 %	NITROGEN	6.0 %	CO2	93.1 %
SPECIFIC GRAV: 1.487				HELIUM	0.52 %
				TOTAL	100.00 %

TRACE DENOTES HELIUM < 0.005%
AND OTHER COMPONENTS < 0.05%

CALCULATED GROSS BTU/CU. FT., DRY AT 60 DEG. F AND 30 IN MERCURY: 2

PERMISSION FOR RELEASE:

PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE
ABOVE DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS
AS PUBLIC INFORMATION AND PARTS OF A SERIES OF PAPERS ON ANALYSES OF
GASES FROM VARIOUS FIELDS, STATES, OR REGIONS.

COMPANY _____

BY _____

TITLE _____

880

DESPC012

REPORT OF ANALYSIS

AZ OIL & GAS
CONSERVATION COMMISSION

F.S.: 19811 M.S.: 00000000

STATE: ARIZONA

COUNTY: APACHE

SEP 1 1994

FIELD: WILDCAT

WELL NAME: PLATEAU LAND & CATTLE NO. 1
API:

LOCATION: SEC. 15, T12N, R29E
SPOT: NE SW

OWNER: RIDGEWAY ARIZONA GAS CORP.

DATE SAMPLED: 08/11/94
SAMPLED BY: TECH SERVICES

DATE COMPLETED: NOT GIVEN
ELEVATION, FT: NOT GIVEN

NAME OF PRODUCING FORMATION: PERM-SUPAI
DEPTH IN FEET: 1,410

THICKNESS IN FEET: 70

SHUT IN WELLHEAD PRES., PSIG: NOT GIVEN OPEN FLOW, MCF/D: NOT GIVEN

CHECK OF DATA - THE WELL DATA ARE ACCURATE,
() WITHOUT CORRECTION, () AS CORRECTED ABOVE.

REMARKS

ANALYSIS:

METHANE	0.1 %	NORMAL PENTANE	0.0 %	OXYGEN	0.1 %
ETHANE	0.1 %	ISOPENTANE	0.0 %	ARGON	0.2 %
PROPANE	0.0 %	CYCLOPENTANE	0.0 %	HYDROGEN	1.0 %
NORMAL BUTANE	0.0 %	HEXANES PLUS	0.0 %	H2S	0.0 %
ISOBUTANE	0.0 %	NITROGEN	9.5 %	CO2	88.3 %
SPECIFIC GRAV: 1.448				HELIUM	0.81 %
TRACE DENOTES HELIUM < 0.005% AND OTHER COMPONENTS < 0.05%				TOTAL	100.00 %

CALCULATED GROSS BTU/CU. FT., DRY AT 60 DEG. F AND 30 IN MERCURY: 5

PERMISSION FOR RELEASE:

PERMISSION IS HEREBY GRANTED FOR THE BUREAU OF MINES TO RELEASE THE ABOVE DATA, TOGETHER WITH SIMILAR DATA RELEASED BY OTHER OPERATORS AS PUBLIC INFORMATION AND PARTS OF A SERIES OF PAPERS ON ANALYSES OF GASES FROM VARIOUS FIELDS, STATES, OR REGIONS.

COMPANY _____

BY _____

TITLE _____

880



1115 Farrington Avenue
 Farmington, N.M. 87401
 (505) 325-6622

Analysis No. RAG40001
 Cust. No. 69020-10000

WELL/LEASE INFORMATION

Company	: RIDGEWAY ARIZ. GAS CORP	Source	: DST #1
Well Name	: PLATEAU CATTLE CO. #1	Pressure	: 95 PSIG
County	: APACHE	Sample Temp.	: 70 DEG.F
State	: AZ	Well Flowing	: YES
Location	: NE SW 15-12N-29E	Date Sampled	: 08/05/94
Fld/Formation	: SUPAI	Sampled By	: BAKER OIL TOOLS
Cust.Stn.No.	:	Foreman/Engr	:

Remarks: 15 MINUTES INTO SECOND FLOW DST #1
 1700'
 UNNORMALIZED TOTAL = 96.2%

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	5.856	0.0000	0.00	0.0566
CO2	94.006	0.0000	0.00	1.4285
METHANE	0.129	0.0000	1.31	0.0007
ETHANE	0.000	0.0000	0.00	0.0000
PROPANE	0.000	0.0000	0.00	0.0000
I-BUTANE	0.000	0.0000	0.00	0.0000
N-BUTANE	0.000	0.0000	0.00	0.0000
I-PENTANE	0.000	0.0000	0.00	0.0000
N-PENTANE	0.000	0.0000	0.00	0.0000
HEXANES	0.009	0.0039	0.46	0.0003
TOTAL	100.000	0.0039	1.77	1.4861

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
 ** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR	(1/Z)	1.0052
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1.8
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1.7
REAL SPECIFIC GRAVITY		1.4932

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER # : WIA2680
 CYLINDER PRESSURE : 80 PSIG
 DATE RUN : 08/06/94
 ANALYSIS RUN BY : SHEILA FELTMAN



1115 Farmington Avenue
 Farmingt N.M. 87401
 (505) 325-6622

Analysis No. RAG40002
 Cust. No. 69020-10000

WELL/LEASE INFORMATION

Company : RIDGEWAY ARIZ. GAS CORP
 Well Name : PLATEAU CATTLE CO. #1
 County : APACHE
 State : AZ
 Location : NE SW 15-12N-29E
 Fld/Formation : SUPAI
 Cust.Stn.No. :
 Source : DST #2
 Pressure : 160 PSIG
 Sample Temp. : 90 DEG.F
 Well Flowing : YES
 Date Sampled : 08/06/94
 Sampled By : BAKER OIL TOOLS
 Foreman/Engr :

Remarks: SECOND FLOW DST #2
 1410' - 1480'
 UNNORMALIZED TOTAL = 96.0%

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	9.618	0.0000	0.00	0.0930
CO2	90.248	0.0000	0.00	1.3714
METHANE	0.131	0.0000	1.33	0.0007
ETHANE	0.000	0.0000	0.00	0.0000
PROPANE	0.000	0.0000	0.00	0.0000
I-BUTANE	0.000	0.0000	0.00	0.0000
N-BUTANE	0.000	0.0000	0.00	0.0000
I-PENTANE	0.000	0.0000	0.00	0.0000
N-PENTANE	0.000	0.0000	0.15	0.0001
HEXANES	0.003	0.0013		
TOTAL	100.000	0.0013	1.48	1.4652

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
 ** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) 1.0049
 BTU/CU.FT. (DRY) CORRECTED FOR (1/Z) 1.5
 BTU/CU.FT. (WET) CORRECTED FOR (1/Z) 1.5
 REAL SPECIFIC GRAVITY 1.4718

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER # : WIA2358
 CYLINDER PRESSURE : 140 PSIG
 DATE RUN : 08/06/94
 ANALYSIS RUN BY : SHEILA FELTMAN

SUNDRY NOTICES AND REPORTS ON WELLS



1. Name of Operator Ridgeway Arizona Oil Corporation
 2. OIL WELL GAS WELL OTHER (Specify) _____
 3. Well Name Ridgeway/Canstar Plateau Cattle Co. No. 1
 Location 3023' FNL & 3564' FEL
 Sec. 15 Twp. 12 North Rge. 29 East County Apache Arizona.
 4. Federal, State or Indian Lease Number, or lessor's name if fee lease Platt

5. Field or Pool Name _____

6. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	MONTHLY PROGRESS <input checked="" type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	DIRECTIONAL DRILL <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	PERFORATE CASING <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(OTHER) _____	ABANDONMENT <input type="checkbox"/>
(OTHER) _____			

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

7. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

7/23 Spudded @ noon and Drld. 150' 12 1/4" surface hole.

7/24 Set 4 jts. (149.67') 9 5/8" 36# surface csg. @ 150' and cmtd. w/ 120 sxs. Cl.B containing 2% CaCl2. Circ. cmt. to surface. Cmtg. completed @ 8:30 A.M. on 7/25/94.

7/25-27 Drld. 8 3/4" hole to 727'.

7/28 Ran 17 jts. (722.00') 7" 23# J55 int. csg.. Set @ 722' and cmtd. w/ 45 sxs. std. containing 2% CaCl2, 5 lb. gilsonite/sk and 1/4#/sk Flocele followed by 40 sx 50-50 pozmix containing the same additives. PD @ 11 A.M. on 7/29/94.

7/29-8/4 Drld. 6 1/4" hole to 2431'.

8/5 DST'd 1680-1720'. GTS in 5 min. Strong blow. Flowed 162M/D non-flammable gas on 1/4" ck w/ 130# FP. Rec. 175' GCMW. ISIP & FSIP 485#.

8/6 DST'd 1410-1479'. Opened w/ strong blow. Flowed 243 M/D nonflammable gas on 1/4" ck w/ 150# FP. Rec. 475' GCMW. ISIP 412# FSIP 410#.

8/7 Ran 40 jts. (1791.64') 4 1/2" 10.5# J55 csg. Set @ 1794' and cmtd. w/ 100 sx ClB w/ 50-50 pozmix, 10#/sk gilsonite, 2% gel and 18% NaCl by wt. PD @ 9:58 P.M.

8. I hereby certify that the foregoing is true and correct.

Signed John B. Somers II Title Agent Date 8/16/94
 John B. Somers II

Permit No. 880

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Sundry Notices and Reports On Wells
 Form No. 25
 File One Copy



1732 East Main
P.O. Box 718
Farmington, NM 87499
Phone: (505) 325-0216
Fax: (505) 325-0218

**AZ OIL & GAS
CONSERVATION COMMISSION**

SEP 1 1994

COMPANY NAME: Ridgeway Arizona Oil Corp.

WELL NAME: Plateau Cattle #1 CONTRACTOR: Jim Ludwig

DST NO.: 1

K.B. ELEVATION: *880*

SPOT: NE SW

FORMATION: Supai

SEC.: 15

TWP.: 12N

RNG.: 29E

FIELD: WILDCAT

COUNTY: Apache

STATE: Arizona

FLOW NO. 1: 15 MIN. SHUT-IN NO. 1: 30 MIN.

FLOW NO. 2: 60 MIN. SHUT-IN NO. 2: 120 MIN.

BOTTOM HOLE TEMP.: 84

TOP CHOKE: 1/4 BOTTOM CHOKE: 3/4

SIZE HOLE: 6 1/4 CASING SIZE & WT.: 7 23#

SIZE & WT. D.P. OR TUBING: 3 1/2 15.5#

I.D. OR D.C.: 2 1/4

LENGTH OF D.C. ABOVE TOOL: 245

TOTAL DEPTH: 2431

INTERVAL TESTED: 1680 - 1720

TYPE OF TEST: Bottom Hole Straddle

MUD WEIGHT: 9.0 VISCOSITY: 38

TOOL OPENED @: 22:05:00

People and Products Providing Solutions for
Completions, Workovers and Fishing

COMPANY NAME: Ridgeway Arizona Gas Corp
WELL NAME: Plateau Cattle Co. #1
DST NO.: 1

SAMPLE DATA

SAMPLE CHAMBER:

CAPACITY OF SAMPLE CHAMBER... 2500 CC
VOLUME OF SAMPLE..... 0
PRESSURE IN SAMPLER..... 240 PSIG
WHERE SAMPLER WAS DRAINED..... Rig

SAMPLER CONTAINED:
1.7 cu ft gas

RESISTIVITY DATA:

TOP.....	.1 @ 60	88000 ppm
MIDDLE.....	.1 @ 60	88000 ppm
BOTTOM.....	.1 @ 60	88000 ppm
SAMPLER.....		ppm
MUD PIT.....	.1 @ 60	88000 ppm
MAKE-UP WATER.....	2.7 @ 55	2750 ppm

DID WELL FLOW: GAS Yes OIL NO WATER NO

RECOVERY IN PIPE:

100 Ft. drilling mud
75 Ft. gas cut drilling mud
175 Ft. Total .86 Bbl.

BLOW DESCRIPTION:

INITIAL FLOW; Tool opened with a strong blow increased to the bottom of the bucket in 15 sec. open through 1/4 choke in 5 min. with 70# and gas to surface, 130# in 10 min., 110# in 15 min

FINAL FLOW; Tool opened with a strong blow to the bottom of the bucket immediately (see flow rates)

COMPANY NAME: Ridgeway Arizona Oil Corp
 WELL NAME: Plateau Cattle Co. #1
 DST NO.: 1

TYPE DMR NO. 4000
 CAP. 5000 LOC.1663
 INSIDE X OUTSIDE
 HOURS 19:21:00

TYPE DMR NO. 4003
 CAP. 5000 LOC.1706
 INSIDE X OUTSIDE
 HOURS 18:57:00

PRESS.
 IH..... 746
 FH..... 656
 IF-1.... 122
 FF-1.... 175
 IF-2.... 102
 FF-2.... 175
 SIP-1... 485
 SIP-2... 485

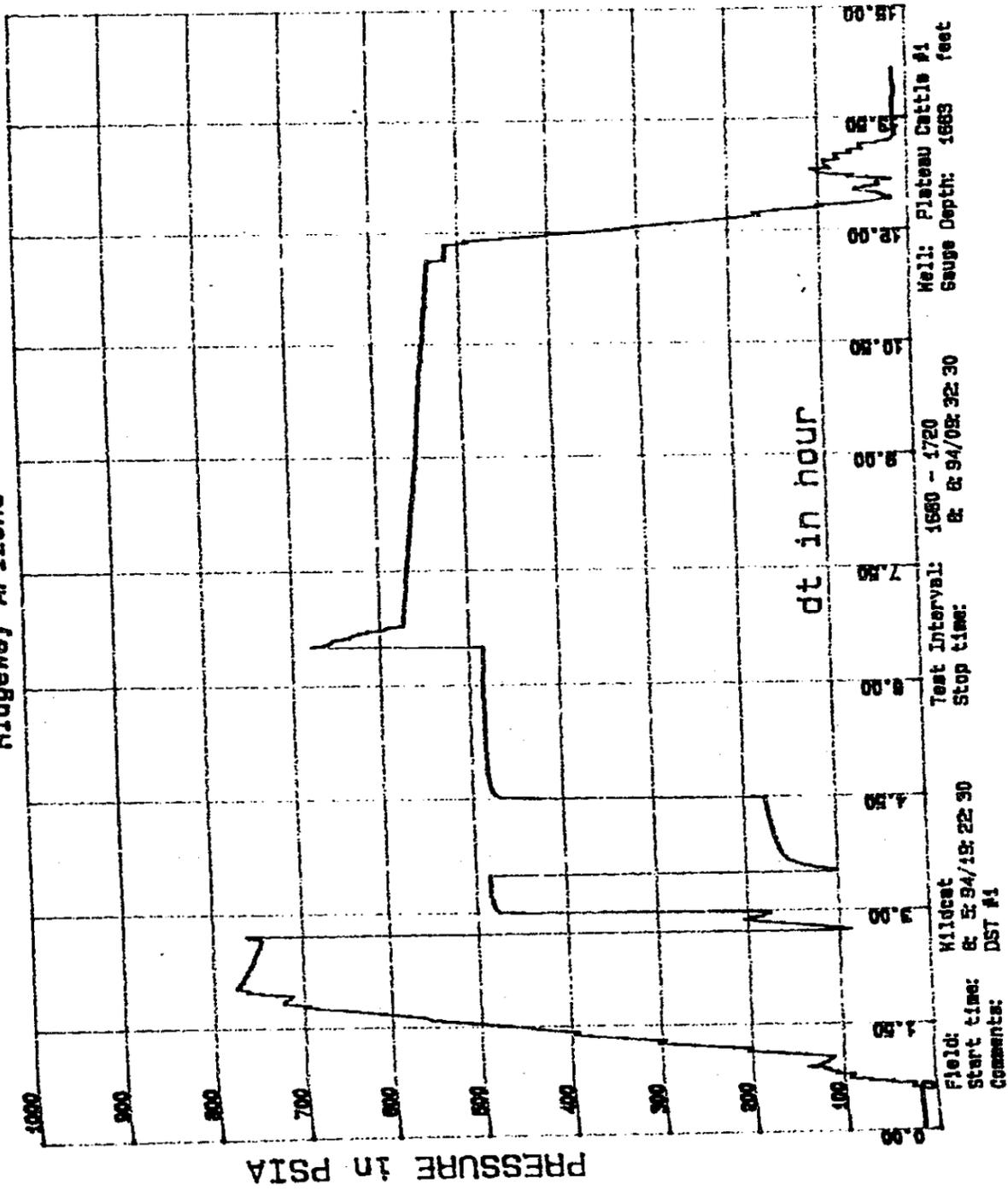
PRESS.
 IH..... 773
 FH..... 681
 IF-1.... 112
 FF-1.... 191
 IF-2.... 112
 FF-2.... 193
 SIP-1... 500
 SIP-2... 501

TIME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
------	------------	------------------	-----------------	---------

NO FLAMMABLE GAS TO SURFACE

5 min.	1/4	65 psi	117.8	
10 min.	1/4	85 psi	147.3	
15 min.	1/4	90 psi	154.6	
20 min.	1/4	95 psi	162.0	
30 min.	1/4	95 psi	162.0	
40 min.	1/4	95 psi	162.0	
50 min.	1/4	95 psi	162.0	
60 min.	1/4	95 psi	162.0	

LINEAR PLOT
Ridgeway Arizona



BAKER OIL TOOLS

LINEAR PLOT
Ridgevay Arizona



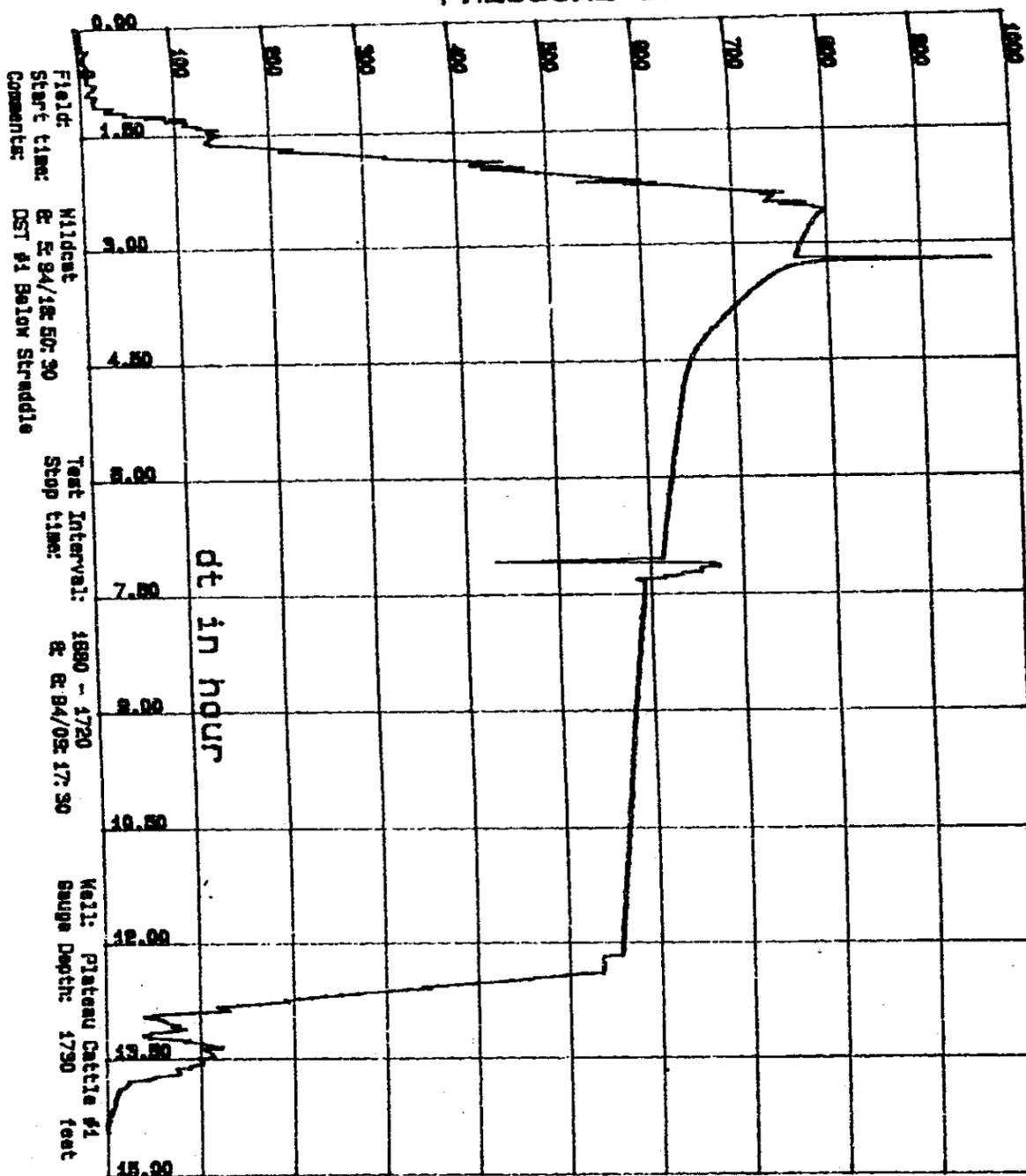
BAKER OIL TOOLS

Field: Wildcat
 Start time: 8/24/82 50:30
 Comments: DST #1 Below Straddle

Test Interval: 1680 - 1720
 Stop time: 8/24/82 17:30

Well: Plateau Cattle #1
 Gauge Depth: 1730 feet

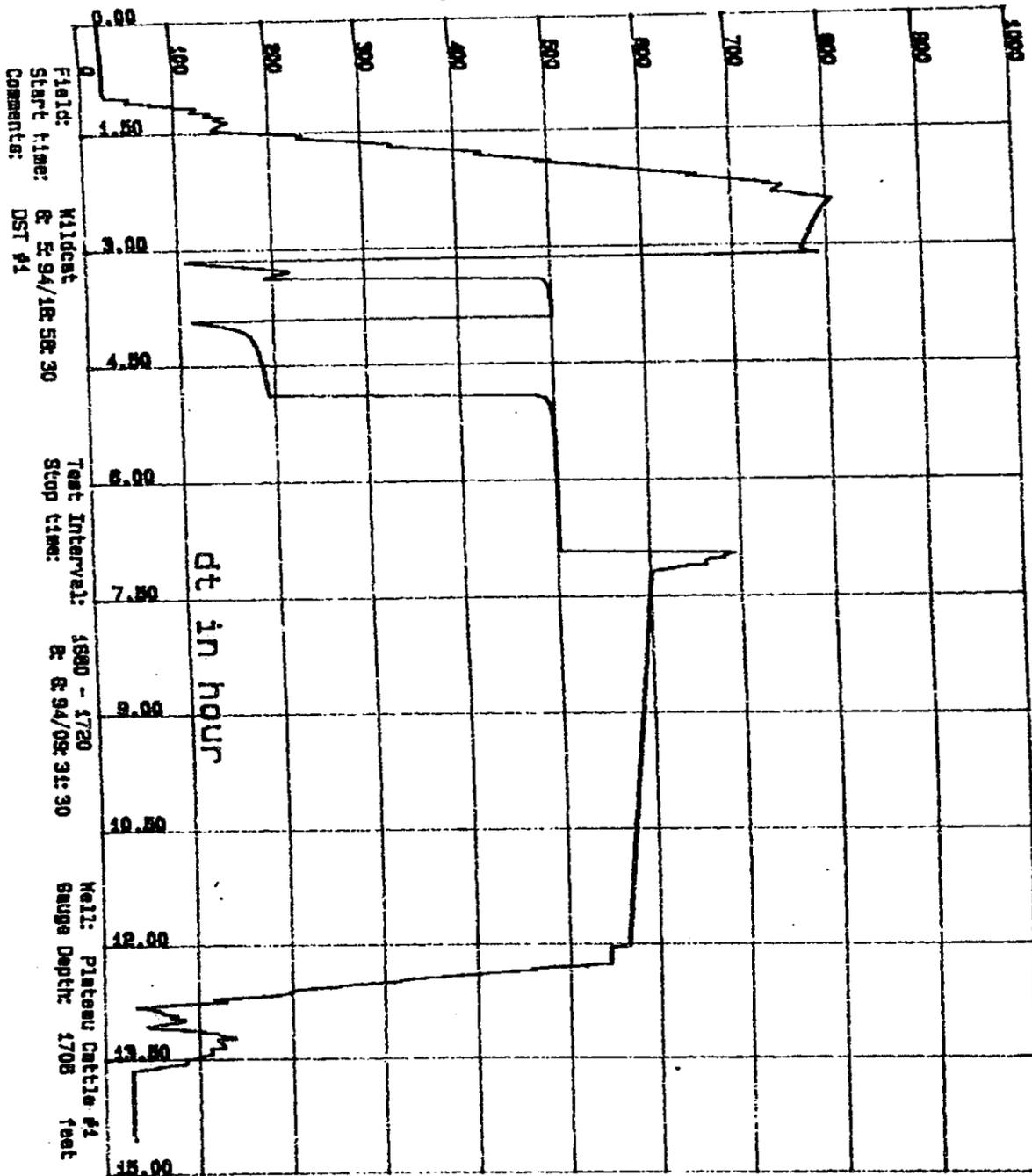
PRESSURE in PSIA



LINEAR PLOT
Ridgeway Arizona

BAKER OIL TOOLS

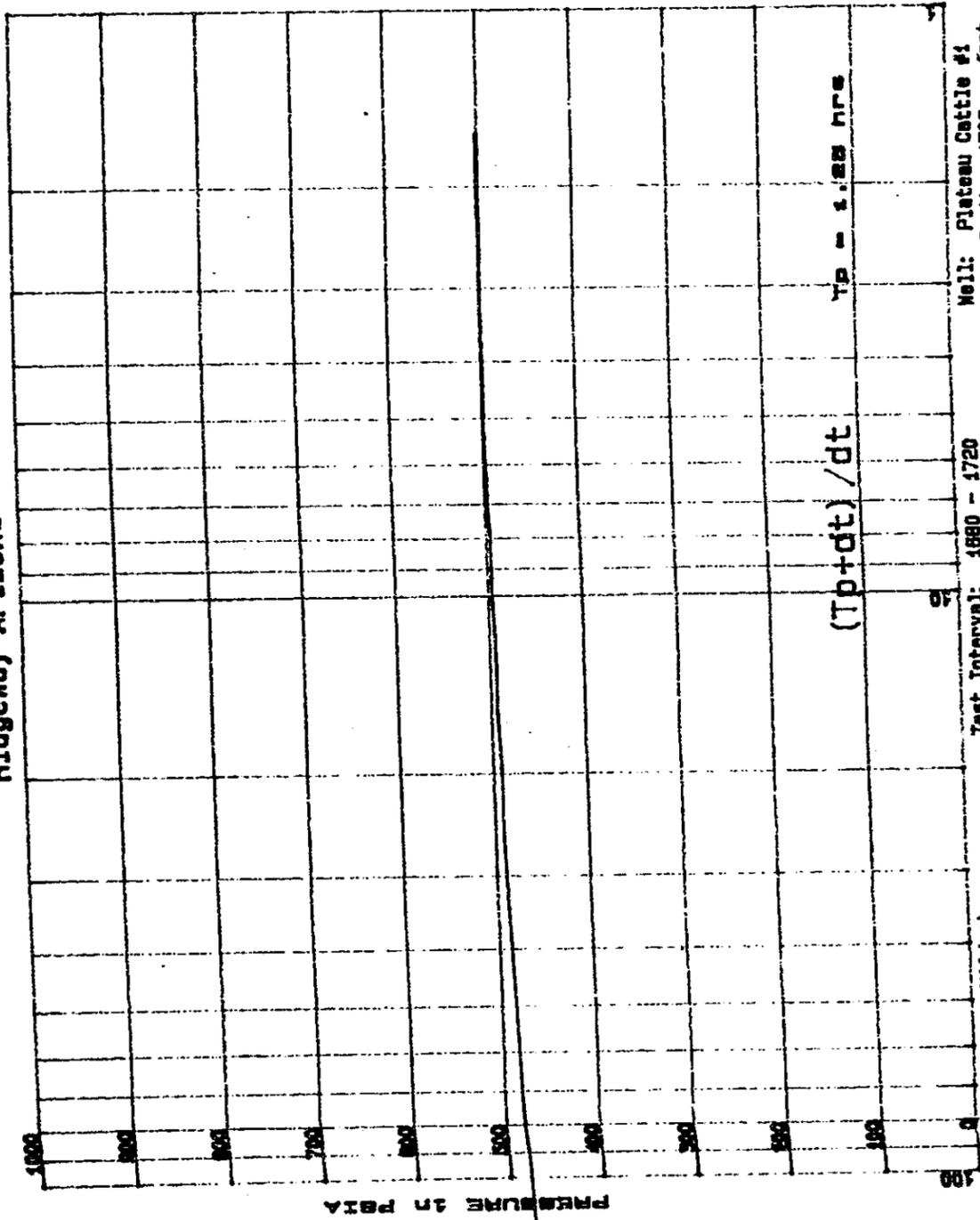
PRESSURE in PSIA



LINEAR PLOT
 Ridgeway Arizona

BAKER OIL TOOLS

HORNER PLOT
Ridgeway Arizona



Field Wildcat
 Start time: 5/94/23 5:30
 Comments: Final Shut-in DST #1

Test Interval: 1680 - 1720
 Stop time: 6/94/01:52:30

Well: Plateau Cattle #1
 Gauge Depth: 1708 feet

BAKER OIL TOOLS



AZ OIL & GAS
CONSERVATION COMMISSION

1732 East Main
P.O. Box 718
Farmington, NM 87499
Phone: (505) 325-0216
Fax: (505) 325-0218

SEP 1 1994

880

COMPANY NAME: Ridgeway Arizona Oil Corp.
WELL NAME: Plateau Cattle #1 CONTRACTOR: Jim Ludwig
DST NO.: 2 K.B. ELEVATION:
SPOT: NE SW FORMATION: Supai
SEC.: 15
TWP.: 12N
RNG.: 29E
FIELD: WILDCAT
COUNTY: Apache
STATE: Arizona
FLOW NO. 1: 20 MIN. SHUT-IN NO. 1: 30 MIN.
FLOW NO. 2: 65 MIN. SHUT-IN NO. 2: 130 MIN.
BOTTOM HOLE TEMP.: 81
TOP CHOKE: 1/4 BOTTOM CHOKE: 3/4
SIZE HOLE: 6 1/4 CASING SIZE & WT.: 7 23#
SIZE & WT. D.P. OR TUBING: 3 1/2 15.5#
I.D. OR D.C.: 2 1/4
LENGTH OF D.C. ABOVE TOOL: 245
TOTAL DEPTH: 2431
INTERVAL TESTED: 1410 - 1480
TYPE OF TEST: Bottom Hole Straddle
MUD WEIGHT: 9.0 VISCOSITY: 38
TOOL OPENED @: 13:05:00

COMPANY NAME: Ridgeway Arizona Gas Corp
WELL NAME: Plateau Cattle Co. #1
DST NO.: 2

SAMPLE DATA

SAMPLE CHAMBER:

CAPACITY OF SAMPLE CHAMBER... 2500 CC
VOLUME OF SAMPLE..... 500
PRESSURE IN SAMPLER..... 350 PSIG
WHERE SAMPLER WAS DRAINED..... Rig

SAMPLER CONTAINED: 500 cc Drilling Mud
2.15 cu ft gas

RESISTIVITY DATA:

TOP.....	.08 @ 75	90000 ppm
MIDDLE.....	.09 @ 65	90000 ppm
BOTTOM.....	.09 @ 65	90000 ppm
SAMPLER.....	.09 @ 65	90000 ppm
MUD PIT.....	.1 @ 60	88000 ppm
MAKE-UP WATER.....	2.7 @ 55	2750 ppm

DID WELL FLOW: GAS Yes OIL No WATER Yes

RECOVERY IN PIPE:

200 Ft. muddy water
275 Ft. gas cut muddy water

475 Ft. Total 2.7 Bbl.

BLOW DESCRIPTION:

INITIAL FLOW; Tool opened with a strong blow increased to the bottom of the bucket in 15 sec. open through 1/4 choke in 3 min. with 30# and gas to surface, 90# in 5 min., 110# in 10 min. unloading muddy water, 130# in 15 min., 140# in 20 min.

FINAL FLOW; Tool opened with a strong blow to the bottom of the bucket immediately. Unloaded water in 3 min., flowed gas and a water mist throughout flow (see flow rates)

COMPANY NAME: Ridgeway Arizona Oil Corp
 WELL NAME: Plateau Cattle Co. #1
 DST NO.: 2

TYPE DMR NO. 4000
 CAP. 5000 LOC.1393
 INSIDE X OUTSIDE
 HOURS 11:22:00

TYPE DMR NO. 4003
 CAP. 5000 LOC.1436
 INSIDE X OUTSIDE
 HOURS 11:21:00

PRESS.
 IH..... 643
 FH..... 523
 IF-1.... 138
 FF-1.... 371
 IF-2.... 303
 FF-2.... 371
 SIP-1... 412
 SIP-2... 410

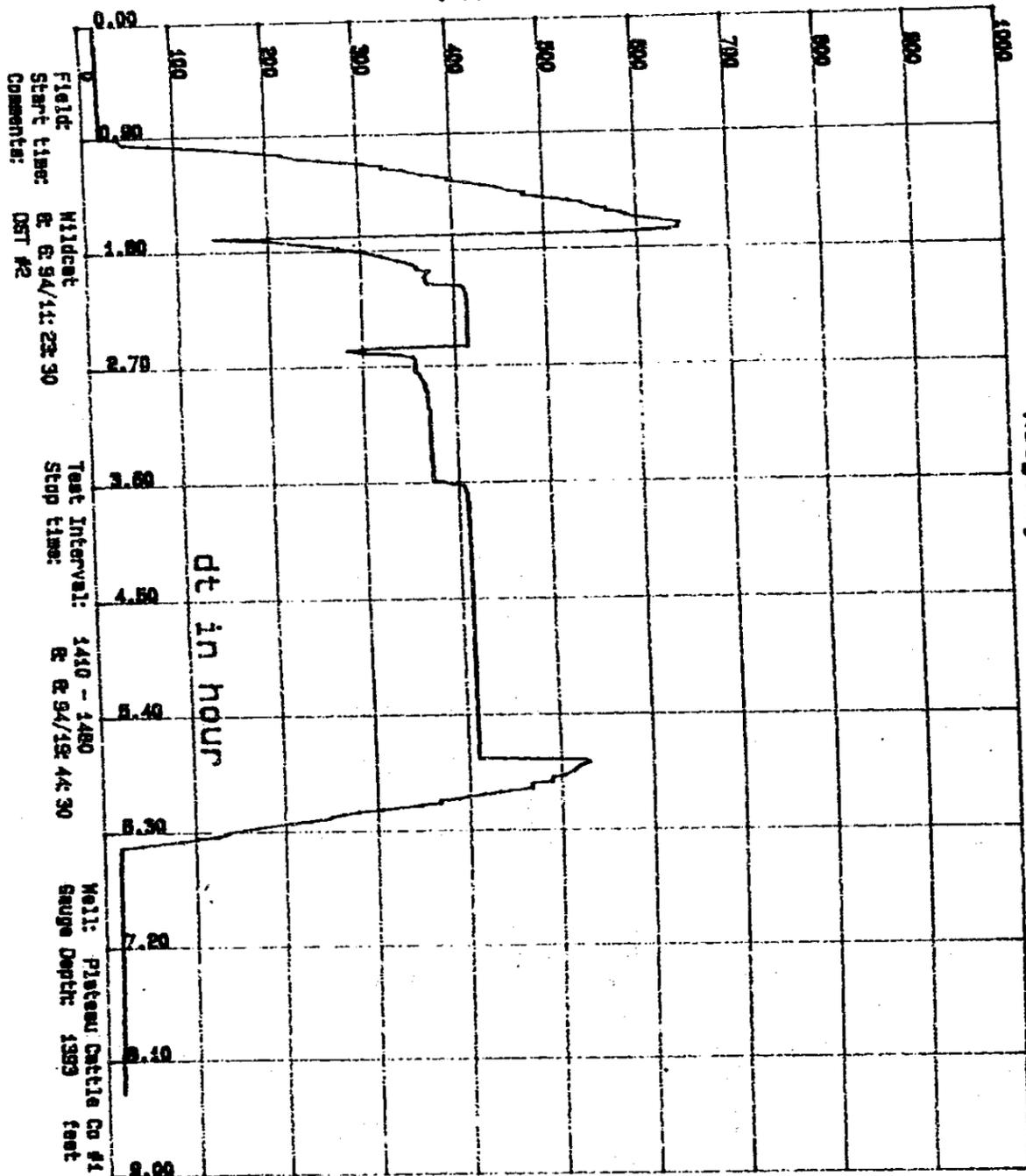
PRESS.
 IH..... 681
 FH..... 553
 IF-1.... 196
 FF-1.... 387
 IF-2.... 315
 FF-2.... 391
 SIP-1... 423
 SIP-2... 423

TIME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
------	------------	------------------	-----------------	---------

NO FLAMMABLE GAS TO SURFACE

5 min.	1/4	80 psi	140.0	
10 min.	1/4	170 psi	272.0	
15 min.	1/4	150 psi	243.0	
20 min.	1/4	150 psi	243.0	
30 min.	1/4	150 psi	243.0	
40 min.	1/4	145 psi	235.5	
50 min.	1/4	145 psi	235.5	
60 min.	1/4	140 psi	228.0	

PRESSURE in PSIA

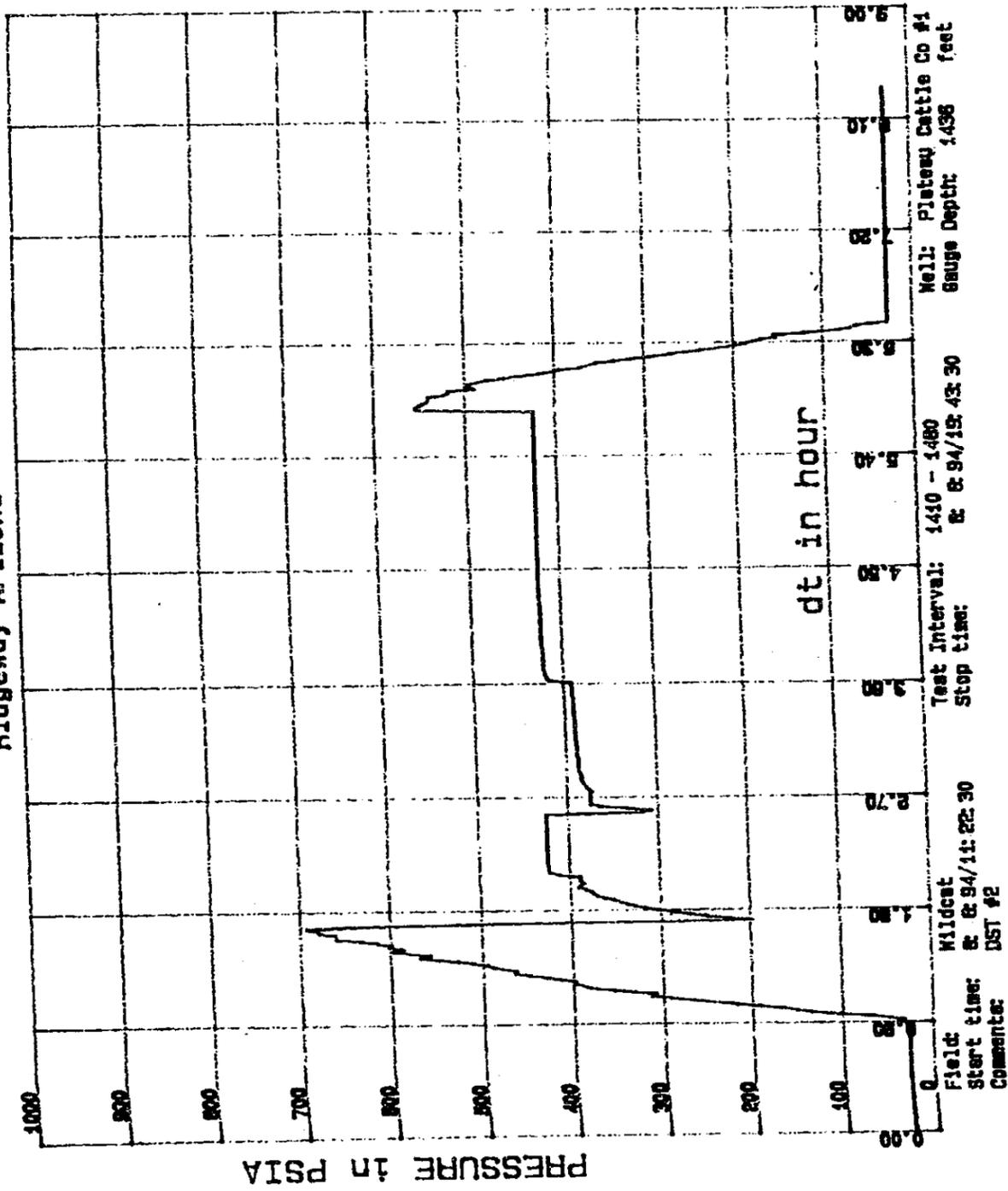


LINEAR PLOT
Ridgeway Arizona

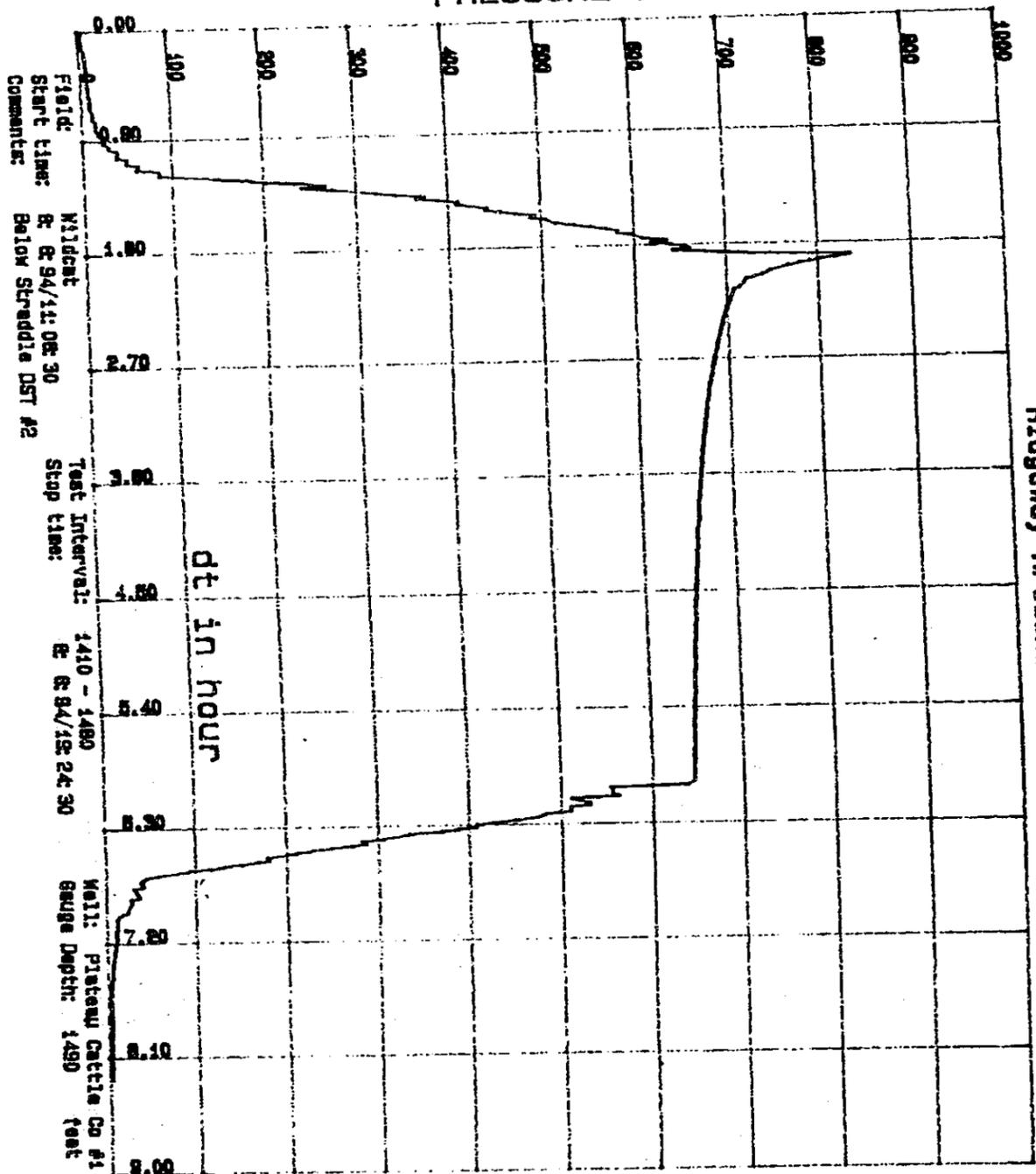
BAKER OIL TOOLS

LINEAR PLOT
Ridgeway Arizona

BAKER OIL TOOLS



PRESSURE in PSIA

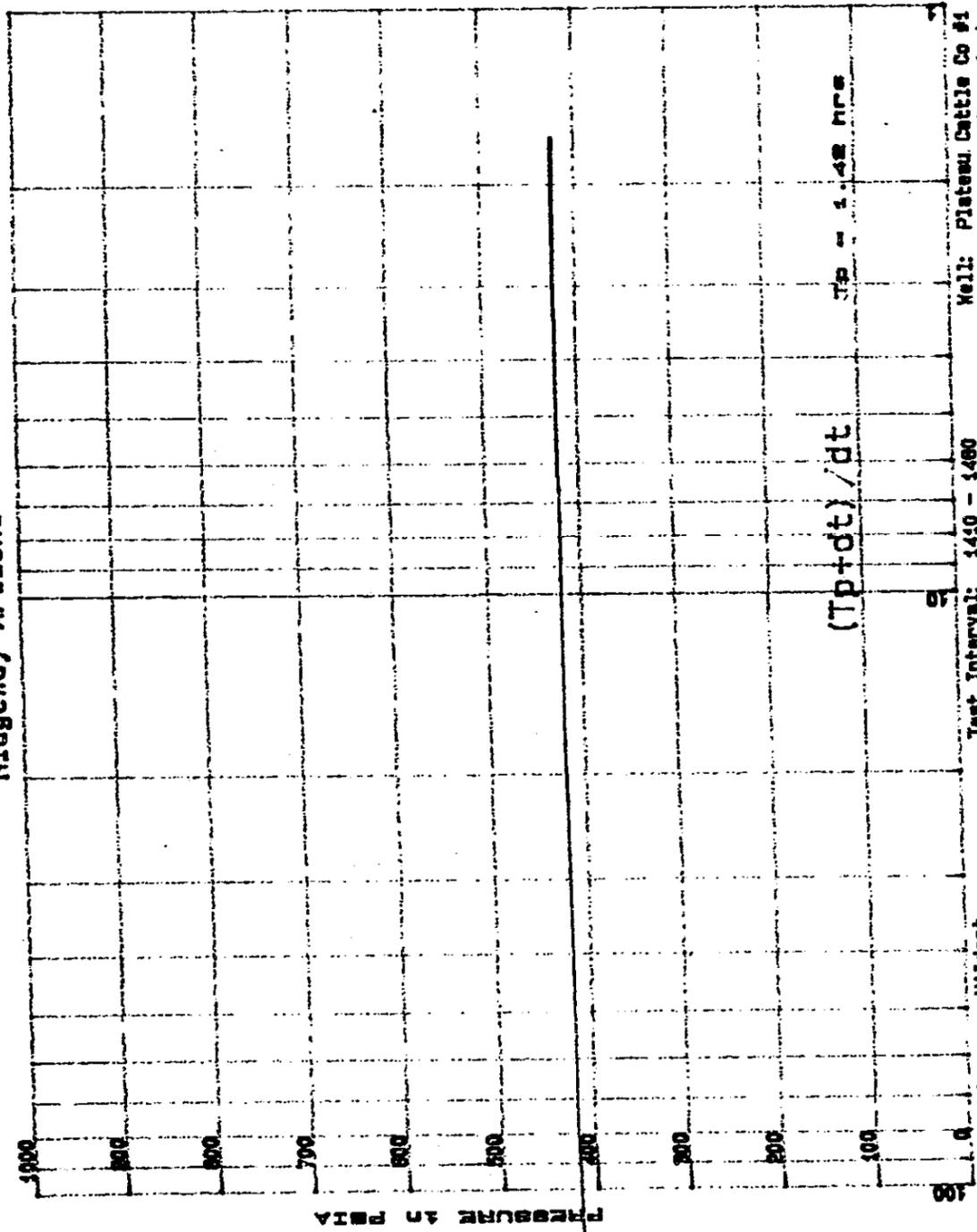


LINEAR PLOT
Ridgeway Arizona

Field: Nildent
Start time: R 8/94/11:00:30
Comment: Below Straddle DST #2
Test Interval: 1410 - 1480
Stop time: R 8/94/12:24:30
Well: Pictow Cattle Co #1
Gauge Depth: 1480 feet

BAKER OIL TOOLS

HORNER PLOT
Ridgeway Arizona



BAKER OIL TOOLS

Field: Midcat
Start time: 8/8/94/14:58:30
Comments: Final Shut-in DST #2
Test Interval: 1410 - 1460
Stop time: 8/8/94/17:07:30
Well: Plateau, Cattle Co #1
Gauge Depth: 1435 feet

APPLICATION TO PLUG AND ABANDON

FIELD Wildcat
 OPERATOR Ridgeway Arizona Oil Corp. ADDRESS 1080, 700 - 4th Ave, S.W. Calgary, Alberta T2P 3J4
 Federal, State or Indian Lease Number or Lessor's Name if Fee Lease Plateau Cattle WELL NO. 1
 LOCATION 3023' FNL + 3564' FEL Section 15, T12N, R29E, Apache County, Arizona
 TYPE OF WELL Dry Hole in the Supai TOTAL DEPTH 243
 (Oil, Gas or Dry Hole)
 ALLOWABLE (If Assigned) None
 LAST PRODUCTION TEST OIL N/A (Bbls.) WATER N/A (Bbls.)
 GAS N/A (MCF) DATE OF TEST _____
 PRODUCING HORIZON _____ PRODUCING FROM _____ TO _____

1. COMPLETE CASING RECORD. 9 5/8" 36# @ 150' w/ 120 sxs. of cmt.
7" 23# @ 722' w/ 85 sxs. of cmt. containing 2% CaCl₂

2. FULL DETAILS OF PROPOSED PLAN OF WORK. As discussed with Mr. Rauzi on this date, Ridgeway plans to DST a zone from 1456-62' in the Supai Fm.. If that interval is not commercially productive, Ridgeway plans to mechanically set a cast iron bridge plug in the bottom of the 7" intermediate casing to separate the Supai and plug it off. Subsequently, Ridgeway may either test the interval from 200 to 210' or transfer the well to the Fee land owners for their completion of the well as a water well, subject to submittal of a water well acceptance form.

