



W-2

Great Western Drilling Co. & W.A. Moncrief
1 El Paso-Navajo NE/4 NE/4
Sec. 20 - T41N - R25E Apache County

s1

COUNTY Apache AREA Four Corners LEASE NO. NAV 14-20-603-732

WELL NAME Great Western Drlg. Co. & W. A. Moncrief El Paso-Navajo #1

LOCATION NE NE SEC 20 TWP 41N RANGE 25E FOOTAGE 800 FNL 330 FEL
ELEV GR 4871 KB SPUD DATE 9-19-63 STATUS DF TOTAL DEPTH 7099'
COMP. DATE 10-23-63

CONTRACTOR

CASING SIZE 13 3/8 DEPTH 174' CEMENT 150 sx LINER SIZE & DEPTH _____
DRILLED BY ROTARY x
DRILLED BY CABLE TOOL _____
PRODUCTIVE RESERVOIR _____
INITIAL PRODUCTION P&A

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Ismay	4728'		x	Am Strat differs
Desert Creek	4842'			
Akah	4950'			
Barber Creek	5118'			
Molas	5574'			
Miss	5683'			
Ouray	6025'			
Elbert	6166'			
McCracken	6435'			
Aneth	6532'			
Bright Angel	6704'			
Tepeats	6771'			
Pre-Cambrian	7000'			

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
IE; Acoustic Velocity	NA	NA	Am Strat
			SAMPLE DESCRP.
			SAMPLE NO. <u>1276*</u>
			CORE ANALYSIS
			DSTs
			*Tucson 2017

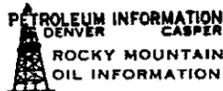
REMARKS Mud and Cutting Analysis
APP. TO PLUG x
PLUGGING REP. x
COMP. REPORT x

WATER WELL ACCEPTED BY _____

BOND CO. U. S. F & G BOND NO. 67428
DATE _____
BOND AMT. \$ 2,500 CANCELLED 7-23-64 ORGANIZATION REPORT x
FILING RECEIPT 9343 LOC. PLAT x WELL BOOK x PLAT BOOK x
API NO. _____ DATE ISSUED 9-6-63 DEDICATION E/2 NE/4

PERMIT NUMBER 245

745
ARIZONA
APACHE CO.
WALKER CREEK (D)



Twp 4In-25e
Section 20
ne ne
800 s/n 330 w/e

OPR: Great Western Drilling; W. A. Moncrief

WELL #:

1 El Paso-Navajo

ELEV: 4874 KB.

TOPS: Log-Samplex

Spl Tops:

Honaker Trail 4000
Ismay 4710
Desert Creek 4810
Akah 4925
Barker Creek 5050
Molas 5475
Mississippian 5640
Ouray 6010
Elbert 6090

DSTS. & CORES:

Crđ 6360-80, rec 20
dolo, hard & tight.
Crđ 6380-90, rec 10
dolo, sandy, tight.
Crđ 6390-6410, rec 20
dolo, dense, tight, sandy
in part.

SPUD: 9-19-63

COMPL: 10-23-63

TD: 7099

PB:

CSG: 13-3/8" @ 174 w/150.

PERF:

BROD. ZONE:

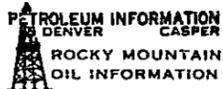
INIT. PROD: D & A

Contr: Loffland

(CARD WILL BE RE-ISSUED WHEN DATA RELEASED)

ARIZ 2-460360

ARIZONA
APACHE CO.
WALKER CREEK (D)



Twp 41n-25e
Section 20
ne ne
800 s/n 330 w/e

OPR: Great Western Drilling; W. A. Moncrief WELL #: 1 El Paso-Navajo

ELEV: 4874 KB
TOPS: Log-~~XXXXX~~
Honaker Trail 4005
Ismay 4727
Desert Creek 4840
Akah 4950
Barker Creek 5120
Molas 5537
Mississippian 5682
Ouray ls 6060
Elbert 6170
McCracken 6430
Aneth 6533
Cambrian 6690
Tapeats 6815
preCambrian 7033

DSTS. & CORES:
Crd 6360-80, rec 20
dolo, hard & tight. Crd
6380-90, rec 10 dolo,
sdy, tight. Crd 6390-
6410, rec 20 dolo,
dense, tight, sdy in
part. DST 6500-35,
SI 30 mins, open 1 hr,
SI 30 mins, rec 180
MC salt wtr, 720 salt
wtr, SIP 2337-2051#.
FP not available.

Contr: Loffland Bros.

SPUD: 9-19-63 COMPL: 10-23-63
TD: 7099 FB:
CSG: 13-3/8" @ 174 w/150

PERF:

PROD. ZONE:

INIT. PROD: D&A

(RE-ISSUED CARD)

ARIZ15-568060

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 **Great Western Drilling Company** Address **Box 1659, Midland, Texas**

Lease Name **El Paso Navajo** Well Number **1** Field & Reservoir **Wildcat**

Location **800' FNL 330' FEL** Sec.—TWP-Range or Block & Survey **20 T-41N R-25E**

County **Apache** Permit number **245** Date Issued **Sept. 11, 1963** Previous permit number _____ Date Issued _____

Date spudded **Sept. 19, 1963** Date total depth reached **7099'** Date completed, ready to produce **P & A** Elevation (DP, RKB, RT or Gr.) **4863** feet Elevation of casing hd. flange _____ feet

Total depth **P & A** P.B.T.D. _____ Single, dual or triple completion? _____ If this is a dual or triple completion, furnish separate report for each completion.