DATE COMMENCING OPERATIONS August 5, 1994
 NAME OF PERSON DOING WORK Baker Oil Tool and LTB Speed Drill ADDRESS _____
 Signature John B. Annus II
 Title Agent
 Address 3860 Carlack Dr., Boulder, CO 80303
 Date August 5, 1994

Date Approved Verbally 8-5-94
 STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 BY: SL Rauzi

STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Application to Plug and Abandon
 File Two Copies
 Form No. 9

Permit No. 880

AUG 05 '94 15:47 WHITING MOTOR ST. JOHNS

602 337 4478

TO: 6026285106 P01

LITHO IN USA

TO: Steven L. Rouzi
Oil & Gas Program Administrator
Arizona Geological Survey
FAX #: 628-5106

FLASH-FAX™
NOTE & LOG

FROM: John Somers
Ridgeway Arizona Oil Corp.

NO. OF
2 PAGES
INCLUDING THIS
FLASH-FAX™

FAX #: 337-4478 PHONE #: 337-2990

SUBJECT Application to plug and abandon

MESSAGE This transmittal is to provide Form 9 in accordance with our telephone conversation earlier this afternoon. We plan to proceed with this plan, as verbally approved.

DATE 8/5/94

TIME

FLASH-FAX™ NOTE & LOG

PLEASE REPLY

NO REPLY NECESSARY

SIGNED

John Somers

PLEASE INFORM US IMMEDIATELY IF YOU DO NOT RECEIVE FACSIMILE IN FULL

TOPS FORM 14700

LITHO IN USA

8-11-94

John Somers calls
Tested both zones

Lower 163 mcf/d ~ 500#

Upper 243 mcf/d ~ 412# no drawdown & plenty of mud filtrate
set pipe $4\frac{1}{2}$ " @ 1802' 100 SK, calc fill @ 900'

Plateau Cattle # 1
(pln 880)

10-16-94

Walter Ruck calls

700 mcf/d - still recovering a lot of wtr - very salty
was losing ~ 300 barrels while drilling

Fp ~ 135# SIP ~ 340#

40 bph 15-18 bph

Drilled the 1A & sand not present
TA as possible wtr disposal well.

Railline, purchasing plant, agriculture plant,
sulfur grinding, hydroponics (~20 tons CO₂/day)
Secured sulphur from El Paso - Otho.

9-13-95

Alan Emendorpher: moved in WO his
Squeezed off upper perfs
will file Sunday notice & new completion rpt.

9-21-95

Walter Ruck:

Upper perfs squeezed off & wtr production stopped.
Indicates lower perfs well above wtr table.

Discuss naming of field

= write letter recommending name & O&GCC consider in
next meeting.

7-27-94*

7" @ 727' w/ 85 sxs + 2% CaCl

Plateau Cattle #1
(P/N 880)

φ @ 1400', trip for bit

logged hole, neutron-density cross-over @ 200-210'

dolomite @ base San Andres, 18% φ, black sandy dolomite

8-4-94*

2400', tool joint broke. Haven't seen a lot of dolomite, bunch of sand.

C₁ @ 1960', 1-2 units, some trip gas

Negative kicks @ 1670-1740 (CO₂) stringers of dolomite, slight slow in interval

8-5-94*

T.D. @ 2431', granite

200-210', neutron-density cross-over, 20-26% φ, 1-2 units gas.

Top Supai @ 680'

1456-62', n-d x over, 31-32% φ, correlates to slow zone in Tennessee hole
Same depth betw Glorieta.

9.1# mud, 40 vis, low wtr loss

Strudette packer test of Supai zones

Set bridge plug in bottom 7", test @ 200'

Spot cnt on bp. across perms, surf. P&A or WW to Platt.

Testing this weekend. (6th + 7th)

8-7-94*

1680-1710 170 mcf/d non flammable gas sample
no lab in Farmington test for helium

Upper Zone

1456-62 (30% φ) 240 mcf/d non flammable gas
prob run pipe to attempt completion
gas samples to Farmington

Advise William Leachman residence number 806-352-6139

(called on Sunday 8-8-94)

8-9-94*

Call William Leachman, office 806-376-2604, no labs routinely
analyze for helium. So far they still do. Government cut-
backs may change that. URS sample bomb to Amatillo +
will analyze. Sandia Lab has capability but prob need
special authorization.

* Per phone reports to SLR

MEMORANDUM TO FILE

DATE: July 27, 1994

FROM: Steven L. Rauzi *SLR*
Oil and Gas Program Administrator

SUBJECT: Circulation of cement and BOPE test
RIDGEWAY/CANSTAR PLATEAU CATTLE NO. 1
NW NE SW Sec. 15, T. 12 N., R. 29 E., Apache County

I witnessed Haliburton circulate cement on the 9 5/8" surface casing on July 24.
About 3 to 4 barrels of cement were circulated on this job.

The BOPE stack was pressure tested after waiting on cement for 12 hours. The blind ram was tested to 200 psi for 15 minutes with no drop in pressure, good test. Could not get the blind ram to open after the test. The accumulator hose connection on the BOP stack was changed out and the blind ram opened fine. The pipe ram was opened and closed twice and then tested to 200 psi for 15 minutes with no drop in pressure, good test.

John called 7-21-94 + reported rig moving in spud Saturday + run + cement surface casing Sunday morning. Will call early Saturday if delay expected. Otherwise early Sunday is the time.

SLR



PERMIT TO DRILL

This constitutes the permission and authority from the
OIL AND GAS CONSERVATION COMMISSION,
STATE OF ARIZONA,

To: RIDGEWAY ARIZONA OIL CORP.
(OPERATOR)

to drill a well to be known as

RIDGEWAY/CANSTAR PLATEAU CATTLE COMPANY NO 1
(WELL NAME)

located 3023 feet from the north line and 3564 feet from the east line of

Section 15 Township 12N Range 29E, APACHE County, Arizona.

The NORTH HALF OF THE SOUTHWEST QUARTER of said
Section, Township and Range is dedicated to this well.

Said well is to be drilled substantially as outlined in the attached Application and must be drilled
in full compliance with all applicable laws, statutes, rules and regulations of the State of Arizona.

Issued this 9th day of JULY, 19 94.

OIL AND GAS CONSERVATION COMMISSION

By Steven L. Ramirez

EXECUTIVE DIRECTOR

OIL & GAS PROGRAM ADMINISTRATOR

PERMIT 00880

RECEIPT NO. 3066

A.P.I. NO. 02-001-20295

State of Arizona
Oil & Gas Conservation Commission
Permit to Drill
FORM NO. 27

APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

NAME OF COMPANY OR OPERATOR

RIDGEWAY ARIZONA OIL CORP.

Address

City

State

1080, 700-4th Avenue S.W. Calgary, Alberta T2P 3J4

Drilling Contractor

L&B Speed Drill

Address

P.O. Box 70, Farmington, New Mexico 87499

DESCRIPTION OF WELL AND LEASE

Federal, State or Indian Lease Number, or if fee lease, name of lessor
RIDGEWAY/CANSTAR PLATEAU CATTLE

Well number

1

Elevation (ground)

6372

Nearest distance from proposed location to property or lease line:

1650 feet

Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:

N/A

Number of acres in lease:

7743.44 ac.

Number of wells on lease, including this well, completed in or drilling to this reservoir:

None

If lease, purchased with one or more wells drilled, from whom purchased:

N/A

Well location (give footage from section lines)
3023' FNL & 3564' FEL

Section—township—range or block and survey
S 15, T12N, R29E

Dedication (Comply with Rule 105)
80 acres NE SW Q14

Field and Reservoir (if wildcat, so state)

Wildcat

County

APACHE

Distance in miles, and direction from nearest town or post office

7 miles southeast of St. Johns, Arizona

Proposed depth:

3055 feet

Rotary or cable tools

Rotary

Approx. date work will start

July 11, 1994

Bond Status

Amount \$10,000 CD

Organization Report

On file

Attached

Filing Fee of \$25.00

Attached

Remarks:

A drilling prognosis is attached

API # 02-001-20295

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the agent of the

Ridgeway Arizona Oil Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature

John B. Somers II
John B. Somers II

Date

June 24, 1994

Permit Number: 880

Approval Date: JUL 8 1994

Approved By: Stewart L. Ruiz

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.

STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Application to Drill or Re-enter
File Two Copies

Form No. 3

(Complete Reverse Side)

1. Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
2. A registered professional engineer or land surveyor registered in the State of Arizona or approved by the Commission shall show on the plat the location of the well and certify this information in the space provided.
3. ALL DISTANCES SHOWN ON THE PLAT MUST BE FROM THE OUTER BOUNDARIES OF THE SECTION.
4. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES _____ NO X .
5. If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES X NO _____. If answer is "yes," Type of Consolidation various agreements
6. If the answer to question four is "no," list all the owners and their respective interests below:

Owner Ridgeway Arizona Oil Corp. 40%, Canstar Ventures Corp. 40% and F.L. Shogrin 20%	Land Description Section 15, T12N, R29E
	<p style="text-align: center;">CERTIFICATION</p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name JAMES E ANDREWS, RLS</p> <p>Position DISTRICT SURVEYOR</p> <p>Company POWERS ELEVATION CO., INC.</p> <p>Date JUNE 24, 1994</p> <p>I hereby certify that the well location shown on the plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.</p> <p style="text-align: center;"> </p> <p>Date Surveyed 21 JUNE 1994</p> <p>Registered Professional Engineer and/or Land Surveyor JAMES E. ANDREWS</p> <p>Certificate No. _____</p>

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement	Type
9 5/8"	36#	J55	surf.	150'	150'	80	Standard
7"	23#	J55	surf.	810'	810'	130	w/2%CaCl ₂



High Plains Petroleum Corporation

3860 Carlock Dr. Boulder, CO 80303 303-494-4529

Well Prognosis
Plateau No. 1-15
NE/4SW/4 Sec. 15, T12N, R29E
Apache Co., Arizona

Geology -

Anticipated Tops

<u>Age</u>	<u>Formation</u>	<u>Depth</u>	<u>Lithology</u>
Triassic	Chinle-Moenkopi	surface	ss, sh and congl.
Permian	San Andres*	145'	Ls, dol. & ss
"	Glorieta*	505'	ss
"	Supai*	805'	evaporite sequence- ss, sh, salt, dol & ls.
Pennsylvanian	Naco*	2135'	Ls & sh
?	Granite Wash	2985'	ss & congl.
PreCambrian		3055'	granite

* Prospective pay zone

Casing Program -

9 5/8" set to the top of the San Andres and cmtd. back to the surface.
7" set at the base of the Glorieta to prevent fresh water influx from the San Andres and/or Glorieta from causing washout and sloughing problems in the Supai salt section, to prevent contamination of those aquifers by salt mud necessary to drill the Supai and to prevent lost circulation due to relatively heavy salt mud into the sometimes cavernous San Andres and porous aeolian sand in the Glorieta.

Anticipated Drilling Problems -

- (1) Lost circulation, if the San Andres is cavernous.
- (2) Sloughing, if the Supai salts are allowed to wash out.

Logging Program Recommended by Schlumberger -

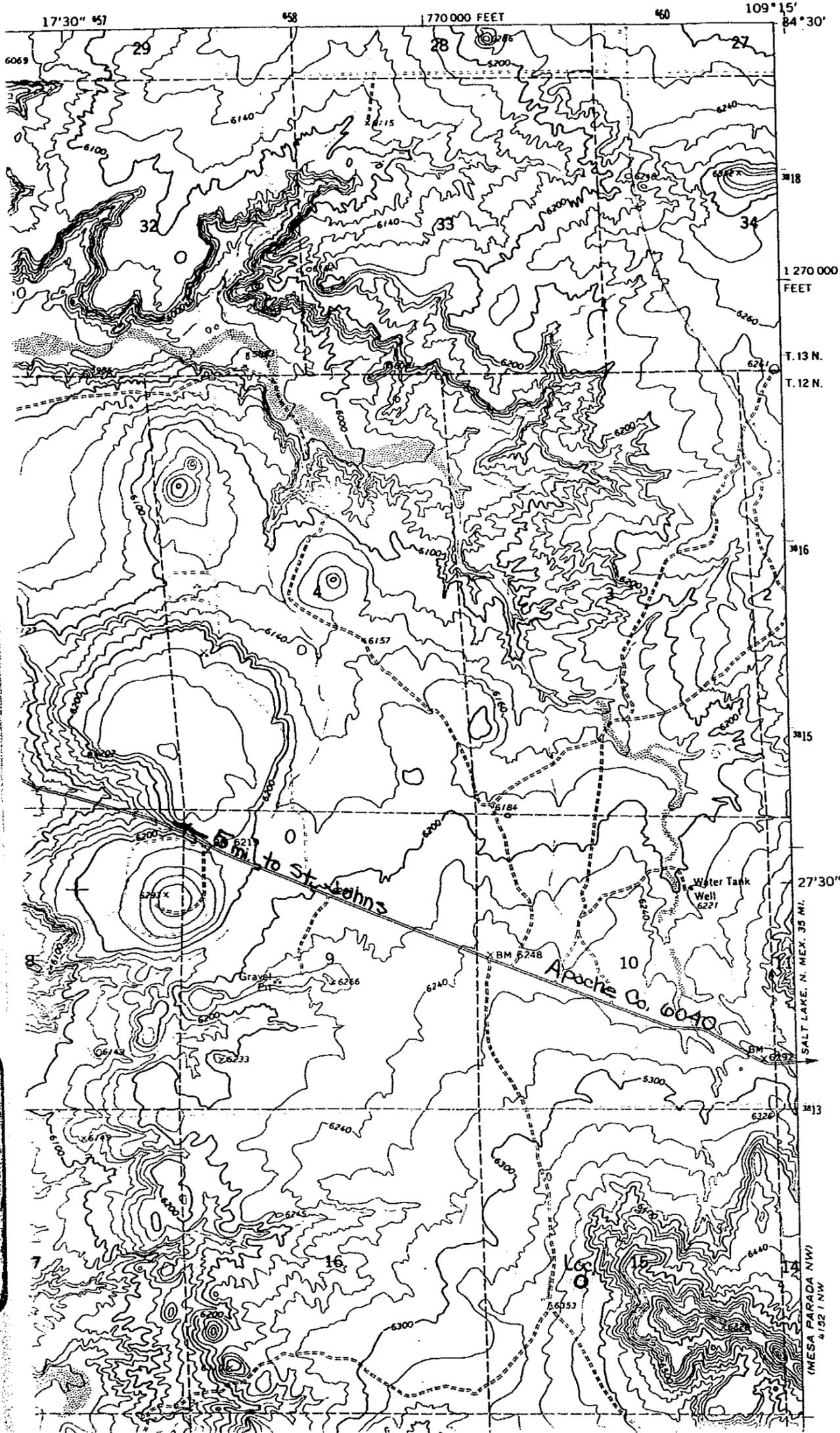
LL**, SFL, NGT, LDT and CNL**

** Note: A minimum of these two logs need to be run. The other three help in analyzing carbonates and sandstones simultaneously and in identifying fracturing.

A copy of the part of the USGS topo map showing the initial recommended location is attached.

ST. JOHNS SOUTH QUADRANGLE
ARIZONA - APACHE CO.
7.5 MINUTE SERIES (TOPOGRAPHIC)

6157 SW
(BEARN LAKE)



109° 15' 30"

17° 30' 45"

770 000 FEET

40

34° 30'

1 270 000 FEET

T. 13 N.

T. 12 N.

316

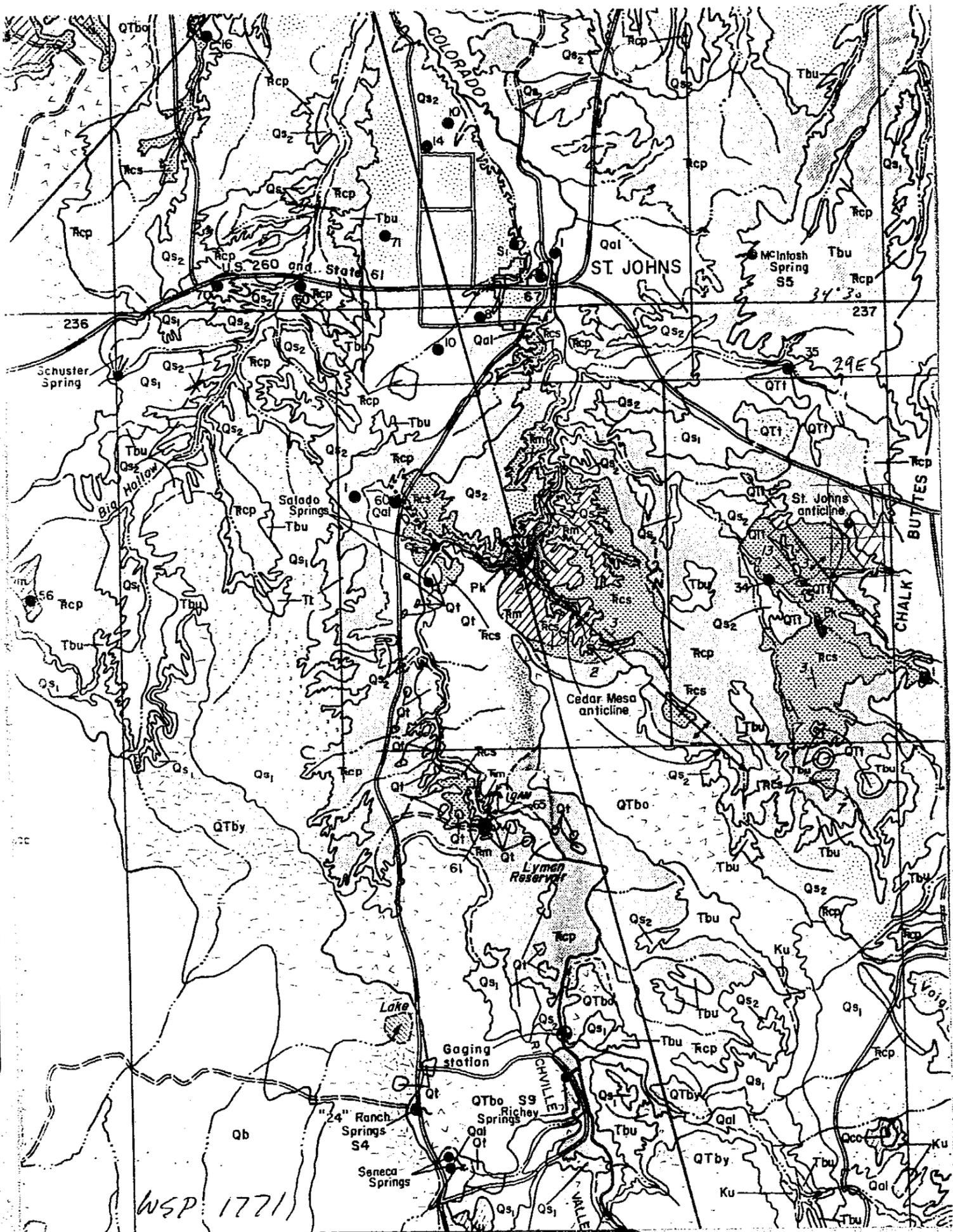
315

27° 30"

SALT LAKE, N. MEX. 35 MI.

313

(MESA PARADA NW)
4152 NW



TYPE K - REGULAR BLOWOUT PREVENTER WITH SLOPED TOP
AND BOTTOM

CAN BE BUILT FOR 7", 8", 10", 11", 12" AND 13"

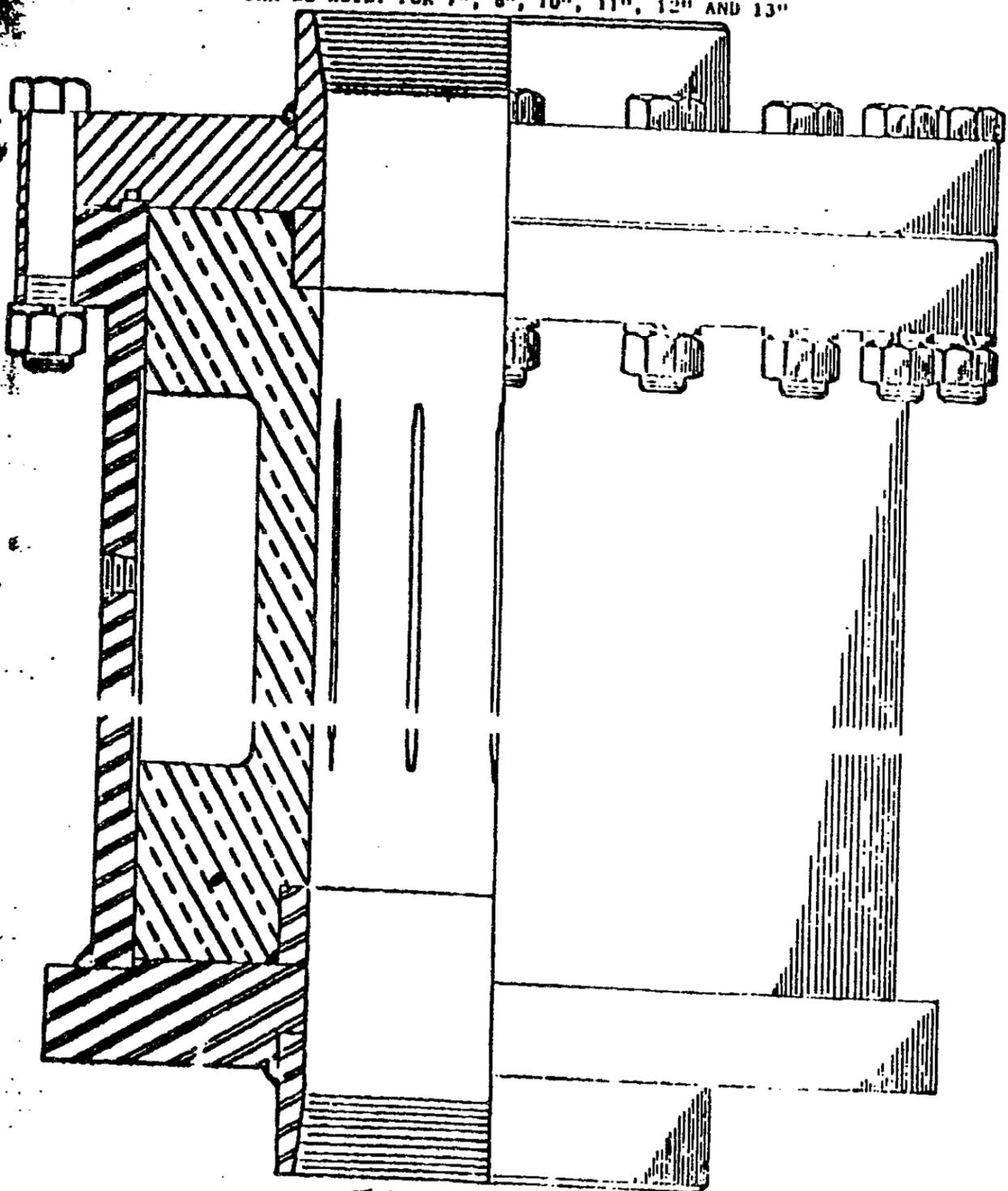
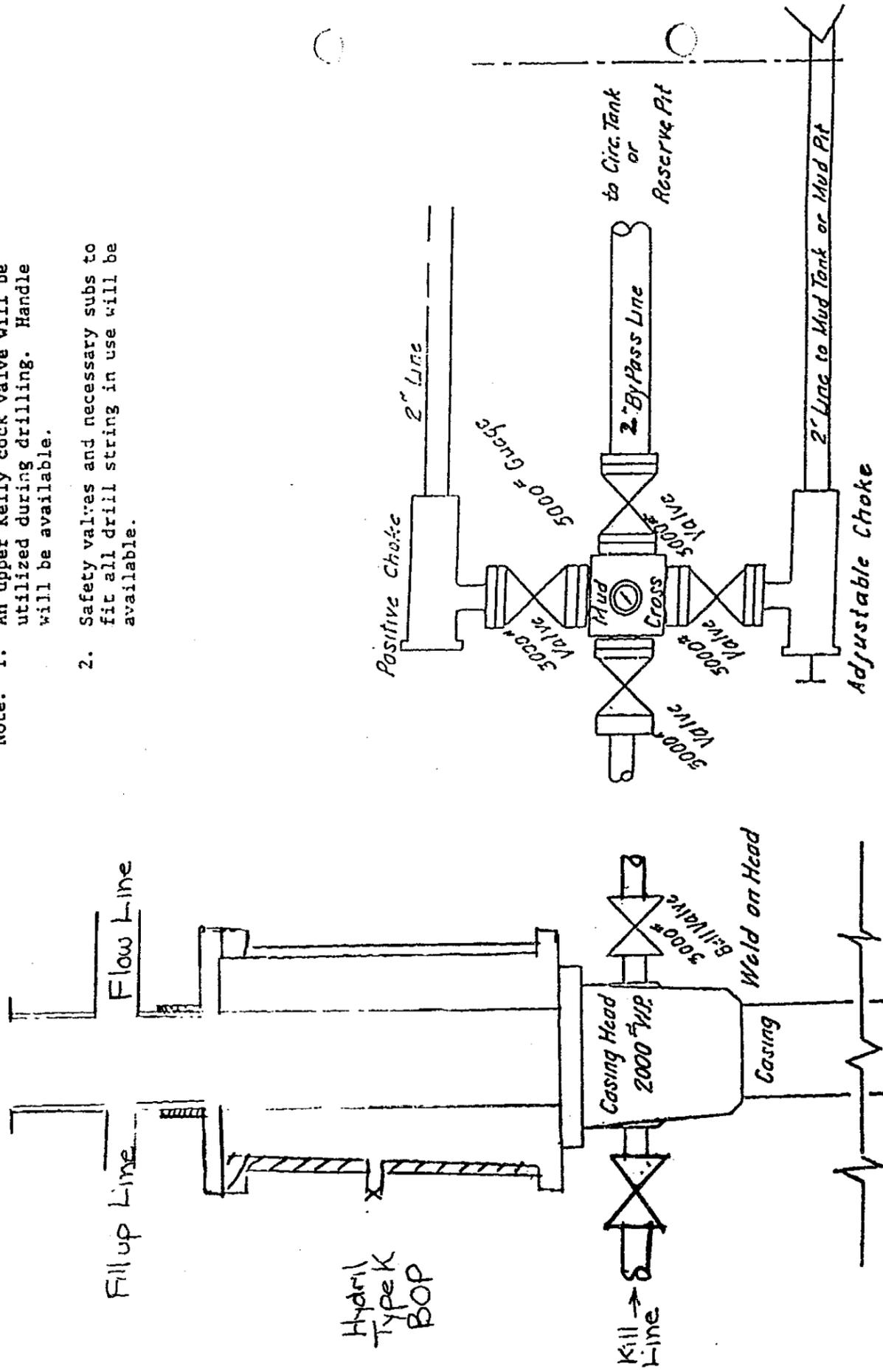


Exhibit
APPLICATION FOR PERMIT TO DRILL
Ridgeway Arizona Oil Corp.
Ridgeway / Canstar Plateau Cattle No.1
N/2 SW/4 Sec. 15, T12N, R29E, Apache Co, Arizona

- Note:
1. An upper Kelly cock valve will be utilized during drilling. Handle will be available.
 2. Safety valves and necessary subs to fit all drill string in use will be available.



Part Two - BOP Exhibit
 Application for Permit to Drill Ridgeway/Constar Plateau
 Cattle No. 1 - N/2 SW/4 Sec. 15, T12N, R29E, Apache Co., Arizona

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual
RIDGEWAY ARIZONA OIL CORPORATION

Mailing Address and Phone Number
1080,700 - 4th Ave. SW Calgary, Alberta, Canada T2P-3J4

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual
Corporation

Purpose of Organization (State type of business in which engaged)
Oil & Gas Exploration and Production

If a reorganization, give name and address of previous organization
Newco

If a foreign corporation, give (1) State where incorporated Arizona State Corp.	(2) Name and mailing address of state agent Don Riggs PO Box 1110 St. Johns, AZ 85936	(3) Date of permit to do business in state May 16, 1994
Principal Officers or Partners (if partnership) NAME	TITLE	MAILING ADDRESS
Walter B. Ruck	President	2604 Signal Ridge View SW Calgary Alberta T3H 3G1
Don R. Riggs	Vice President	PO Box 1110 St. Johns, AZ 85936
E. Maxine Robertson	Secretary	872 Queensland Dr. SE Calgary, Alberta T2J 6E6

DIRECTORS NAME	MAILING ADDRESS
Walter B. Ruck	As above
Don R. Riggs	As above
E. Maxine Robertson	As above

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Vice-President of the Ridgeway Arizona Oil Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature *[Handwritten Signature]*

Date **2-19-97**



Mail completed form to:
 Oil and Gas Program Administrator
 Arizona Geological Survey
 416 W. Congress., #100
 Tucson, AZ 85701

STATE OF ARIZONA

OIL & GAS CONSERVATION COMMISSION

Organization Report
 File One Copy

Form No. 1

ORGANIZATION REPORT

AMENDED

Full Name of the Company, Organization, or Individual
RIDGEWAY ARIZONA OIL CORP.

Post Office Address (Box or Street Address)
1080, 700 - 4th Ave. S.W., Calgary, Alberta T2P 3J4

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)
Corporation

Purpose of Organization (State type of business in which engaged)
Oil and Gas Exploration and Production

If a reorganization, give name and address of previous organization.
Newco

If a foreign corporation, give (1) State where incorporated WE ARE AN ARIZONA STATE CORPORATION	(2) Name and post office address of state agent MITCHELL PLATT P.O. BOX 398 ST. JOHNS, ARIZONA	(3) Date of permit to do business in state MAY 16, 1994
---	--	---

Principal Officers or Partners (if partnership) NAME	TITLE	POST OFFICE ADDRESS
Walter B. Ruck	President	2604 Signal Ridge View S.W. Calgary, Alberta T3H 3G1
John B. Somers, II	Vice-President	3860 Carlock Drive Boulder, Colorado 80303
E. Maxine Robertson	Secretary-Treasurer	872 Queensland Drive S.E. Calgary, Alberta T2J 6E6

DIRECTORS NAME	POST OFFICE ADDRESS
W. B. Ruck	As above
John B. Somers, II	As above
E. Maxine Robertson	As above

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the President of the Ridgeway Arizona Oil Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature *W. Ruck*

Date JUNE 8/94



STATE OF ARIZONA
 OIL & GAS CONSERVATION COMMISSION
 Organization Report
 File One Copy
 Form No. 1

ORGANIZATION REPORT

Full Name of the Company, Organization, or Individual

RIDGEWAY ARIZONA OIL CORP.

Post Office Address (Box or Street Address)

1080, 700 - 4th Ave. S.W., Calgary, Alberta T2P 3J4

Plan of Organization (State whether organization is a corporation, joint stock association, firm or partnership, or individual)

Corporation

Purpose of Organization (State type of business in which engaged)

Oil and Gas Exploration and Production

If a reorganization, give name and address of previous organization.

Newco

If a foreign corporation, give
(1) State where incorporated

(2) Name and post office address of state agent

(3) Date of permit to do business in state

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W. B. Ruck	As above
John B. Somers, II	As above
E. Maxine Robertson	As above

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the President of the Ridgeway Arizona Oil Corp. (company), and that I am authorized by said company to make this report; and that this report was prepared under my supervision and direction and that the facts stated therein are true, correct and complete to the best of my knowledge.

Signature *W. Ruck*

Date JUNE 8/94



STATE OF ARIZONA
OIL & GAS CONSERVATION COMMISSION
Organization Report
File One Copy
Form No. 1

DST Reports
Ridge way / Canstar Plateau Cattle #1
P/N 880



1732 East Main
P.O. Box 718
Farmington, NM 87499
Phone: (505) 325-0216
Fax: (505) 325-0218

**AZ OIL & GAS
CONSERVATION COMMISSION**

SEP 1 1994

COMPANY NAME: Ridgeway Arizona Oil Corp.
WELL NAME: Plateau Cattle #1 CONTRACTOR: Jim Ludwig
DST NO.: 1 K.B. ELEVATION: 880
SPOT: NE SW FORMATION: Supai
SEC.: 15
TWP.: 12N
RNG.: 29E
FIELD: WILDCAT
COUNTY: Apache
STATE: Arizona
FLOW NO. 1: 15 MIN. SHUT-IN NO. 1: 30 MIN.
FLOW NO. 2: 60 MIN. SHUT-IN NO. 2: 120 MIN.
BOTTOM HOLE TEMP.: 84
TOP CHOKE: 1/4 BOTTOM CHOKE: 3/4
SIZE HOLE: 6 1/4 CASING SIZE & WT.: 7 23#
SIZE & WT. D.P. OR TUBING: 3 1/2 15.5#
I.D. OR D.C.: 2 1/4
LENGTH OF D.C. ABOVE TOOL: 245
TOTAL DEPTH: 2431
INTERVAL TESTED: 1680 - 1720
TYPE OF TEST: Bottom Hole Straddle
MUD WEIGHT: 9.0 VISCOSITY: 38
TOOL OPENED @: 22:05:00

COMPANY NAME: Ridgeway Arizona Gas Corp
WELL NAME: Plateau Cattle Co. #1
DST NO.: 1

SAMPLE DATA

SAMPLE CHAMBER:

CAPACITY OF SAMPLE CHAMBER... 2500 CC
VOLUME OF SAMPLE..... 0
PRESSURE IN SAMPLER..... 240 PSIG
WHERE SAMPLER WAS DRAINED..... Rig

SAMPLER CONTAINED:
1.7 cu ft gas

RESISTIVITY DATA:

TOP.....	.1 @ 60	88000 ppm
MIDDLE.....	.1 @ 60	88000 ppm
BOTTOM.....	.1 @ 60	88000 ppm
SAMPLER.....		ppm
MUD PIT.....	.1 @ 60	88000 ppm
MAKE-UP WATER.....	2.7 @ 55	2750 ppm

DID WELL FLOW: GAS Yes OIL NO WATER NO

RECOVERY IN PIPE:

100 Ft. drilling mud
75 Ft. gas cut drilling mud
175 Ft. Total .86 Bbl.

BLOW DESCRIPTION:

INITIAL FLOW; Tool opened with a strong blow increased to the bottom of the bucket in 15 sec. open through 1/4 choke in 5 min. with 70# and gas to surface, 130# in 10 min., 110# in 15 min

FINAL FLOW; Tool opened with a strong blow to the bottom of the bucket immediately (see flow rates)

COMPANY NAME: Ridgeway Arizona Oil Corp
 WELL NAME: Plateau Cattle Co. #1
 DST NO.: 1

TYPE DMR NO. 4000
 CAP. 5000 LOC.1663
 INSIDE X OUTSIDE
 HOURS 19:21:00

TYPE DMR NO. 4003
 CAP. 5000 LOC.1706
 INSIDE X OUTSIDE
 HOURS 18:57:00

PRESS.
 IH..... 746
 FH..... 656
 IF-1.... 122
 FF-1.... 175
 IF-2.... 102
 FF-2.... 175
 SIP-1... 485
 SIP-2... 485

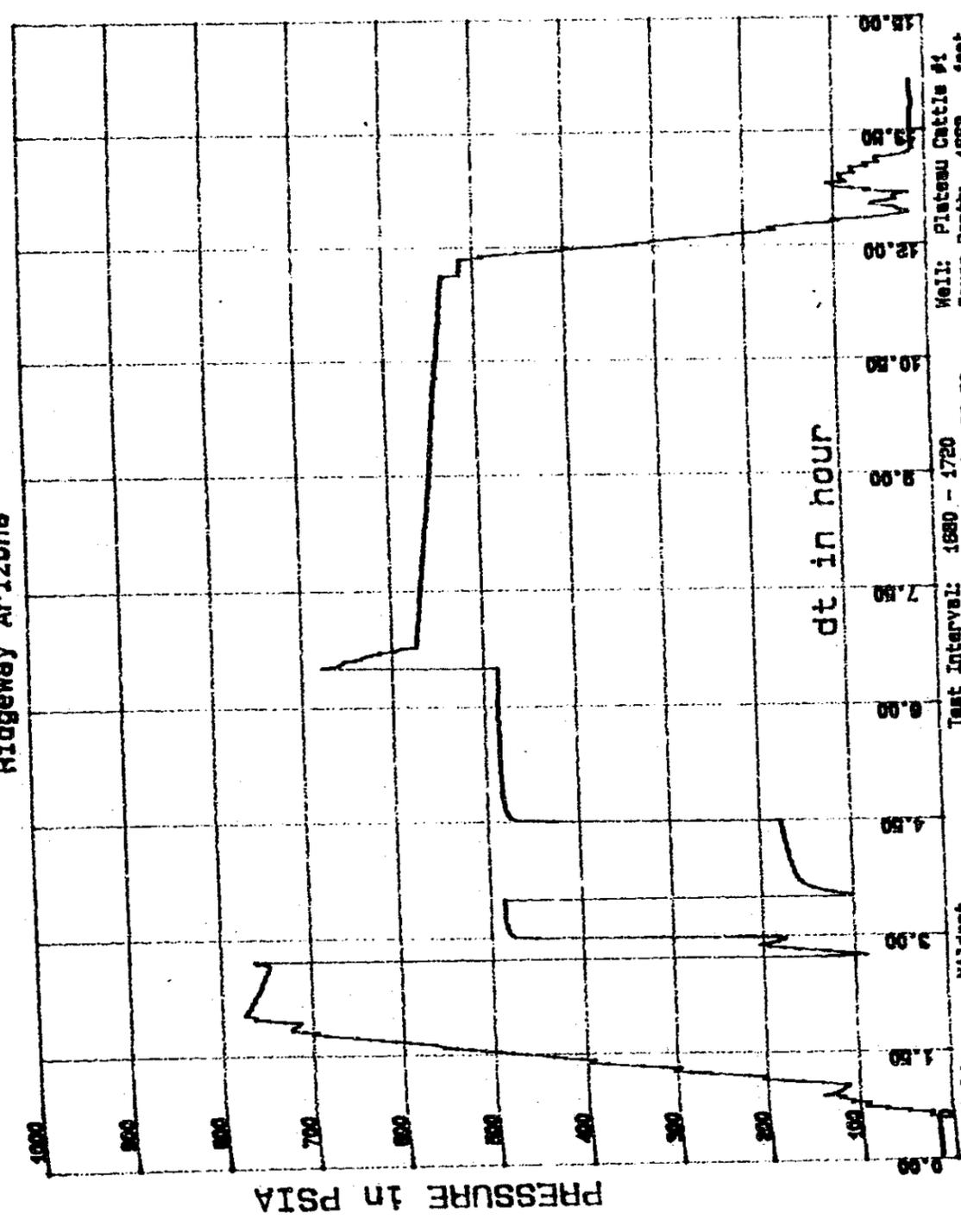
PRESS.
 IH..... 773
 FH..... 681
 IF-1.... 112
 FF-1.... 191
 IF-2.... 112
 FF-2.... 193
 SIP-1... 500
 SIP-2... 501