Producing interval (s) for this completion **None** Rotary tools used (interval) **0-7099** Cable tools used (interval) _____

Was this well directionally drilled? _____ Was directional survey made? _____ Was copy of directional survey filed? _____ Date filed _____

Type of electrical or other logs run (check logs filed with the commission) **G. N. Logs** 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	17"	13 3/8"	54.5	174	150	None

TUBING RECORD

LINER RECORD

Size in.	Depth set ft.	Packer set at ft.	Size in.	Top ft.	Bottom ft.	Sacks cement	Screen (ft.)

PERFORATION RECORD

ACID, SHOT, FRACTURE, CEMENT SQUEEZE RECORD

Number per ft.	Size & type	Depth Interval	Am't. & kind of material used	Depth Interval

INITIAL PRODUCTION

Date of first production _____ Producing method (indicate if flowing, gas lift or pumping—if pumping, show size & type of pump:)

Date of test	Hrs. tested	Choke size	Oil prod. during test bbls.	Gas prod. during test MCF	Water prod. during test bbls.	Oil gravity ° API (Corr)

Tubing pressure	Casing pressure	Cal'ed rate of Production per 24 hrs.	Oil bbls.	Gas MCF	Water bbls.	Gas—oil ratio

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

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Administrative Coordinator of the Great Western Drilling (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 November 6, 1963 Signature [Handwritten Signature]

JKP
Dec 7th 1963
Permit 245

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION
Well Completion or Recompletion Report and Well Log
Form No. P-7 File two copies

DETAIL OF FORMATIONS PENETRATED

Formation	Top	Bottom	Description*
Surface sand rock	0	350	Shale streaks (Top chine 350')
Sand & Shale	350	1880	
Sand	1880	1950	
Shale w/sd. streaks	1950	3100	
Sd,SH,LM stringers	3100	4000	
Lime & shale	4000	4700	
Lm. w/int. sh	4700	5550	
Shale	5550	5680	
Lime	5680	6020	
Lime & shale	6020	6430	
Sd. w/lime	6430	6530	
Parsons (dol)	6530	6655	
Shale-sand	6655	6815	
Sand - shale	6815	7033	
Quartzite	7033	7099	
D.S.T. (6500-6535)	Oct. 22, 1963		Rec. 180' mud cut salt water plus 720' of salt water. 1 hr. ISIP 2337 1/2 hr. FSIP 2051 1/2 hr.

* 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.

INSTRUCTIONS:

Attach drillers log or other acceptable log of well.

This Well Completion or Recompletion report and well log shall be filed with the State of Arizona Oil & Gas Conservation Commission not later than thirty days after project completion.

PLUGGING RECORD

Operator Great Western Drilling Company		Address Box 1659, Midland, Texas	
Name of Lease El Paso Navajo		Well No. 1	Field & Reservoir Wildcat
Location of Well 800' FNL 330' FEL		Sec-Twp-Rge or Block & Survey 20, T-41N, R-25-E	County Apache
Application to drill this well was filed in name of Great Western Drilling Company No.	Has this well ever produced oil or gas	Character of well at completion (Initial production): Oil (bbls/day) Gas (MCF/day) Dry? <input checked="" type="checkbox"/>	
Date plugged: October 23, 1963	Total depth 7099'	Amount well producing when plugged: Oil (bbls/day) Gas (MCF/day)	Water (bbls./day) 720 of salt water
Name of each formation containing oil or gas. Indicate which formation open to well-bore 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 cement.
None			

CASING RECORD

Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)	Give depth and method of parting casing (shot, ripped etc)	Packers and shoes
13 3/8"	164	None	164		

Was well filled with mud-laden fluid, according to regulations? Indicate deepest formation containing fresh water.

NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE

Name Navajo Tribe	Address Window Rock Agency	Direction from this well:

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.

Plugs were set as in original application to plug. Open hole 174 to cement plug

@ 350'. Don't know about water.

Use reverse side for additional detail
File this form in duplicate with the State of Arizona Oil & Gas Conservation Commission

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the Administrative Coordinator of the Great Western Drilling (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 **November 6, 1963**

Signature *[Handwritten Signature]*

STATE OF ARIZONA OIL & GAS
CONSERVATION COMMISSION
Plugging Record File two copies
Form No. P-15

245
[Handwritten initials] 11/6/63

APPLICATION TO ABANDON AND PLUG

FIELD Wildcat
OPERATOR Great Western Drilling Company ADDRESS Box 1659, Midland, Texas
LEASE El Paso Navajo WELL NO. 1 COUNTY Apache
SURVEY E SECTION 20 DRILLING PERMIT NO. 245
LOCATION 800' F.N.L. and 330' F.E.L. Sec. 20 T-41-N, R-25-E G & SR Meridan, Apache County, Arizona