TIME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
------	------------	------------------	-----------------	---------

NO FLAMMABLE GAS TO SURFACE

5 min.	1/4	65 psi	117.8	
10 min.	1/4	85 psi	147.3	
15 min.	1/4	90 psi	154.6	
20 min.	1/4	95 psi	162.0	
30 min.	1/4	95 psi	162.0	
40 min.	1/4	95 psi	162.0	
50 min.	1/4	95 psi	162.0	
60 min.	1/4	95 psi	162.0	

LINEAR PLOT
Ridgeway Arizona



Field: Wildcat
Start time: 8: 5: 94/19: 22: 30
Comments: DST #1

Test Interval: 1680 - 1720
Stop time: 8: 8: 94/09: 32: 30

Well: Plateau Cattle #1
Gauge Depth: 1683 feet

BAKER OIL TOOLS

028

LINEAR PLOT
Ridgeway Arizona

BAKER OIL TOOLS



Field: Midcat
 Start time: 8/24/10 5:30
 Comment: DST #1 Below Straddle

Test Interval: 1680 - 1720
 Stop time: 8/24/09 17:30

Well: Plateau Cattle #1
 Gauge Depth: 1730 feet

880

LINEAR PLOT
Ridgeway Arizona

BAKER OIL TOOLS



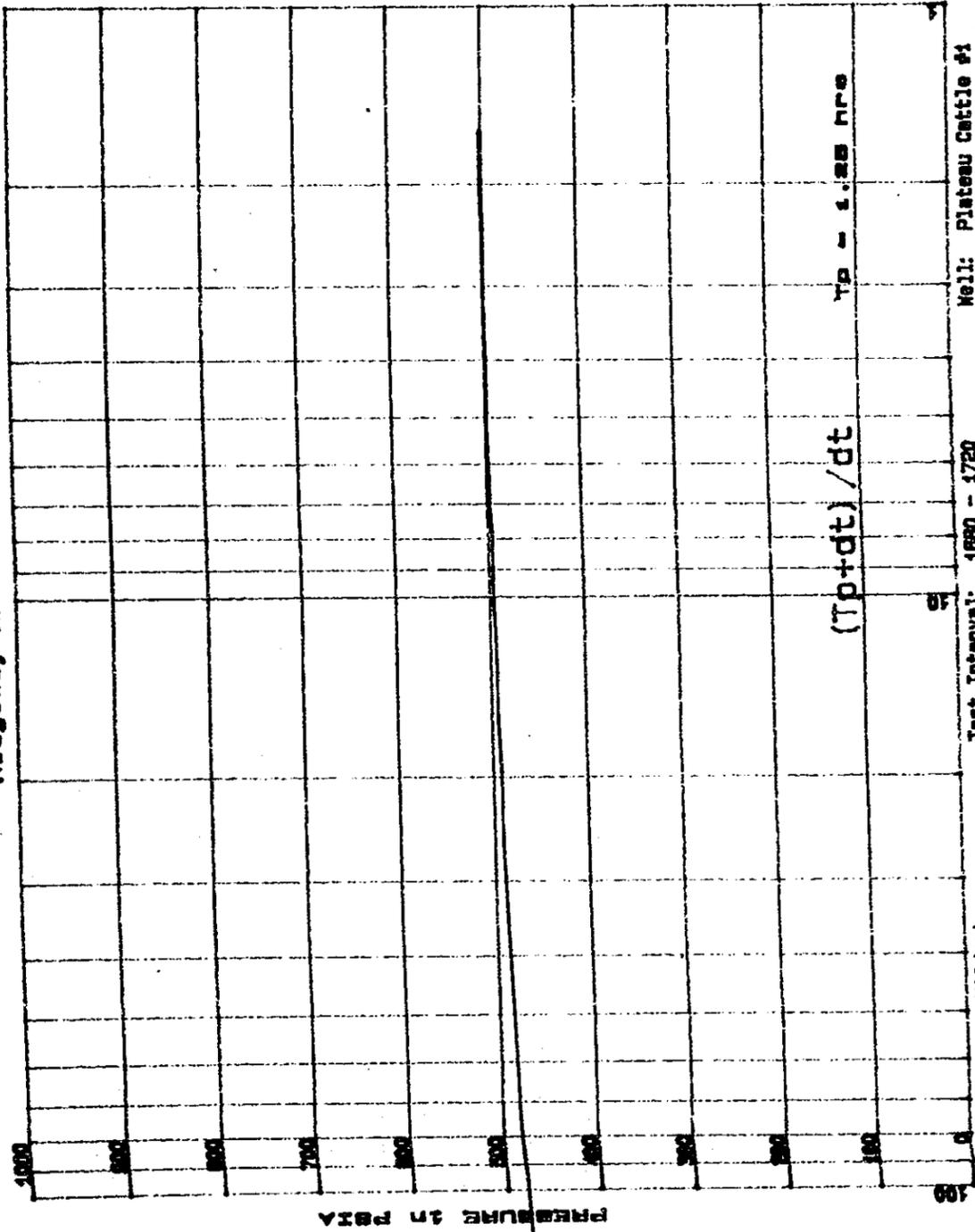
Field: Wildcat
Start time: 8: 5: 94/18: 58: 30
Comments: DST #1

Test Interval: 1680 - 1720
Stop time: 8: 8: 94/08: 31: 30

Well: Plateau Cattle #1
Gauge Depth: 1708 feet

880

HORNER PLOT
Ridgeway Arizona



BAKER OIL TOOLS

Field: Wildcat
Start time: 6/23/94 5:30
Comments: Final Shut-in DST #1

Test Interval: 1680 - 1720
Stop time: 6/24/94 5:23:30

Well: Plateau Cattle #1
Gauge Depth: 1708 feet

028

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle #1
LOCATION : NE SW 15 29E
PERF. INTERVAL : 1680 - 1720
ELEVATION :
GAUGE DEPTH : 1706 feet
GAUGE MODEL : 2576
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Initial Flow Data DST #1

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:
BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
FIELD : Wildcat
WELL : Plateau Cattle #1
LOCATION : NE SW 15 29E

TEST INT. : 1680 - 1720
GAUGE DEPTH : 1706 feet
GAUGE S/N : 4003
START DATE: 08/05/94 (MM/DD/YY)
START TIME: 18:57:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	22:05:30	0.000	112.5	0.0	84.4	165
1	22:06:30	0.017	107.5	-5.0	84.4	166
1	22:07:30	0.033	121.2	8.8	84.4	167
1	22:08:30	0.050	136.2	23.7	84.4	168
1	22:10:30	0.083	168.7	56.3	84.6	169
1	22:11:30	0.100	186.2	73.7	84.6	170
1	22:12:30	0.117	201.2	88.7	84.6	171
1	22:13:30	0.133	215.0	102.5	84.6	172
1	22:14:30	0.150	217.5	105.0	84.6	173
1	22:15:30	0.167	210.0	97.5	84.6	174
1	22:16:30	0.183	202.5	90.0	84.6	175
1	22:18:30	0.217	193.7	81.3	84.3	176
1	22:19:30	0.233	191.2	78.7	84.3	177

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle #1
LOCATION : NE SW 15 29E
PERF. INTERVAL : 1680 - 1720
ELEVATION :
GAUGE DEPTH : 1706 feet
GAUGE MODEL : 2576
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Initial Shut-in Data DST #1

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:
BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle #1
 LOCATION : NE SW 15 29E

TEST INT. : 1680 - 1720
 GAUGE DEPTH : 1706 feet
 GAUGE S/N : 4003
 START DATE: 08/05/94 (MM/DD/YY)
 START TIME: 18:57:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp F	Record # in the DataFile
1	22:20:30	0.000	366.2	0.0	84.3	178
1	22:21:30	0.017	487.5	121.2	84.3	179
1	22:22:30	0.033	492.5	126.2	84.3	180
1	22:23:30	0.050	493.7	127.5	84.3	181
1	22:24:30	0.067	495.0	128.7	84.3	182
1	22:26:30	0.100	496.2	130.0	84.1	183
1	22:27:30	0.117	497.5	131.2	84.1	184
1	22:28:30	0.133	497.5	131.2	84.1	185
1	22:29:30	0.150	498.7	132.5	84.1	186
1	22:30:30	0.167	498.7	132.5	84.1	187
1	22:31:30	0.183	498.7	132.5	84.1	188
1	22:32:30	0.200	498.7	132.5	84.1	189
1	22:34:30	0.233	498.7	132.5	84.4	190
1	22:35:30	0.250	498.7	132.5	84.4	191
1	22:36:30	0.267	498.7	132.5	84.4	192
1	22:37:30	0.283	500.0	133.7	84.4	193
1	22:38:30	0.300	500.0	133.7	84.4	194
1	22:39:30	0.317	500.0	133.7	84.4	195
1	22:40:30	0.333	500.0	133.7	84.4	196
1	22:42:30	0.367	500.0	133.7	84.5	197
1	22:43:30	0.383	500.0	133.7	84.5	198
1	22:44:30	0.400	500.0	133.7	84.5	199
1	22:45:30	0.417	500.0	133.7	84.5	200
1	22:46:30	0.433	500.0	133.7	84.5	201
1	22:47:30	0.450	500.0	133.7	84.5	202
1	22:48:30	0.467	500.0	133.7	84.5	203
1	22:50:30	0.500	500.0	133.7	84.6	204

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle #1
LOCATION : NE SW 15 29E
PERF. INTERVAL : 1680 - 1720
ELEVATION :
GAUGE DEPTH : 1706 feet
GAUGE MODEL : 257S
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Final Flow Data DST #1

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle #1
 LOCATION : NE SW 15 29E

TEST INT. : 1680 - 1720
 GAUGE DEPTH : 1706 feet
 GAUGE S/N : 4003
 START DATE: 08/05/94 (MM/DD/YY)
 START TIME: 18:57:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp F	Record # in the DataFile
1	22:52:30	0.000	112.5	0.0	84.6	206
1	22:53:30	0.017	121.2	8.8	84.6	207
1	22:54:30	0.033	131.2	18.8	84.6	208
1	22:55:30	0.050	138.7	26.2	84.6	209
1	22:56:30	0.067	146.2	33.7	84.6	210
1	22:58:30	0.100	157.5	45.0	83.8	211
1	22:59:30	0.117	162.5	50.0	83.8	212
1	23:00:30	0.133	166.2	53.7	83.8	213
1	23:01:30	0.150	168.7	56.3	83.8	214
1	23:02:30	0.167	171.2	58.7	83.8	215
1	23:03:30	0.183	172.5	60.0	83.8	216
1	23:04:30	0.200	175.0	62.5	83.8	217
1	23:06:30	0.233	176.2	63.7	82.9	218
1	23:07:30	0.250	177.5	65.0	82.9	219
1	23:08:30	0.267	177.5	65.0	82.9	220
1	23:09:30	0.283	178.7	66.2	82.9	221
1	23:10:30	0.300	178.7	66.2	82.9	222
1	23:11:30	0.317	180.0	67.5	82.9	223
1	23:12:30	0.333	181.2	68.8	82.9	224
1	23:14:30	0.367	181.2	68.8	82.4	225
1	23:15:30	0.383	182.5	70.0	82.4	226
1	23:16:30	0.400	182.5	70.0	82.4	227
1	23:17:30	0.417	182.5	70.0	82.4	228
1	23:18:30	0.433	183.7	71.2	82.4	229
1	23:19:30	0.450	183.7	71.2	82.4	230
1	23:20:30	0.467	183.7	71.2	82.4	231
1	23:22:30	0.500	185.0	72.5	81.9	232
1	23:23:30	0.517	185.0	72.5	81.9	233
1	23:24:30	0.533	186.2	73.7	81.9	234
1	23:25:30	0.550	186.2	73.7	81.9	235
1	23:26:30	0.567	186.2	73.7	81.9	236
1	23:27:30	0.583	186.2	73.7	81.9	237
1	23:28:30	0.600	187.5	75.0	81.9	238
1	23:30:30	0.633	187.5	75.0	81.5	239
1	23:31:30	0.650	188.7	76.2	81.5	240
1	23:32:30	0.667	188.7	76.2	81.5	241
1	23:33:30	0.683	188.7	76.2	81.5	242
1	23:34:30	0.700	188.7	76.2	81.5	243
1	23:35:30	0.717	188.7	76.2	81.5	244
1	23:36:30	0.733	188.7	76.2	81.5	245

WELL NAME : Plateau Cattle #1

Page: 2.

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	23:38:30	0.767	190.0	77.5	81.1	246
1	23:39:30	0.783	190.0	77.5	81.1	247
1	23:40:30	0.800	191.2	78.7	81.1	248
1	23:41:30	0.817	191.2	78.7	81.1	249
1	23:42:30	0.833	191.2	78.7	81.1	250
1	23:43:30	0.850	191.2	78.7	81.1	251
1	23:44:30	0.867	191.2	78.7	81.1	252
1	23:46:30	0.900	192.5	80.0	80.9	253
1	23:47:30	0.917	192.5	80.0	80.9	254
1	23:48:30	0.933	192.5	80.0	80.9	255
1	23:49:30	0.950	193.7	81.3	80.9	256
1	23:50:30	0.967	193.7	81.3	80.9	257

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle #1
LOCATION : NE SW 15 29E
PERF. INTERVAL : 1680 - 1720
ELEVATION :
GAUGE DEPTH : 1706 feet
GAUGE MODEL : 257S
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Final Shut-in Data DST #1

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

Byr
BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT
(WITH HORNER TIME)

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle #1
 LOCATION : NE SW 15 29E
 TP (hours): 1.25

TEST INT. : 1680 - 1720
 GAUGE DEPTH : 1706 feet
 GAUGE S/N : 4003
 START DATE: 08/05/94 (MM/DD/YY)
 START TIME: 18:57:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Horner time	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	23:51:30	0.000	1.00	311.2	0.0	80.9	258
1	23:52:30	0.017	76.00	481.2	170.0	80.9	259
1	23:54:30	0.050	26.00	491.2	180.0	80.6	260
1	23:55:30	0.067	19.75	491.2	180.0	80.6	261
1	23:56:30	0.083	16.00	493.7	182.5	80.6	262
1	23:57:30	0.100	13.50	493.7	182.5	80.6	263
1	23:58:30	0.117	11.71	495.0	183.7	80.6	264
1	23:59:30	0.133	10.37	496.2	185.0	80.6	265
2	00:00:30	0.150	9.33	496.2	185.0	80.6	266
2	00:02:30	0.183	7.82	496.2	185.0	81.1	267
2	00:03:30	0.200	7.25	497.5	186.2	81.1	268
2	00:04:30	0.217	6.77	497.5	186.2	81.1	269
2	00:05:30	0.233	6.36	497.5	186.2	81.1	270
2	00:06:30	0.250	6.00	498.7	187.5	81.1	271
2	00:07:30	0.267	5.69	498.7	187.5	81.1	272
2	00:08:30	0.283	5.41	498.7	187.5	81.1	273
2	00:10:30	0.317	4.95	498.7	187.5	81.4	274
2	00:11:30	0.333	4.75	498.7	187.5	81.4	275
2	00:12:30	0.350	4.57	498.7	187.5	81.4	276
2	00:13:30	0.367	4.41	498.7	187.5	81.4	277
2	00:14:30	0.383	4.26	498.7	187.5	81.4	278
2	00:15:30	0.400	4.12	498.7	187.5	81.4	279
2	00:16:30	0.417	4.00	498.7	187.5	81.4	280
2	00:18:30	0.450	3.78	498.7	187.5	81.6	281
2	00:19:30	0.467	3.68	500.0	188.7	81.6	282
2	00:20:30	0.483	3.59	498.7	187.5	81.6	283
2	00:21:30	0.500	3.50	498.7	187.5	81.6	284
2	00:22:30	0.517	3.42	498.7	187.5	81.6	285
2	00:23:30	0.533	3.34	500.0	188.7	81.6	286
2	00:24:30	0.550	3.27	500.0	188.7	81.6	287
2	00:26:30	0.583	3.14	500.0	188.7	81.9	288
2	00:27:30	0.600	3.08	500.0	188.7	81.9	289
2	00:28:30	0.617	3.03	500.0	188.7	81.9	290
2	00:29:30	0.633	2.97	500.0	188.7	81.9	291
2	00:30:30	0.650	2.92	500.0	188.7	81.9	292
2	00:31:30	0.667	2.87	500.0	188.7	81.9	293
2	00:32:30	0.683	2.83	500.0	188.7	81.9	294
2	00:34:30	0.717	2.74	500.0	188.7	82.1	295
2	00:35:30	0.733	2.70	500.0	188.7	82.1	296
2	00:36:30	0.750	2.67	500.0	188.7	82.1	297

WELL NAME : Plateau Cattle #1

Page: 2

Day	Time HH:MM:SS	Delta Time Hours	Horner time	Press PSIA	dp	Temp 'F	Record # in the DataFile
2	00:37:30	0.767	2.63	500.0	188.7	82.1	298
2	00:38:30	0.783	2.60	500.0	188.7	82.1	299
2	00:39:30	0.800	2.56	500.0	188.7	82.1	300
2	00:40:30	0.817	2.53	500.0	188.7	82.1	301
2	00:42:30	0.850	2.47	500.0	188.7	82.4	302
2	00:43:30	0.867	2.44	500.0	188.7	82.4	303
2	00:44:30	0.883	2.42	500.0	188.7	82.4	304
2	00:45:30	0.900	2.39	500.0	188.7	82.4	305
2	00:46:30	0.917	2.36	500.0	188.7	82.4	306
2	00:47:30	0.933	2.34	500.0	188.7	82.4	307
2	00:48:30	0.950	2.32	500.0	188.7	82.4	308
2	00:50:30	0.983	2.27	500.0	188.7	82.6	309
2	00:51:30	1.000	2.25	501.2	190.0	82.6	310
2	00:52:30	1.017	2.23	501.2	190.0	82.6	311
2	00:53:30	1.033	2.21	501.2	190.0	82.6	312
2	00:54:30	1.050	2.19	500.0	188.7	82.6	313
2	00:55:30	1.067	2.17	501.2	190.0	82.6	314
2	00:56:30	1.083	2.15	501.2	190.0	82.6	315
2	00:58:30	1.117	2.12	500.0	188.7	82.7	316
2	00:59:30	1.133	2.10	500.0	188.7	82.7	317
2	01:00:30	1.150	2.09	501.2	190.0	82.7	318
2	01:01:30	1.167	2.07	501.2	190.0	82.7	319
2	01:02:30	1.183	2.06	501.2	190.0	82.7	320
2	01:03:30	1.200	2.04	501.2	190.0	82.7	321
2	01:04:30	1.217	2.03	501.2	190.0	82.7	322
2	01:06:30	1.250	2.00	501.2	190.0	82.9	323
2	01:07:30	1.267	1.99	501.2	190.0	82.9	324
2	01:08:30	1.283	1.97	501.2	190.0	82.9	325
2	01:09:30	1.300	1.96	501.2	190.0	82.9	326
2	01:10:30	1.317	1.95	501.2	190.0	82.9	327
2	01:11:30	1.333	1.94	501.2	190.0	82.9	328
2	01:12:30	1.350	1.93	501.2	190.0	82.9	329
2	01:14:30	1.383	1.90	501.2	190.0	83.0	330
2	01:15:30	1.400	1.89	501.2	190.0	83.0	331
2	01:16:30	1.417	1.88	501.2	190.0	83.0	332
2	01:17:30	1.433	1.87	501.2	190.0	83.0	333
2	01:18:30	1.450	1.86	501.2	190.0	83.0	334
2	01:19:30	1.467	1.85	501.2	190.0	83.0	335
2	01:20:30	1.483	1.84	500.0	188.7	83.0	336
2	01:22:30	1.517	1.82	501.2	190.0	83.1	337
2	01:23:30	1.533	1.82	501.2	190.0	83.1	338
2	01:24:30	1.550	1.81	501.2	190.0	83.1	339
2	01:25:30	1.567	1.80	501.2	190.0	83.1	340
2	01:26:30	1.583	1.79	501.2	190.0	83.1	341
2	01:27:30	1.600	1.78	501.2	190.0	83.1	342

WELL NAME : Plateau Cattle #1

Page: 3

Day	Time HH:MM:SS	Delta Time Hours	Horner time	Press PSIA	dp	Temp 'F	Record # in the DataFile
2	01:28:30	1.617	1.77	501.2	190.0	83.1	343
2	01:30:30	1.650	1.76	501.2	190.0	83.2	344
2	01:31:30	1.667	1.75	500.0	188.7	83.2	345
2	01:32:30	1.683	1.74	501.2	190.0	83.2	346
2	01:33:30	1.700	1.74	501.2	190.0	83.2	347
2	01:34:30	1.717	1.73	501.2	190.0	83.2	348
2	01:35:30	1.733	1.72	501.2	190.0	83.2	349
2	01:36:30	1.750	1.71	501.2	190.0	83.2	350
2	01:38:30	1.783	1.70	501.2	190.0	83.4	351
2	01:39:30	1.800	1.69	500.0	188.7	83.4	352
2	01:40:30	1.817	1.69	501.2	190.0	83.4	353
2	01:41:30	1.833	1.68	501.2	190.0	83.4	354
2	01:42:30	1.850	1.68	501.2	190.0	83.4	355
2	01:43:30	1.867	1.67	501.2	190.0	83.4	356
2	01:44:30	1.883	1.66	501.2	190.0	83.4	357
2	01:46:30	1.917	1.65	501.2	190.0	83.4	358
2	01:47:30	1.933	1.65	501.2	190.0	83.4	359
2	01:48:30	1.950	1.64	501.2	190.0	83.4	360
2	01:49:30	1.967	1.64	501.2	190.0	83.4	361
2	01:50:30	1.983	1.63	501.2	190.0	83.4	362
2	01:51:30	2.000	1.62	501.2	190.0	83.4	363
2	01:52:30	2.017	1.62	501.2	190.0	83.4	364

BAKER OIL TOOLS

Note:

The reports and plots contained here-in are a true and accurate representation of the input data. However, all interpretations are opinions based on analytical techniques described in the literature and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willfull negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretations made by one of our officers, agents, or employees.

BAKER OIL TOOLS



**AZ OIL & GAS
CONSERVATION COMMISSION**

1732 East Main
P.O. Box 718
Farmington, NM 87499
Phone: (505) 325-0216
Fax: (505) 325-0218

SEP 1 1994

880

COMPANY NAME: Ridgeway Arizona Oil Corp.
WELL NAME: Plateau Cattle #1 **CONTRACTOR:** Jim Ludwig
DST NO.: 2 **K.B. ELEVATION:**
SPOT: NE SW **FORMATION:** Supai
SEC.: 15
TWP.: 12N
RNG.: 29E
FIELD: WILDCAT
COUNTY: Apache
STATE: Arizona
FLOW NO. 1: 20 **MIN.** **SHUT-IN NO. 1:** 30 **MIN.**
FLOW NO. 2: 65 **MIN.** **SHUT-IN NO. 2:** 130 **MIN.**
BOTTOM HOLE TEMP.: 81
TOP CHOKE: 1/4 **BOTTOM CHOKE:** 3/4
SIZE HOLE: 6 1/4 **CASING SIZE & WT.:** 7 23#
SIZE & WT. D.P. OR TUBING: 3 1/2 15.5#
I.D. OR D.C.: 2 1/4
LENGTH OF D.C. ABOVE TOOL: 245
TOTAL DEPTH: 2431
INTERVAL TESTED: 1410 - 1480
TYPE OF TEST: Bottom Hole Straddle
MUD WEIGHT: 9.0 **VISCOSITY:** 38
TOOL OPENED @: 13:05:00

COMPANY NAME: Ridgeway Arizona Gas Corp
WELL NAME: Plateau Cattle Co. #1
DST NO.: 2

SAMPLE DATA

SAMPLE CHAMBER:

CAPACITY OF SAMPLE CHAMBER... 2500 CC
VOLUME OF SAMPLE..... 500
PRESSURE IN SAMPLER..... 350 PSIG
WHERE SAMPLER WAS DRAINED..... Rig

SAMPLER CONTAINED: 500 cc Drilling Mud
2.15 cu ft gas

RESISTIVITY DATA:

TOP.....	: .08 @ 75	90000 ppm
MIDDLE.....	: .09 @ 65	90000 ppm
BOTTOM.....	: .09 @ 65	90000 ppm
SAMPLER.....	: .09 @ 65	90000 ppm
MUD PIT.....	: .1 @ 60	88000 ppm
MAKE-UP WATER.....	: 2.7 @ 55	2750 ppm

DID WELL FLOW: GAS Yes OIL No WATER Yes

RECOVERY IN PIPE:

200 Ft. muddy water
275 Ft. gas cut muddy water
475 Ft. Total 2.7 Bbl.

BLOW DESCRIPTION:

INITIAL FLOW; Tool opened with a strong blow increased to the bottom of the bucket in 15 sec. open through 1/4 choke in 3 min. with 30# and gas to surface, 90# in 5 min., 110# in 10 min. unloading muddy water, 130# in 15 min., 140# in 20 min.

FINAL FLOW; Tool opened with a strong blow to the bottom of the bucket immediately. Unloaded water in 3 min., flowed gas and a water mist throughout flow (see flow rates)

COMPANY NAME: Ridgeway Arizona Oil Corp
 WELL NAME: Plateau Cattle Co. #1
 DST NO.: 2

TYPE DMR NO. 4000
 CAP. 5000 LOC. 1393
 INSIDE X OUTSIDE
 HOURS 11:22:00

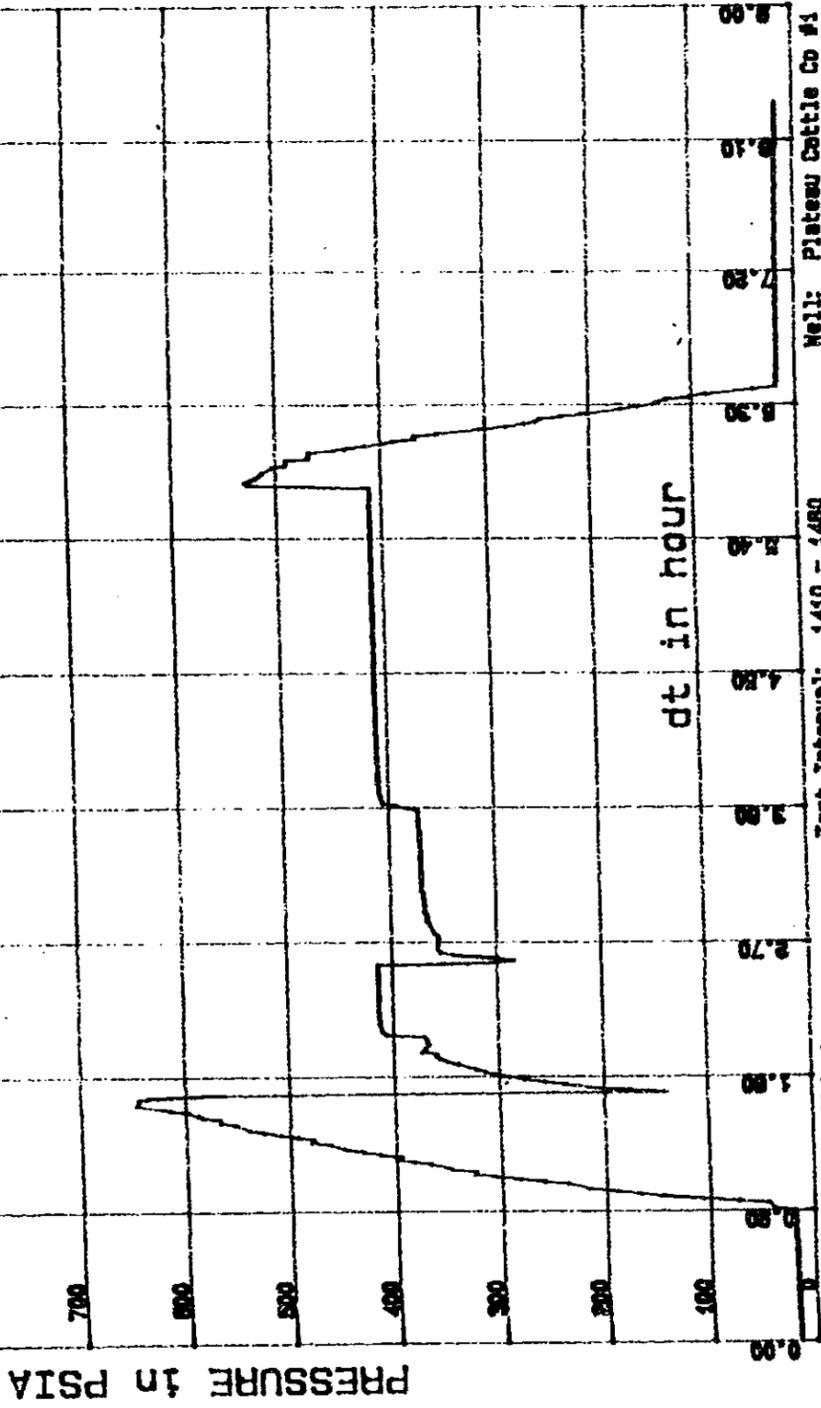
TYPE DMR NO. 4003
 CAP. 5000 LOC. 1436
 INSIDE X OUTSIDE
 HOURS 11:21:00

PRESS.
 IH..... 643
 FH..... 523
 IF-1.... 138
 FF-1.... 371
 IF-2.... 303
 FF-2.... 371
 SIP-1... 412
 SIP-2... 410

PRESS.
 IH..... 681
 FH..... 553
 IF-1.... 196
 FF-1.... 387
 IF-2.... 315
 FF-2.... 391
 SIP-1... 423
 SIP-2... 423

TIME	CHOKE SIZE	SURFACE PRESSURE	FLOW RATE MCF/D	REMARKS
NO FLAMMABLE GAS TO SURFACE				
5 min.	1/4	80 psi	140.0	
10 min.	1/4	170 psi	272.0	
15 min.	1/4	150 psi	243.0	
20 min.	1/4	150 psi	243.0	
30 min.	1/4	150 psi	243.0	
40 min.	1/4	145 psi	235.5	
50 min.	1/4	145 psi	235.5	
60 min.	1/4	140 psi	228.0	

LINEAR PLOT
Ridgeway Arizona

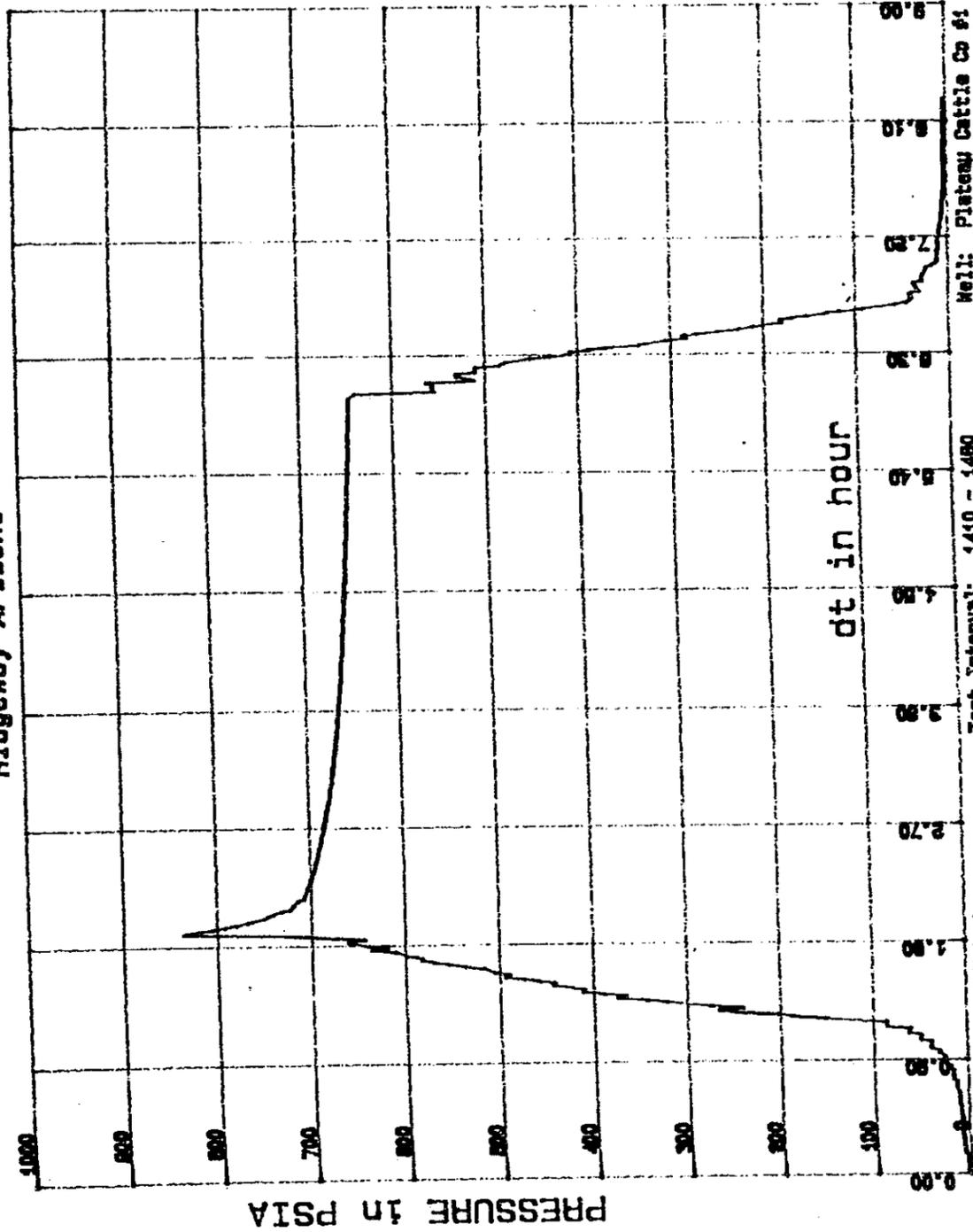


BAKER OIL TOOLS

Field: Wildcat
Start time: 8/8/94/11:23:30
Comments: DST #2
Test Interval: 1410 - 1480
Stop time: 8/8/94/12:44:30
Well: Plateau Cattle Co #1
Gauge Depth: 1389 feet

0288

LINEAR PLOT
Ridgeway Arizona



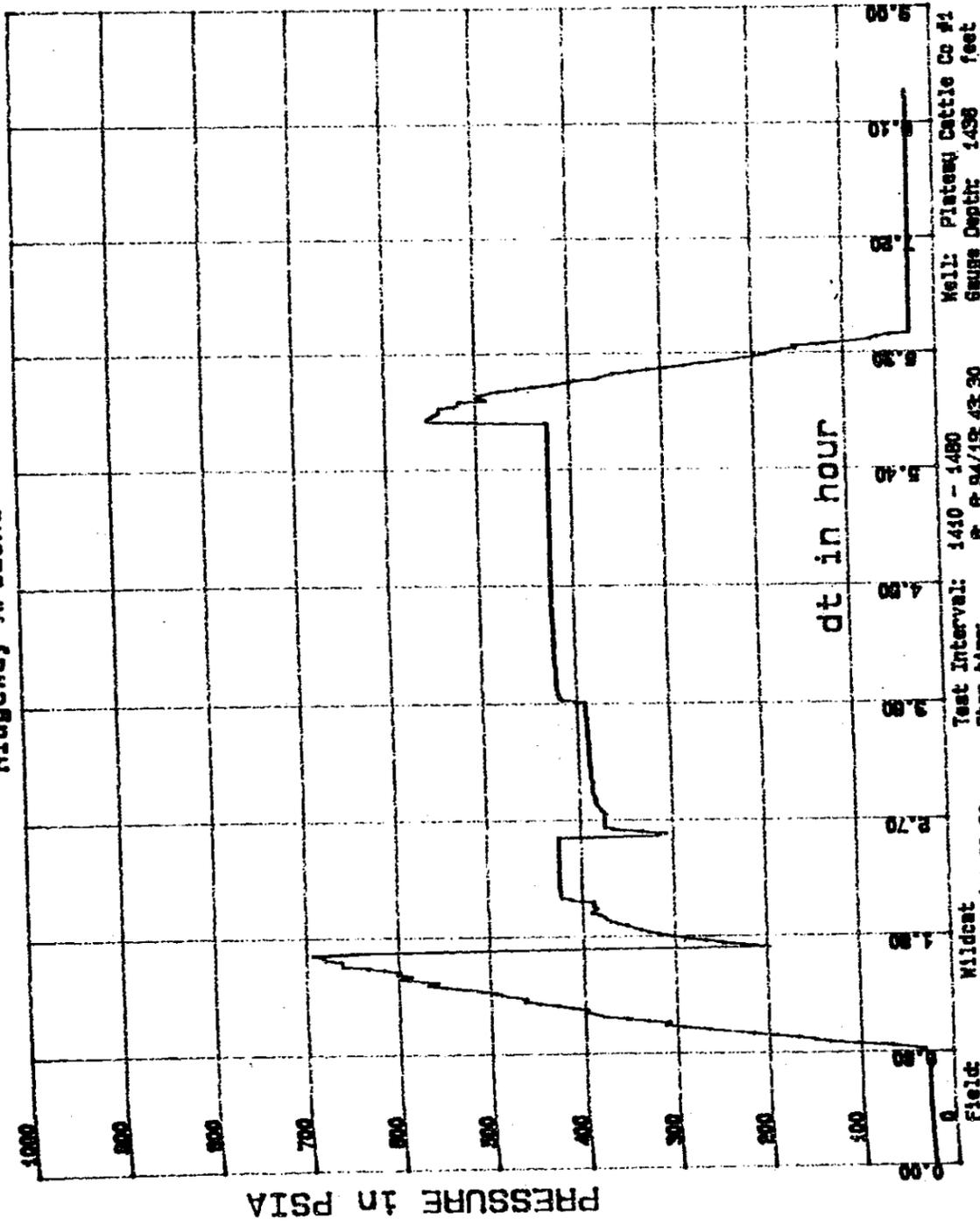
BAKER OIL TOOLS

Field: Wildcat
Start time: 8/84/14:08:30
Comments: Below Straddle DST #2
Test Interval: 1410 - 1480
Stop time: 8/84/19:24:30
Well: Plateau Cattle Co #1
Gauge Depth: 1490 feet

088

LINEAR PLOT
Ridgeway Arizona

BAKER OIL TOOLS

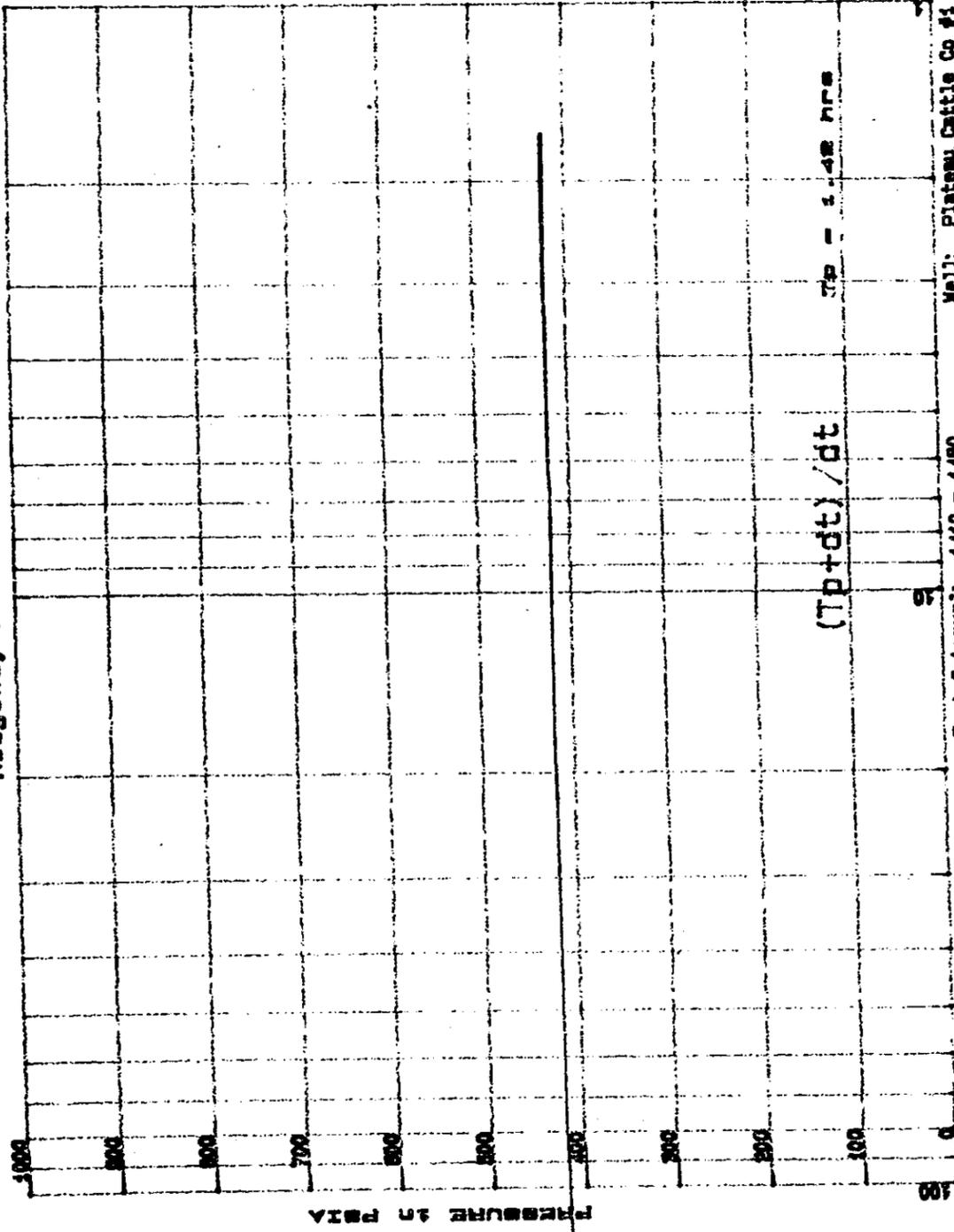


Field: Wildcat
Start time: 8/29/94/11:22:30
Comments: DST #2

Test Interval: 1410 - 1480
Stop time: 8/29/94/12:43:30

Well: Platensy Cattle Co #1
Gauge Depth: 1438 feet

HORNER PLOT
Ridgeway Arizona



BAKER OIL TOOLS

Field: Widdet
Start time: 8: 94/14: 58: 30
Comments: Final Shut-in DST #2
Test Interval: 1410 - 1480
Stop time: 8: 94/17: 07: 30
Well: Piateau Cattle Co #1
Gauge Depth: 1438 feet

085

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle Co #1
LOCATION : NE SW 15 12N 29E
PERF. INTERVAL : 1410 - 1480
ELEVATION :
GAUGE DEPTH : 1436 feet
GAUGE MODEL : 257S
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Initial Flow Data DST #2

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:
BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle Co #1
 LOCATION : NE SW 15 12N 29E

TEST INT. : 1410 - 1480
 GAUGE DEPTH : 1436 feet
 GAUGE S/N : 4003
 START DATE: 08/06/94 (MM/DD/YY)
 START TIME: 11:21:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp F	Record # in the DataFile
1	13:04:30	0.000	196.2	0.0	76.9	91
1	13:06:30	0.033	247.5	51.2	79.9	92
1	13:07:30	0.050	266.2	70.0	79.9	93
1	13:08:30	0.067	285.0	88.7	79.9	94
1	13:09:30	0.083	302.5	106.2	79.9	95
1	13:10:30	0.100	316.2	120.0	79.9	96
1	13:11:30	0.117	327.5	131.2	79.9	97
1	13:12:30	0.133	336.2	140.0	79.9	98
1	13:14:30	0.167	351.2	155.0	82.3	99
1	13:15:30	0.183	361.2	165.0	82.3	100
1	13:16:30	0.200	370.0	173.7	82.3	101
1	13:17:30	0.217	373.7	177.5	82.3	102
1	13:18:30	0.233	376.2	180.0	82.3	103
1	13:19:30	0.250	381.2	185.0	82.3	104
1	13:20:30	0.267	390.0	193.7	82.3	105
1	13:22:30	0.300	383.7	187.5	82.8	106
1	13:23:30	0.317	387.5	191.2	82.8	107
1	13:24:30	0.333	387.5	191.2	82.8	108
1	13:25:30	0.350	387.5	191.2	82.8	109

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle Co #1
LOCATION : NE SW 15 12N 29E
PERF. INTERVAL : 1410 - 1480
ELEVATION :
GAUGE DEPTH : 1436 feet
GAUGE MODEL : 2578
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Initial, Shut-in Data DST #2

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
FIELD : Wildcat
WELL : Plateau Cattle Co #1
LOCATION : NE SW 15 12N 29E

TEST INT. : 1410 - 1480
GAUGE DEPTH : 1436 feet
GAUGE S/N : 4003
START DATE: 08/06/94 (MM/DD/YY)
START TIME: 11:21:00 (HH:MM:SS)

Day	Time : HH:MM:SS	Delta : Time : Hours	Press : PSIA	dp	Temp : 'F	Record # : in the : DataFile
1	13:26:30	0.000	410.0	0.0	82.8	110
1	13:27:30	0.017	421.2	11.2	82.8	111
1	13:28:30	0.033	422.5	12.5	82.8	112
1	13:30:30	0.067	422.5	12.5	82.9	113
1	13:31:30	0.083	423.7	13.7	82.9	114
1	13:32:30	0.100	423.7	13.7	82.9	115
1	13:33:30	0.117	423.7	13.7	82.9	116
1	13:34:30	0.133	423.7	13.7	82.9	117
1	13:35:30	0.150	423.7	13.7	82.9	118
1	13:36:30	0.167	423.7	13.7	82.9	119
1	13:38:30	0.200	423.7	13.7	82.9	120
1	13:39:30	0.217	423.7	13.7	82.9	121
1	13:40:30	0.233	423.7	13.7	82.9	122
1	13:41:30	0.250	423.7	13.7	82.9	123
1	13:42:30	0.267	423.7	13.7	82.9	124
1	13:43:30	0.283	423.7	13.7	82.9	125
1	13:44:30	0.300	423.7	13.7	82.9	126
1	13:46:30	0.333	423.7	13.7	82.9	127
1	13:47:30	0.350	423.7	13.7	82.9	128
1	13:48:30	0.367	423.7	13.7	82.9	129
1	13:49:30	0.383	423.7	13.7	82.9	130
1	13:50:30	0.400	423.7	13.7	82.9	131
1	13:51:30	0.417	423.7	13.7	82.9	132
1	13:52:30	0.433	423.7	13.7	82.9	133
1	13:54:30	0.467	423.7	13.7	82.9	134
1	13:55:30	0.483	423.7	13.7	82.9	135

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle Co #1
LOCATION : NE SW 15 12N 29E
PERF. INTERVAL : 1410 - 1480
ELEVATION :
GAUGE DEPTH : 1436 feet
GAUGE MODEL : 257S
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Final Flow Data DST #2

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

WELL TEST DATA REPORT

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle Co #1
 LOCATION : NE SW 15 12N 29E

TEST INT. : 1410 - 1480
 GAUGE DEPTH : 1436 feet
 GAUGE S/N : 4003
 START DATE: 08/06/94 (MM/DD/YY)
 START TIME: 11:21:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp F	Record # in the DataFile
1	13:56:30	0.000	315.0	0.0	82.9	136
1	13:57:30	0.017	306.2	-8.8	82.9	137
1	13:58:30	0.033	332.5	17.5	82.9	138
1	13:59:30	0.050	363.7	48.7	82.9	139
1	14:00:30	0.067	373.7	58.7	82.9	140
1	14:02:30	0.100	373.7	58.7	82.6	141
1	14:03:30	0.117	373.7	58.7	82.6	142
1	14:04:30	0.133	372.5	57.5	82.6	143
1	14:05:30	0.150	373.7	58.7	82.6	144
1	14:06:30	0.167	371.2	56.3	82.6	145
1	14:07:30	0.183	375.0	60.0	82.6	146
1	14:08:30	0.200	377.5	62.5	82.6	147
1	14:10:30	0.233	381.2	66.2	82.4	148
1	14:11:30	0.250	382.5	67.5	82.4	149
1	14:12:30	0.267	383.7	68.8	82.4	150
1	14:13:30	0.283	382.5	67.5	82.4	151
1	14:14:30	0.300	383.7	68.8	82.4	152
1	14:15:30	0.317	385.0	70.0	82.4	153
1	14:16:30	0.333	386.2	71.2	82.4	154
1	14:18:30	0.367	386.2	71.2	82.4	155
1	14:19:30	0.383	386.2	71.2	82.4	156
1	14:20:30	0.400	386.2	71.2	82.4	157
1	14:21:30	0.417	386.2	71.2	82.4	158
1	14:22:30	0.433	386.2	71.2	82.4	159
1	14:23:30	0.450	387.5	72.5	82.4	160
1	14:24:30	0.467	387.5	72.5	82.4	161
1	14:26:30	0.500	387.5	72.5	82.4	162
1	14:27:30	0.517	387.5	72.5	82.4	163
1	14:28:30	0.533	387.5	72.5	82.4	164
1	14:29:30	0.550	388.7	73.7	82.4	165
1	14:30:30	0.567	387.5	72.5	82.4	166
1	14:31:30	0.583	388.7	73.7	82.4	167
1	14:32:30	0.600	388.7	73.7	82.4	168
1	14:34:30	0.633	388.7	73.7	82.4	169
1	14:35:30	0.650	388.7	73.7	82.4	170
1	14:36:30	0.667	388.7	73.7	82.4	171
1	14:37:30	0.683	388.7	73.7	82.4	172
1	14:38:30	0.700	388.7	73.7	82.4	173
1	14:39:30	0.717	388.7	73.7	82.4	174
1	14:40:30	0.733	388.7	73.7	82.4	175

WELL NAME : Plateau Cattle Co #1

Page: 2

Day	Time HH:MM:SS	Delta Time Hours	Press PSIA	dp	Temp °F	Record # in the DataFile
1	14:42:30	0.767	390.0	75.0	82.4	176
1	14:43:30	0.783	390.0	75.0	82.4	177
1	14:44:30	0.800	388.7	73.7	82.4	178
1	14:45:30	0.817	390.0	75.0	82.4	179
1	14:46:30	0.833	390.0	75.0	82.4	180
1	14:47:30	0.850	390.0	75.0	82.4	181
1	14:48:30	0.867	390.0	75.0	82.4	182
1	14:50:30	0.900	390.0	75.0	82.4	183
1	14:51:30	0.917	390.0	75.0	82.4	184
1	14:52:30	0.933	391.2	76.2	82.4	185
1	14:53:30	0.950	391.2	76.2	82.4	186
1	14:54:30	0.967	391.2	76.2	82.4	187
1	14:55:30	0.983	390.0	75.0	82.4	188
1	14:56:30	1.000	391.2	76.2	82.4	189
1	14:58:30	1.033	391.2	76.2	82.4	190

BAKER OIL TOOLS

WELL TEST REPORT

COMPANY NAME : Ridgeway Arizona
FIELD : Wildcat
WELL NAME : Plateau Cattle Co #1
LOCATION : NE SW 15 12N 29E
PERF. INTERVAL : 1410 - 1480
ELEVATION :
GAUGE DEPTH : 1436 feet
GAUGE MODEL : 257S
GAUGE S/N : 4003
TEST TYPE : Bottom Hole Straddle
COMMENTS : Final Shut-in Data DST #2

TECHNICIAN : Lee Whiting
REPORT DATE : 08/08/94

By:

BAKER OIL TOOLS
FARMINGTON NEW MEXICO

780

WELL TEST DATA REPORT
(WITH HORNER TIME)

Page: 1

COMPANY : Ridgeway Arizona
 FIELD : Wildcat
 WELL : Plateau Cattle Co #1
 LOCATION : NE SW 15 12N 29E
 TP (hours): 1.42

TEST INT. : 1410 - 1480
 GAUGE DEPTH : 1436 feet
 GAUGE S/N : 4003
 START DATE: 08/06/94 (MM/DD/YY)
 START TIME: 11:21:00 (HH:MM:SS)

Day	Time HH:MM:SS	Delta Time Hours	Horner time	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	14:59:30	0.000	1.00	415.0	0.0	82.4	191
1	15:00:30	0.017	86.20	417.5	2.5	82.4	192
1	15:01:30	0.033	43.60	418.7	3.8	82.4	193
1	15:02:30	0.050	29.40	420.0	5.0	82.4	194
1	15:03:30	0.067	22.30	420.0	5.0	82.4	195
1	15:04:30	0.083	18.04	421.2	6.3	82.4	196
1	15:06:30	0.117	13.17	421.2	6.3	82.4	197
1	15:07:30	0.133	11.65	421.2	6.3	82.4	198
1	15:08:30	0.150	10.47	421.2	6.3	82.4	199
1	15:09:30	0.167	9.52	421.2	6.3	82.4	200
1	15:10:30	0.183	8.75	421.2	6.3	82.4	201
1	15:11:30	0.200	8.10	421.2	6.3	82.4	202
1	15:12:30	0.217	7.55	421.2	6.3	82.4	203
1	15:14:30	0.250	6.68	421.2	6.3	82.4	204
1	15:15:30	0.267	6.32	422.5	7.5	82.4	205
1	15:16:30	0.283	6.01	422.5	7.5	82.4	206
1	15:17:30	0.300	5.73	422.5	7.5	82.4	207
1	15:18:30	0.317	5.48	422.5	7.5	82.4	208
1	15:19:30	0.333	5.26	422.5	7.5	82.4	209
1	15:20:30	0.350	5.06	422.5	7.5	82.4	210
1	15:22:30	0.383	4.70	422.5	7.5	82.4	211
1	15:23:30	0.400	4.55	422.5	7.5	82.4	212
1	15:24:30	0.417	4.41	422.5	7.5	82.4	213
1	15:25:30	0.433	4.28	422.5	7.5	82.4	214
1	15:26:30	0.450	4.16	422.5	7.5	82.4	215
1	15:27:30	0.467	4.04	422.5	7.5	82.4	216
1	15:28:30	0.483	3.94	422.5	7.5	82.4	217
1	15:30:30	0.517	3.75	422.5	7.5	82.4	218
1	15:31:30	0.533	3.66	422.5	7.5	82.4	219
1	15:32:30	0.550	3.58	422.5	7.5	82.4	220
1	15:33:30	0.567	3.51	422.5	7.5	82.4	221
1	15:34:30	0.583	3.43	422.5	7.5	82.4	222
1	15:35:30	0.600	3.37	423.7	8.8	82.4	223
1	15:36:30	0.617	3.30	422.5	7.5	82.4	224
1	15:38:30	0.650	3.18	423.7	8.8	82.4	225
1	15:39:30	0.667	3.13	423.7	8.8	82.4	226
1	15:40:30	0.683	3.08	422.5	7.5	82.4	227
1	15:41:30	0.700	3.03	423.7	8.8	82.4	228
1	15:42:30	0.717	2.98	423.7	8.8	82.4	229
1	15:43:30	0.733	2.94	423.7	8.8	82.4	230

WELL NAME : Plateau Cattle Co #1

Page: 2

Day	Time HH:MM:SS	Delta Time Hours	Horner time 	Press PSIA	dp	Temp 'F	Record # in the DataFile
1	15:44:30	0.750	2.89	423.7	8.8	82.4	231
1	15:46:30	0.783	2.81	423.7	8.8	82.4	232
1	15:47:30	0.800	2.77	423.7	8.8	82.4	233
1	15:48:30	0.817	2.74	423.7	8.8	82.4	234
1	15:49:30	0.833	2.70	423.7	8.8	82.4	235
1	15:50:30	0.850	2.67	423.7	8.8	82.4	236
1	15:51:30	0.867	2.64	423.7	8.8	82.4	237
1	15:52:30	0.883	2.61	422.5	7.5	82.4	238
1	15:54:30	0.917	2.55	423.7	8.8	82.3	239
1	15:55:30	0.933	2.52	423.7	8.8	82.3	240
1	15:56:30	0.950	2.49	423.7	8.8	82.3	241
1	15:57:30	0.967	2.47	423.7	8.8	82.3	242
1	15:58:30	0.983	2.44	423.7	8.8	82.3	243
1	15:59:30	1.000	2.42	423.7	8.8	82.3	244
1	16:00:30	1.017	2.40	423.7	8.8	82.3	245
1	16:02:30	1.050	2.35	423.7	8.8	82.3	246
1	16:03:30	1.067	2.33	423.7	8.8	82.3	247
1	16:04:30	1.083	2.31	423.7	8.8	82.3	248
1	16:05:30	1.100	2.29	423.7	8.8	82.3	249
1	16:06:30	1.117	2.27	423.7	8.8	82.3	250
1	16:07:30	1.133	2.25	423.7	8.8	82.3	251
1	16:08:30	1.150	2.23	423.7	8.8	82.3	252
1	16:10:30	1.183	2.20	423.7	8.8	82.3	253
1	16:11:30	1.200	2.18	423.7	8.8	82.3	254
1	16:12:30	1.217	2.17	423.7	8.8	82.3	255
1	16:13:30	1.233	2.15	423.7	8.8	82.3	256
1	16:14:30	1.250	2.14	423.7	8.8	82.3	257
1	16:15:30	1.267	2.12	423.7	8.8	82.3	258
1	16:16:30	1.283	2.11	423.7	8.8	82.3	259
1	16:18:30	1.317	2.08	423.7	8.8	82.3	260
1	16:19:30	1.333	2.06	423.7	8.8	82.3	261
1	16:20:30	1.350	2.05	423.7	8.8	82.3	262
1	16:21:30	1.367	2.04	423.7	8.8	82.3	263
1	16:22:30	1.383	2.03	423.7	8.8	82.3	264
1	16:23:30	1.400	2.01	423.7	8.8	82.3	265
1	16:24:30	1.417	2.00	423.7	8.8	82.3	266
1	16:26:30	1.450	1.98	423.7	8.8	82.2	267
1	16:27:30	1.467	1.97	423.7	8.8	82.2	268
1	16:28:30	1.483	1.96	423.7	8.8	82.2	269
1	16:29:30	1.500	1.95	423.7	8.8	82.2	270
1	16:30:30	1.517	1.94	423.7	8.8	82.2	271
1	16:31:30	1.533	1.93	423.7	8.8	82.2	272
1	16:32:30	1.550	1.92	423.7	8.8	82.2	273
1	16:34:30	1.583	1.90	423.7	8.8	82.2	274
1	16:35:30	1.600	1.89	423.7	8.8	82.2	275

BAKER OIL TOOLS

WELL NAME : Plateau Cattle Co #1

Page: 3

Day	Time HH:MM:SS	Delta Time Hours	Horner time	Press PSIA	dp	Temp F	Record # in the DataFile
1	16:36:30	1.617	1.88	423.7	8.8	82.2	276
1	16:37:30	1.633	1.87	423.7	8.8	82.2	277
1	16:38:30	1.650	1.86	423.7	8.8	82.2	278
1	16:39:30	1.667	1.85	423.7	8.8	82.2	279
1	16:40:30	1.683	1.84	423.7	8.8	82.2	280
1	16:42:30	1.717	1.83	423.7	8.8	82.2	281
1	16:43:30	1.733	1.82	423.7	8.8	82.2	282
1	16:44:30	1.750	1.81	423.7	8.8	82.2	283
1	16:45:30	1.767	1.80	423.7	8.8	82.2	284
1	16:46:30	1.783	1.80	423.7	8.8	82.2	285
1	16:47:30	1.800	1.79	423.7	8.8	82.2	286
1	16:48:30	1.817	1.78	423.7	8.8	82.2	287
1	16:50:30	1.850	1.77	423.7	8.8	82.2	288
1	16:51:30	1.867	1.76	423.7	8.8	82.2	289
1	16:52:30	1.883	1.75	423.7	8.8	82.2	290
1	16:53:30	1.900	1.75	423.7	8.8	82.2	291
1	16:54:30	1.917	1.74	423.7	8.8	82.2	292
1	16:55:30	1.933	1.73	423.7	8.8	82.2	293
1	16:56:30	1.950	1.73	423.7	8.8	82.2	294
1	16:58:30	1.983	1.72	423.7	8.8	82.2	295
1	16:59:30	2.000	1.71	423.7	8.8	82.2	296
1	17:00:30	2.017	1.70	423.7	8.8	82.2	297
1	17:01:30	2.033	1.70	423.7	8.8	82.2	298
1	17:02:30	2.050	1.69	423.7	8.8	82.2	299
1	17:03:30	2.067	1.69	423.7	8.8	82.2	300
1	17:04:30	2.083	1.68	423.7	8.8	82.2	301
1	17:06:30	2.117	1.67	423.7	8.8	82.2	302
1	17:07:30	2.133	1.67	423.7	8.8	82.2	303

BAKER OIL TOOLS

Note:

The reports and plots contained here-in are a true and accurate representation of the input data. However, all interpretations are opinions based on analytical techniques described in the literature and we cannot, and do not, guarantee the accuracy or correctness of any interpretations, and we shall not, except in the case of gross or willfull negligence on our part, be liable or responsible for any loss, cost, damages or expenses incurred or sustained by anyone resulting from any interpretations made by one of our officers, agents, or employees.

BAKER OIL TOOLS

Geological Report
on
Ridgeway Arizona Oil Corporation
Ridgeway/Canstar Plateau Cattle Comapny #1
NESW Section 15, T12N-R29E
Apache County, Arizona

*Permit
880*

by
Alan P. Emmendorfer
Consulting Geologist

WELL SUMMARY

OPERATOR: Ridgeway Arizona Oil Corporation
WELL: Ridgeway/Canstar Plateau Cattle Comapny #1
LOCATION: Section 15, T12N-R29E
FOOTAGE: 3023' FNL & 3564' FEL
COUNTY: Apache
STATE: Arizona
ELEVATION: 6372' GR 6377' KB
SPUD DATE: July 23, 1994
TOTAL DEPTH: 2431'
T.D. DATE: August 4, 1994
CONTRACTOR: L & B Speed Drill
RIG #: 2 (Blue)
WELL SITE GEOLOGIST: Alan P. Emmendorfer
MUD LOGGING: Jimmie A. Bales, Mountain States Well Logging Co.
HOLE SIZE: 12 1/4" to 150', 8 3/4" to 727', 6 1/4" to 2431'
CASING SIZE: 9 5/8" @ 150', 7" @ 722", 4 1/2" @ 1794'
DST DEPIHS: #1 @ 1680'-1720'; #2 @ 1410'-1479'
CORE INTERVALS: None
DRILLING FLUIDS: Water Based Gel 150'-727', Salt Mud 727'-TD
ELECTRIC LOGS: Rnu #1 DI & CN-FDL 150'-724'; Rnu #2 DIL & CN-FDL 2421'-728'
BOTTOM FORMATION: Granite, PreCambrian
WELL STATUS: Ran Casing, Waiting on Completion Testing

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

FORMATION TOPS

FORMATION	DRILL DEPTH/SAMPLE	E-LOGS	SUBSEA
Chinle	0'	0'	+6377
Moenkopi	168'	198'	+6179
San Andres	208'	213'	+6164
Glorieta	481'	480'	+5897
Supai	680'	660'	+5730
Ft. Apache	1396'	1366'	+5011
Granite Wash	2140'	2138'	+4239
Granite	2360'	2365'	+4012

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

WELL CHRONOLOGY

DATE	DEPTH	24 HR FOOTAGE	OPERATION
7/23/94			MIRT, RU, SDFN
7/24/94	150'	0'	Spud w/ Bit #1, 12 1/4" Smith DT, drlg, TD 150', TOH, SDFN.
7/25/94	335'	185'	Ran 4 jts 9 5/8" 36# surf csg to 150', cemented w/ 120 sks, SD WOC, Nipple up BOP and Pressre tested, SDFN.
7/26/94	461'	126'	TIH w/ Bit #2, Retip Varel V-2, drlg cement 120'-150', mixed mud, drlg, SDFN.
7/27/94	727'	266'	Drlg, repair stand pipe, drlg, TD @ 727', ran survey, 1 deg, TOH for logs, logged w/ Halliburton DI & CN-FDL, SDFN.
7/28/94	727'	0'	Ran 17 jts of 7" 23# J55 csg to 727', cemented w/ 85 sks, WOC, SDFN.
7/29/94	840'	113'	TIH w/ Bit #3 6 1/4" milltooth Smith DTG Retip, drlg cement, drlg & mixing salt mud, drilled to 1st evaporite sequence amd SDFN waiting on salt.
7/30/94	1180'	340'	Mixed salt mud, drlg, 1st circ, generator failed, SDFN.
7/31/94	1290'	110'	WO generator, drlg 24hrs operation.
8/1/94	1738'	448'	Drlg, trip for Bit #4, 6 1/4 milltooth Smith DTG Retip, drlg, TOH, SDFN.
8/2/94	2070'	332'	TIH w/ Bit #5, 6 1/4 Hughs J33, rerun, drlg, enlarged pit and mixed mud.

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

WELL CHRONOLOGY

DATE	DEPTH	24 HR FOOTAGE	OPERATION
8/3/94	2361'	291'	Drig, Trip for Bit #6, 6 1/4 Reed HP53 new, survey 1 3/4deg @ 2284, drig, twisted off, TOH left fish in hole, SDFN.
8/4/94	2431'	70'	TOH w/ fish, TIH, drig to TD @ 2431', circ, TOH, WO loggers, SDFN.
8/5/94	2431'	0'	Log w/ Hallibuton DIL & CN- FDL, WO Testers, Run DST #1, TOH w/ 1 jt, SDFN.
8/6/94	2431'	0'	TOH w/ DST #1 tools, TIH for DST #2, TOH w/ tools, SDFN.
8/7/94	2431'	0'	Laid down drill pipe, ran 40 jts 4 1/2" 10.5#, J%% casing set @ 1794', cemented w/ 110 sks, released rig.

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Company #1

SAMPLE DESCRIPTION

SURFACE

0-150

150-180	SH	rd, gn sft
180-210	SS PYR	clr, c, sft to m hd., sbang, p sorted, pyric blk to cubed
210-220	SS CHT LMS	clr to fros, ang to sbang, sft to hd blk tan, sft, mic xln
220-230	LMS	crm, mic xln, sft tan, dns, sft
230-240	LMS	aa
240-250	LMS CHT	tan to lt brn, m hd to hd, pyric in prt, bcm dol wh to clr
250-260	LMS CHT	lt brn, sli dol, hd, fraced, dns, mnrl flor on frac surf wh
260-270	DOL LMS	brn, suc, mold por, m hd to hd, sli mnrl flor, no stn or cut aa
270-280	LMS PYR	tan to lt brn, mic xln, m hd, sli dol in prt cubed
280-290	LMS	aa, tan, sft to m hd
290-300	LMS CHT	aa blk
300-310	LMS	crm to lt brn, mic xln, m hd, pyr
310-320	LMS	tan to lt brn, mic xln to xln, sli dol, m hd to hd, sli minl flour tr pyr
320-330	LMS CHT	AA blk
330-340	LMS	lt to m brn, trnsf in prt, sli dol, dns, tr pyr

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

340-350	LMS	tan to lt brn, hd, fraced, mic xln to xln to xln at frac sfc tr pyr
350-360	LMS	crm to tan, sft to m hd, mic xln
360-370	LMS SH	crm to tan, m hd to hd, xln tite rd, cty, sft
370-380	LMS	aa
380-390	LMS	tan to lt brn, m hd, mic xln, trasl in prt, sli dol
390-400	LMS	aa
400-410	LMS	tan to lt brn, dol, xln, fraced, euhed cal xls on frac sfc
410-420	LMS	aa, lt brn to brn, fraced
420-430	LMS CHT	lt brn to brn, xln, fraced dol, trnl in prt blk
430-440	LMS LMS	aa, bcm c xln chky, wh, m hd
440-450	DOL	lt brn, suc, vug, v por, m hd, no stn
450-cir	DOL	aa, bcm less por, cal frac fl
455-cir	LMS	brn, hd, dol, tite, no stn, blkly wh cal frac fl
460-cir	DOL	lt brn to brn, gran, sli to mod por, m hd
460-470	DOL	lt brn to brn, gran to suc, sli to mod por, rr vug por, m hd, no stn of cut, blkly calc frac fl, clr
470-480	DOL	lt brn to brn, gran to suc, sli to mod por, rr vug por, m hd, no stn of cut, blkly calc frac fl, clr
480-490	SS SH	wh, fros to clr, ang to sub ang, v lt calc cmt, fri, f to m gr, tr pyr, no stn or cut, blk, sli calc, hd, plty, clr calc viens (480'-481')
490-500	SS	wh, f gr, w srt, fros to clr, ang to sub ang, sli calc cmt, occ amb qtz gr
500-510	SS	aa, f gr

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

510-520	SS	wh, f gn, w srt, ang to sub ang, fri to m hd, calc cmt, tr pyr, occ amb qtz gr
520-530	SS	aa, bcm wh cly fl, rr amb qtz gr
530-540	SS CLY	wh, f gn, inc wh cly fl, wh, fria to m hd, ang to sub ang, pyr tr, red-brn, sft, sli calc
540-550	SS CLY	wh, f gn, w srt, abnt wh cly fl, fri to m hd, ang to sub ang, pyr tr, red-brn, sft, sli calc
550-560	SS	wh, fros, f gn, w srt, ang to sub ang, wh cly fl, calc cmt, pyr
	SH	dk red-brn, sft v sli calc
560-570	SS	aa
	SH	dk red-brn, sft v sli calc
570-580	SS	wh, fros, f gn, w srt, ang to sub ang, calc, friable, pyr, wh cly f in prt
580-590	SS CLY	wh, to lt tan, f gn, w srt, ang to sub ang, calc, pyr, wh cly f maroon, sft, v sli calc
590-600	SS CLY	aa gy., sft, v sli calc
600-610	SS	crm, f gn, w srt, ang to sub ang, friable, wh cly fl, calc
610-620	SS CLY	aa, bf, pyr red-brn, sft, v sli calc
620-630	SS CLY	bf, f gn, w srt, ang sub-ang, wh cly fl, fri to m hd red-brn, sft
630-640	SS	aa, crm
640-650	SS CLY	bf, f gn, w srt, ang to sub-ang, fri, calc, w cly fl red-brn to gy, sft
650-660	SS	aa, crm
660-670	SS CLY	lt brn, f to v f gn, p srt, calc, occ orng qtz gn, wh cly fl gy, sft
670-680	SS	lt brn, f to md gn, calc, p srt, ang to sub ang, fri to m hd, occ clr calc frac fl
680-690	SS	lt brn to orng, sft to m hd, calc, f to m gn, p srt, sli ark, ang to sub ang, cly fl, wh calc frac fl

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

690-700	SS	lt orng, m hd to hd, sli ark, ply srt, f to md, gn, sub ang to sub rnd
700-710	SS CLY	orng, fri to m hd, sli ark, p srt, f to c gn, calc trace red-brn, sft
710-720	SS	aa
720-730	SS	orng, f to c gn, p srt, fri to m hd, sli ark, calc
730-50	ANHY SLTST SH SS	wh to clr, fib orng, calc, m hd to hd red-brn, sft to m hd, cly wh, f gn, w srt, calc, sub ang to sub rnd
750-780	ANHY SLTST SH	wh to clr, mas aa gy, sft, v sli calc, cly
810-840	ANHY	gy, mas
840-860	ANHY SH	gy, mas, dns red, sft
860-870	ANHY SLTST SH	gy, mas, dns orng, calc, sft red-brn, sft, cly
870-880	ANHY DOL SH	gy to clr, mas, sft to dns gy, hd, gran, tite, no flor or cut red-brn, calc, sft, cly
880-890	ANHY DOL SH	gy, mas, sft to dns tr, aa red-brn, sft, calc, cly
890-900	ANHY CLY SLTST	wh to gy, mas, sft to dns red-brn, sft orng, hd, anhy, sndy
900-910	ANHY SH	gy, m hd, mas red-brn, sndy, sft, v sli calc
910-920	ANHY SH	gy, mas, m hd red-brn, cly, sft, sndy, v sli calc

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

920-930	ANHY DOL SH	gy, mas, dns gy, hd, gran, tite, no flor or cut red-brn, sft, cly, v sli calc
930-940	ANHY SS SH	wh to gy, mas, sft to hd clr to wh, f gn, sug ang to sub rnd, fria tr, aa
940-960	SS ANHY	clr to wh, v f gn, pred cln, occ orng qtz gn, calc, no stn, flor, or cut tr, wh, sft, sndy
960-970	SLTST ANHY SH SH	pale orng, sndy, calc, m hd wh to gy, sft, to hd, mas red-brn, calc, sft, cly in prt gy, sft, v sli calc
970-980	ANHY DOL	wh to gy, mas, sft gy to dk gy, hd, gran, sndy in prt, anhy, tite, no stn, flor, or cut
980-990	ANHY SH DOL	clr to gy, hd, bdd tr, red-brn, sft gy to brn, m hd to hd, gran, sndy, anhy, tite, no stn, flor, or cut
990-1000	ANHY DOL SLTST SH	wh to gy, mas, sft aa orng, sndy, m hd, calc red-brn, sft, v sli calc
1000-1010	ANHY DOL SLTST SH	wh, sft, sndy gy to brn, m hd, sndy, anhy, tite pale orng to orng, sft to hd, calc red-brn, sft, v sli calc
1010-1020	SLTST SH ANHY DOL	red-orng, sft, calc, cly red-brn, sft, sli calc, cly gy to wh, sft, sndy gy to brn, sndy, anhy, m hd to hd
1020-1030	ANHY SLTST SH	wh to by, mas, m hd to dns wh, v sli calc, m hd red-brn, sft, cly
1030-1040	SS	orng, v f gn, sub ang to sub rnd, fria, v sli calc, no stn, flor, or cut
1040-1050	SS ANHY SH	orng, v f gn, grdg to sltst, cly, sli calc gy, sft to m hd, mas red-brn, calc, sft, cly

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

1050-1060	ANHY	wh to gy, sft to hd, mas
1060-1070	DOL ANHY SH	gy to dk gy, m hd to hd, anhy, tite, no flor, stn, or cut wh, sft, mas, occ clr, plty tr red-brn, sft, cly, sli calc
1070-1080	DOL ANHY	gy to dk gy, shly, calc, anhy, m hd to hd, gran, tite wh to gy, sft, mas
1080-1090	ANHY SH DOL	wh to gy, bdd to mas, sft to hd tr, gy, sft, calc tr, aa
1090-1100	ANHY SH	tan to gy, mas, dns red-brn, sft, cly, calc
1100-1110	ANHY SH	aa aa, slty in prt
1110-1120	SH	red-brn, sft, cly, calc
1120-1130	SH ANHY	aa clr, mas, dns
1130-1140	SH ANHY	red-brn, sft, cly, calc tr aa
1140-1150	SH	aa
1150-1160	SH DOL ANHY	red-brn, sft, cly, calc tr, tan, hd, gran, tite tr, clr, mas, dns
1160-1170	DOL ANHY SLTST	gy, hd, gran, sndy in prt, tite, no flor, stn, or cut clr, bladed, sft tr, orng, v sli calc, hd
1170-1180	no sample	
1180-1210	SH	red-brn to gy, sft, cly, v sli calc to sli calc
1210-1240	SH SLTST ANHY	aa orng, calc, hd gy, mas
1240-1270	SLTST ANHY	orng, sft to fria, calc, cly in prt tr, wh to clr, bladed

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

1270-1300	DOL SH ANHY	tan to dk gy, sft to hd, gran to sndy, tite, no flor, stn, or cut tr, red-brn, sft, cly, calc tr, clr, sft, bladed
1300-1330	DOL SH ANHY PYR	tan brn to dk gy, sft to hd, anhy, tite, no flor, stn, or cut tr, aa gr, hd, mas tr, blk
1330-1360	SH ANHY	red-brn, sft, cly, sli calc gy, m hd, mas to bladed
1360-1390	DOL SH ANHY	gy, m hd to hd, gran, tite, no flor, stn, or cut tr, aa clr to gy, bladed to mas, sft to dns
1390-1420	DOL ANHY SH	gy to dk gy, gran to sndy, frac, m hd to hd, tite, no vis por, dull gold flor, no stn, sli resd ring cut tr, clr, sft, bladed tr, red-brn, sft, calc
1420-1450	DOL SH	dk gr, suc in prt, intxl por, m hd, no flor, stn, or cut, sli CO2 gas reading gy, sft, calc
1450-1480	DOL SH ANHY	gy, sft to m hd, sndy, tite, dull yel gold flor, no stn, or cut red-brn, sft, v sli calc, cly clr, sft, bladed
1480-1510	SH DOL ANHY	red-brn, sft, sli calc, cly tan, sndy, to gran, sft, no flor, stn, or cut clr, sft, bladed
1510-1540	SH ANHY	red-brn, sft, calc, cly gy, sft, mas
1540-1570	SH SLTST ANHY	red-brn, sft, calc, cly tr, red-org, hd tr, gy, sft to hd, mas
1570-1600	DOL SLTST ANHY	tan to dk gy, sft to md hd, tite w rr pp por, no flor, stn, or cut org, sft, calc clr, sft, bladed
1600-1630	SH ANHY	red-brn, sft, cly, sli calc clr, fib, sft

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

1630-1660	SH	red-brn, sft, cly, calc
1660-1690	DOL SLTST SH	dk gy, xln, hd, tite, no flor, stn, or cut red-org, sli calc, m hd to hd tr, aa
1690-1720	DOL SLTST SH ANHY	md gy trn to dk brn, mic xln to gran, hd, tite, rr vug por, anhy in prt, frac /com clac on frac surf, dull yel fnt resd ring cut aft heating aa aa clr to gy, mas, dns
1720-1750	SS DOL SLTST SH	wh, v fn gn, calc, hd, wh cly fl tr, aa red-brn, m hd, calc, bcm sndy in prt red-brn, sft, cly, calc
1750-1780	SLTST SH	red-org to red-brn, cly, v sli calc, sft to m hd dk red-brn, sft, cly, sli calc
1780-1810	SH SLTST	dk red-brn, sft, cly, calc tr, aa
1810-1840	SH SLTST ANHY	dk red-brn, sft, cly, calc tr, aa tr, wh to gy, mas, dns
1840-1870	SH SLTST	red-brn, sft, cly, sli calc tr, red-org to red-brn, cly, v sli calc, sft to m hd
1870-1900	SLTST SH ANHY	red-org to red-brn, m hd to hd, sli calc red-brn, sft, cly, v sli calc tr, gy, mas, dns
1900-1930	SLTST ANHY	dk red-brn, sft to m hd, ark, sndy in prt, sli por tr, gy, mas, dns
1930-1960	SLTST DOL SH ANHY	org to red-org, m hd, sli calc gy brn, hd, gran, tite, no flor, stn, or cut tr, red-brn, sft, cly tr, wh to gy, mas, sndy in prt, sft to m hd
1960-1990	SLTST ANHY	dk red-org to dk red-brn, m hd, v sli calc tr, gy, mas, dns

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

1990-2020	SH SLTST ANHY	orng, sft, cly, v sli calc red-brn, sft, sli calc clr, mas, dns
2020-2050	SS	orng, f to m gm, fria, calc, sub ang to sub rnd
2050-2080	SH SS	red-brn, sft, cly, sli calc aa
2080-2110	SLTST ANHY SH	red-orng, sft, sli calc, bcm sndy in prt tr, gy, mas, dns aa
2110-2140	SS ANHY	red-orng, clr to fros, f to m gm, sub ang to sub rnd, ark, fria tr, aa
2140-2170	SS SH	wh to pale orng, f gn to c gn, tr pbl, clr to fros, ang to sub ang, v sli calc, fria, biotite tr, red-brn, sft, cly
2170-2200	SS	orng, c gn, clr to fros, sub and to sub rnd, clac, fria
2200-2230	SS ANHY	orng, m to c gn, ang to sub ang, clr to fros, sli calc, biotite, sli ark wh, sft, thn bdd
2230-2260	SS ANHY	orng, m to c gn, and to sub ang, clr to fros, biotite, sli ark tr, aa
2260-2270	SS ANHY	red-orng, m to c gn, ang to sub ang, clr to fros, ark, v sli calc, biotite tr, aa
2270-2280	SS ANHY	red-orng, m to c gn, sli calc, ang to sub ang, clr to fros, bcm ark, abnt biotite tr, aa
2280-2290	SS ANHY	pale orng, f to c gn, calc, ang to sub ang, biotite, sli ark, hd tr, wh, sft
2290-2300	SS ANHY	red-orng, c gn, v sli calc, ang to sub ang, hd, ark, biotite tr, wh, sft
2300-2310	SS	red-orng, c gn, ang, ark, sli calc, hd, biotite
2310-2320	SS	orng, m to c gn, ark, hd, biotite
2320-2330	SS	orng, m to c gn, ark, hd, ang to sub ang, biotite

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

SAMPLE DESCRIPTION

2330-2340	SS	orng, f to c gn, ark, hd, ang to sub ang, biotite
2340-2350	SS	aa, bcm c gn
2350-2360	SS	orng, f to c gn, ark, hd, ang to sub ang, biotite
2360-2370	GRANITE	orng-red, mas, qtz, feld, biotite
2370-2380	GRANITE	aa
2380-2390	GRANITE	red, mas, qtz, feld, biotite
2390-2400	GRANITE	aa
2400-2410	GRANITE	aa
2410-2420	GRANITE	orng-red, mas, qtz, feld, biotite
2420-2430	GRANITE	aa

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Comapny #1

DST RESULTS

DST #1 was run on August 5, 1994 and tested 1680'-1720'. Gas to surface in 5 minutes, inflammable, with a vigorous blow, flowing pressure increasing from 80 to 130# on a 1/4" choke. IFP 110# 15 min, ISP 485# 30 min, FFP 95# 60 min, FSP 485# 120 min. Recovered 175' of muddy, gassy salt water.

DST #2 was run on August 6, 1994 and tested 1410-1479. Opened with strong flow, inflammable gas and water, with a vigorous flow increasing from 135 to 150# on a 1/4" choke. IFP 138# 20 min, ISP 412# 30 min, FFP 371# 60 min, FSP 410# 120 min. Recovered 475' of gas cut muddy drilling fluid.

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Company #1

GEOLOGIC SUMMARY

Ridgeway Arizona Oil Corporation drilled the Ridgeway/Canstar Plateau Cattle Company #1 in Apache County, Arizona from a surface elevation of 6377' (KB) to a total depth of 2431' in Precambrian granite. Two logging runs were made, at intermediate casing and at total depth. Two DST's were run based on gas shows recorded by the mud logging equipment and neutron - density log cross-over. Casing was run to a depth of 1794' based on the positive results of the DST's.

The well was spudded in the Chinle and surface casing was set to 150'. No samples were caught through this interval. Below surface casing, the Chinle was encountered at a depth of 197' (E-log) and consisted of red and green shales. The Moenkopi 198'-212' (E-log) displays good neutron-density log cross-over and has up to 26% porosity. There was no sample or gas shows through the interval nor was there a distinct drilling break through the interval. Samples indicate a relatively clean sandstone. This zone may contain helium, but in low pressures, which would explain the lack of gas shows when drilling through the sandstone. Because the Moenkopi is bounded by erosional contacts on both the top and bottom, it is probable that this interval will not be present everywhere on the St. John Anticline.

A distinct drilling break occurred at the top of the San Andres Formation. This interval, consisting of limestones, dolomitic limestones and dolomite, did not exhibit any shows of oil or gas. Except for the dolomite at the base of the formation, most of the limestones were dense, having little porosity development in the samples or on the log. The drilling characteristics of this zone indicated fracturing throughout most of the interval, but sample evidence of the fracturing was sparse. The basal dolomite contained excellent sucrosic dolomite porosity and was associated with a good drilling break, however, no gas shows were detected, nor were oil fluorescence, stain, or cut noted on the samples.

The Glorieta Sandstone was marked by a distinct change in lithology. This sandstone was described as a medium grained friable sand. Individual grains graded from clear to frosted and were lightly cemented with a calcareous cement. Excellent porosity was recorded on the logs, but no gas or sample shows were noted while drilling.

The top of the Supai was picked from drill cuttings when a color change from clear to buff to light orange was noted. The top of this interval is noted on wireline logs at 660' (E-logs) where the gamma ray begins to detect the generally shalier nature of the formation. Below intermediate casing, the Supai consists of interbedded siltstones, shales, dolomites, anhydrites, and potash. No actual samples of potash was observed because the upper portion of the 6 1/4" hole was drilled with undersaturated salt mud. With depth, increasing thin dolomites are interbedded with thin anhydrites and shales. Three fine grain, friable sandstones were encountered at 933'-944', 1017'-1032', and 1067'-1084'. No shows were associated with any of these sandstones.

The Ft. Apache interval was encountered at a depth of 1366' (E-log). This interval consisted of dolomites, shales, and siltstones. The dolomites were only slightly sucrosic and matrix porosity was slight. Dolomites at a depth of 1454'-1480' were logged with high porosity values averaging 31%. Samples indicated a micro sucrosic matrix with vugular porosity. Log cross-over was noted in this zone and corresponds to minor CO₂ gas shows. No samples shows were noticed. DST #2 over this interval exhibited good productive characteristics. Analysis of the recovered gas calculated over 90% CO₂. Induction readings are very low through this interval and are probably the result of the inhibition of large amounts of salt mud. An additional dolomite at a log depth of 1510'-1523' also recorded a CO₂ gas show but cross-over was not developed and the interval was not tested.

Ridgeway Arizona Oil Corporation

Ridgeway/Canstar Plateau Cattle Company #1

GEOLOGIC SUMMARY

The only hydrocarbon sample show was recorded at 1702'-1709' (E-log) in a fractured dolomite. The show consisted of a faint residual ring cut after heating. CO₂ was noted in the gas. Cross-over was recorded in a two foot zone. DST #1 at this interval also recorded good flow rates. The gas analysis recorded 94% CO₂.

From a depth of 1730' to 2140' the Supai consisted of predominately red-orange shales and siltstones. Minor gas shows were noted between 2050'-2120'. No sample shows were noted.

Granite Wash was encountered at 2140' and was marked by red-orange sandstones. With depth these sandstones became increasingly arkosic and biotite became a common component of the samples. These sands were very angular to sub-angular. Minor gas shows were recorded while drilling. The exact age of the granite wash could not be determined but probably ranges from late Pennsylvanian to Permian.

Granite was encountered at a depth of 2360' when the drill string twisted off. The color of the granite ranged from orange-red to red and was composed of quartz, feldspar, and biotite. The top of the granite was picked from samples when interlocking crystals of the three minerals were noted. This was in contrast to these same minerals comprising individual grains within the cuttings of the granite wash.

The well failed to find the Pennsylvanian Naco Formation at this location. If this zone is present on the St. John anticline it would be located far down on the flank.

As noted above, potential within the well consists of possible helium in the Moenkopi and significant CO₂ reserves in the Supai in dolomites of the Ft. Apache and lower Supai.

Sincerely,

Alan P. Emmendorfer

Alan P. Emmendorfer



1115 Farrington Avenue
 Farming, N.M. 87401
 (505) 325-6622

Analysis No. RAG40001
 Cust. No. 69020-10000

WELL/LEASE INFORMATION

Company	: RIDGEWAY ARIZ. GAS CORP	Source	: DST #1
Well Name	: PLATEAU CATTLE CO. #1	Pressure	: 95 PSIG
County	: APACHE	Sample Temp.	: 70 DEG.F
State	: AZ	Well Flowing	: YES
Location	: NE SW 15-12N-29E	Date Sampled	: 08/05/94
Fld/Formation	: SUPAI	Sampled By	: BAKER OIL TOOLS
Cust.Stn.No.	:	Foreman/Engr	:

Remarks: 15 MINUTES INTO SECOND FLOW DST #1
 1700'
 UNNORMALIZED TOTAL = 96.2%

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	5.856	0.0000	0.00	0.0566
CO2	94.006	0.0000	0.00	1.4285
METHANE	0.129	0.0000	1.31	0.0007
ETHANE	0.000	0.0000	0.00	0.0000
PROPANE	0.000	0.0000	0.00	0.0000
I-BUTANE	0.000	0.0000	0.00	0.0000
N-BUTANE	0.000	0.0000	0.00	0.0000
I-PENTANE	0.000	0.0000	0.00	0.0000
N-PENTANE	0.000	0.0000	0.00	0.0000
HEXANES	0.009	0.0039	0.46	0.0003
TOTAL	100.000	0.0039	1.77	1.4861

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
 ** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR	(1/Z)	1.0052
BTU/CU.FT. (DRY) CORRECTED FOR	(1/Z)	1.8
BTU/CU.FT. (WET) CORRECTED FOR	(1/Z)	1.7
REAL SPECIFIC GRAVITY		1.4932

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER # : WIA2680
 CYLINDER PRESSURE : 80 PSIG
 DATE RUN : 08/06/94
 ANALYSIS RUN BY : SHEILA FELTMAN



1115 Farmington Avenue
 Farmingt , N.M. 87401
 (505) 325-6622

Analysis No. RAG40002
 Cust. No. 69020-10000

WELL/LEASE INFORMATION

Company : RIDGEWAY ARIZ. GAS CORP
 Well Name : PLATEAU CATTLE CO. #1
 County : APACHE
 State : AZ
 Location : NE SW 15-12N-29E
 Fld/Formation : SUPAI
 Cust.Stn.No. :

Source : DST #2
 Pressure : 160 PSIG
 Sample Temp. : 90 DEG.F
 Well Flowing : YES
 Date Sampled : 08/06/94
 Sampled By : BAKER OIL TOOLS
 Foreman/Engr :

Remarks: SECOND FLOW DST #2
 1410' - 1480'
 UNNORMALIZED TOTAL = 96.0%

ANALYSIS

COMPONENT	MOLE %	GPM**	B.T.U.*	SP.GR.*
NITROGEN	9.618	0.0000	0.00	0.0930
CO2	90.248	0.0000	0.00	1.3714
METHANE	0.131	0.0000	1.33	0.0007
ETHANE	0.000	0.0000	0.00	0.0000
PROPANE	0.000	0.0000	0.00	0.0000
I-BUTANE	0.000	0.0000	0.00	0.0000
N-BUTANE	0.000	0.0000	0.00	0.0000
I-PENTANE	0.000	0.0000	0.00	0.0000
N-PENTANE	0.000	0.0000	0.00	0.0000
HEXANES	0.003	0.0013	0.15	0.0001
TOTAL	100.000	0.0013	1.48	1.4652

* @ 14.730 PSIA DRY & UNCORRECTED FOR COMPRESSIBILITY
 ** @ 14.730 & 60 DEG. F

COMPRESSIBILITY FACTOR (1/Z) 1.0049
 BTU/CU.FT. (DRY) CORRECTED FOR (1/Z) 1.5
 BTU/CU.FT. (WET) CORRECTED FOR (1/Z) 1.5
 REAL SPECIFIC GRAVITY 1.4718

ANALYSIS RUN AT 14.730 PSIA & 60 DEGREES F

CYLINDER # : WIA2358
 CYLINDER PRESSURE : 140 PSIG
 DATE RUN : 08/06/94
 ANALYSIS RUN BY : SHEILA FELTMAN

F.L. Shogrin
P.O. Box 229
Hygiene, CO 80533

303-444-8149

303-776-4488 telegraph

Operator Ridgeway Arizona Oil Corporation

Bond Company: Bank One Arizona Amount: \$25,000*

CD#4002111 (\$10,000) 07/07/94
Bond No.: CD#4002112 (\$15,000) Date approved: 11/28/94

* Two separate CD's to make up one blanket bond. These 2 CD's are not to be released until all wells covered by the blanket bond have been plugged and abandoned.

Permits covered by this bond:

~~880~~ *transfer to PC as was.*
883
884
885
888
890
891
892
893
895
896
897
898
899
900
901
902
903
904



Arizona Geological Survey
416 W. Congress
Suite 100
Tucson, AZ 85701

file 880

Attn: Mr. Steve Rauzi

RE: Plateau Cattle #1
Plugging Record

Dear Mr. Rauzi:

Enclosed you will find the Plugging Record for the Plateau Cattle #1, and a copy of the Water Well Acceptance Form which has been executed by Mr. H. Jay Platt.

If you have any questions regarding this matter, please advise.

Sincerely,

C. Tanner

Carmen Tanner
Office Manager

Enclosure

Cc: J. Dale Nations, Oil & Gas Conservation Commissioner, Chairman
Larry D. Fellows, Director & State Geologist
Marc Steadman, Office of Attorney General
Walter Ruck, Ridgeway Petroleum Corp.
Tom White, Ridgeway AZ Oil Corp.

Rauzi.9-12-97



P.O. Box 1110
St. Johns, AZ 85936
Tel: 520 337 3230
Fax: 520 587 3522

9-10-97

Jay Platt calls

POB 426, St. Johns 85936

Has WW acceptance form

Plan to take over PC 1 as new

RAOC to P+A back to base FW + perf in wtr sd.

Asked me if he assumes responsibility for RAOC work.

I advise no.

He reported that when they cleaned out last summer

- ① filled hole with wtr + it was dead
- ② pulled tubing + pressure shot wtr to top of mast.

He concerned it may blow out after he takes over.

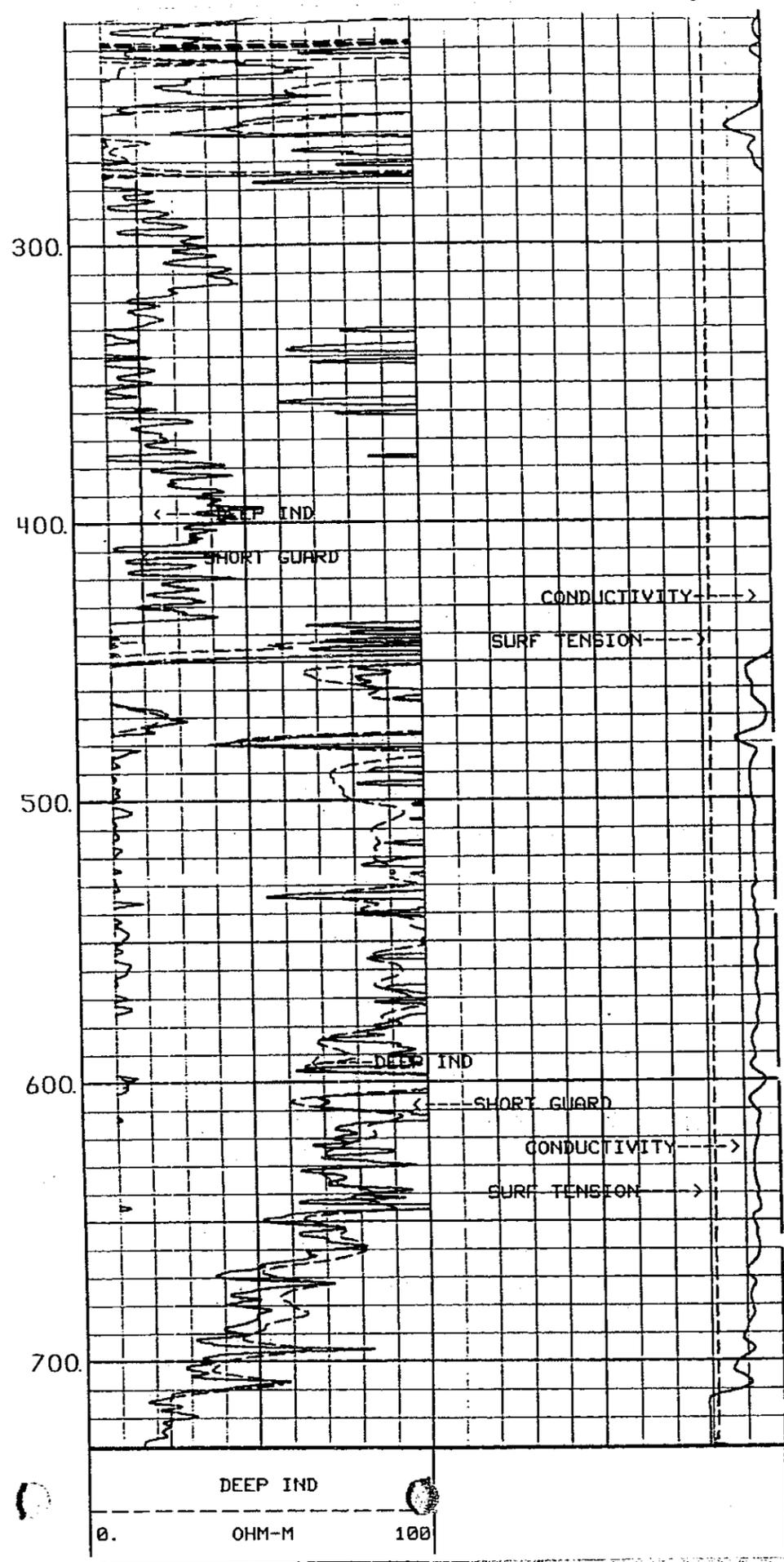
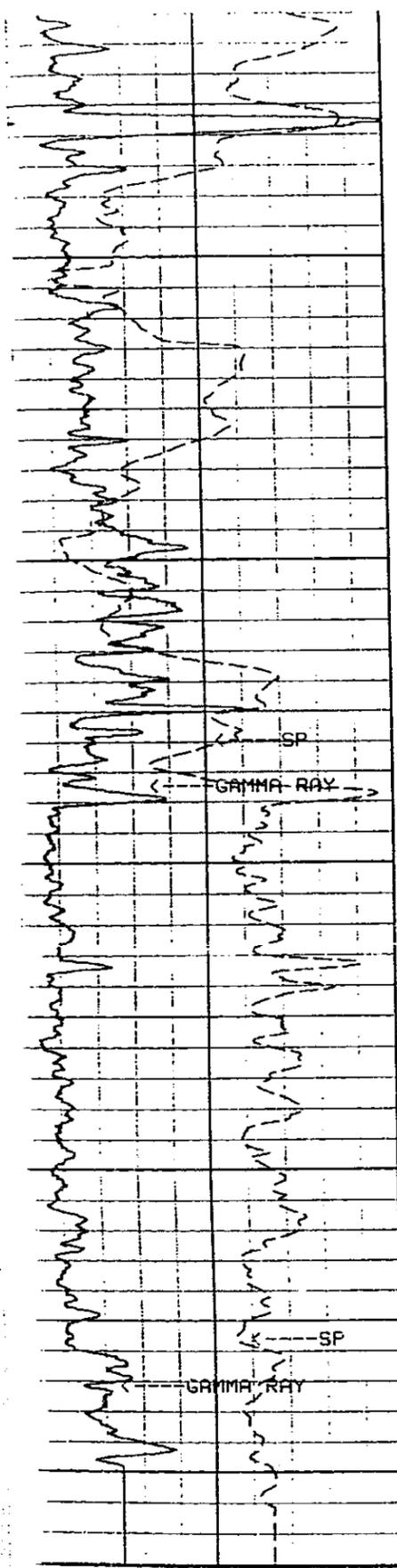
I advise that is unlikely:

- ① wtr column was sufficient to kill well.
- ② POH swabbed it in because of pressure drop.
- ③ P+A plan proposes retainer @ 1200' + pump 150 SK
→ this will put good solid cnt plug across perms (1300-1700')
- ④ will displace hole from ~1200' w/ 10# mud.
- ⑤ set second cnt plug ~800-600'

= in short, would never blow again.

I advise taking well over is 3 step process.

- ① wtr dept.
 - ② RAOC P+A to base fresh wtr
 - ③ He files form 26.
- ⇒ don't file form 26 until RAOC P+A to base fw.



R R O O
RIDGEWAY AZ OIL CORP.

August 21, 1997

Oil & Gas Program Administrator
Arizona Geological Survey
416 W. Congress, #100
Tucson, AZ 85701

file 880

Attn: Mr. Steve Rauzi

RE: Application to Plug & Abandon
Plugging Record

Dear Mr. Rauzi:

Enclosed you will find the Application to Plug and Abandon for Well No. ^{#1} Plateau
Cattle for your execution. Also enclosed is the Plugging Record for Well No. 22.

If you have any questions regarding this matter, please advise.

Sincerely,

Ctanner

Carmen Tanner
Office Manager

Enclosures

CT:ct

Cc: Don Riggs
Well No. Plateau Cattle
Well No. 22



Ridgeway expands drilling to 12 wells ⁸⁸⁰



Photo by Art Harrington

Ridgeway Petroleum president Walter B. Ruck, (rt.) has announced the company will drill 12, instead of 10, delineation wells. Don Riggs, manager of Ridgeway Arizona, is also pictured.

ST. JOHNS — Walter B. Ruck, president of Ridgeway Petroleum, announced Thursday in St. Johns that the Calgary-based company's 10-well delineation drilling program has been expanded to 12 wells. The company's president and chairman of the board was in Arizona to meet with staff and to personally check on the progress being made in defining the company's highly-successful CO₂ discovery in southern Apache County.

"Every CO₂ field has been discovered by accident," he said. "We initially came here searching for oil." The tip-off for Ridgeway had been the published results of the geothermal drilling done several years ago at Alpine, which had been funded by the United States Department of Energy. While Ruck still believes oil may be found in the area, the company's initial drilling discovered a vast reservoir of carbon dioxide gas instead. Ruck explained that it seems to be found where there has been contact between volcanic deposits and wet

limestone. "The fields are typically very large when you find them," he said. "But you may drill hundreds of wells searching for the gas and never find it." So far the gas has been found in every well Ridgeway has drilled here.

California petroleum and food industries all need CO₂ badly, Ruck explained, since no natural reservoirs of it have ever been discovered there. The demand is such that there appears to be substantial interest in constructing a pipeline which would likely carry the liquefied and pressurized gas from southern Apache County to Bakersfield, Cal. Ruck estimates it would cost between \$200-250 million to build such a pipeline.

The Arizona Oil and Gas Commission has decided to hold its annual meeting on June 13 in St. Johns at Ridgeway's offices. According to Ruck, the meeting is kind of snowballing. At least four pipeline companies have notified him they plan to come,

along with representatives of a number of major oil companies. Ruck expects some important decisions about the future of Ridgeway's project may be made at that time.

Ruck cautioned, "We're not a panacea for the area." He noted that the local unemployment rate will not be reduced much by the CO₂ development, since most of the work is so specialized it requires bringing in highly-trained and experienced personnel. On the other hand, he admitted, he believes the development will ultimately be good for the area. It is already infusing money into the local economy. The company now has a large drilling rig and a service rig, or completion unit, in addition to all of the other well services which have come in to assist in the exploration. "It is also an environmentally clean industry, when compared to other oil and gas exploration," he said.

What about the helium content? According to Ruck, it has been significant, testing between .65 and .70 percent. By comparison, he said, most of the helium being commercially extracted tests at less than .30 percent. Consequently, the construction of a helium extraction plant is still a possibility, he said, "But it would be expensive — probably \$35-40 million." Interestingly enough, the United States produces 95 percent of the world's helium.

The president said the company will be going to faster air drilling for the remainder of the planned wells. He said the down side is that it is impossible to core or to get the quality of samples which can be obtained by mud drilling. "We did enough coring and drill-stem testing on the first wells, though, that we can stand the air drilling on the remaining wells," he said.

The wells drilled thus far have ranged from 1,800 to 3,150 feet. "As we go further north," Ruck said, "the wells may go down to 4,500." The required depth can vary as much as 450 feet, due to surface elevation differences. All of the wells are now being taken down to the granite.

Stock soars on drilling discoveries

Art Harrington
The Observer

file 880

APACHE COUNTY —

Southern Apache County is making international news with the discovery of its vast CO₂ resources. Consequently the stock of developer Ridgeway Petroleum Corporation continues to climb.

Drilling by Aztec Well Service, contracted by Ridgeway, began on February 12 to prove up the carbon dioxide gas reserves which had been estimated at four-to-five trillion cubic feet. The huge rigs have lost no time in completing seven wells and are now working on the eighth.

According to information *The Observer* has been able to discover, the company has hit CO₂ in each of the wells drilled. This would seemingly indicate widespread deposits, since drilling thus far has been reported in areas from north of St. Johns to just northeast of Springerville.

The discovery has not escaped the attention of the stock market. Ridgeway Petroleum stock (symbol RGW) has moved this year from a low of \$.92 per share to a high of \$7.35 (Canadian). On Friday it closed at \$5.55, having traded as high as \$5.75 that day.

On Monday trading of the stock on the Vancouver exchange was temporarily halted. It was resumed after the company announced a blowout on the #6 well had been contained. With that being an indicator of an even greater reservoir, the stock closed on Monday at \$6.00.

Ridgeway was incorporated February 22, 1980 as Brent West Minerals. It continued doing business under that name until February 26, 1990, when it became Ridgeway Petroleum Corp. Its

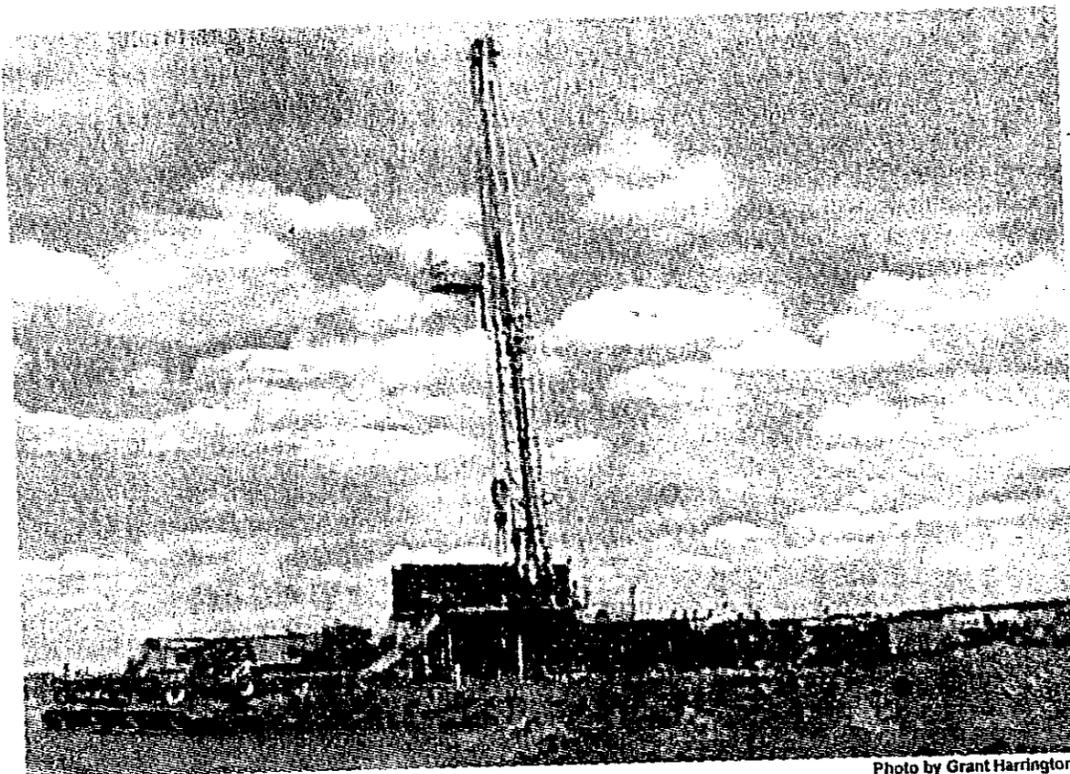


Photo by Grant Harrington

Drilling in southern Apache County has revealed immense deposits of CO₂. Ridgeway Petroleum, the developer, has realized spectacular increases in its stock since the news of the discoveries has reached investors. The rig pictured above costs over \$1 million dollars. It has a crew of eight which man it with 12-hour shifts, so the rig can keep drilling 24-hours a day.

home office is in Calgary, Alberta, Canada. The primary business of the company is the extraction of oil and gas, with a secondary interest in diamonds. As of May 2, 11,061,829 of its authorized 25,000,000 shares had been issued. The volume traded on that day was 12,700.

Ridgeway President Walter Ruck also announced on May 2 that a 4,800,000 special warrant brokered private placement through Yorkton Securities had closed. Gross proceeds of \$16,800,000 were received, of which approximately \$10 million was being held in escrow, pending the advancement of the company's previously announced transaction involving Arizona Resources In-

dustries.

Is there a market for such CO₂ resources? Without a doubt. The largest consumer of CO₂ is the petroleum industry, which uses the gas to help force otherwise unretrievable oil deposits into collectable pools. The Permian Basin in west Texas and eastern New Mexico, for example, uses in excess of 1.4 billion cubic feet per day in its oil recovery operations. The hundreds of other uses for CO₂ include a diversity ranging from food processing, carbonation of beverages and water purification, to flash freezing.

How would the product be moved? According to information *The Observer* has been able to glean, resources of two trillion cubic feet would justify the construc-

tion of a pipeline to oilfields in California or Texas. The company has apparently proven with its wells drilled thus far that more than adequate reserves exist to begin planning for a pipeline.

Our information also indicates that a number of major players in the industry are actively involved in bidding on the gas. Names such as Chevron and Cal Resources continue to surface.

Also previously reported has been the discovery of helium, along with the CO₂. While the quantity of helium has yet to be determined, *The Observer* understands Ridgeway is also evaluating the possibility of building a helium extraction plant in southern Apache County.



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellows
Director and State Geologist

March 25, 1997

Mr. Don Riggs
Ridgeway Arizona Oil Corporation
P.O. Box 1110
St. Johns, Arizona 85936

file 880

Dear Mr. Riggs:

A copy of the amended application to drill the 9-22-29 well showing the amended location and elevation is enclosed for your file.

I have also enclosed a copy of R12-7-121, *Well Completion and Filing Requirements* and a check list showing the current compliance status of your wells. Let me know if you disagree with anything on the list.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

RIDGEWAY ARIZONA OIL CORPORATION

Compliance status of wells as of 3/25/97

Well	Permit	Drilling Summary	Completion Report	Samples	Logs	Core Analyses	DST Report	Gas Analyses	Well Signs	Application to P&A	P&A Record	Comments
✓ 1 Plateau Cattle	880	On file	On file	On file	On file	n/a	On file	On file	DUE	DUE		SI 8/94
1A Plateau Cattle	883	On file	On file	n/a	n/a	n/a	n/a	n/a	DUE	DUE		TA 11/94, Needs P&A
22-1 State	885	On file	DUE	On file	On file	n/a	n/a	n/a	DUE	DUE		TA 8/95, Needs P&A
3-1 State	884	On file	On file	On file	On file	n/a	n/a	On file	DUE			SI 9/95
22-1X State	888	PENDG	PENDG	PENDG	On file	PENDG	PENDG	PENDG	DUE	n/a		SI 2/97, WOCT
11-21 State	895	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	DUE	n/a		SI 3/97, WOCT
9-21 State	897	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	DUE	n/a		SI 3/97, WOCT
10-22 State	896	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	PENDG	DUE	n/a		DRLG 3/97

ARIZONA GEOLOGICAL SURVEY 416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701

FAX

State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500

Date: 2-11-97
Number of pages including cover sheet: 8

To: David Hight
ARCO Oil & Gas

Phone: _____
Fax phone: 915-697-4213
CC: _____

From: Steve Rauzi

Phone: (520) 770-3500
Fax phone: (520) 770-3505

REMARKS: Urgent For your review Reply ASAP Please comment

Completion rpt + gas analysis from Ridgeway 3-1 State (884)
" " " " " " Plateau (attle 1 (880)

The 1 Mr. Jones-State, se nw 32-7n-23e, Guadalupe County, originally was set up as a 15,000-ft test of Pennsylvanian horizons. Labrador took sidewall cores and drillstem tested two intervals, but released no details.

Labrador's venture was drilled nine miles southeast of a non-commercial Abo (Permian) gas discovery completed in 1982. Nearest established production is some 60 miles to the southeast, in Roosevelt County's Tule field, a Permian Basin pool that produces gas from Pennsylvanian and the Ordovician Montoya between 6800 and 7200 ft.

Davis Petroleum Corp plugged and abandoned a remote wildcat drilled in the northern portion of the non-producing Albuquerque-Belen Basin about 14 miles north of Albuquerque.

Davis' 1-Y Tamara, se se 3-13n-2e, Sandoval County, was set up as a 9100-ft test of Dakota and drilled to a depth of 8732 ft, with no other details disclosed. The venture is 36 miles southeast of the nearest production, at shallow Mesaverde wells on the southeastern flank of the San Juan Basin.

Arizona

Oil flowed at the rate of 117 bbls per day, with 693,000 cu ft of gas and 54 bbls of water daily, at a stepout from northeastern Arizona's Black Rock field completed by Harken Southwest Corp nine miles west and slightly south of Teec Nos Pos.

Harken tested the 20 Black Rock, se se 7-40n-29e, Apache County, through a 16/64-inch choke with a flowing tubing pressure of 280 psi. Production is commingled from perforations in Lower Ismay between 4680 and 4752 ft; Desert Creek between 4786 and 4818 ft; and Akah from 4927 to 5028 ft.

The 5432-ft well offsets to the north an abandoned Mississippian oil producer on the northwestern flank of Black Rock field and is three quarters of a mile east of the field's northwesternmost Paradox producer.

PREMCO Western in late November spudded an 8500-ft test to Precambrian on the western end of the Mogollon Plateau approximately 120 miles northwest of Flagstaff in northwestern Arizona.

The Mohave County venture, the 1-10 Mohave County in nese 10-41n-11w, is about 24 miles southwest of the closest previous production, in Washington County, Utah's Virgin field, an inactive Timpoweap (Moenkopi) oil pool. The nearest current production is more than 100 miles to the northeast, in Utah's Upper Valley field, a Kaibab pool on the northern end of the Kaiparowits Basin. As the year ended, PREMCO had reached a depth of 1100 ft and was awaiting another rig to continue drilling.

Ridgeway Arizona Oil Co during the year began the process of delineating a carbon dioxide/helium accumulation discovered by the company in 1994 on the St. Johns Anticline near the town of St. Johns in eastern Arizona's Apache County.

The company, the U.S. operating subsidiary of Calgary-based Ridgeway Petroleum Corp, completed the 3-1 State 13-53-801, ne se 3-11n-29e, flowing 663,000 cu ft of gas per day from Fort Apache between 1536 and 1676 ft. Ridgeway said preliminary analysis of the gas—performed by the U.S. Bureau of Mines—indicated it is composed of 89 percent CO₂, 10 percent nitrogen, 0.7 percent helium and 0.1 percent each of methane and argon.

The 3-1 State 13-53-801 was drilled four miles south of Ridgeway's initial discovery in the area, which was completed in 1994 at the 1 Ridgeway/Canstar-Plateau Cattle Co, se nw 15-12n-29e. The latter well produced CO₂, helium and nitrogen from Supai at 1410-79 and 1680-1720 ft.

Ridgeway estimated reserves in the field at 260 billion cu ft of CO₂ and two billion cu ft of helium.

The area is approximately 55 miles south of the Pinta Dome-Navajo Springs area, which has produced nonflammable, helium-bearing gas.

Carbon dioxide from the wells is to be utilized for

growing hydroponic greenhouse vegetables in industrial parks now under development by the company's Ridgeway Industries Inc affiliate.

Wyoming

Highlighting activity in Wyoming during 1995 was the continuation of a subthrust Cretaceous play touched off by Barrett Resources Corp the previous year in the Owl Creek Thrust area of the eastern Wind River Basin.

Barrett gauged a sustained flow rate of 20.3 million cu ft of gas per day at a Fort Union producer drilled six miles north of Waltman. The 8 Cave Gulch Unit, sw nw 32-37n-86w, Natrona County, is producing from 130 ft of perforations between 4604 and 4872 ft.

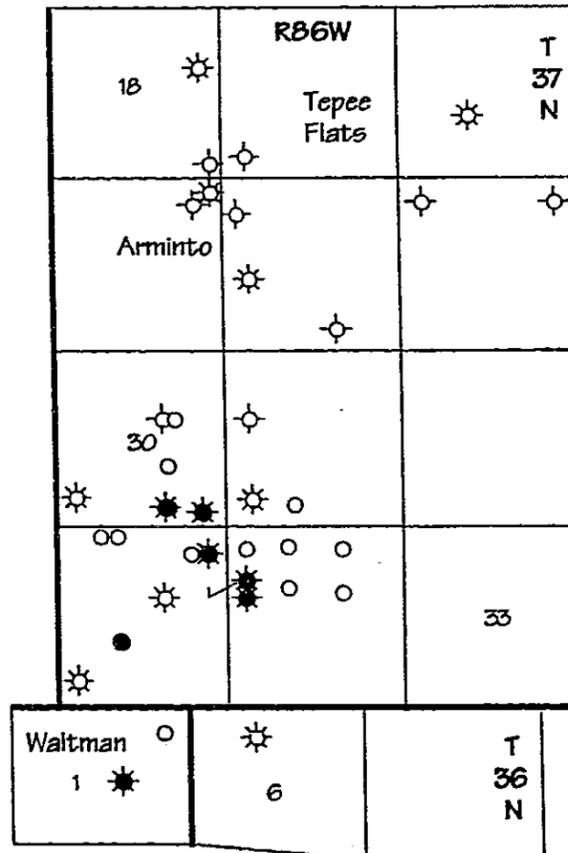
The 7326-ft well was directionally drilled westward to a bottom-hole location in se ne 31-37n-86w. At its bottom-hole location, it offsets to the south Barrett's initial subthrust Lance discovery on the Owl Creek Thrust, the 1 Cave Gulch-Federal in ne ne 31-37n-86w. That well encountered 481 net ft of pay in a 2200-ft section of Lance/Fort Union. In about seven months on line, it produced nearly 2.3 billion cu ft of gas and 22,000 bbls of condensate from perforations in 246 ft of pay between 5742 and 6811 ft.

Barrett during the year disclosed plans to drill 14 new Lance/Fort Union development tests on the Owl Creek Thrust during 1995 and 1996. As operator, the Denver-based independent owns a 94 percent working interest in the Cave Gulch Unit, with Prima Energy Corp holding the remaining six percent.

In March, Barrett completed two stepouts from the discovery including a north offset at the 9 Cave Gulch Unit-Federal in se se 30-37n-86w that flowed 6,148,000 cu ft of gas and 39 bbls of condensate daily from four intervals of Lance and Fort Union between 5997 and 7740 ft. The company's 4 Cave Gulch Unit-Federal, sw sw 29-37n-86w, produced an average of 1,144,800 cu ft of gas with eight bbls of condensate and 36 bbls of water from an unreported

horizon during its first four days on line.

A fourth offset completed by Barrett during the year at the 3 Cave Gulch Unit, sw nw 32-37n-86w, initially flowed 5,000,000 cu ft of gas and 40 bbls of



condensate per day through perforations between 8537 and 8830 ft.

Elsewhere in the Cave Gulch/Waltman field area, gas flowed at the rate of 2,223,000 cu ft per day, with three bbls of water daily, at a shallower pool discovery completed by Chevron USA Production Co two miles north of Waltman. The Natrona County workover,

ARIZONA GEOLOGICAL SURVEY

416 W. CONGRESS, SUITE 100, TUCSON, AZ 85701

FAX

State of Arizona
Arizona Geological Survey
416 W. Congress, Suite 100
Tucson, Arizona 85701
(520) 770-3500



Larry D. Fellous
Director and State Geologist

Date: 2-29-96

Number of pages including cover sheet: 5

To: Donna Clark

Westar

Phone:

Fax phone: 955-4423

CC:

From: Steve Rauzi

Oil & Gas Program Administrator

Phone: (520) 770-3500

Fax phone: (520) 770-3505

REMARKS: Urgent For your review Reply ASAP Please comment

Completion Report (front & reverse side) and
test analyses (1410' + 1680') for Ridgeway
Arizona Oil Corp # 1 Plateau Cattle Co. well.



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

June 1, 1995

Mr. Walter B. Ruck, President
Ridgeway Arizona Oil Corporation
1080, 700-4th Avenue S.W.
Calgary, Alberta T2P 3J4

file 880

Dear Mr. Ruck:

Thank you for telecopying the Gallup newspaper article about your project. Imagine, looking for oil and finding tomatoes (and, of course, a lot of carbon dioxide and helium). There remains, however, the very real possibility of encountering commercial accumulations of good old-fashioned crude oil as drilling in that region continues.

The reference in the article to surplus steam or hot water from the generating station caused me to think of some early geothermal studies done in that region. In fact, the 1992 steam test near Alpine (that encountered bleeding oil from fractures in Supai rocks) was a recent outgrowth of these early studies. Would you use the surplus steam or hot water for heating or in the growing process?

In any event, I am taking the liberty of enclosing three of the resulting items from the early geothermal studies. These include: (1) Open file report 79-2a on the geothermal potential in the Springerville-St. Johns area, (2) Geothermal Resources map of Arizona, and (3) a *Fieldnotes* issue on geothermal potential in Arizona.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

Wednesday
May 31, 1985
Number 125 Volume 108



THE TRUTH WELL TOLD Independent

STEVE RAZZI:
F. Y. I.
PRISON THE
TOKATO MAN...



Cardinals win, Page 5

UPS 213-300

*

GALLUP, NEW MEXICO 87305

(505) 863-4811 [ELSEWHERE] (800) 545-3817

PER COPY 54¢

Man seeks oil, finds tomatoes in St. Johns

By Todd Puzan

ST. JOHNS, Ariz. — When Walter B. Ruck came to St. Johns a couple of years ago, he was a wild prospector looking for oil in what appeared to be an overworked area. Instead, he may have found diamonds.

"It's a very feasible project," says Loey Grant, director of the St. Johns Chamber of Commerce. "He's tak-

ing about 40 acres under glass, plus the employment of up to 150 people."

To verify the project would consist of hydroponic greenhouse that would use carbon dioxide from wells in the St. Johns area, plus steam or hot water from the nearby Salt River Project Colorado Generating Station.

Hydroponics consists of growing plants in nutrient rich solutions, w-

ing an inert material such as sand, gravel or rocks to provide support and inside a temperature and atmosphere controlled building.

"They're talking about a \$7 million investment to build the project," said Grant. "Once it's going, it will be a year-round operation."

Ruck, who is based in Calgary, Alberta, Canada, said, "As the booming hydroponic industry is a very large consumer of carbon dioxide,

he located the plants in close proximity to the gas fields with production of an estimated 100 million cubic feet of gas."

Ruck said having his own supply of carbon dioxide would cut the cost of this gas by 50 percent compared to competitors. Carbon dioxide is the "life" of plants, and it is a global warming due to the "greenhouse effect" in the atmosphere.

Ruck also announced the hiring of Eric E. Thornton, who was previously

production manager and grower for the J. R. Suplee Co. of Boise, Idaho, in charge of the Suplee Sun-Cro greenhouse projects.

Grant, who said he's worked with hydroponics in the past, said the growing plants are anticipated to take longer a day by circulating water through the gravel. "We'll be using the plants as located."

The temperature and concentration of carbon dioxide is automatically monitored and controlled.

said Grant. "The only thing they haven't automated is the people who pick the tomatoes and cucumbers."

"Everything is monitored and controlled by groups, sensors and computers," he said. "They tell the operators when to add more heat or more carbon dioxide or what mixture of nutrients to provide."

"It takes 60 to 90 days before the produce is ready to pick," he added. — Ben Mawhood, Page 7

Man seek

"But, you get absolutely perfect produce, without blemishes or odd shapes. You can't do this with water irrigation, there's no way to support them," said Grant. "As for corn, for get it, it must be in a field to pollinate. It all began when Ruck, chairman of Ridgeview Petroleum Corp., saw a report in a petroleum magazine about an explorer well drilled by the New Mexico Bureau of Mines in Amarillo, Texas, showing 7.6 percent helium, 0.65 percent helium and 0.20 percent argon. The gas is from 1,500 feet to 1,700 feet below ground level in the Supai-Permian Apache rock formation. During a 66-day test period last November and December, Ruck's first well produced 315 million cubic feet of gas."

The Ridgeview Petroleum Corp. has an 80 percent interest in more than 38,000 acres in the St. Johns area. Ridgeview Industries, Inc., a wholly owned subsidiary of Ridgeview Petroleum, is developing the agricultural project.

Thornton, who will be a vice president of Ridgeview Industries, has 30 years of experience in all areas relating to "controlled environment agriculture," as well as greenhouse environmental systems and greenhouse structures. At Simplex, Thornton was directly responsible for the day-to-day production and economic modeling of greenhouse vegetable production at Sunco's greenhouse project in Caldwell, Idaho.

Thornton was an executive board member for Sunco Ltd., a 12-acre greenhouse operation project in Las Vegas, Nev., managed by Sunco. He worked in a developmental capacity for this and other projects. Before becoming an independent consultant, Thornton has been a grower, consultant, project manager and developer for various companies, municipalities and state agencies involved in the greenhouse production of flowers and vegetables in Alaska, Texas and Colorado. A vice president of the Hydroponic Society of America, he regularly speaks publicly on greenhouse top production techniques, environmental controls, greenhouse structures and systems.

Thornton received a Bachelor of Science degree in Physics from Middle Tennessee State University, Murfreesboro, Tenn. He plans to relocate to St. Johns with his family in the near future.

EXPLORATION

INDONESIA

South Sumatra's Corridor Block has another sizable gas discovery.

Gulf Canada Resources Ltd.'s Asamera (Overseas) Ltd. unit gauged the 1 Sumpal wildcat 61 km northwest of its Ramba field.

The 1 Sumpal encountered more than 100 m of gas column. Three zones between 1,837 m and 1,931 m flowed through perforations at a combined rate of 36.5 MMcf/d.

Asamera plans to acquire delineation seismic this year and drill more wells to assess the discovery's vertical and areal extent.

It noted the discovery is near gas pipeline infrastructure planned as part of the Corridor Block Gas Project expected to start up in late 1997.

Interests are Asamera 54%, Talisman (Corridor) Ltd. 36% and Pertamina 10%.

SUDAN

The State Petroleum Corp. affiliate of Arakis Energy Corp., Vancouver, B.C., spudded in mid-April the first of 19 exploratory and development locations identified on 3D and 2D seismic in proximity to Greater Heglig and Unity oil fields.

The first wildcat, 9B Toma South, is on trend and about halfway between the two fields. Projected to 3,000 m, it will test several secondary pay zones but its main target is a Lower Cretaceous sandstone in a structural closure estimated to contain 350-400 million bbl of recoverable oil based on a 20% recovery factor, Arakis said.

Arakis has identified a further 28 exploration leads that will require further detailing. The company has more than 135 people working at the central Sudan field base on well development, exploration, pipeline infrastructure, and engineering.

Arakis had booked 307.3 million bbl of proved and

probable reserves within the Sudan concessions as of Dec. 31, 1994, based on a 15% porosity cutoff in the existing reservoirs.

A recent well, 8X Heglig, is believed capable of sustained production of 4,000 b/d of oil from 6,125-88 ft in Lower Cretaceous Lower Bentiu (OGJ, May 1, p. 42).

Flow rates as high as 6,000 b/d were the highest attained for a single pay zone on the company's Sudan concessions. Lower Bentiu had not been tested in any of its fields in the concession.

Previously confirmed reserves combined with the new Lower Bentiu reserves will support an estimated start-up commercial production rate of 85,000 b/d from Greater Heglig and Unity fields, Arakis said.

While awaiting approval of pipeline financing, engineers are reviewing the possibility of increasing pipeline diameter to 24 in. from 20 in.

Arakis is moving the service rig to test Lower Bentiu potential in Unity field. Company engineers believe the zone is potentially prospective throughout Unity field.

U.S. GULF

The Seneca Resources Corp. unit of National Fuel Gas Co. has a Pleistocene oil discovery on Vermilion Block 252.

The 8 OCS-G-5431 discovery well logged 51 ft of net oil pay in two Pleistocene sands at 7,100-7,600 ft. A confirmation well, No. 9 on the block, logged 37 ft of net oil pay in the same sands.

Production is to start in March 1996 through existing facilities. Seneca drilled the wells on a farmout from the lease owner and owns a minimum 65% working interest in each well.

ARIZONA

Ridgeway Petroleum Corp., Calgary, expects to start work in May at two more wells near its Apache

County carbon dioxide/helium discovery.

The 3-1 State, in 3-11n-29e, a 4 mile south step-out near the crest of the St. Johns anticline, and the 22-1 State, one half mile south of the discovery well, are to be drilled this month (see map, OGJ, Sept. 5, 1994, p. 42).

Ridgeway tested the discovery well, its 1-15 Plateau Cattle Co., in 15-12n-29e, during Nov. 15-Dec. 31, 1994. On a ¼ in. choke the flow climbed from 160 Mcfd with 130 psi FTP to 821 Mcfd with 138 psi FTP at the test's end.

Total test production was 31.5 MMcf of gas, and shut-in tubing pressure was 380 psi on Feb. 1, 1995. The gas analyzed 91.5% CO₂, 7.6% nitrogen, .645% helium, and .20% argon.

Producing formation is the Fort Apache member of Permian Supai through 120 ft of perforations at 1,300-1,700 ft.

The 3-1 well is projected to be 225 ft structurally higher than the discovery well. Ridgeway hopes it encounters a much higher percentage of helium.

Ridgeway has an 80% interest in more than 38,000 acres in the area. Three structures exist under the leases. The St. Johns anticline, a 20,000 acre surface structure, is the largest with 400-500 ft of surface structural closure.

ARKANSAS

Pinnacle Operating Co., Shreveport, staked a Jurassic Smackover wildcat in Hempstead County.

The 1 IPCO, in 6-14s-25w, is projected to 5,300 ft. It is 5½ miles northwest of Bois d'Arc oil field.

FLORIDA

Plains Resources Inc., Houston, plans to start exploring South Florida's Cretaceous Sunniland oil trend this year.

The company said it identified several large potential prospects in a 2 year study of

the trend's exploration potential completed in late 1994.

"We have used advancements in seismic technology and reprocessing techniques to identify the prospective reef structures in this prolific but immature trend," the company said.

Plains is shooting key seismic lines across four of the prospects in first half 1995. It plans to reduce its financial exposure to 50% and drill its first well in mid-1995.

Plains also plans to drill a development well in mid-1995 in Raccoon Point oil field of Collier County. It will be adjacent to three wells that produce 450-1,600 b/d and average 900 b/d.

WYOMING

Union Pacific Resources Co. staked a Cretaceous wildcat in the Green River basin.

The 1 Stratos-Federal, in 24-22n-107w, Sweetwater County, would be drilled to 17,000 ft or Frontier and Dakota on a proposed federal exploratory unit, PI reported.

The drill site is just north of former Cretaceous Frontier and Mowry gas production in idle Megas field.

Lower Cretaceous Cloverly is a new pay in Whistle Creek field in the Big Horn basin.

Texaco Exploration & Production Inc. recompleted a former Jurassic Morrison well, its 95-16 Whistle Creek Unit, in 16-56n-98w, Park County. It flowed 477 Mcfd of gas and 91 b/d of water from Cloverly at 4,145-55 ft, PI noted. The zone also produces in Garland field.

INDEX of articles OGJ published in 1994 can be ordered for \$7.50 from Circulation Dept., Attn. Judy Hernandez, Oil & Gas Journal, Box 1260, Tulsa, OK 74101.

Australia

Australia is a nation for production permits on its continent.

Thirteen bids: three wells of Ashmore Islands, six in Australia, two off and two off.

Companies participate in required to applications data in duplicate \$3,000 (Australia area by 4 p. proper statistical agency.

Much of these areas previous off 20, 1993, p. 2.

Ashmore/C

Leading offshore offers three parcels in Australia just south of Australian operations string of signatories. Success Petroleum Co.

ia, which the a 300 million OGJ, Jan. 2, p.

Tracts AC consist of 44, tively, in the of the territories Islands in water.

The three outer Bonaparte

The oldest tures readily basin are the associated with an sequence depths of 2.5- displays a structural pa donderry hills Vulcan subbasin trough and S.

Most exploration three areas is potential of tion and Flar

These units source and re Skua oil field the likely so discoveries Area A in the

PETROLEUM INFORMATION
DAILY ACTIVITY REPORT
SECTION II - 03/14/95

COMPLETION SUMMARY

FINAL CLASS: WF=UNSUCCESSFUL NEW FIELD WILDCAT; WFD=NEW FIELD DISCOVERY; WD=UNSUCCESSFUL DEEPER POOL WILDCAT; WDD=DEEPER POOL DISCOVERY; WS=UNSUCCESSFUL SHALLOW POOL WILDCAT; WSD=SHALLOW POOL DISCOVERY; WP=UNSUCCESSFUL NEW POOL WILDCAT; WPD=NEW POOL DISCOVERY; WO=UNSUCCESSFUL WILDCAT OUTPOST; WOE=WILDCAT OUTPOST EXTENSION; D=UNSUCCESSFUL DEVELOPMENT WELL; DO=DEVELOPMENT OIL WELL; DG=DEVELOPMENT GAS WELL.

ARIZONA

APACHE COUNTY

RIDGEWAY ARIZONA OIL
1 RIDGEWAY/CANSTAR
PLATEAU CATTLE CO
API 02-001-20295

15-12N-29E
SE NW
3023 FSL 3564 FEL
IC 20017000194

UNNAMED; PERMIT #880: 3055 PRECAMBRIAN, (FR 06/23/94FM) OPER
ADD: % RIDGEWAY PET, 1080-700 4TH AVE SW, CALGARY, AB, PHONE (800)
347-0294; EL: 6372 GR. LOCATION DATA: 51 MI S NAVAJO SPRINGS
FLD(COCONINO) 7 MI SE ST JOHNS, AZ; WELL ID CHANGES: FTG CHGD
FROM 2310 FSL, 1650 FWL

WFD
GAS

CONTR: L & B SPEEDRILL, RIG #1: SPUD: 07/23/94, CSG: 9 5/8 @ 150 W/120 SX, 7 @ 722 W/85 SX, 4 1/2 @ 1794 W/100 SX; SPL TOPS: SAN
ANDRES 142, GLORIETA 481, SUPAI 680, GRANITE 2360; DST # 1 (SUPAI - STRD) 1680-1720, REC: 475 FT GCW, FT GC FILTRATE WTR (96% CO2, 4%
HELIUM), DST # 2 (SUPAI - STRD) 1410-1479, REC: 175 FT GCW, FT GC FILTRATE WTR (96% CO2, 4% HELIUM), GTS IMMEDIATELY - NO RATE; DRLG
COMMENTS: LOCAL CALL(LOG): SAN ANDRES LS 209, SUPAI SAMPLE TOP ALSO REFERRED TO AS YESO FORMATION, OPERATOR TO DRILL
ADDITIONAL TESTS BEFORE COMPLETION. 2431 TD, (GRANITE) (TD REACHED: 08/05/94); PROD TEST(S): PERF (FORT APACHE) 1300-1704 W/4 PF
GROSS, FLWD 500-715 MCFG(CO2), 380 BW/40 DAY PROD TEST PERIOD PRODUCING INTERVAL(S) DATA: PERF (FORT APACHE) 1300-1704 W/4
PF GROSS IP NOT RPTD 2431 TD COMP 3/1/95(EST), GAS WELL PROD ZONE - FORT APACHE 1300-1704(GROSS) NO CORES, TWO
DSTS HOLDING FOR DATA (FORT APACHE DISCOVERY - NEW FIELD) (LDIR 03/13/95)

initial
Est.

initial
Est

COLORADO

BOULDER COUNTY

VESSELS O&G
1 DONIPHAN SHIELDS
API 05-013-06029-0002

11-1N-69W
SW NE NE
990 FNL 990 FEL

WATTENBERG; PERMIT #79-1419; CODELL, (FR DN) OPER ADD: 1050
17TH ST STE 2000, DENVER, CO, 80265 PHONE (303) 825-3500; EL: 4981 GR;
OWWO: OLD INFO: FORMERLY VESSELS O&G 1 DONIPHAN SHIELDS. SPUD
2/25/92. TD 8215. COMP 3/13/92. IPF 24 BCPD, 61 MCFGPD, NO WTR. PROD
ZONE: CODELL 7663-7679, J SAND 8106-8116. COMMINGLED.

DG
GAS

CONTR: NOT RPTD; SPUD: 05/12/94, LOG TYPES: CBL, FDL, MSFL; 8215 TD, (J SAND); PRODUCING INTERVAL(S) DATA: PERF (J SAND)
8106-8116 W/3 PF, PERF (CODELL) 7663-7679 W/4 PF, PERF (NIOBRARA) 7320-7562 W/4 PF, SGFR (8106-8116) W/ 123396 GALS, 209000 LBS SAND,
20/40 SD SGFR (7320-7562) W/ 117600 GALS, 300000 LBS SAND, 20/40 SD, 8215 TD COMP 6/4/94, IPF 3 BC, 52 MCFGPD, 7 BWP, GOR 17333,
FTP 150, FCP 560 PROD ZONE - J SAND 8106-8116 CODELL 7663-7679 NIOBRARA 7320-7562 COMMINGLED NO CORES OR DSTS
FIRST REPORT & COMPLETION

VESSELS O&G
2 DONIPHAN SHIELDS
API 05-013-06104-0002

11-1N-69W
NE SW NW
1236 FNL 1190 FWL

WATTENBERG; PERMIT #82-2025; J SAND, (FR DN) OPER ADD: 1050
17TH ST STE 2000, DENVER, CO, 80265 PHONE (303) 825-3500; EL: 4996 GR;
OWWO: OLD INFO: FORMERLY VESSELS O&G 2 DONIPHAN SHIELDS. SPUD
1/30/92. TD 8250. COMP 2/7/92. IPF 55 BCPD, 411 MCFGPD, NO WTR. PROD
ZONE: CODELL 7540-7660, J SAND 8082-8094. COMMINGLED;

DG
GAS

CONTR: NOT RPTD; SPUD: 05/15/94 (EST), 8250 TD, (J SAND); PRODUCING INTERVAL(S) DATA: PERF (J SAND) 8082-8094 W/4 PF, PERF
(CODELL) 7540-7660 W/4 PF, PERF (NIOBRARA) 7550-7930 W/4 PF, SGFR (7550-7930) W/ 92946 GALS, 300000 LBS SAND, 20/40 SD, 8250 TD COMP
2/7/92, IPF 12 BCPD, 124 MCFGPD, NO WTR, GOR 10333, FTP 490, FCP 590 PROD ZONE - J SAND 8082-8094 CODELL 7540-7660
NIOBRARA 7550-7930 COMMINGLED NO CORES OR DSTS FIRST REPORT & COMPLETION

VESSELS O&G
1 SHAFFER NEWMAN 'H' UNIT
API 05-013-06107-0002

13-1N-69W
NE SW SW
990 FSL 990 FWL

WATTENBERG; PERMIT #81-2311; J SAND, (FR DN) OPER ADD: 1050
17TH ST STE 2000, DENVER, CO, 80265 PHONE (303) 825-3500; EL: 5090 GR;
OWWO: OLD INFO: FORMERLY VESSELS O&G 1 SHAFFER-NEWMAN H UNIT.
SPUD 3/11/92. TD 8350. COMP 3/25/92. IPF 17 BC, 141 MCFGPD, 1 BWP.
PROD ZONE: CODELL 7852-7869, J SAND 8272-8283. COMMINGLED;

DG
GAS

CONTR: NOT RPTD; SPUD: 04/05/94, 8350 TD, (J SAND); PRODUCING INTERVAL(S) DATA: PERF (J SAND) 8272-8283 W/4 PF, PERF (CODELL)
7852-7869 W/4 PF, PERF (NIOBRARA) 7513-7734 W/4 PF, SGFR (7513-7734) W/ 95676 GALS, 320000 LBS SAND, 20/40 SD, 8350 TD COMP 4/19/94,
IPF 11 BC, 280 MCFGPD, 2 BWP, GOR 25455, FTP 120, FCP 400 PROD ZONE - J SAND 8272-8283 CODELL 7852-7869 NIOBRARA
7513-7734 COMMINGLED NO CORES OR DSTS FIRST REPORT & COMPLETION

VESSELS O&G
13-1 WIGGETT WARREN H
API 05-013-06052-0002

13-1N-69W
SW NE NE
880 FNL 1020 FEL

WATTENBERG; PERMIT #81-185; CODELL, (FR DN) OPER ADD: 1050
17TH ST STE 2000, DENVER, CO, 80265 PHONE (303) 825-3500; EL: 5018 GR;
OWWO: OLD INFO: FORMERLY VESSELS O&G 13-1 WARREN WIGGETT. SPUD
3/11/92. TD 8306. COMP 3/20/92. IPF 26 BC, 183 MCFGPD, 4 BWP. PROD
ZONE: CODELL 7784-7804, J SAND 8228-8240. COMMINGLED;

DG
GAS

CONTR: NOT RPTD; SPUD: 01/31/94, LOG TYPES: CBL; 8378 TD, (J SAND); PRODUCING INTERVAL(S) DATA: PERF (J SAND) 8228-8240 W/4
PF, PERF (CODELL) 7784-7804 W/4 PF, PERF (NIOBRARA) 7393-7669 W/4 PF, SGFR (7393-7669) W/ 104748 GALS, 320000 LBS SAND, 20/40 SD, 8378
TD COMP 6/15/94, IPF 3 BC, 53 MCFGPD, 2 BWP, GOR 17666, FTP 490, FCP 540 PROD ZONE - J SAND 8228-8240 CODELL 7784-7804
NIOBRARA 7393-7669 COMMINGLED NO CORES OR DSTS FIRST REPORT & COMPLETION



RIDGEWAY PETROLEUM CORP.

1080, 700 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 3J4
TELEPHONE: (403) 266-6362 FAX: (403) 262-5294

U.S. SUBSIDIARY - RIDGEWAY ARIZONA OIL CORP.

December 12, 1994

Arizona Geological Survey
State of Arizona
845 North Park Avenue, #100
TUSCON, Arizona 85719



Attention: Mr. Steven L. Rauzi
Oil & Gas Program Administrator

Dear Sir:

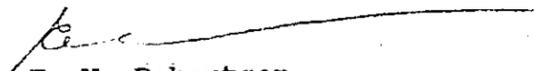
RE: AMENDED ORGANIZATION REPORT

Further to your letter to this office dated November 29, 1994, we are enclosing herewith an amended Organization Report.

We trust your will find this in order but should additional information be necessary please do not hesitate to call.

Yours truly,

RIDGEWAY ARIZONA OIL CORP.


E. M. Robertson,
Secretary

encl.

/m

OTHER WESTERN STATES: STATE OF ARIZONA

BLACK ROCK APACHE COUNTY

**Harken Southwest Corp. "Black Rock" 7X MAP:AZ
17-40N-29E, Fr SW cor 1572'E 1750'N 02-001-20296
(Navajo Tribal Lease #NOG-8707-1142) (SER-II-DEV)
Waiting on Navajo Reservation permit. elev:6695'GR
6176'-est.td

ST JOHNS

*Ridgeway Arizona Oil Corp "R/C Plateau Cattle" 1
15-12N-29E, Fr NE cor 3023'S 3564'W 02-001-20295
9-5/8c.150 7c.722 4-1/2c.1830 MAP:AZ elev:6372'GR
Lease Name: "Ridgeway Canstar Plateau Cattle"
S-07/23/94(L&B Speedrill) Int:1400-1720' (NEW)
2413 Flow tested for 700 MCF/D, 0.65% helium,
91.5% carbon dioxide, 0.2% argon, with drop in
pressure. Currently running 30 day flow test.
3055-est.td

*Ridgeway Arizona Oil Corp "R/C Plateau Cattle" 1-22
22-12N-28E, MAP:AZ
Plan to drill one of the remaining locations near
around the end of January.

*Ridgeway Arizona Oil Corp "R/C Plateau Cattle" 1-3
3-11N-29E, MAP:AZ
Will apply for permit to drill a delineation well
up the structure from the discovery well to check
for gas. Rig will come from Flagstaff, AZ.

*Ridgeway Arizona Oil Corp "R/C Plateau Cattle" 1A-15
15-12N-29E, Fr NE cor 2983'S 3583'W 02-001-20298
7-5/8c.195 MAP:AZ elev:6372'GR 220'-est.td
(Lease Name: Ridgeway/Canstar Plateau Cattle)
S-11/25/94(United Drig of Roswell, NM) status:DRY
220 TD. Drid to test for a shallow aquifer found
while drig first well. Found nothing. ABANDONED.
May deepen and use for water disposal.

STATE OF NEVADA

DIXIE VALLEY CHURCHILL COUNTY

Oxbow Geothermal Corp. "Dixie Valley" 32-15
15-24N-36E, NE-1/4 NW-1/4 27-001-90236 MAP:NV
Issued permit #413PA. (OBSERVATION)

SUSIE CREEK ELKO COUNTY

*Petroleum Corp of NV "AV" 10-5 27-007-05253
10-36N-54E, Fr NW cor 2524'S 660'E MAP:NV (NEW)
elev:6174'GR S-09/12/94(Transwestern Drig)
???? Active, "tight hole". 13,000'-est.td

TROUT CREEK

*Foreland Corp. "Trout Creek" 26-1 27-007-05254
26-30N-52E, Fr SW cor 2727'N 1388'E MAP:NV (NEW)
Federal lease N-43782 elev:5473'GR 7000'-est.td
S-11/24/94(Cardinal Drig Co #4)
???? Drilling.

ANTELOPE VALLEY EUREKA COUNTY

*Foreland Corp. "Hot Creek Wash Federal" 15-1
15-18N-50E, Fr SW cor 100'N 990'E 27-011-05286
Federal lease N-54864 MAP:NV elev:6298'GR
Permit #745 issued. 6000'-est.td (NEW)

RAILROAD VALLEY (cont.) NVE COUNTY (cont.)

*Equitable Res Energy Co "West Valley Fed" 34-18
18-6N-56E, Fr SE cor 1000'N 2000'W 27-023-05520
?c.600 MAP:NV elev:4713'GR 5000'-est.td (NEW)
Federal lease N-52148
S-11/28/94(Cardinal Drig Co #12)
???? Drilling, no details.

SANS SPRING

**Amerada Hess Corp. "Federal" 11-14 MAP:NV
14-7N-56E, Fr SW cor 1460'N 1920'E elev:4705'GR
Federal lease N-47646 5000'-est.td (EST)
Applied for permit.

**Cenex, Inc. "Federal" 14-11 27-023-05516 MAP:NV
11-7N-56E, Fr SW cor 1630'E 400'N elev:4708'GR
Federal Lease N-47646 6265'-est.td (SER-II-DEV)
Issued permit #736.

**Cenex, Inc. "Federal" 8-7 MAP:NV elev:4721'GR
7-8N-56E, Fr NE cor 1920'S 902'W (SER-II-DEV)
Federal lease N-52148
Notice of staking.

WHITE RIVER VALLEY

*Connolly Exploration Inc. "Fox Mountain" 4-1
4-4N-62E, NW-1/4 MAP:NV 5500'-est.td (NEW)
Federal lease N-58832
Notice of staking.

*Connolly Exploration Inc. "Gap Mountain" 33-1
33-5N-62E, NW-1/4 MAP:NV 5500'-est.td (NEW)
Federal lease N-58-049
Notice of staking.

DIXIE VALLEY

*Ouida Oil, Inc. "Ouida Federal Dixie" 1 MAP:NV
25-25N-37E, Fr NW cor 845'S 415'E 27-027-05003
Federal lease N-41325 elev:3492'GR 6500'-est.td
Rigging up. Plan to spud next week. (NEW)

KYLE SPRING

*Evans-Barton, Ltd "Kyle Spring" 12-13 MAP:NV
12-29N-36E, Fr SW cor 1997'N 897'E 27-027-05002
Federal lease N-50388 elev:4483'GR 1000'-est.td
S-08/11/94(Tonto Drig) (NEW)
1162. Evaluated. Standing.

CHERRY CREEK

*Hunt Oil Co of NV "Cherry Creek Unit" USA 1
18-25N-64E, SE cor 1980'N 1855'W 27-033-05285
Will not be drilled at this time. MAP:NV (NEW)
elev:5971'GR 17,500'-est.td

JAKE'S VALLEY

*ARCO Oil & Gas Co. "Bobcat" 1-29 27-033-05295
29-16N-61E, Fr SW cor 365'N 1780'E MAP:NV (NEW)
Federal lease N-57677 elev:7105'GR 8500'-est.td
Permit #715 approved.

LONG VALLEY

*Pioneer Oil & Gas "Grubstake" 16-1 MAP:NV
16-21N-57E, Fr SE cor 195'N 2301'W elev:6939'GR
Federal Lease N-50656 (NEW)
Notice of staking.

STEPHENS VALLEY

*Trio Petroleum Inc. "Federal" 54X-36 MAP:NV



File Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

December 7, 1994

Mr. Walter B. Ruck, President
Ridgeway Arizona Oil Corporation
1080, 700-4th Avenue S.W.
Calgary, Alberta T2P 3J4

Re: Blanket Performance Bond Coverage for
Ridgeway Arizona Oil Corporation

Dear Walter:

The securities safekeeping deposit receipt for your \$15,000 certificate of deposit and my memorandum to the bonding file concerning the status of your blanket performance bonding in Arizona are enclosed for your file.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosure

OTHER WESTERN STATES: STATE OF ARIZONA

BLACK ROCK APACHE COUNTY

**Harken Southwest Corp. "Black Rock" 7X MAP:AZ
17-40N-29E, Fr SW cor 1572'E 1750'N 02-001-20296
(Navajo Tribal Lease #NOG-8707-1142) (SEMI-DEV)
Waiting on Navajo Reservation permit. elev:6695'GR
6176'-est.td

**Harken Southwest Corp. "NAV" 20 02-001-20297
7-40N-29E, Fr SE cor 1200'N 700'W MAP:AZ (EXT)
Federal lease NDG 8707-1141 elev:5990'GR
5476' Paradox-est.td
Waiting on Navajo Reservation permit.

ST JOHN

Ridgeway Arizona Oil Corp. "R/C Plateau Cattle" 1-15
15-12N-29E, MAP:AZ (United Drlg of Roswell, NM)
(Lease Name: Ridgeway/Canstar Plateau Cattle)
Will apply for permit to drill this twin well to
the "R/C Plateau Cattle" helium gas field
discovery. Rig will come from Flagstaff, AZ.

*Ridgeway Arizona Oil Corp. "R/C Plateau Cattle" 1-22
22-12N-29E, MAP:AZ
Will apply for permit to drill a delineation well
further down the formation to check for
hydrocarbons. Rig will come from Flagstaff, AZ.

*Ridgeway Arizona Oil Corp. "R/C Plateau Cattle" 1-3
3-11N-29E, MAP:AZ
Will apply for permit to drill a delineation well
up the structure from the discovery well to check
for gas. Rig will come from Flagstaff, AZ.

BRADY BOB SPRINGS STATE OF NEVADA
CHURCHILL COUNTY

Brady Power Partners "1" 38-1 27-001-90232
1-22N-26E, SE-1/4 SW-1/4 MAP:NV 3000'-est.td
Permit #391 issued.

DIXIE VALLEY

Oxbow Geothermal Corp. "14" 36(13)-14 MAP:NV
14-24N-36E, NE-1/4 SW-1/4 27-001-90229
S-noon-05/04/94(VECO Drlg Co #10) 10,600'-est.td
11069 Drilled. Monitoring well. (Note corrected
depth).

DIAMOND VALLEY ELKO COUNTY

*Cenex, Inc. "5" 16-5 27-007-05252 MAP:NV
5-27N-56E, Fr SE cor 660'N 660'W elev:5955'GR
Federal lease N-43748 6000'-est.td (NFW)
Issued permit #716.

SUSIE CREEK

*Petroleum Corp of NV "AV" 10-5 27-007-05253
10-36N-54E, Fr NW cor 2524'S 660'E MAP:NV (NFW)
elev:6174'GR S-09/12/94(Transwestern Drlg)
???? Drilling "tight hole". 13,000'-est.td

TROUT CREEK

*Foreland Corp. "Trout Creek" 26-1 MAP:NV
26-30N-52E, Fr SW cor 2727'N 1386'E elev:5473'GR
Federal lease N-43782 (NFW)
Notice of staking.

FISH LAKE ESMERALDA COUNTY

Fish Lake Power Co. "13" 81-13 27-009-90037
13-18-35E, NE-1/4 NW-1/4 MAP:NV 10,000'-est.td
Permit #362 issued.

ANTELOPE VALLEY EUREKA COUNTY

*Foreland Corp. "Cedar Creek" 1-1 27-011-05284
1-17N-50E, Fr SW cor 4148.5'E 2668'N MAP:NV (NFW)
Federal lease N-42341 elev:6269'GR 6000'-est.td
Permit #720 issued.

EAGLE SPRINGS NIJE COUNTY

Foreland Corp "Eagle Springs/Plains Petroleum" 24-36
36-9N-57E, Fr NW cor 2354'S 990'E 27-023-05517
Federal lease N-42341 MAP:NV elev:4775'GR
Issued permit #737. 7500'-est.td

**Foreland Corp. "Eagle Springs" 42-36 27-023-05508
36-9N-57E, Fr NW cor 933'S 2239'E MAP:NV
Federal lease N-42341 elev:4786'GR 7000'-est.td
(Cardinal Drlg Co #2) (SEMI-DEV)
Contract assigned.

Foreland Corp "Eagle Springs" 54-35 27-023-05509

SANS SPRING (cont) NIJE COUNTY (cont)

**Cenex, Inc. "Federal" 14-11 27-023-05516 MAP:NV
11-7N-56E, Fr SW cor 1630'E 400'N elev:4708'GR
Federal Lease N-47646 6265'-est.td (SEMI-DEV)
Issued permit #736.

TRAP SPRING

**Makoll, Inc. "Timson Ranch" 11-44 27-023-05486
11-9N-56E, Fr SE cor 430'N 330'W MAP:NV
Federal lease N-1134A elev:4788'GR 3000'-est.td
S-06/11/94(Company Rig) (SEMI-DEV)
3525 Suspended operations.

WILLOW SPRINGS

*Foreland Corp. "Willow Springs" 34-31 MAP:NV
31-7N-57E, Fr SE cor 350'N 1900'W 27-023-05511
(Federal Lease N-52612) elev:4709'GR (NFW)
S-09/03/94(Cardinal Drlg Co #2) 6100'-est.td
???? Drilling, no details.

KYLE SPRING FERSHING COUNTY

*Evans-Barton, Ltd "Kyle Spring" 11-14 MAP:NV
11-29N-36E, Fr SW cor 660'N 660'E (NFW)
Federal lease N-58388
Notice of staking.

*Evans-Barton, Ltd "Kyle Spring" 11-43 MAP:NV
11-29N-36E, Fr SE cor 1980'N 660'W (NFW)
Federal lease N-58388
Notice of staking.

*Evans-Barton, Ltd "Kyle Spring" 12-13 MAP:NV
12-29N-36E, Fr SW cor 1997'N 897'E 27-027-05002
Federal lease N-58388 elev:4483'GR 1000'-est.td
S-08/11/94(Tonto Drlg) (NFW)
1162 Released rig 8/24/94. Temporarily abandoned.
May re-enter later on to complete.

*Evans-Barton, Ltd "Kyle Spring" 15-22 MAP:NV
15-29N-36E, Fr NW cor 1980'S 1980'E (NFW)
Federal lease N-58393
Notice of staking.

SAN EMIDIO WASHOE COUNTY COUNTY

San Emidio Resources, Inc. "10" 18-10 MAP:NV
10-32N-23E, SW-1/4 SW-1/4 27-031-90189
(Buckland Drlg) (OBSERVATION)
Contract assigned. Waiting on BLM permits.

STEAMBOAT SPRINGS

S.B. Geothermal, Inc. "29" GTH 75-29 27-031-90171
29-16N-20E, NE-1/4 SE-1/4 MAP:NV 1500'-est.td
Permit #385 issued.

BUCK STATION WHITE PINE COUNTY

*Frontier Expl Co. "Buck Station" 17-A MAP:NV
17-22N-56E, Fr NW cor 1300'S 540'E 27-033-05294
Federal lease N-44839 elev:5977'GR 4750'-est.td
Location. (NFW)

CHERRY CREEK

*Hunt Oil Co of NV "Cherry Creek Unit" USA 1
18-25N-64E, SE cor 1980'N 1855'W 27-033-05285
will not be drilled at this time. MAP:NV (NFW)
elev:5971'GR 17,500'-est.td

JAKE'S VALLEY

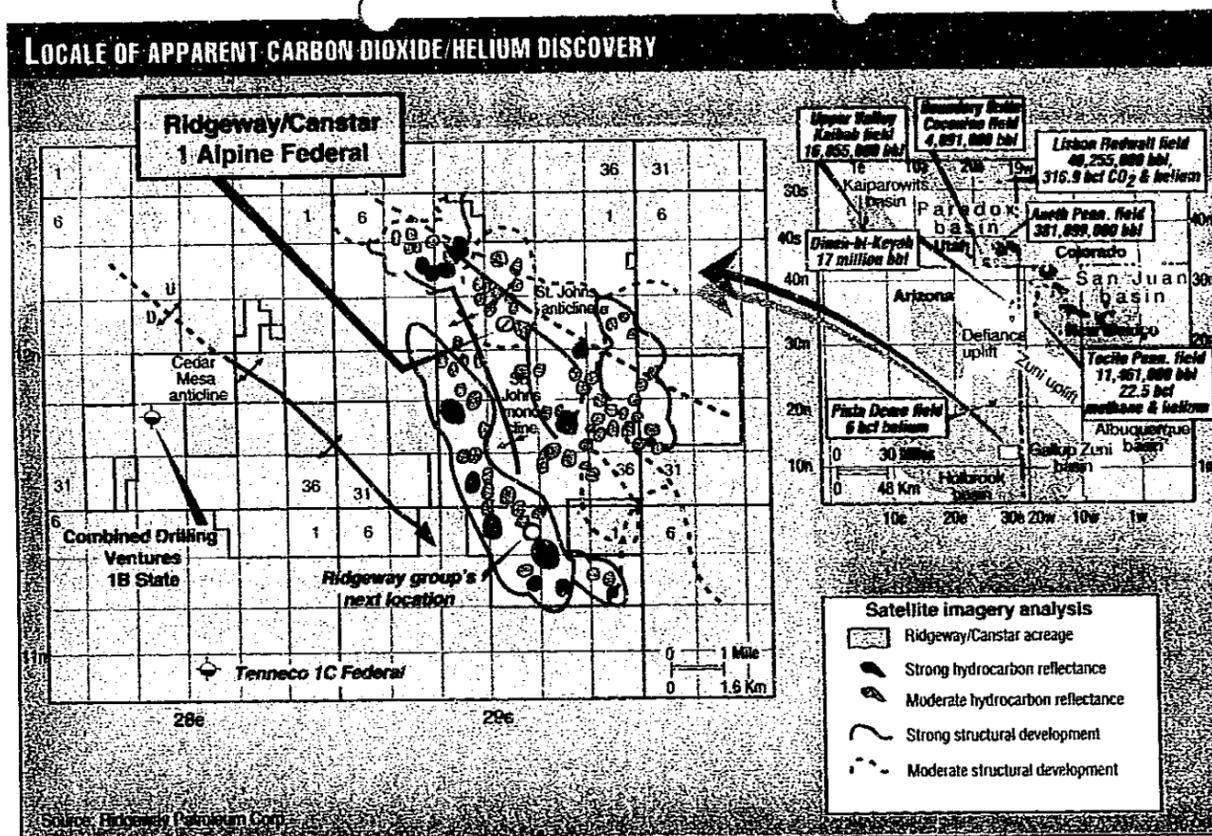
*ARCO Oil & Gas Co. "Bobcat" 1-29 27-033-05295
29-16N-61E, Fr SW cor 365'N 1780'E MAP:NV (NFW)
Federal lease N-57677 elev:7105'GR 8500'-est.td
Permit #715 approved.

LONG VALLEY

*Pioneer Oil & Gas "Grabstake" 16-1 MAP:NV
16-21N-57E, Fr SE cor 195'N 2301'W elev:6939'GR
Federal Lease N-50656 (NFW)
Notice of staking.

MIST STATE OF OREGON
COLUMBIA COUNTY

*Nahama & Weagant Energy Co. "Hameon" 13-14-65
14-01-51, Fr SW cor 4148.1618'N 36-000-00316



More drilling due near Arizona CO₂/helium strike

Further drilling is planned to evaluate an apparent carbon dioxide and helium discovery in East Central Arizona.

A group led by Ridgeway Arizona Oil Corp., a subsidiary of Ridgeway Petroleum Corp., Calgary, will attempt to complete the apparent discovery from eight intervals between 1,450 ft and 1,710 ft in Permian Supai. The well is the Ridgeway/Canstar 1 Plateau Cattle Co., 15-12n-29e, Apache County (OGJ, July 4, p. 66).

Site is 50 miles southeast of inactive Pinta Dome and Navajo Springs helium fields. Helium at about \$50/Mcf is a prize, and carbon dioxide at about \$1/Mcf could also be quite valuable.

The Plateau Cattle Co. structure, which covers 20,000 acres, appears large enough for possible connection to supply CO₂ enhanced oil recovery projects in the Permian basin and perhaps elsewhere, the operating group said.

Production would require about 220 miles of pipeline to connect near Bernalillo, N.M., with an existing CO₂ pipeline running from McElmo Dome field in Southwest Colorado to EOR projects in West Texas.

Indicated discovery

The Ridgeway group drillstem tested Supai intervals at 1,410-79 ft and 1,680-1,720 ft in 1 Plateau Cattle Co.

The shallower dolomite zone, with 31% porosity based on logs, flowed 243 Mcfd of gas with 39 psi drawdown. The zone was slugging filtrate water from a salt based potassium chloride mud designed to keep from dissolving salts in upper Supai during drilling.

The lower zone, which had an estimated 16% porosity in dolomites, flowed about 162 Mcfd of gas.

Logs indicate that 180 ft of the 210 ft of dolomites in the well contain gas. The group expects a calculated absolute open flow of 3-4 MMcfd.

The gas is 90% CO₂, 0.5-0.8% helium, and 6% nitrogen.

Reservoir quality is termed excellent in every zone, including beach sand in Permian Glorieta (Coconino). Small components of ethane and methane indicate oil might be present in a

deeper formation. Surface soil gas contained hydrocarbons up to C₅ (pentane) that the group believes came from oil, said John Somers, a Denver engineer working with the group.

Delineation plans

Total depth of the apparent discovery well is 2,431 ft. Casing has been cemented for production tests.

Pennsylvanian was absent. Drilling progressed from Permian Abo into granite wash, then granite.

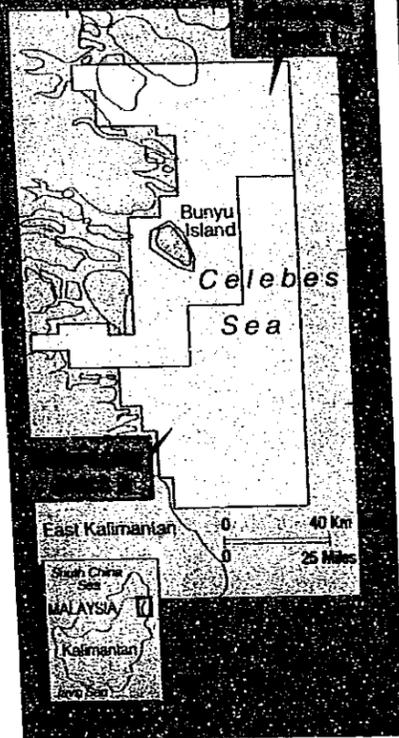
The well is on the St. Johns anticline, a 20,000 acre surface structure with 400 ft of surface structural closure on the southeast edge of the Holbrook basin.

The operator plans to follow up with a 4 mile south step-out in 3-11n-29e, near the structure's crest.

It also plans to drill a twin to the apparent discovery well to test a sandstone interval at 200-210 ft with 22-26% porosity that appears to contain gas. This zone, Triassic Chinle or Moenkopi, was too shallow to test in the first well.

The group wants to drill in 22-12n-28e on the Cedar Mesa anticline to

AVAILABLE TRACTS



in July (OG), Aug. 1, p. 26).

An area around Bunyu Island in Sebawang I is being withheld from the bidding round because of existing production.

By classifying the Sebawang acreage as conventional, Pertamina is denying potential foreign investors in the tracts a package of incentives disclosed late in 1993 for frontier prospects. The incentives allow contractors larger shares of equity hydrocarbons from commercial fields and higher prices for the first batch of petroleum withheld by Pertamina before contractors recover operating costs.

Companies that want to assess the Sebawang acreage have until Oct. 21 to buy packages of technical data from the resources and ventures development subdivision of Pertamina's exploration and production directorate in Jakarta. There is a \$5,000 fee to gain access to the data and a \$5,000-10,000 fee to buy the data in preparation for bidding.

Data packets include results of seismic surveys and other geophysical data, well data, reservoir information, and reserve estimates.

Bids for the Sebawang blocks are to be submitted, along with statements of technical and financial capabilities, by 11 a.m., Nov. 25. Pertamina will announce winning bidders in December 1994 or January 1995.

WATCHING THE WORLD



With David Knott from London

Layoffs not always the answer

The Offshore Northern Seas conference in Stavanger last month was the first major event to my knowledge to feature a session on human resources.

This struck me as evidence that layoffs have joined supply and demand, new technologies, and taxes among the front line concerns of operators.

Axing staff is unpleasant and so generally discussed in euphemisms. One conference paper used the term "rightsizing."

Previous buzzwords have been streamlining, restructuring, reengineering, and downsizing. One delegate told me rightsizing is already out of date in Houston. U.S. companies apparently now say they are undergoing transformation.

"Some companies are going through their third, fourth, and even fifth cutback in an effort to boost profits," said Harald Norvik, chief executive and president of Norway's Den norske stats oljeselskap AS. "No oil company can count on increased oil prices to maintain profitability. Low costs are equally important."

Amoco's dilemma

Miriam E. Kragness, principal at ROI Consultants Inc., Minneapolis, asked why Amoco Corp. is undergoing a second wave of layoffs, having cut 8,500 jobs in 1992.

Kragness said the most obvious clue was an Amoco statement issued last June. This said despite the 1992 restructuring, earnings at Amoco lagged the results the company posted from 1988 to 1990.

"When a significant reduction in payroll fails to affect the profitability

of a company," Kragness said, "chances are losses of another kind have wiped out the effect: losses due to cost of layoffs, lowered productivity, and malaise."

Second layoffs only deepen the malaise, Kragness said. Productivity is less likely to recover after a second layoff than after a first.

"Further, the CEO has announced the restructuring without announcing details, allowing present employees to grow more fearful and rumors to fly while they wait for more explicit information."

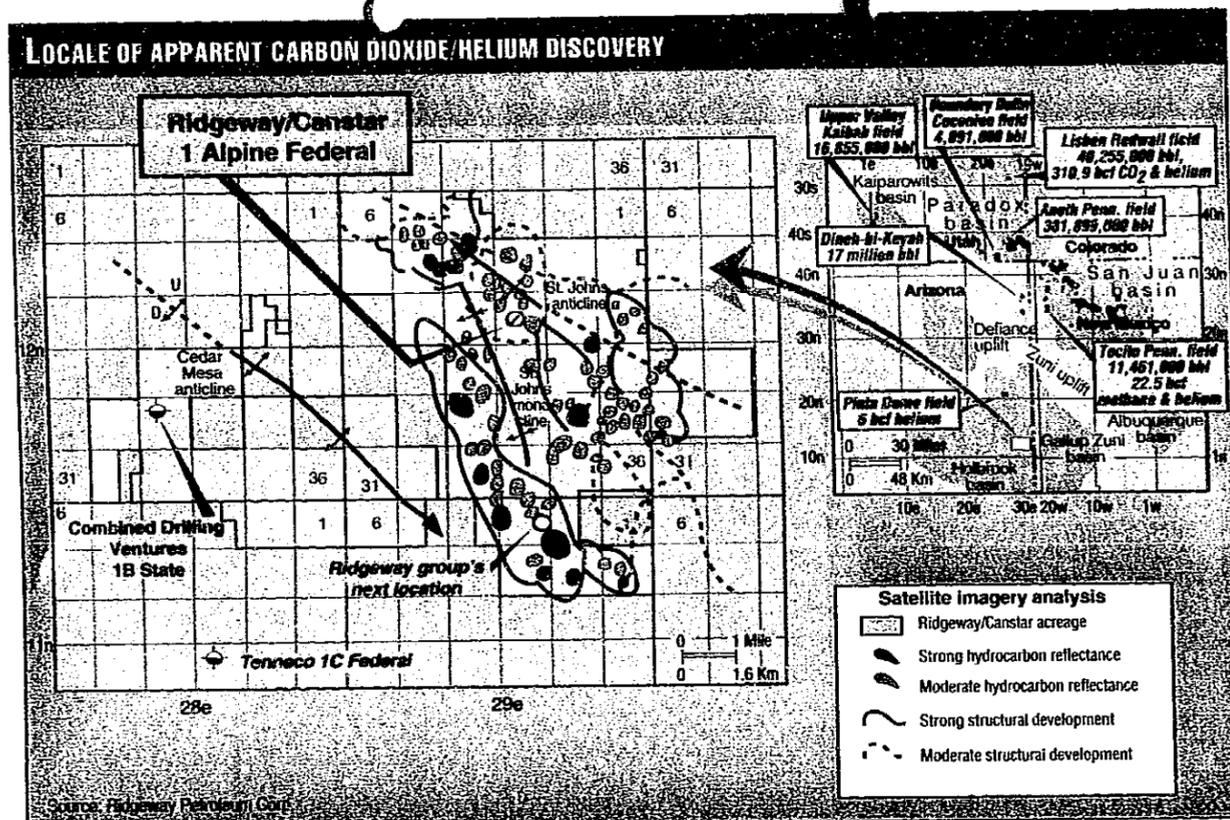
Layoff teams

John Hollis, general manager at BP Norge AS, said experience has shown it essential to appoint a transition management team (TMT) for major layoffs. The team should be made up of senior staff who work full time on the change.

"When the job is done the TMT disbands," Hollis said. "The leader of this group must have talent and the respect of staff, must have a clear understanding of the long term vision of the company, a thorough knowledge of the business, and have the confidence of the CEO."

In view of Kragness' warning, it presumably helps if the leader and other members of the TMT have jobs to move on to when the TMT is broken up.

"The loss of jobs in the oil companies over the last decade is more than 500,000, most of them in the U.S.," Norvik said. "Luckily, not everyone made redundant from the oil companies has left the industry. We often meet them in a new capacity."



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A group led by Ridgeway Arizona Oil Corp., a subsidiary of Ridgeway Petroleum Corp., Calgary, will attempt to complete the apparent discovery from eight intervals between 1,450 ft and 1,710 ft in Permian Supai. The well is the Ridgeway/Canstar 1 Plateau Cattle Co., 15-12n-29e, Apache County (OGJ, July 4, p. 66).

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Production would require about 220 miles of pipeline to connect near Bernalillo, N.M., with an existing CO₂ pipeline running from McElmo Dome field in Southwest Colorado to EOR projects in West Texas.

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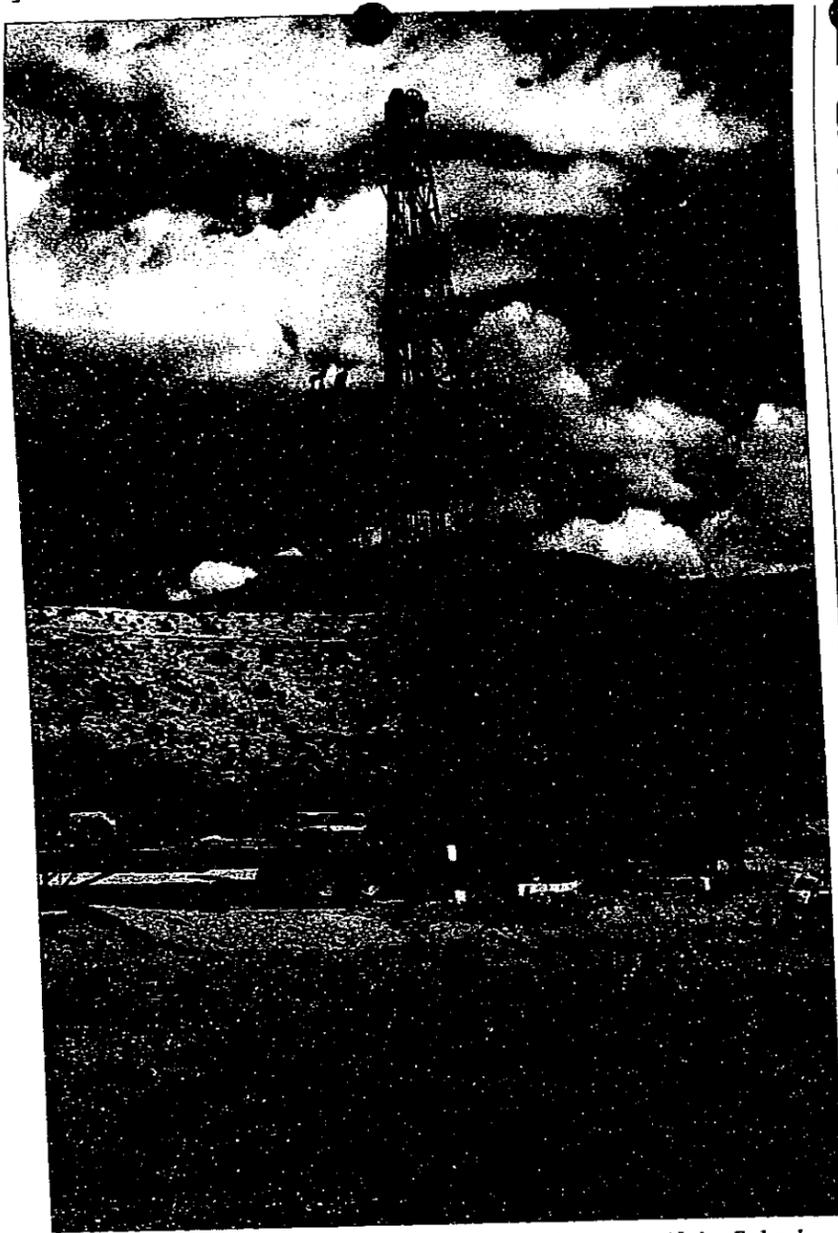
Pennsylvanian was absent. Drilling progressed from Permian Abo into granite wash, then granite.

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It also plans to drill a twin to the apparent discovery well to test a sandstone interval at 200-210 ft with 22-26% porosity that appears to contain gas. This zone, Triassic Chinle or Moenkopi, was too shallow to test in the first well.

The group wants to drill in 22-12n-28e on the Cedar Mesa anticline to



Blue rig of L&B Speed Drill, Farmington, N.M., drilled the 1 Alpine Federal, an apparent heliumcarbon dioxide discovery near Arizona's Chalk Buttes. Photo courtesy of John Somers.

determine whether Pennsylvanian zones may be present and whether pentane in soil samples may be coming from an oil source that is structurally lower than the initial test.

Several years ago a 1,676 ft Tenneco Oil Co. well in 22-11n-28e found oil shows in three Permian objectives, and a 3,296 ft Combined Drilling Ventures well in 28-12n-28e had oil shows in Coconino, Supai, and Pennsylvanian.

Lack of rigs in the busy Four Cor-

ners area may delay further drilling. Most nearby rigs have only a 2,000 ft depth capacity, and New Mexico weight limits on highways drive up the cost of moving in a large rig from the San Juan basin to \$50,000.

The group also has leased the 6,700 acre Coyote Creek anticline southeast of the St. Johns anticline, bringing its holdings in the area to 36,700 acres. Working interests are Ridgeway and Canstar Ventures Corp., Calgary, 40% each, Frank L. Shogrin, Denver, 15%, Cobb Resources, West Columbia, Tex., 3%, and Keith Allen, Calgary, 2%.

BP finds major gas/condensate field in Colombia

BP Exploration has found a world class natural gas/condensate field in Colombia it says could more than double the country's usable gas reserves.

BP's current midrange estimate of the find's recoverable reserves is 5 tcf of gas and 250 million bbl of condensate. The 1 Volcanera wildcat, completed at yearend 1993, tapped a massive reservoir that straddles the boundary between the Recetor block and the Piedemonte acreage to the north. Former Recetor block operator Maxus Energy Corp.'s drillstem tests of that wildcat yielded a combined 9.4 MMcfd of gas and 326 b/d of condensate (OGJ, Oct. 11, 1993, p. 35). BP acquired a majority interest in Recetor from Maxus for \$10 million last year, with Maxus retaining an override (OGJ, Dec. 13, 1993, p. 27). It operates and holds a 63.33% interest in the Recetor association contract. Remaining interests are held by Deilmann Erdol Erdgas 20% and Inaquimicas 16.67%. BP owns the Piedemonte association contract 100%. The discovery well on Recetor block in the Llanos foothills of eastern Colombia established a reservoir thickness of 650 ft.

A later seismic survey confirmed a structure as much as 25 km long and 5 km wide, mostly within the Piedemonte block. The 1 Pauto Sur appraisal well is under way to determine the field's northern extent, and the 2 Volcanera appraisal is planned for the southern portion this year.

Domestic gas market

BP Exploration Chief Executive John Browne noted gas demand in Colombia is forecast to grow by 10%/year the next 5-10 years and said BP is pursuing gas market opportunities in industrial and domestic sectors as well as power generation. Colombian gas consumption currently is 400 MMcfd and expected to reach 1 bcf by 2000 under a \$3 billion plan by state petroleum company Empresa Colombiana de Petroleos (Ecopetrol) to expand the nation's gas infrastructure.

Ecopetrol estimates Colombia's gas reserves at 7.5 tcf. However, BP noted that all but about 3.4 tcf of that is contained in the company's Cusiana-Cupiaga oil field complex about 35 km southwest and is to be reinjected for reservoir pressure maintenance there. BP said Volcanera gas also could be injected at Cusiana for gas lift.



RIDGEWAY PETROLEUM CORP.

1080, 700 - 4th AVENUE S.W., CALGARY, ALBERTA T2P 3J4
TELEPHONE: (403) 266-6362 FAX: (403) 262-5294

U.S. SUBSIDIARY - RIDGEWAY ARIZONA OIL CORP.

August 31, 1994

Arizona Geological Survey
845 N. Park Ave., No. 100
Tucson, Arizona 85719

**AZ OIL & GAS
CONSERVATION COMMISSION**

SEP 1 1994

**ATTENTION: Mr. Steven L. Rauzi,
Oil & Gas Program Administrator**

Dear Sir:

**RE: RIDGEWAY/CANSTAR PLATEAU CO. #1
APACHE COUNTY, ARIZONA**

Enclosed please find the following:

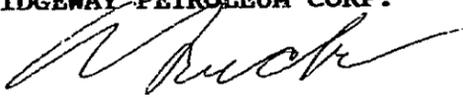
1. Mud Log - Jim Bales
2. Geological Report - Alan Emmendorfer
3. Drill Stem Test #1 - Baker Oil Tool
4. Drill Stem Test #2 - Baker Oil Tool
5. 1 set of logs - Halliburton
6. Well and Reserve Estimate - John Somers II
7. Gas Analysis - U.S. Bureau of Mines

Completion information will be forwarded when it is available.

Please call if you have any questions.

Yours sincerely,

RIDGEWAY PETROLEUM CORP.


Walter B. Ruck,
President

encl.

/m

www.ridgeway.com



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

August 29, 1994

Mr. G. Alan Petzet
Exploration Editor
Oil & Gas Journal
P. O. Box 1260
Tulsa, Oklahoma 74101

Re: Photos of recently drilled well in eastern Arizona

Dear Alan:

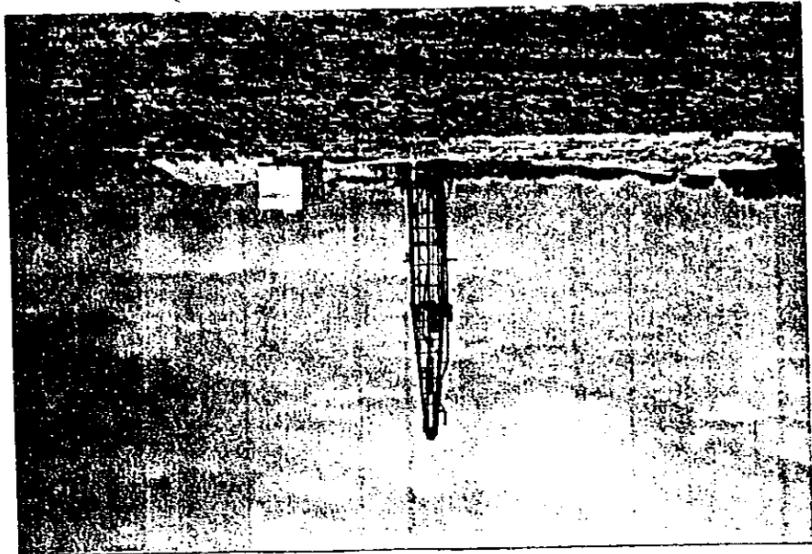
John Somers called me today and asked if I would send some of the pictures that I took of the Ridgeway/Canstar Plateau Cattle Company No. 1 well to you. I said of course. Three of my shots showing the well and the scenery around the well are enclosed. L & B Speed Drill out of Farmington was the contractor on this hole.

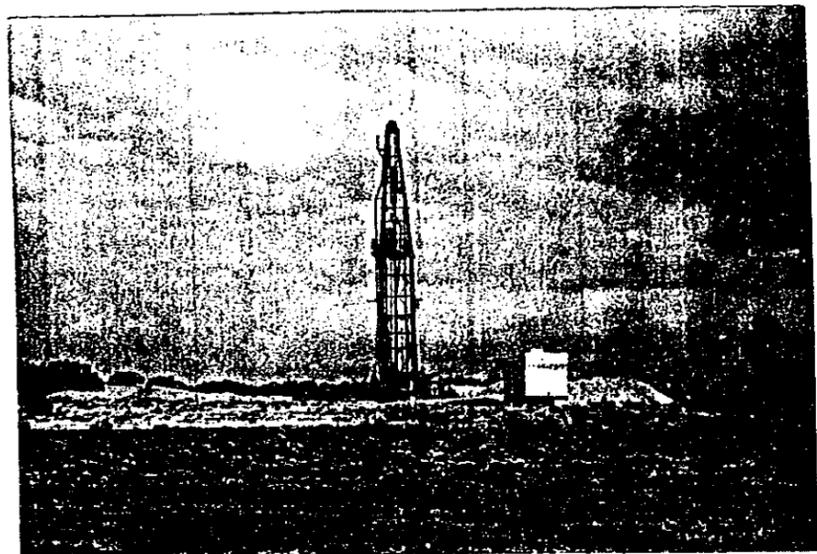
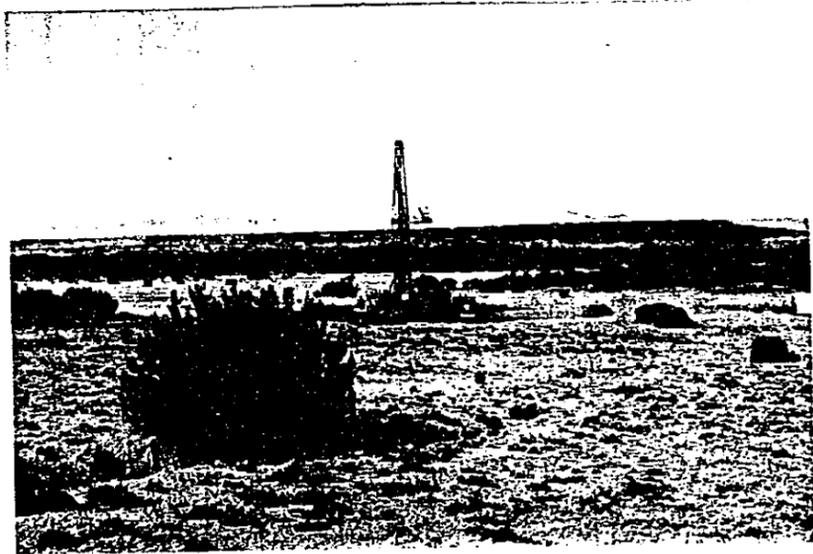
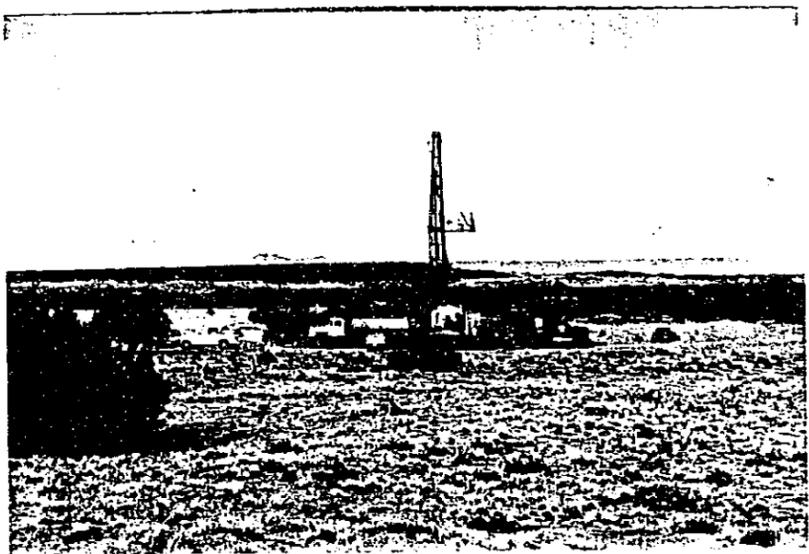
Let me know if I can help in any other way.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures





8-29-94

John Somers call

Tentatively plan 3 additional tests, one in section 3
twin initial well to test @ 700'

SW to Cedar Mesa anticline (truncation + possibly pick up oil)

Possibly call heating for Oct 28 units (160 ac - shallow)

Fax # @ Kinkos 303-494-0879

OBT plan news article & request I send a few photos (4-5-94)

Cobb express interest in another 10 thru ac prospect (Little Colo Pros)

William Carr mapped - Atkka cored dolomite w/ 58% oil sat. on flank

8-29-94

Walter Ruck call

Logs etc to be shipped when all data pulled together

CO₂ marketing - 300 million in US. (soda, cattle w/ft, beer etc)

William Leachman advised on contacts - overcome learning curve.

09/02/94 16:15 THE MEDALLION GROUP → 16026285106

NO.849 P001

The Masonic Temple Building
1407 Fannin Street at Clay Avenue
Post Office Box 1101 • Houston, Texas 77251
Area Code 713 • 654-0144
FAX: 713 • 654-1524



MEDALLION OIL COMPANY

FACSIMILE TRANSMISSION

FACSIMILE NO.: (602) 628-5106

TO: Steven Reagin / Arizona Oil Co Administrator

FROM: Mr. Green, J. E.

DATE: 9-2-94 TIME: 4⁰⁰ pm

NO. OF PAGES (INCLUDING THIS COVER SHEET): 2

REMARKS AND/OR SPECIAL INSTRUCTIONS:

Steve - I thought you'd be interested in this
article - looks like your work has paid off -
I would like to know more about it when possible.

J. E. Green
P.S. I found a copy to John H.../BLM

OIL

SAN ANGELO STANDARD-TIMES — Saturday, August 27, 1974—11C

Drillers find helium worth millions

GALLUP, N.M. (AP) — It may not be oil, but a Canadian petroleum company is trying high on the discovery of millions of dollars worth of helium near the Arizona-New Mexico state line.

"We were looking for oil, and we discovered helium," said Walter Buck, chairman of Calgary-based Ridgeway Petroleum Corp. "It was a case of pure coinciding, as wild as it ever gets."

One thing about wildcating, Buck said: "If you're right, it really pays off. You get enough to pay off all the times you weren't right."

Buck said the gas field is 99 percent carbon dioxide, 3 percent nitrogen and 0.53 percent helium. The company estimates gas reserves are 3 billion cubic feet per 160-acre unit.

"Drilling \$1 per thousand cubic feet for carbon dioxide and \$35 per thousand cubic feet for helium," Buck said, "the gross value of

the first well's reserves is \$2,767,000 in U.S. funds."

The Gallup Independent reported Thursday that the field eventually may be worth \$100 million.

The field was discovered while drilling eight miles southeast of St. John's, Ariz., Buck said. Drilling began July 22. The well was completed Aug. 15 at a depth of 8,451 feet. St. John's, on U.S. 666, is about 17 miles from the New Mexico state line.

The company believes the gas is contained in a 200-foot-thick layer of dolomite rock from 2,400 to 1,700 feet under ground.

Buck said the area was chosen for exploratory drilling because of a geothermal well drilled by New Mexico State University researchers near Alvin, Ariz.

"They . . . didn't find any hot rocks, but they did find traces of oil. That's what caught

our interest," he said.

Buck said he found rock formations near St. John's that indicated the presence of oil.

The general formation is known as the Holbrook Zone, which extends from Holbrook in northeastern Arizona through St. John's and into New Mexico, where it is known as the Juni-Gallop Basin, the newspaper reported Thursday.

Shell Oil Corp. leased 3.9 million acres in New Mexico and drilled four wells in the Juni-Gallop formation in 1966 but did not find commercially viable quantities of oil.

Buck said Ridgeway has increased its lease holding in the area to 46,000 acres, and crews will test their first well to determine how much helium is available. The company plans to begin three more wells next month, he said.

Looking for oil, drillers find helium — lots of it

GALLUP (AP) — Oil drillers have found what may be a multimillion-dollar helium gas field near the Arizona-New Mexico state line, a Canadian petroleum executive says.

"We were looking for oil, and we discovered helium," said Walter Ruck, chairman of Calgary-based Ridgeway Petroleum Corp. "It was a case of pure wildcatting, as wild as it ever gets."

The field eventually may be worth \$100 million.

One thing about wildcatting, Ruck said: "If you're right, it really pays off. You get enough to pay off all the times you weren't right."

He said the gas field is 90 percent carbon dioxide, 6 percent nitrogen and 0.52 percent helium. The company estimates gas reserves are 2 billion cubic feet per 160-acre unit.

"Utilizing \$1 per thousand cubic feet for carbon dioxide and \$55 per thousand cubic feet for helium," Ruck said, "the gross value of the first well's reserves is \$2,767,000 in U.S. funds."

The field was discovered while drilling eight miles southeast of St. John's, Ariz., Ruck said. Drilling began July 23. The well was completed Aug. 12 at a depth of 2,431 feet. St. John's, on U.S. 666, is about 17 miles from the New Mexico state line.

The company believes the gas is contained in a 320-foot-thick layer of dolomite rock from 1,400 to 1,720 feet under ground.

Ruck said the area was chosen for exploratory drilling because of a geothermal well drilled by New Mexico

State University researchers near Alpine, Ariz.

"They . . . didn't find any hot rocks, but they did find traces of oil. That's what caught our interest," he said.

Ruck said he found rock formations near St. Johns that indicated the presence of oil.

The general formation is known as the Holbrook Dome, which extends from Holbrook in northeastern Arizona through St. Johns and into New Mexico, where it is known as the Zuni-Gallup Basin, the newspaper reported Thursday.

Shell Oil Corp. leased 3.5 million acres in New Mexico and drilled four wells in the Zuni-Gallup formation in 1986 but did not find commercially viable quantities of oil.

Ruck said Ridgeway has increased its lease holding in the area to 40,000 acres, and crews will test their first well to determine how much helium is available. The company plans to begin three more wells next month, he said.

"If everything works out, we would put in a helium stripper plant to separate the helium," he said.

A stripper plant would require at least six wells to be feasible.

If sufficient quantities of carbon dioxide are found, Ruck said, a 150-mile pipeline may be constructed to carry the gas to an existing CO2 pipeline that runs from Colorado to Texas.

Post-It™ brand fax transmittal memo 7671 # of pages ▶ 1

To	BARRY MOODY	From	STEVE RAUZI
Co.		Co.	
Dept.		Phone #	
Fax #	542-4668	Fax #	

Farlington Daily Times, August 26, 1994

Drillers tap huge deposit of helium

The Associated Press

GALLUP, N.M. - Oil drillers have found what may be a multimillion-dollar helium gas field near the Arizona-New Mexico state line, a Canadian petroleum executive says.

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He said the gas field is 90 percent carbon dioxide, 6 percent nitrogen and 0.52 percent helium. The company estimates gas reserves are 2 billion cubic feet per 160-acre unit.

"Utilizing \$1 per thousand cubic feet for carbon dioxide and \$55 per thousand cubic feet for helium," Ruck said, "the gross value of the first well's reserves is \$2,767,000 in U.S. funds."

Post-It™ brand fax transmittal memo 7671 # of pages ▶ 1

To <i>Averil Manger</i>	From <i>Steve Rauzi</i>
Co.	Co.
Dept.	Phone # <i>602-882-4795</i>
Fax # <i>310-645-9147</i>	Fax #

The field was discovered while drilling eight miles southeast of St. John's, Ariz., Ruck told the Gallup Independent. Drilling began July 23. The well was completed Aug. 12 at a depth of 2,431 feet. St. John's, on U.S. Route 191, is about 17 miles from the New Mexico state line.

The company believes the gas is contained in a 320-foot-thick layer of dolomite rock from 1,400 to 1,720 feet under ground.

Ruck said the area was chosen for exploratory drilling because of a geothermal well drilled by New Mexico State University researchers near Alpine, Ariz.

"They ... didn't find any hot rocks, but they did find traces of oil. That's what caught our interest," he said.

Ruck said he found rock formations near St. Johns that indicated the presence of oil.

The general formation is known as the Holbrook Dome, which extends from Holbrook in northeastern Arizona through St. Johns and into New Mexico, where it is known as the Zuni-Gallup Basin, the newspaper reported Thursday.

Shell Oil Corp. leased 3.5 million acres in New Mexico and drilled four wells in the Zuni-Gallup formation in 1986 but did not find commercially viable quantities of oil.

Oil drillers hit helium jackpot

The Associated Press

GALLUP, N.M. — Oil drillers have found what may be a multimillion-dollar helium field near the Arizona-New Mexico line, a Canadian petroleum executive says.

"We were looking for oil, and we discovered helium," said Walter Ruck, chairman of Calgary-based Ridgeway Petroleum Corp. "It was a case of pure wildcatting, as wild as it ever gets."

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Bravo Dome Carbon Dioxide Area, Northeast New Mexico

ROY E. JOHNSON
New Mexico Oil Conservation Commission
Santa Fe, New Mexico

EARLY DEVELOPMENT HISTORY

Carbon dioxide was first discovered in the Bravo Dome area with the drilling of the American Production Corporation Bueyeros No. 1 well (see field map). This well was spudded in 1916 and blew out at a depth of 2,506 feet in the Permian, Sangre de Cristo Formation in 1917. The initial estimated carbon dioxide (CO₂) gas flow was 25,000 MCFGD. The well blew for a year before bridging over and was finally plugged in 1918.

In 1931 the first commercial development of the Bravo Dome CO₂ resource began and 36 gas wells were drilled through the 1960s. These wells supplied CO₂ to four dry ice plants; the largest, built in 1939 by Carbonic Chemical Co. near Solano, New Mexico, produced both dry ice and liquid carbon dioxide. The wells and plant were acquired in 1978 by Amerigas, Inc. and the plant was later abandoned when a new liquification plant was constructed east of Mosquero.

In 1952, the Iceco plant was constructed south of Bueyeros; this plant is now operated by Swartz Carbonic Co. (a division of Amerigas) and produces dry ice only. The Witt Ice and Gas Co. plant was constructed northwest of Bueyeros in 1950. This plant, now operated by CO₂-in-Action, has been renovated and is now capable of producing both dry ice and liquid CO₂. Most of the gas is processed into the liquid form.

The Timmons Dry Ice Co. plant was the first plant constructed in the area. This plant, which was located near the Witt plant, has now been dismantled.

RECENT DEVELOPMENT

The recent development of the use of CO₂ for miscible flooding of depleted oil fields has resulted in new life for the Bravo Dome field. In November 1980, Amoco Production Co. became the unit operator for the 1,035,000 acre Bravo Dome unit. Development drilling is being conducted on a 640-acre spacing pattern. As of January 1, 1984, 285 wells had been completed and shut in, 14 wells plugged and abandoned, and one well has been completed as a salt water disposal well.

A dehydration plant and compressor station to process the CO₂ is scheduled for completion by the first quarter of 1984. At that time production from 50 CO₂ gas wells will begin, starting at a rate of 55,000 MCFGD by late 1984. This gas will flow through a 16 mile high-pressure pipeline and be transferred into the privately owned Sheep Mountain CO₂ pipeline. At the time of this writing (January 1984) the Amoco Production Company was still obtaining easements for their pipeline to west Texas.

STRATIGRAPHY

The stratigraphic section in the Bravo Dome carbon dioxide area includes, in descending order, the Ogallala Formation (Tertiary); Dakota Sandstone (Cretaceous); Morrison Formation and Exeter Sandstone (Jurassic); Chinle Formation and Santa Rosa Sandstone (Triassic); and Bernal Formation, San Andres Limestone, Glorieta Sandstone, Yeso Formation, and the Sangre de Cristo Formation of Permian age.

The Ogallala Formation, Dakota Sandstone, Morrison Formation, and Exeter Sandstone are fresh water aquifers in the Bravo Dome area and only underlying strata will be considered.

The Triassic in this area has an average thickness of 900 to 1,000 feet, gradually thinning to the north and east. The Chinle Formation consists of gray to red, fine- to coarse-grained sandstones, and green and red mudstones and siltstones. The Santa Rosa Sandstone is the basal rock unit of the Triassic and has a gradational contact with the Chinle through a sequence of interbedded mudstone and light-gray, medium- to coarse-grained sandstones and conglomerates.

The Bernal Formation is represented by a series of orange, red, and green mudstones and siltstones. The formation varies in thickness from 100 to 200 feet. The San Andres consists of interbedded dolomite and anhydrite with minor green and red mudstone layers and has an inconsistent thickness of 150 to more than 300 feet. About 80 feet of clean medium- to coarse-grained sandstone makes up the Glorieta Sandstone. The Yeso Formation consists of 500 feet of light gray and orange, very fine to fine-grained sandstone, orange siltstones, dark red mudstones, and a small percentage of evaporites and carbonates.

At the base of the Yeso Formation lies the Cimarron Anhydrite. This unit makes an excellent marker bed that can be traced over a considerable area in northeastern New Mexico. The Sangre de Cristo Formation (also referred to as the Tubb and Granite Wash Formations) is on the order of 100 feet to over 1,000 feet thick and consists of fine- to coarse-grained lenticular arkosic sandstones and conglomerates and red sandy arkosic mudstones. Both the Cimarron Anhydrite and Sangre de Cristo Formation pinch-out to the west as they approach the crest of the Sierra Grande uplift.

ORIGIN OF CARBON DIOXIDE

There are several theories of the origin of natural carbon dioxide gas deposits. The carbon dioxide can be generated by: 1) juvenile magmatic CO₂ intercepted and retained by a trapping mechanism, 2) production from sedimentary carbonates—either through thermal decomposition or by ground

water solution of carbonates, or 3) thermal or bacterial decomposition of organic matter (Foster and Jensen, 1972).

In the Bravo Dome area the geochemistry community has tended to subscribe to the juvenile magmatic CO₂ hypothesis because of a series of studies starting in 1963 on a number of distinct isotopic anomalies of noble gases (He, Ne, Ar, Kr, and Xe) contained in the CO₂ from the Bravo Dome area (Phinney and others, 1978). These geochemical anomalies; however, remain a single datum and it has yet to be determined if such anomalies are unique to this area or are a general property of carbon dioxide accumulations. Further evidence of this hypothesis is supported by the lack of significant carbonate beds in the general area and the purity of the carbon dioxide.

On the other hand, the petroleum industry has tended to subscribe to the magmatic decomposition of carbonates as the source of natural CO₂ accumulations. Evidence supporting this hypothesis is that thermal decomposition of carbonate by magmatic intrusion is a well-known metamorphic phenomena and the amount of CO₂ chemically bound in a bed of limestone would justify the quantity of CO₂ present in the Bravo Dome area. Lang (1959) also suggests that the stable isotopic composition of the CO₂ itself supports the limestone origin.

The third theory on natural CO₂ accumulations, bacterial and thermal decomposition of organic material, has received little consideration due to low organic material content in the formations of northeast New Mexico. A statistical summary of the Bravo Dome field in the format of the other field papers in this volume follows:

STATISTICAL SUMMARY

GEOLOGY

Regional Setting: Eastern flank, Sierra Grande Uplift, northeast New Mexico

Surface Formations: Tertiary, Ogallala Formation, Cretaceous, Dakota Sandstone, Jurassic, Morrison Formation and Exeter Sandstone, Triassic, Chinle and Santa Rosa Formations

Exploration Method Leading to Discovery: Unknown, discovery well was drilled as an oil test

Type of Trap: Stratigraphic

Producing Formations: Triassic, Santa Rosa Sandstone; Permian, Sangre de Cristo Formation

Average Pay Thickness and Lithology of Reservoir Rocks: 100 feet of interbedded mudstones and lenticular sandstones

Other Significant Shows: Triassic, Santa Rosa Formation; Permian, Bernal, Glorieta and Yeso Formations

Oldest Stratigraphic Horizon Penetrated: Pre-Cambrian

DISCOVERY WELL

Name: American Production Corp. No. 1 Bueyeros

Location: SW NW sec. 32, T. 20 N., R. 31 E.

Elevation: 4,875 feet

Spud Date: 1916 (total depth reached in 1917)

Total Depth: 2,506 feet

Initial Potential: Estimated flow of 25,000 MCFGD. The well blew out and vented for a year before bridging over and being plugged

Bottom Hole Pressure: Unknown

DRILLING AND COMPLETION PRACTICES

Surface casing 9⁵/₈" at 700 feet in 12¹/₂" hole set through fresh water aquifers and cement circulated back to surface; no intermediate casing; production string 7" at total depth in 8¹/₂" hole and cement circulated back to surface. After perforating, the well is acidized with 7¹/₂ percent HCl with additives and fractured with cross-linked gel and 8/12 sand. Plastic-lined 3¹/₂" tubing is used and the well is then flow-tested through a separator for a period of 7 days.

RESERVOIR DATA

Productive Area (as determined geologically-prospective): Approximately 1,659,000 acres

Proved: 633,600 acres

Approved Spacings: 160 acres

Average Net Pay: 100 feet

Porosity: 20 percent (average)

Permeability: 42 millidarcies (average)

Connate Water Saturation: 0 to 45 percent (locally variable)

Initial Field Pressure: 1,082 maximum psi in western part of area and 336 psi minimum in eastern and northern part of area.

Type of Drive: Gas expansion

Gas Analysis: 98.6 to 99.8 percent CO₂, minor amounts of nitrogen and trace amounts of noble gases (He, Ne, Ar, Kr, and Xe)

Estimated Recovery: 5.3 to 9.8 trillion CFG

Average Initial Potential Per Well: 1,500 MCFGD

Market Outlets: Presently carbon dioxide produced is being liquified or made into dry ice and transported by truck. In early 1984, Amerada Hess (partner in the Bravo Dome unit) will have 50 wells on line and will be placing liquid carbon dioxide into the Arco Sheep Mountain pipeline which is completed and runs through this area. At the time of this writing, Amoco Production Company was still obtaining easements of their pipeline to wet Texas.

ACKNOWLEDGMENTS

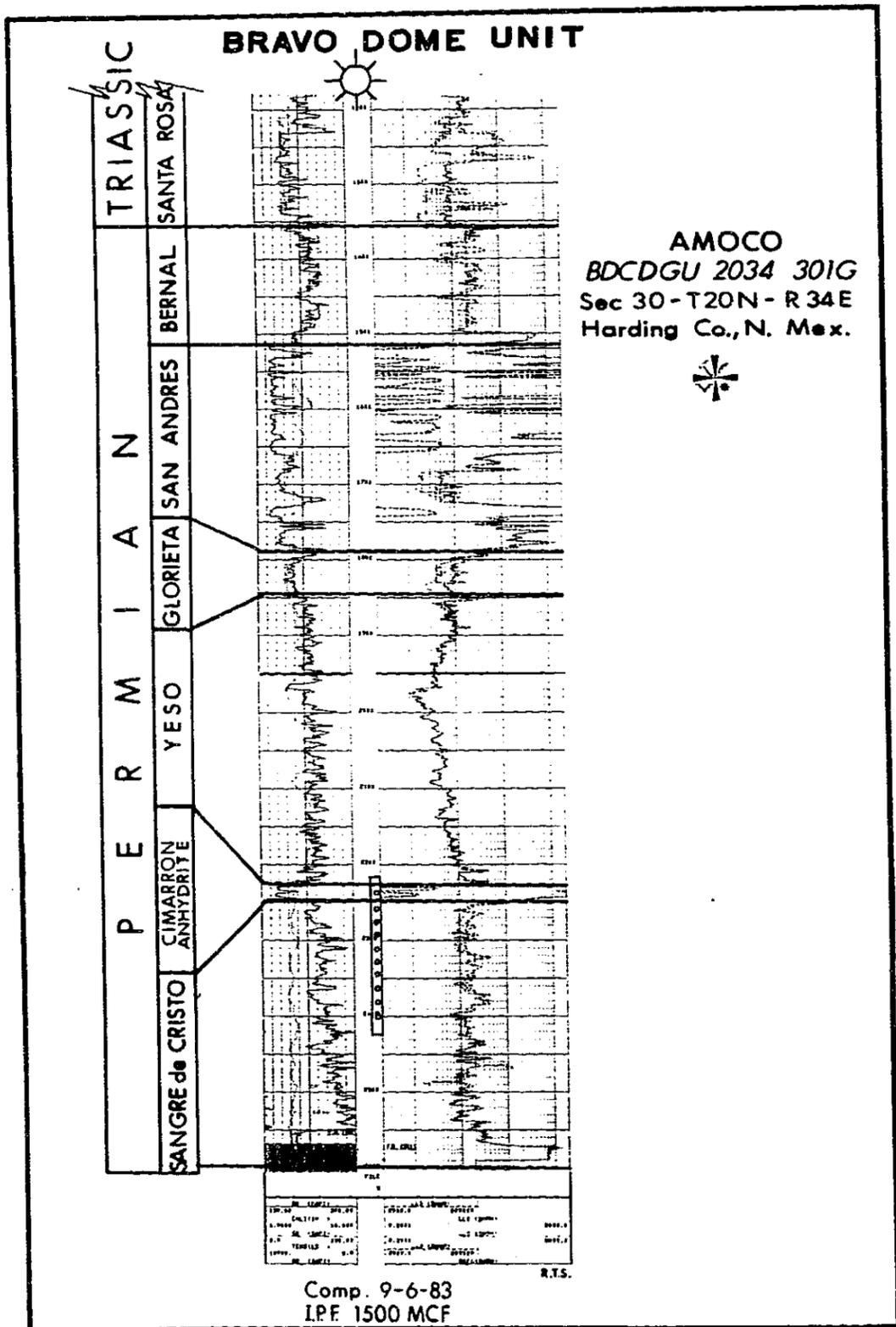
I thank the following people for assistance in preparing this paper: Bruce May, Amoco Production Company, Houston, Texas, for assistance in compiling the data; Allen Middleman, Southland Royalty Company, Farmington, New Mexico, for drafting and technical assistance; and Roy Foster, Consulting Geologist, Socorro, New Mexico, for technical assistance.

REFERENCES

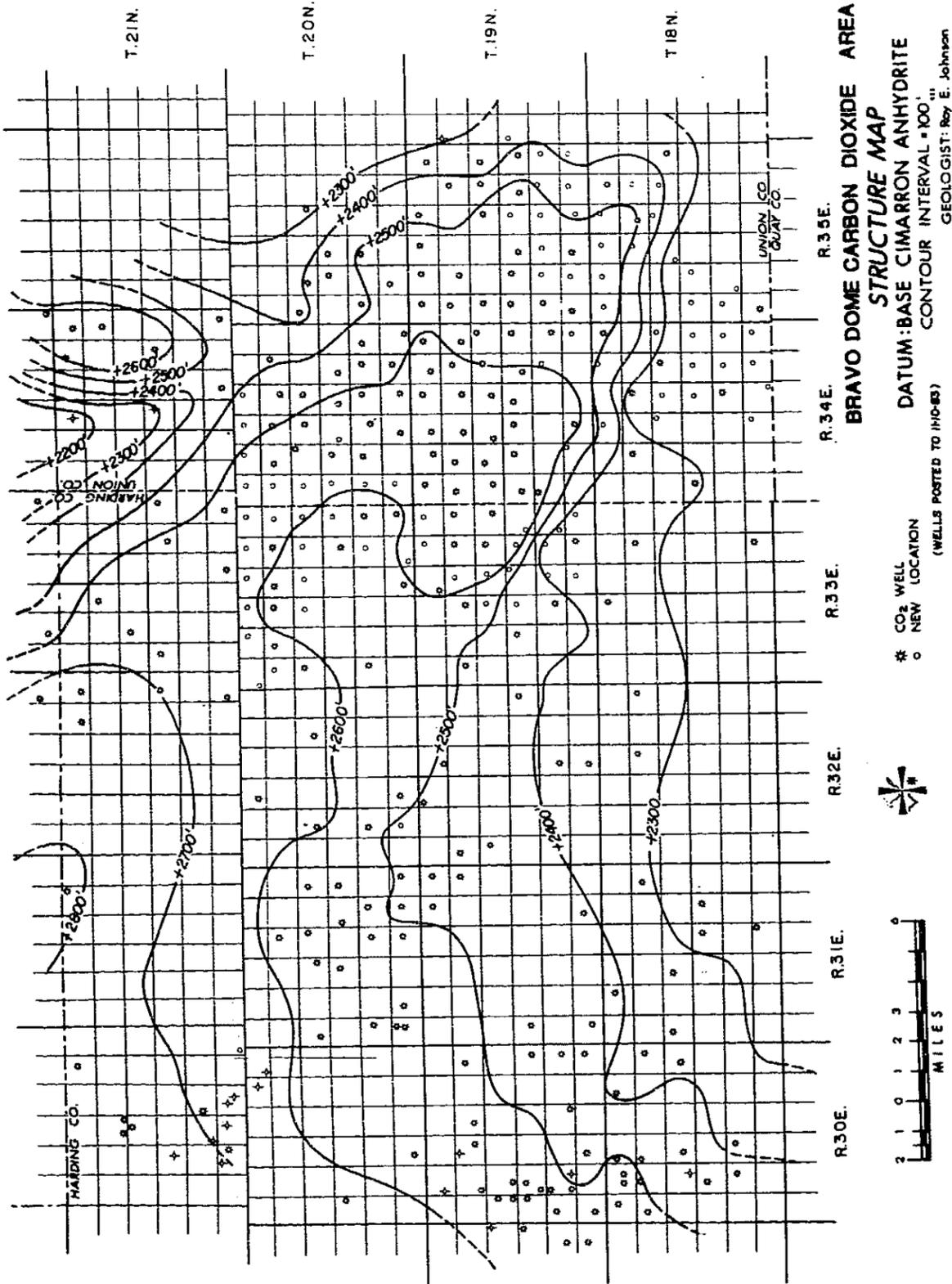
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- New Mexico Oil Conservation Commission records.

BRAVO DOME CARBON DIOXIDE AREA

747



BRAVO DOME CARBON DIOXIDE AREA



file 880

New Exploration Slated for Cheyenne County Nebraska

AN EXPLORATORY test staked by Denver-based Smith Oil Properties Inc 11 miles north of Sidney in the Nebraska Panhandle is projected to 4750 ft in J sand.

The 1 Winnie, nw se 31-16n-49w, northern Cheyenne County, is three miles northwest of the nearest current production in Rush Creek field, a D/J sand pool.

Ryan Oil in 1953 completed the 1 Henneman, se sw 31-16n-49w, a 4739-ft dry hole about a quarter mile southwest of the new Smith venture. Log tops at that wildcat, measured from a 4261-ft kelly bushing elevation, include D sand at 4531 ft, G sand 4573 and J sand at 4674 ft. No shows were reported in cores cut at 4544-64 and 4689-4701 ft.

Ridgeway Recovers Carbon Dioxide, Helium at Eastern Arizona Wildcat

RIDGEWAY ARIZONA Oil Co recovered carbon dioxide and helium on drillstem tests taken at a remote wildcat drilled in a non-producing region about seven miles southeast of St. Johns, eastern Arizona.

The 1 Ridgeway/Canstar-Plateau Cattle Co, ne sw 15-12n-29e, eastern Apache County, was drillstem tested in two intervals of the Permian Supai (Yeso/Abo equivalent). On a test at 1410-79 ft, gas surfaced immediately at an unreported rate. Pipe recovery was 175 ft of gas cut filtrate water. A second test at 1680-1720 ft recovered 475 ft of gas cut filtrate water.

Ridgeway said the gas composition is approximately 96 percent carbon dioxide and four percent helium. Sample tops include the San Andres

limestone at 209 ft, Glorieta 481, Supai 680 and granite at 2360 ft.

The 2431-ft wildcat has been cased to 1794 ft (PI 8-11-94), with a completion attempt planned following the drilling of three additional appraisal wells in the area. Permits have yet to be issued for the latter ventures, which include a test in section 3-11n-29e, about four miles south of the 1 Ridgeway/Canstar-Plateau Cattle Co drillsite.

Nonflammable, helium-bearing gas has been produced in the Pinta Dome-Navajo Springs area approximately 50 miles north of the 1 Ridgeway/Canstar-Plateau Cattle Co test. The nearest hydrocarbon production is some 150 miles to the north, at fields on Navajo Indian lands in the northeastern corner of the state.

Mississippian Test Staked on Las Animas Arch

UNION PACIFIC Resources Co has scheduled a 5800-ft test to Mississippian on the Las Animas Arch eight miles northeast of Cheyenne Wells in eastern Colorado.

The 1 North Mayfield 14-17, sw sw 17-13s-43w, Cheyenne County, will be drilled by a Cheyenne Drilling rig three quarters of a mile north of Mayfield field, a Pennsylvanian

Shawnee pool producing from about 4050 ft. That Mull Drilling-operated field has produced about 632,000 bbls of oil, 6.6 million cu ft of gas and 1,475,000 bbls of water since its discovery 10 years ago. In April, the field's seven active wells combined to produce an average of 148 bbls of oil and 769 bbls of water per day.

Half a mile east of the new ven-

ture, Union Pacific in 1990 completed the 1 Shotgun 34-17, sw se 17-13s-43w, as a 5402-ft dry hole. Log tops at that wildcat, measured from a kelly bushing elevation of 4106 ft, include Shawnee at 4063 ft, Heebner 4254, Lansing 4310, Marmaton 4684, Atoka 5003, Morrow 5130, Lower Morrow 5230, St. Louis 5288 and Spergen at 5358 ft.



High Plains Petroleum Corporation

3860 Carlock Dr. Boulder, CO 80303 303-494-4529

August 16, 1994

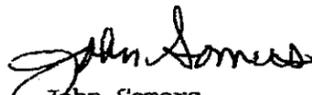
Mr. Steven L. Rauzi
Oil and Gas Program Administrator
Arizona Geological Survey
845 N. Park Ave., No. 100
Tucson, AZ 85719

Re: Ridgeway/Canstar Plateau Cattle Co. #1
NESW Sec. 15, T12N, R29E
Apache Co., Arizona
Permit No. 880

Dear Steve,

In accordance with our telephone conversation on Thursday, August 11th, enclosed please find a report on the above-referenced well from spud to the setting of casing.

Sincerely,


John Somers

Enclosure - Form 25
cc: Ridgeway Petroleum Corp.
F.L. Shogrin



ROCKY MOUNTAIN

REGION REPORT



SOUTHEASTERN EDITION

Vol. 67, No. 155
8-11-94

file 880

New Exploration Slated for Raton Basin

O KLAHOMA CITY-BASED Montana-Dakotas Royalty Co has staked four new wildcats in a non-producing area of the Raton Basin within seven miles southwest of the southern Colorado town of Cokedale.

The southern Las Animas County ventures, all projected to 1050 ft in Vermejo, are:

□ 27-13 PCW-Long Canyon, sw sw 27-34s-65w;

□ 28-9 PCW-Long Canyon, ne se 28-34s-65w;

□ 28-15 PCW-Long Canyon, sw se 28-34s-65w;

□ 33-1 PCW-Long Canyon in ne ne 33-34s-65w.

The new locations will be drilled on a 20,000-acre lease by contractor Pense Brothers Drilling in an area approximately 10 miles south-southeast of Raton/Vermejo coalbed methane discoveries completed earlier this

year by Evergreen Resources Inc northwest of Cokedale (PI 6-17-94). Wells on the eastern flank of Apache Canyon field, a shut-in Raton/Vermejo pool, are some 13 miles west of the new Montana-Dakotas locations.

Meridian Oil Inc currently has exploration and development programs under way in the Apache Canyon field area targeting both coalbed methane and gas reserves in the deeper Greenhorn.

Pipe Set at Remote Eastern Arizona Wildcat

R IDGEWAY ARIZONA Oil Co has set production casing at a remote prospect drilled in a non-producing region about seven miles southeast of St. Johns in eastern Apache County, Arizona.

The 1 Ridgeway/Canstar-Plateau Cattle Co, ne sw 15-12n-29e, originally was projected to 3055 ft in Precambrian to evaluate Permian and Pennsylvanian zones (PI 6-24-94). It reached total depth at 2431 ft. Ridgeway reported a sample top of 142 ft for the Permian San Andres, but no other details are yet available. The Permian sedimentary sequence in the area is estimated by the company to be approximately 2100 ft thick (PI 7-26-94).

Ridgeway is planning to drill a second remote wildcat later this year in 3-11n-29e, about four miles south of the 1 Ridgeway/Canstar-Plateau Cattle Co drillsite. A state permit has yet to be issued for that venture. The nearest hydrocarbon production is approximately 150 miles to the north, at fields in the northeastern corner of the state.

NEWSLETTER
DAILY ACTIVITY REPORT
EASTERN COLORADO
WESTERN NEBRASKA

SECTION I
SECTION II
SECTION III
SECTION IV



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Telecopy Transmission Sheet

8-4-94

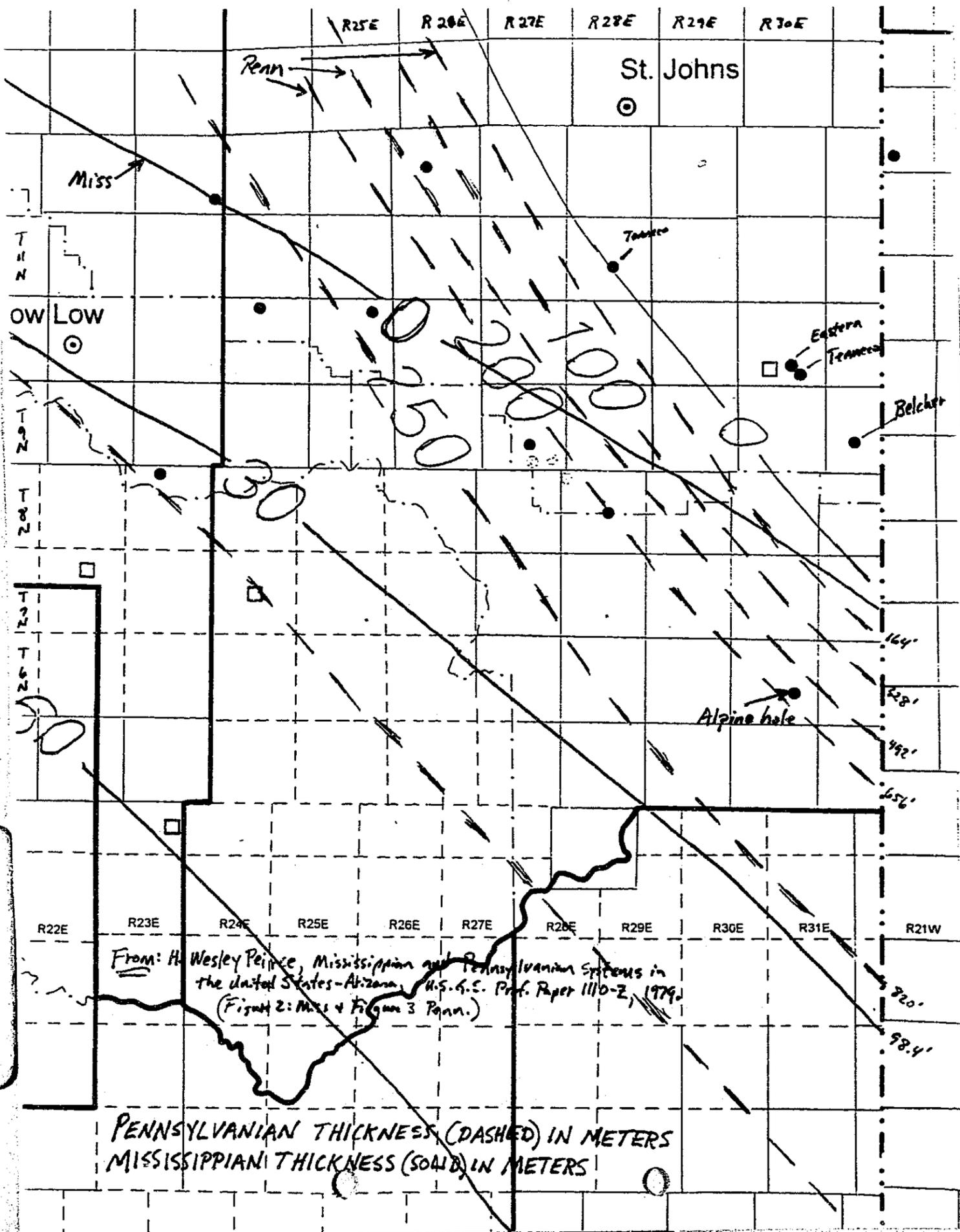
→ To: Mr. John Somers II, Fax # 337-4478

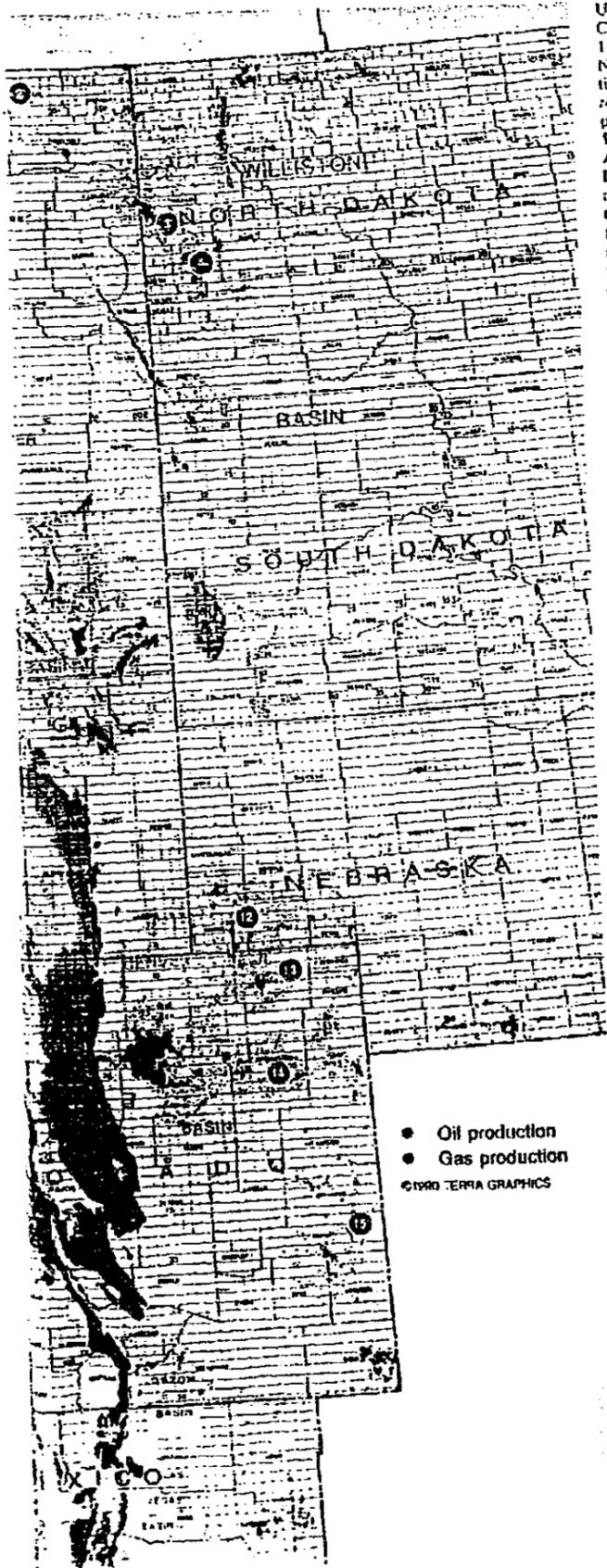
From: Steve Rauzi, phone # 892-4795

Pages including cover sheet 2

MSG. This composite shows Wes'
Pennsylvanian + Mississippian contours
in east-central Arizona. It's taken
from U.S.G.S. P.P. 1110-Z figures 243.
I've overlain them on the base map
for my Alpine report. As you
can see, these edgelines have barely
been tested.

Steve





Unit in 10s-11s, 4e-5e, Utah County, Utah. The unit calls for a 10,500-ft. Subthrust Jurassic Nugget test to be drilled in Section 14, 1s-4e. The *Rocky Mountain Oil Journal* notes unit participants include **Shell Western E&P Inc.** and **Amoco Production Co.** Located in the Wasatch Hinge area of the state, the new unit is in the same area where Amoco formed the Coffee Pot Ridge Unit and proposed a 15,000-ft. Nugget test that was never drilled. Nearest production is 18 miles southeast from Ferron Sandstone at Clear Creek Field.

9 Union Oil Co. of California spudded a horizontal wildcat at the #1 Coyote Unit in San Juan County, Utah, about 3 miles north of Lisbon Field. The Pennsylvania Cane Creek test will extend laterally from a surface location in Section 32-29s-24e to a bottomhole location in Section 29. Measured total depth is projected at 9,865 ft., and true vertical depth, 8,190 ft. The well lies 85 miles southeast of horizontal drilling activity in the Cane Creek play in Bartlett Flat Field along the Grand/San Juan County line, reports PI.

10 Eleven miles further south, also in San Juan County, **Union Pacific Resources Co.** recently formed the 15,826-acre Sixshooter Unit. The *Rocky Mountain Oil Journal* reports the unit agreement calls for UPRC to drill a horizontal Cane Creek test in Section 21-31s-22e, with a bottomhole location in Section 27. The unit outline includes sections 7-11, 14-23, and 26-35 of 31s-22e. **CNG Production Co.**, New Orleans, and **Marathon Oil Co.**, Houston, are partners in the project. Four miles south of the proposed UPRC well and in the same township, **Meridian Oil Inc.** plans a horizontal Ismay/Cane Creek test in Section 31, the #22-31 Peridot Federal.

11 Ridgeway Arizona Oil Corp., a wholly owned subsidiary of **Ridgeway Petroleum Corp.**, Calgary, staked a remote wildcat at the #1 Ridgeway/Cantuar Plateau Cattle Co. in Apache County, Ariz., in Section 15-12n-29e. The drillsite lies near the crest of the St. Johns Anticline, a 20,000-acre surface structure with 400 ft. of surface structural closure. Interest in the area was sparked by a geothermal well that encountered free oil, vulgular carbonates and hydrocarbon-rich source rocks in the Permian Supai. Ridgeway projects the wildcat as a 3,055-ft. Precambrian test that will evaluate the Permian San Andres, Glorieta and Supai and Pennsylvanian Naco

formations. A second well is planned on the south end of the anticline in Section 3-11n-29e, 4 miles south of the initial test. Nearest production is 150 miles to the north of the project.

12 Denver-based **Consolidated Oil & Gas Inc.** spudded the #1 Stander, a new-field wildcat in Kimball County, Neb. The Nebraska Oil & Gas Conservation Commission reports the 8,200-ft. Pennsylvanian test spots in Section 10-16n-55w.

13 Midwest Enterprises Inc., Lamar, Colo., scheduled a 7500-ft. Pennsylvanian Cherokee deeper-pool wildcat near Winston North Field in Logan County, Colo. The #2 Donovan, located in Section 29-11n-52w, offsets the last remaining active well in the field, producing from 1 Sand at 5,400 ft. Nearest production from Paleozoic rocks is 18 miles to the north in Cheyenne County, Neb.

14 Western Operating Co., Denver, established a new Cretaceous 1 Sand pool in Washington County, Colo. The #23-17 Kulevic Farms, in Section 17-2s-54w, averaged 76 bbl. of oil, 5,400 cu. ft. of gas and 8 bbl. of water per day, state records show. The 4,990-ft. well spots a mile northeast of 1 Sand production in Hotspur Field.

15 A workover of the discovery well for Red Giant Field, the #1 Red Giant 2-3-22, in Kiowa County, Colo., resulted in production of 451 bbl. of oil, 5,750 cu. ft. of gas and 78 bbl. of water per day from an undisclosed Pennsylvanian Lansing interval, state records show. **Union Pacific Resources Co.**, Fort Worth, reentered the 5,208-ft. well in Section 22-17s-45w, which was originally completed as a Mississippi Spargen well last December, PI reports.

All data in the Exploration Highlights section is based on sources believed to be reliable, but its accuracy cannot be guaranteed. The prudent investor intending to act upon any particular data is urged to verify it with all other available sources. In no way should the publication of these items be construed as an express or implied endorsement of a company or its activities.

Most land in the U.S. is divided into townships—rectangular tracts six miles square. The township, in turn, is divided into 36 numbered sections, each a one-mile square. The lines running north-south and dividing east from west are called range lines. The lines running east-west and dividing north from south are township lines. Both are numbered on our maps and are the starting point for pinpointing a site. A well in Section 15-Township 4 North-Range 3 east is abbreviated: 15-4n-3e.

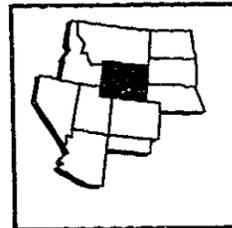
AUG 30 '84 11:46AM AZ. STATE LAND DEPT.

P. 3



ROCKY MOUNTAIN

REGION REPORT



WYOMING EDITION

Vol. 67, No. 143
7-26-94

Wildcat Slated for New Mexico's Sandoval County

Boulder, Colorado independent High Plains Petroleum Corp will evaluate Entrada at a 4000-ft wildcat in a non-producing township in western Sandoval County, New Mexico, according to a Notice of Staking filed with the Rio Puerco (New Mexico) District Office of the Bureau of Land Management.

If approved, the 1 Hermana-Federal would be drilled in section 17-17n-4w, about 10 miles northwest of Cabezón. Secondary objectives include numerous shallow Mesaverde sands between 100 and 700 ft, Hoshpah at about 1900 ft and Dakota at an estimated 2600 ft.

High Plains' proposed test is about 13 miles from Entrada production in three fields—Media to the northeast, Eagle Mesa to the north-northeast, and Papers Wash to the north-northwest. Media field also produces from Gallup; Papers Wash field also has Mesaverde production.

The nearest current production is eight miles to the northeast, in San Luis field, a Mesaverde oil pool.

The 1 Hermana-Federal site is

two miles north of a 4055-ft Entrada wildcat drilled by Refiners Petroleum

(Please see High Plains, Page 2)

Drilling Under Way at Remote Arizona Wildcat

Ridgeway Arizona Oil Co, with an L&B Speed Drill rig on site, has spudded a remote exploratory test in a non-producing region about seven miles southeast of St. Johns, eastern Arizona.

The 1 Ridgeway/Canstar-Plateau Cattle Co, ne sw 15-12n-29e, eastern Apache County, is projected to 3055 ft in Precambrian (PI 6-24-94). Primary objectives are Permian and Pennsylvanian zones. Ridgeway reported a sample top of 142 ft for San Andres (Permian) and has set surface casing to 150 ft. The Permian sedimentary sequence in the area is estimated by the company to be approximately 2100 ft thick. The drillsite is on a previously undrilled surface structure—the St. John's Anticline—mapped by the U.S.G.S. and the Arizona Geological Survey that has approximately 400 ft of surface closure. Ridgeway has more than 30,000 acres under lease on the St. John's Anticline and the adjacent Cedar Mesa Anticline, another surface structure.

About four miles south of the 1 Ridgeway/Canstar-Plateau Cattle Co drillsite, Ridgeway is planning to drill a second remote wildcat later this year in section 3-11n-29e. The nearest hydrocarbon production is approximately 150 miles to the north, at fields in the northeastern corner of the state.

NEWSLETTER
DAILY ACTIVITY REPORT
WYOMING

SECTION I
SECTION II
SECTION III



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RIDGEWAY ARIZONA OIL CORP. TO DRILL IN APACHE COUNTY

On behalf of the Oil and Gas Conservation Commission, the Arizona Geological Survey issued a permit to drill an oil exploration hole in southern Apache County to Ridgeway Arizona Oil Corporation. The hole, the Plateau Cattle Company No. 1, is scheduled to be drilled to a total depth of 3,055 feet about 7 miles southeast of St. Johns, Arizona, in sec. 15, T. 12 N., R. 29 E. The company expects to begin drilling in mid July 1994. Primary objectives include Permian and Pennsylvanian zones.

The Plateau Cattle Company No. 1 is about 7 miles northeast of a Combined Drilling Ventures hole drilled in 1987 and about 9 miles north-northeast of a Tenneco Oil Company hole drilled in 1967. These holes had reported shows of oil but were completed as dry holes.

For additional information on the Plateau Cattle Company #1 contact Steven L. Rauzi, Oil and Gas Program Administrator at the Arizona Geological Survey, 845 N. Park Avenue, Suite 100, Tucson, AZ 85719-4816 or phone (602) 882-4795.



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

July 8, 1994

Mr. Clarence Bigelow
Apache County Manager
P. O. Box 428
St. Johns, Arizona 85936

Re: Ridgeway/Canstar Plateau Cattle Company No. 1
Sec. 15, T. 12 N., R. 29 E.
State Permit #880

Dear Mr. Bigelow:

I have enclosed an approved application to drill and the referenced permit in accordance with the **Arizona Oil and Gas Conservation Commission's** policy to provide a copy of the approved application for permit to drill to the County Manager of the County in which the well is located. The Commission adopted this policy as a courtesy to local governments and to keep them informed and advised on future exploration drilling efforts in Arizona.

The Commission issues a permit to drill pursuant to A.R.S. § 27-516 after it has determined that drilling of the well is in compliance with statutes and rules (*Arizona Administrative Code* Title 12, Chapter 7) of the Commission and that correlative rights, public health and safety, and subsurface resources will not be compromised.

Please contact me if I may be of further assistance.

Sincerely,

A handwritten signature in cursive script that reads "Steven L. Rauzi".

Steven L. Rauzi
Oil and Gas Program Administrator

Enclosures



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

July 8, 1994



Larry D. Fellows
Director and State Geologist

Mr. John B. Somers II
Vice President, Ridgeway Arizona Oil Corp.
3860 Carlock Drive
Boulder, Colorado 80303

Re: Ridgeway/Canstar Plateau Cattle Company #1
Sec. 15, T. 12 N., R. 29 E., Apache County, Arizona
State Permit #880

Dear Mr. Somers:

Your approved Application for Permit to Drill, Permit to Drill #880, and filing fee receipt #3066 are enclosed. Instructions for handling well samples (A.A.C. R12-7-121) are also enclosed.

This Permit is issued on the condition that you conduct operations substantially as outlined in the drilling program submitted with the application to drill, a copy of the Permit to Drill is posted at the wellsite, and that you *notify this office at least 48 hours* before you

- 1) Commence drilling operations;
- 2) Run and cement surface and intermediate casing; and
- 3) Nipple up and test the BOPE prior to drilling out of the surface casing.

I have also enclosed Form 4, *Well Completion Report* and, should it be necessary, Form 9, *Application to Plug and Abandon* and Form 10, *Plugging Record*. Several copies of our Form 25, *Sundry Notices*, are enclosed for your use in providing this office weekly updates of wellsite activity.

I look forward to a successful completion of your well.

Sincerely,

Steven L. Rauzi
Oil & Gas Program Administrator

Enclosures

c Walter B. Ruck, Calgary



Fife Symington
Governor

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

FAX TRANSMITTAL COVER SHEET

DATE: 7-5-94

1 PAGES
(including cover sheet)

TO:

NAME: Mr. Walter Wruck

COMPANY: Ridgeway

FAX NO: 403-262-5294 CITY: Calgary

FROM: Steven L. Rauzi

OUR FAX NO: (602) 628-5106

IF THERE ARE ANY QUESTIONS, RESPONSES, OR PROBLEMS WITH THIS TRANSMISSION, PLEASE CALL THE SENDER AT (602) 882-4795. THANK YOU.

MESSAGE: Re: Ridgeway / Canstar Plateau Cattle Co. #1
land. If I have the C.D. in hand
by Thursday, I'll be able to hand deliver
it to the State Treasurer on Friday, the
day of the Oil & Gas Commission Mtg in
Phoenix.

An Equal Opportunity Employer

Maxine Robertson called & reported Bank One, St. Johns, will get C.D. to this office by Thursday.

EXPLORATION



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tion, materials design applications targeted at improving processes as common and important as welding and casting, and advanced manufacturing software projects relating to satellite technology, automotive air bags, and semiconductors.

The other organizations involved include Boeing Co., Exxon Research, and AT&T Bell Laboratories. *

N.W.T.

Canada is assessing exploration interest on 13,700 sq km in the southwest corner of Northwest Territories.

Nominations are due to July 13 at the National Energy Board in Calgary, and pending a response the Northern Oil & Gas Directorate will issue a call for bids on July 30.

The area, surrounding Fort Liard and bounded by British Columbia on the south and Yukon Territory on the west, contains Pointed Mountain gas field. Extending onto the southwestern part of the call area is a gas pipeline that serves Pointed Mountain, Kotaneelee, and Beaver River gas fields.

PERU

A Russian-Peruvian joint venture is starting the first wildcat in a four well program in the Titicaca basin.

Yugansk Petro Andes SA imported a \$5 million BU 2500DGU rig and related cementing, electric logging, and towing equipment from Russia's Volgograd Drilling Factory for the project. Depth capacity is 2,500 m.

The combine, formed in February 1994 by Yuganskneftegas, Yugansk, Russia, 75% and Petro Andes SA, Lima, 25%, operates blocks S-2 and S-3 in the Titicaca basin under contract to Petroperu. The combine also seeks to operate Block S-1 midway between Titicaca and Cuzco.

Soyuzkarta, Moscow, a satellite map-making and

prospecting company that has been studying blocks S-2 and S-3 the past 4 years, has completed 400 km of seismic studies. Petro Andes, formerly VG Exploracion Produccion SA, has been conducting seismic studies on the blocks since signing a contract in 1990.

Peru's oil production in April averaged 124,650 b/d, compared with 117,500 b/d in April 1993.

ARIZONA

Ridgeway Arizona Oil Corp., a subsidiary of Ridgeway Petroleum Corp., Calgary, plans to drill two remote wildcats in north-eastern Arizona.

The Ridgeway/Canstar 1 Plateau Cattle Co., in 15-12n-29e, Apache County, is projected to 3,055 ft or Precambrian. It is to be spudded this month.

Objectives are Permian San Andres, Glorieta, and Supai and Pennsylvanian Naco. Penn produces in northern Apache County in the Paradox basin.

The drill site is near the crest of the St. Johns anticline, a 20,000 acre surface structure with 400 ft of surface structural closure. It is situated along the southeast edge of the Holbrook basin, a Permian salt basin that extends from Arizona into west central New Mexico (OGJ, Jan. 5, 1981, p. 117).

Interest in the area was sparked by the 1 Alpine Federal geothermal well in 23-6n-30e, Apache County (OGJ, Jan. 3, p. 52). It encountered free oil, vulgular carbonates, and hydrocarbon rich source rocks in Permian Supai.

Shell Oil Co. and Hunt Oil Co. previously explored the New Mexico side of the basin. That Catron County exploration was based on the similarity of the area to the northwest shelf of the Permian Basin.

Ridgeway's location is 7 miles southeast of St. Johns, Ariz., and 60 miles southeast of Permian helium production in Pinta Dome and

Navajo Springs fields.

The closest wells are a shallow 1,676 ft Tenneco well in 22-11n-28e that encountered oil shows in all three of the Permian objectives, and a 3,296 ft well drilled by Combined Drilling Ventures in 28-12n-28e that encountered oil shows in Permian Coconino (Glorieta), Supai, and Penn.

Ridgeway's second wildcat is to be drilled in 3-11n-29e, on the south end of the St. Johns anticline 4 miles south of the first well.

Interests in the two wells are Ridgeway 40%, Canstar Ventures Corp. 40%, and a U.S. oilman 20%.

U.S. GULF

Samedan Oil Corp. plans to complete a well on East Cameron Block 331 later this year after installing a platform.

The No. 6 well cut 68 ft of oil and gas pay in four zones as determined from electric logs and sidewall cores. Several additional zones in the well will require further evaluation.

Samedan is operator with a 52.8% working interest. Other owners include Cairn Energy USA Inc. 40% and Continental Land & Fur Co. Inc. 7.2%.

Newfield Exploration Co., Houston, is to start production in third quarter 1994 from a gas discovery on South Timbalier Block 111.

Meanwhile, Minerals Management Service accepted Newfield's bid for adjoining block ST110.

The 2 ST111 well, drilled in late 1993, encountered 62 ft of natural gas pay in three sands. It was completed for 9.1 MMcf/d of gas with 22 b/d of condensate through a 15% in. choke with 5,540 psi flowing tubing pressure from perforations at 15,335-350 ft.

Newfield is obtaining a 3D geophysical survey over the ST110 and 111 and expects to spud a well on the first of two exploration prospects on ST110 by yearend.

EXPLOI

file 880

INDIANA

Deka Exploration Inc., Oklahoma City, staked two Illinois basin wildcats in nonproducing Jackson County.

Set up as 1,000 ft Silurian tests are the 1 Hill Farms Inc., in 9-4n-3e, 6 miles east of one well South Leesville gas field, and the 1 Ayers, in 21-6n-4e, 23 miles east of Bartlettville oil and gas field, Petroleum Information reported.

MISSISSIPPI

Fina Oil & Chemical Co. opened Upper Cretaceous Lower Tuscaloosa pay in Camp Shelby field of Perry County.

The 1 USA 17-10, in 17-2n-10w, pumped 345 b/d of 15.6° gravity oil from perforations at 10,863-11,002 ft overall, reports Southeastern Oil Review, Jackson, Miss.

MONTANA

EP Operating LP completed a horizontal wildcat in Richland County.

The 1H Renken, in 11-22n-57e, just south of Putnam oil field, averaged 446 b/d of oil, 6 Mcfd of gas, and 223 b/d of water from Mississippian Madison at 9,143 ft true vertical depth, reported Petroleum Information based on state production figures.

TEXAS

Panhandle

Operators staked remote wildcats in Roberts and Hutchinson counties in the Anadarko basin.

Alpar Resources Co., Perryton, Tex., staked the 3 South Lips 9, in Roberts County 23 miles northwest of Miami. Objective depth is 9,500 ft.

The spot is 4 miles north of marginal Lard Ranch oil and gas field, Petroleum Information noted.



High Plains Petroleum Corporation

3860 Carlock Dr. Boulder, CO 80303 303-494-4529

June 27, 1994

Mr. Steven L. Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
845 N. Park Ave., #100
Tucson, AZ 85719

Re: Blowout Preventor (BOP)
Ridgeway/Canstar Plateau Cattle Co #1
N/2SW/4 Sec.15,T12N,R29E
Apache County, Arizona

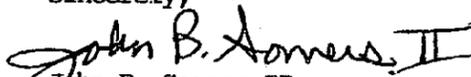
Dear Steve,

In accordance with our telephone conversation earlier today, enclosed please find information on the blowout preventor to be used by L&B Speed Drill in drilling the Plateau Cattle Company No. 1 well for Ridgeway Arizona Oil Corp.. The enclosed information includes; a diagram of the Hydril Type K Blowout Preventor, which is to be used, and a diagram of the complete surface hookup of the blowout preventor system. Since this type of BOP has a working pressure of 3000 psi, it should be more than adequate for this shallow hole.

The Kaibab and Coconino will probably be slightly underpressured, and the Supai and Penn should have normal hydrostatic pressure. Furthermore, since the section below the Coconino is to be drilled with a salt based mud, the system will be overbalanced, and there shouldn't be any problem with either pressure or control.

If there are any further questions or anything else is needed for Ridgeway's APD, please let me know. Your prompt review of the original APD and detection of this omission is appreciated.

Sincerely,


John B. Somers II
Petroleum Engineer

Enclosures
cc:Ridgeway Petroleum Corp.
F.L. Shogrin

MEMORANDUM TO FILE

DATE: June 27, 1994

FROM: *SLR* Steven L. Rauzi
Oil and Gas Program Administrator

SUBJECT: Known and reasonably estimated freshwater aquifers in vicinity of
RIDGEWAY/CANSTAR PLATEAU CATTLE NO. 1
NW NE SW Sec. 15, T. 12 N., R. 29 E., Apache County

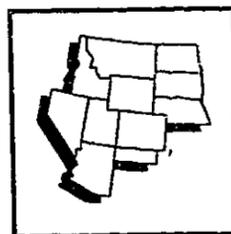
Rick Herther, Basic Data Section, Arizona Department of Water Resources, reported this date that no water wells are registered in sec. 15, T. 12 N., R. 29 E., the vicinity of the subject well. The nearest water wells registered with the Department are in the northeast quarter of section 10, the northeast quarter of section 20, and the northeast quarter of section 23. The well in section 10 is 227 feet deep with a water level recorded at a depth of 209 feet in 1953. The well in section 20 is shallow with a reported water level at a depth of 30 feet. The well in section 23 is 800 feet deep with a water level reported at a depth of 545 feet.

Thus the proposed casing program for conductor pipe cemented to 150 feet and surface casing cemented to 810 feet will be sufficient to protect all known and reasonably estimated fresh water aquifers at the location of the subject well.



ROCKY MOUNTAIN

REGION REPORT



NEWSLETTER EDITION

file 880
Vol. 67, No. 122
6-24-94

Remote Eastern Arizona Wildcat Projected to Precambrian

RIDGEWAY ARIZONA Oil Co, the U.S. operating subsidiary of Calgary-based Ridgeway Petroleum, has scheduled a remote exploratory test in a non-producing area of eastern Arizona about seven miles southeast of St. Johns.

The eastern Apache County wildcat, the 1 Ridgeway/Canstar-Plateau Cattle Co in nesw 15-12n-29e, is set up as a 3055-ft test to Precambrian. Primary objectives are Permian and Pennsylvanian zones.

Nonflammable, helium-bearing gas has been produced in the Pinta Dome-Navajo Springs area approximately 50 miles north of the wildcat. The nearest production of hydrocarbons is some 150 miles to the north, at fields on Navajo Indian lands in the northeastern corner of the state.

L&B Speed Drill, Farmington, is

under contract and is expected to spud the wildcat in mid-July.

John B. Somers II, director of Ridgeway Arizona and president of

bon reflectance."

Ridgeway has more than 30,000 acres under lease on the St. John's Anticline and the adjacent Cedar

Ridgeway has more than 30,000 acres under lease on the St. John's Anticline and the adjacent Cedar Mesa Anticline, another surface structure. The company is planning to drill a second wildcat in the area this fall in section 3-11n-29e.

Boulder, Colorado-based High Plains Petroleum Corp, said the prospect is located on an undrilled surface structure—the St. John's Anticline—mapped by the U.S.G.S. and the Arizona Geological Survey that has approximately 400 ft of surface closure. Somers added that Landsat imagery of the anticline shows "strong hydrocar-

Mesa Anticline, another surface structure. Somers said the company is planning to drill a second wildcat in the area this fall in 3-11n-29e, about four miles south of the 1 Ridgeway/Canstar-Plateau Cattle Co site.

In 1987, Combined Drilling

(Please see Arizona, Page 2)

NEWSLETTER
DAILY ACTIVITY REPORT

SECTION I
SECTION II



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Corporation**

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Australia's Bridge Oil Gets \$263 Million Offer from Enron/CalPERS Partnership

Gantry Acquisition Corp., Houston, which is wholly owned by Joint Energy Development Investments Limited Partnership (JEDI), intends to make a full cash offer of approximately U.S. \$263 million (Australian \$356.7 million) for Australia's Bridge Oil Ltd.

JEDI is a partnership between a subsidiary of Houston-based Enron Corp's Enron Gas Services Group

(EGS) unit and the California Public Employees' Retirement System (CalPERS). It was formed in 1993 to invest in natural gas projects and assets. CalPERS is one of the largest public pension funds in North America, with assets of approximately \$80 billion.

Gantry's offer for Bridge tops a \$208 million bid made last month by Midland-based Parker & Parsley Pe-

troleum Co (PI 5-12-94). Parker & Parsley currently owns approximately 17.5 million Bridge shares, or approximately 4.2 percent of the total number of shares outstanding.

The Gantry offer has been welcomed by Bridge's board of directors, who have recommended that shareholders accept it, providing that no higher offer is received. Upon successful completion of the tender offer, Bridge is expected to operate independently as a stand-alone entity.

At year-end 1993, Bridge listed total proved and probable reserves of 86 million bbls of oil equivalent (BOE), including 54.8 million bbls in the U.S. and 31.2 million bbls in Australia. Production in 1993 was approximately 9.4 million BOE.

Bridge owns properties in Australia, principally in the Cooper and Surat basins, with additional prospective properties in the Northwest Shelf and Orway Basin areas. Bridge Oil (USA) Inc, a wholly owned subsidiary, conducts substantial operations in the U.S., primarily in the Gulf Coast area of Texas. Recently, Bridge completed a \$48 million acquisition of certain Mid-Continent and Rocky Mountain properties from Santa Fe Energy Resources (PI 4-22-94, *This Week*).

(Arizona, continued from Page 1)

Ventures completed a 3296-ft dry hole seven miles west-southwest of the Ridgeway wildcat at the 1B State 13-92903 in ne nw 28-12n-28e. Prior to completion as a water well, the operator reported drilling difficulties resulting from unconsolidated rock, water flows and caverns. Samples indicated the top of Coconino at 500 ft.

Nine miles southwest of the new wildcat, Tenneco Oil in 1967 completed the 1 Federal-C, se nw 22-11n-28e, as a 1687-ft dry hole. Formation tops at that well include Kaibab at 149 ft, Coconino 511, Fort Apache 1440 and Supai (Permo-Pennsylvanian) at 1556 ft. The wildcat was spudded in Moenkopi from a Kelly bushing elevation of 6064 ft. Tenneco reported shows of oil in Fort Apache, but did

not core or drillstem test the wildcat.

The only drilling to Precambrian in the area is approximately 20 miles west of the Ridgeway wildcat, at a 4143-ft dry hole drilled in 1983 by Sumatra Energy at the 1-17 Santa Fe Railroad in nw nw 17-12n-26e. Log tops at this wildcat include Moenkopi at 538 ft, Kaibab 750, Coconino 830, Supai 1123, Fort Apache 2515, Naco (Permo-Pennsylvanian, including equivalent of Paradox group) 2940, Redwall (Mississippian) 3528, granite wash 4016 and Precambrian at 4072 ft.

Sumatra noted oil staining in Moenkopi and Kaibab, and gas shows throughout the Naco and Redwall sections. No drillstem tests were reported.

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Rocky Mountain Region Report (USPS 113-170). Price: \$1644 per year. "Northern Edition" Price: \$1392 per year. "Wyoming Edition" Price: \$1392 per year. "Four Corners-Intermountain Edition" Price: \$1008 per year. "Southeastern Edition" Price: \$1008 per year. "Newsletter Edition" Price: \$936 per year. Published by Petroleum Information Corporation, Monday through Friday except Presidents' Day, Good Friday, Memorial Day, Independence Day, Labor Day, Thanksgiving Day and the day after, and Christmas Day and the day after, 4100 East Dry Creek Road, Littleton, CO 80122. Second class postage paid at Littleton, CO 80122 and additional mailing offices. Postmaster: Send address changes to: Rocky Mountain Region Report, P.O. Box 2612, Denver, CO 80201.

6-24-94 John Somers

Wells in NM had gas but El Paso wouldn't run pipeline

Giant shut-in one day/week because they don't have sufficient crude to run

Plan 9 5/8" to ~145' top of San Andres

7" to ~805' through Glocieta

6-29-94 H. Lee Betty

Grew up in area (Springerville - St. Johns)

Several little wells ~2-3 mi north of St. Johns

apparently they found something

Warm Spring (pool) ~7 mi SW of St. Johns

may be detrimental to oil potential

Has deep rights (lower Mississippian) in Manitoba

Alva Shumway (cousin) 40 acres, ranch

Jack Brown



High Plains Petroleum Corporation
3860 Carlock Dr. Boulder, CO 80303 303-494-4529

June 23, 1994

Mr. Steven L. Rauzi
Oil & Gas Program Administrator
Arizona Geological Survey
845 N. Park Ave, #100
Tucson, AZ 85719

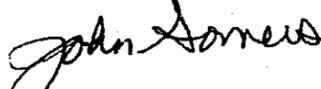
Re: Application for Permit to Drill
Ridgeway/Canstar Plateau Cattle Co. #1
NESW Sec. 15, T12N, R29E,
Apache County, Arizona

Dear Steve,

Enclosed please find the following: an organization report for Ridgeway Arizona Oil Corp. (Form 1); the assignment of a \$10,000 CD for bonding purposes; an Application for Permit to Drill including a drilling prognosis and a check in the amount of \$25 for the application fee.

Your prompt processing of this application and issuance of a Permit to Drill would be appreciated.

Sincerely,


John Somers

Enclosures
cc: Ridgeway Petroleum Corp.
F.L. Shogrin





Fife Symington
Governor

State of Arizona
Arizona Geological Survey
845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795



Larry D. Fellows
Director and State Geologist

June 7, 1994

Mr. John Somers
High Plains Petroleum
3860 Carlock Dr.
Boulder, CO 80303

Dear Mr. Somers:

As you requested in our conversation today, please find enclosed the Arizona Oil and Gas Conservation Commission Form 2, Performance Bond. Also, I enclosed a copy of the Assignment form.

If we can be of further service to you, please don't hesitate to call.

Very truly yours,

Pam Lott
Oil and Gas Secretary

Encls.



Fife Symington
Governor

State of Arizona
Arizona Geological Survey

845 North Park Avenue, #100
Tucson, Arizona 85719
(602) 882-4795

November 28, 1994



Larry D. Fellows
Director and State Geologist

Memo: Blanket Bond File

From: *SLR* Steven L. Rauzi, Oil and Gas Program Administrator

Re: Blanket Bond for Ridgeway Arizona Oil Corporation
St. Johns Bank One Certificates of Deposit #4002112 & 4002111

Ridgeway Arizona Oil Corporation has posted a \$25,000 blanket bond consisting of two separate certificates of deposit as referenced above. As a result of these two separate certificates of deposit representing a single bond of \$25,000, they should be held in safekeeping together and not released until all wells drilled by Ridgeway Arizona Oil Corporation under its blanket bond, whether productive or not, have been plugged and abandoned.

The \$25,000 blanket bond consists of two separate certificates of deposit because Ridgeway Arizona Oil Corporation initially posted a \$10,000 bond for a single well, the Plateau Cattle Company #1 (permit 880). That well was considered a potential discovery that could lead to the drilling of several confirmation and development wells and a blanket bond was desired. Rather than cash the \$10,000 certificate with a penalty and post a \$25,000 certificate of deposit, Ridgeway posted an additional, and separate, \$15,000 certificate to bring its total bond amount up to the \$25,000 required for blanket bond coverage.

filed permit 880

SECURITIES SAFEKEEPING
 1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

DATE: 11-28-94

STATE AGENCY NO. _____

STATE AGENCY ARIZONA GEOLOGICAL SURVEY
 COMPANY RIDGEWAY ARIZONA OIL CORP ✓
1080 700 4TH AVE SW
CALGARY, ALBERTA CANADA

State Treasurer's Use Only

DOMESTIC FOREIGN

DEPOSIT

C.D. NO.: 4002112 ✓

BANK: BANK ONE, ARIZONA, NA ✓

MATURITY DATE: 11-18-95 ✓

INTEREST RATE: 3.85 % ✓

AMOUNT \$ 15,000.00 ✓

RECEIVED BY STATE TREASURER
 NOV 29 9 30 AM 1994

C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS PAYABLE TO STATE TREASURER

RELEASE

C.D. NO.:

BANK:

MATURITY DATE:

INTEREST RATE: %

AMOUNT \$

STATE TREASURER VALIDATION NO. _____

RECEIVED THE ABOVE RELEASE		STATE AGENCY AUTHORIZATION	
BY _____	_____	BY <u>Steven L. Ramey</u>	_____
Authorized Signature	Date	Authorized Signature	
Bank or Firm		STATE TREASURER AUTHORIZATION	
_____		BY <u>Katherine Helton</u>	_____
		Authorized Signature	
FOR BANK USE ONLY		BANK AUTHORIZATION	
Checked by _____	Verified by _____	BY _____	_____
		Authorized Signature	
		STATE'S DEPOSITORY BANK	

**ASSIGNMENT TO ARIZONA STATE TREASURER
SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH
SECTION 35-155 ARIZONA REVISED STATUTES**

NAME RIDGEWAY ARIZONA OIL CORP.
 STREET ADDRESS 1080 700 - 4th Ave. S.W. Calgary CITY Calgary
 COUNTY Alberta STATE Canada T2P 3J4 TELEPHONE NUMBER (403) 266.6362

hereinafter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in the principal, but not in the interest hereinafter accruing after the date of this assignment in the insured account of ASSIGNOR so long as such funds remain on deposit in the Bank One, Az.

FINANCIAL INSTITUTION
 whose address is 820 W. Cleveland St. Johns, Az. 85936 Apache
 STREET ADDRESS CITY COUNTY

Arizona, as evidenced by an account in the amount of -----FIFTEEN THOUSAND AND NO/100----- dollars (\$ 15,000.00) identified by account number 8157-4865/4002112 which account is insured by the Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for compliance with A.R.S. 27-501 through 27-539, 27-651 through 27-677, and with the Rules of the Oil and Gas Conservation Commission of the State of Arizona.

Dated this 18 day of November, 1994, at St. Johns, Arizona.

IMPORTANT - SIGNATURE OF ASSIGNOR
 This Assignment shall be signed by the Individual Himself BY: RIDGEWAY ARIZONA OIL CORP.
[Signature] NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE
 SIGNATURE OF ASSIGNOR

FIRST ENDORSEMENT - RECEIPT FOR NOTICE OF ASSIGNMENT

Receipt is hereby acknowledged to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, of written notice of the assignment to said Treasurer of the above-identified account. We have noted our records to show the interest of the Treasurer in said account as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not received any notice of lien, encumbrance, hold, claim or other obligation against the above-identified account prior to its assignment to the Treasurer. We further hereby waive any current and future right of set-off against such account. We agree to make payment as required by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.

Dated this 18 day of November, 1994, at St. Johns, Arizona

BANK ONE ARIZONA, N.A. NAME OF FINANCIAL INSTITUTION
 BY: [Signature] MANAGER
 SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION TITLE

Subscribed and sworn before me this 18 day of November, 1994

[Signature]
 NOTARY PUBLIC
 STATE OF ARIZONA PUBLIC SIGNATURE
 County of Apache 3-31-98
 TAMELA S. GONZALEZ EXPIRES
 My Appointment Expires May 31, 1998

SECOND ENDORSEMENT - RECEIPT FOR SECURITY AND DISCRETION TO PAY EARNINGS

Receipt is acknowledged of the assignment above and the account identified in the assignment above. The financial institution named in the assignment above is hereby authorized and directed to pay any earnings credited after the date of this assignment on the above-identified account of the above-named assignor.

Dated this 18 day of November, 1994, at St. Johns, Az., Arizona.

ARIZONA STATE TREASURER
 Treasurer or Authorized Representative
 By: [Signature]
 (Prepare in duplicate. Please Type all information)

Attach Original Assignment to Certificates of Deposit and File with State.

STATE OF ARIZONA
 RECEIVED
 NOV 23 9 00 AM '94

SECURITIES SAFEKEEPING
 1700 WEST WASHINGTON ST. - PHOENIX, ARIZONA 85007

DATE: 7/7/94

STATE AGENCY NO. _____

STATE AGENCY OIL & GAS CONSERVATION COMMISSION

State Treasurer's Use Only

COMPANY RIDGEWAY ARIZONA OIL CORP. ✓
1080 700 4TH AVENUE S.W.
CALGARY ALBERTA T2P 3J4

DOMESTIC FOREIGN

DEPOSIT

C.D. NO.: 4002111 ✓

BANK: BANK ONE, ARIZONA, NA ✓

MATURITY DATE: 6/14/95 ✓

INTEREST RATE: 3.3500 % ✓

AMOUNT \$ 10,000.00 ✓

RECEIVED
STATE TREASURER
JUL 8 9 12 AM '94

C.D. ASSIGNMENT MUST BE ATTACHED UNLESS C.D. IS PAYABLE TO STATE TREASURER

RELEASE

C.D. NO.:

BANK:

MATURITY DATE:

INTEREST RATE: %

AMOUNT \$

STATE TREASURER VALIDATION NO. _____

RECEIVED THE ABOVE RELEASE		STATE AGENCY AUTHORIZATION	
BY _____		BY <u>Edmond L. Roney</u>	
Authorized Signature		Authorized Signature	
Date		STATE TREASURER AUTHORIZATION	
_____		BY <u>Katherine's Valentin</u>	
Bank or Firm		Authorized Signature	
FOR BANK USE ONLY		BANK AUTHORIZATION	
BY _____		BY _____	
Checked by		Authorized Signature	
Verified by		STATE'S DEPOSITORY BANK	

ASSIGNMENT TO ARIZONA STATE TREASURER
SECURITY IN LIEU OF CASH DEPOSIT FOR COMPLIANCE WITH
SECTION 35-155 ARIZONA REVISED STATUTES

RIDGEWAY ARIZONA OIL CORP.
NAME 1080, 700 - 4th Ave. S.W. Calgary CITY
STREET ADDRESS
Alberta Canada T2P 3J4 (403) 266-6362 TELEPHONE NUMBER
COUNTY STATE

hereinafter referred to as ASSIGNOR, does hereby assign and transfer to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, all right, title and interest of any kind whatsoever, owned or held by Assignor in principal, but not in the interest hereinafter accruing after the date of this assignment in the insured account of ASSIGNOR so long as such funds remain on deposit in the

ST. JOHNS BANK ONE
FINANCIAL INSTITUTION
whose address is 820 West Cleveland, St. Johns, Arizona 85936
STREET ADDRESS CITY COUNTY

Arizona, as evidenced by an account in the amount of TEN THOUSAND dollars (\$ 10,000.00) identified by account number 81575016 ✓ 4002111 ✓ which account is insured by the Federal Deposit Insurance Corporation or the Federal Savings and Loan Insurance Corporation. This assignment is given as security for compliance with A.R.S. §§ 27-501 through 27-539, §§ 27-651 through 27-677, and with the Rules of the Oil and Gas Conservation Commission.

Dated this 9 day of June, 1994, at St. Johns, Arizona.

IMPORTANT - SIGNATURE OF ASSIGNOR

RIDGEWAY ARIZONA OIL CORP.

NAME OF ASSIGNOR EXACTLY AS SHOWN ABOVE

This assignment shall be signed by the Individual Himself

BY: [Signature]
SIGNATURE OF ASSIGNOR

FIRST ENDORSEMENT - RECEIPT FOR NOTICE OF ASSIGNMENT

Receipt is hereby acknowledged to the Treasurer of the State of Arizona, hereinafter referred to as the TREASURER, of written notice of the assignment to said Treasurer of the above-identified account. We have noted in our records to show the interest of the Treasurer in said account as shown in and by the assignment above. We have retained a copy of this document. We hereby certify that we have not received any notice of lien, encumbrance, hold, claim or other obligation against the above-identified account prior to its assignment to the Treasurer. We further hereby waive any current and future right of set-off against such account. We agree to make payment as required by the Rules and Regulations of the Treasurer adopted in accordance with applicable laws and the law applicable to this institution.

Dated this 14 day of JUNE, 1994, at ST JOHNS, Arizona.

BANK ONE ARIZONA, NA
NAME OF FINANCIAL INSTITUTION
BY: [Signature] Customer Service Assistant
SIGNATURE OF OFFICER OF FINANCIAL INSTITUTION TITLE

Subscribed and sworn before me this 14 day of JUNE, 1994

[Signature]
STATE OF ARIZONA
County of Apache
TAMEHA S. HERRICK
My Appointment Expires May 31, 1998
COMMISSION EXPIRES

SECOND ENDORSEMENT - RECEIPT FOR SECURITY AND DIRECTION TO PAY EARNINGS

Receipt is acknowledged of the assignment above and the account identified in the assignment above. The financial institution named in the assignment above is hereby authorized and directed to pay any earnings credited after the date of this assignment on the above-identified account of the above-named assignor.

Dated this _____ day of _____, 19____, at _____, Arizona

ARIZONA STATE TREASURER
Treasurer or Authorized Representative
BY: [Signature]
(Prepare in duplicate. Please Type all Information)

Attach Original Assignment to Certificate of Deposit and File with State.

RECEIVED
TREASURER
JUN 14 1994

Bank One, Arizona, NA

**Certificate of Deposit
NON TRANSFERABLE**

4002111

BRANCH ST JOHNS OFFICE

BRANCH NO. 06-11-91 DATE 06-14-94

THIS CERTIFIES THAT THERE HAS BEEN DEPOSITED IN THIS BANK

PAY TO RIDGEWAY ARIZONA OIL CORP.

ACCOUNT NO. 81575016

\$ 10,000.00

(UPON
SURRENDER
OF THIS
CERTIFICATE
PROPERLY
ENDORSED)

1080-700 4TH AVENUE S.W.
CALGARY, ALBERTA

00000

THIS CERTIFICATE MATURES IN 365 Days FROM ISSUE DATE ON
June 14 19 95 INTEREST IS TO BE PAID Monthly
AT THE RATE OF 3.3500 % PER ANNUM ON AN ACTUAL NUMBER OF DAYS PER YEAR BASIS.

FIRST INTEREST PAYMENT DUE 07-14-94

SINGLE MATURITY - INTEREST CEASES AT MATURITY
 AUTOMATICALLY RENEWABLE - THE CERTIFICATE WILL AUTOMATICALLY RENEW EVERY 365 Days

UNLESS REDEEMED WITHIN 10 CALENDAR DAYS (ONE BUSINESS DAY FOR MATURITIES OF 31 DAYS OR LESS) AFTER ANY MATURITY. THE BANK RETAINS THE RIGHT TO REDEEM THIS CERTIFICATE OR CHANGE THE INTEREST RATE AND OTHER TERMS AS OF ANY MATURITY.

Debbie Olson
AUTHORIZED SIGNATURE

0-100-0675 Rev. 7/91 (2/93)

COPY

Bank One, Arizona, NA

**Certificate of Deposit
NON TRANSFERABLE**

4002112

BRANCH St. Johns

BRANCH NO. 043 DATE 11-18-94

THIS CERTIFIES THAT THERE HAS BEEN DEPOSITED IN THIS BANK

PAY TO Ridgeway Arizona Oil Corp.
1080 700 4th Ave SW
Calgary, Alberta
Canada

ACCOUNT NO. 8157-4865

\$ 15,000.00

(UPON
SURRENDER
OF THIS
CERTIFICATE
PROPERLY
ENDORSED)

THIS CERTIFICATE MATURES IN 365 days (1 yr) FROM ISSUE DATE ON
11-18 19 95 INTEREST IS TO BE PAID Monthly
AT THE RATE OF 3.85 % PER ANNUM ON AN ACTUAL NUMBER OF DAYS PER YEAR BASIS.

FIRST INTEREST PAYMENT DUE 12-18-94

SINGLE MATURITY - INTEREST CEASES AT MATURITY
 AUTOMATICALLY RENEWABLE - THE CERTIFICATE WILL AUTOMATICALLY RENEW EVERY 365 days

UNLESS REDEEMED WITHIN 10 CALENDAR DAYS (ONE BUSINESS DAY FOR MATURITIES OF 31 DAYS OR LESS) AFTER ANY MATURITY. THE BANK RETAINS THE RIGHT TO REDEEM THIS CERTIFICATE OR CHANGE THE INTEREST RATE AND OTHER TERMS AS OF ANY MATURITY.

Barbara J. Preston
AUTHORIZED SIGNATURE

0-100-0675 Rev. 7/91 (2/93)