TYPE OF WELL Dry Hole TOTAL DEPTH 7099'
ALLOWABLE (If Assigned) (Oil, Gas or Dry Hole)

LAST PRODUCTION TEST OIL (Bbls.) WATER (Bbls.)
GAS (MCF) DATE OF TEST

PRODUCING HORIZON None PRODUCING FROM TO

1. COMPLETE CASING RECORD. 164' of 13 3/8", H-40, 54.5# new casing was cemented at 174' using 150 sacks. The cement circulated.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Cement plugs are proposed as follows:

- 45 sacks @ 6600-6450'
30 " @ 5725-5625'
30 " @ 4050-3950'
45 " @ 1950-1800'
30 @ @ 450-350' The well was capped as required by U.S.G.S. and left as a water well for Navajo Indians.

If well is to be abandoned, does proposed work conform with requirements of Rule 202? Yes If not, outline proposed procedure above.

DATE COMMENCING OPERATIONS October 23, 1963
NAME OF PERSON DOING WORK Loffland Bros. Co. ADDRESS Farmington, New Mexico
CORRESPONDENCE SHOULD BE SENT TO Great Western Drilling Co., Box 1659, Midland, Texas

NAME O.H. Crews (O.H. Crews)
TITLE Administrative Coordinator

Date Approved 10/25, 1963

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Application to Abandon and Plug Form No. 15A File 2 Copies

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R714.4
Approval expires 12-31-60.

ALLOTTEE _____
TRIBE Navajo
LEASE NO. _____

LESSEE'S MONTHLY REPORT OF OPERATIONS

State Arizona County Apache Field Wildcat
The following is a correct report of operations and production (including drilling and producing wells) for the month of October, 1963, El Paso Navajo
Agent's address P. O. Box 1659 Company Great Western Drilling Co. &
Midland, Texas Signed W. A. Moncrief
Phone Mutual 2 5241 Agent's title Adm. Coordinator

SEC. AND H OF H	TWP.	RANGE	WELL NO.	DAYS PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NE 20	41N	25E	1							P & A 10/22/63

NOTE.—There were No runs or sales of oil; No M. cu. ft. of gas sold;
No runs or sales of gasoline during the month. (Write "no" where applicable.)

NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R714.4
Approval expires 12-31-60.

ALLOTTEE _____
TRIBE NAVAJO
LEASE No. _____

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State Arizona County Apache Field Wildcat
The following is a correct report of operations and production (including drilling and producing wells) for the month of September, 1963, El Paso Navajo
Agent's address P. O. Box 1659 Company Great Western Drilling Co. &
Midland, Texas Signed W. A. ~~Monteref~~ *Albrow*
Phone Mutual 2 5241 Agent's title Adm. Coordinator

SEC. AND 1/4 OF 1/4	TWP.	RANGE	WELL NO.	DATE PRODUCED	BARRELS OF OIL	GRAVITY	CU. FT. OF GAS (In thousands)	GALLONS OF GASOLINE RECOVERED	BARRELS OF WATER (If none, so state)	REMARKS (If drilling, depth; if shut down, cause; date and result of test for gasoline content of gas)
NE NE 20	41N	25E	1							Drilling @4780'

945 Note.—There were _____ runs or sales of oil; _____ M. cu. ft. of gas sold; _____ runs or sales of gasoline during the month. (Write "no" where applicable.)
NOTE.—Report on this form is required for each calendar month, regardless of the status of operations, and must be filed in duplicate with the supervisor by the 6th of the succeeding month, unless otherwise directed by the supervisor.

CORE LABORATORIES, INC.
Petroleum Reservoir Engineering
DALLAS, TEXAS
October 22, 1963

REPLY TO:
724 PATTERSON BUILDING
DENVER, COLORADO 80202

Great Western Drilling Company
728 Patterson Building
Denver, Colorado 80202

Attention: Mr. Frank I. Pritchett

SUBJECT: Mud and Cuttings Analysis
No. 1 El Paso Navajo
Wildcat Field
Apache County, Arizona

Gentlemen:

in pocket file
A mud and cuttings analysis unit was on location at the above well site during drilling operations between the depths of 4600.0 and 7090.0 feet. The mud was continuously monitored for the presence of hydrocarbons. In addition to a standard "Hot-Wire" gas detector, a programmed hydrocarbon detector was utilized for this purpose. Using standard logging procedures, our personnel checked the cuttings at regular intervals for the presence of hydrocarbons and lithology. The results of these operations are shown on the accompanying Grapholog along with other pertinent information, such as a rate of penetration curve, bit record, lithological descriptions, drill stem test results and descriptions of shows encountered.

After reviewing the Grapholog, we feel that it is self explanatory. If, however, there is any matter about which you desire further information or clarification please notify us, and we shall be most happy to discuss the matter with you.

We trust that our services have been of assistance in the evaluation of this well and that we may be of further assistance to you in the future.

Very truly yours,

CORE LABORATORIES, Inc.

J.D. Harris

J.D. Harris
Division Manager

JDH:amk

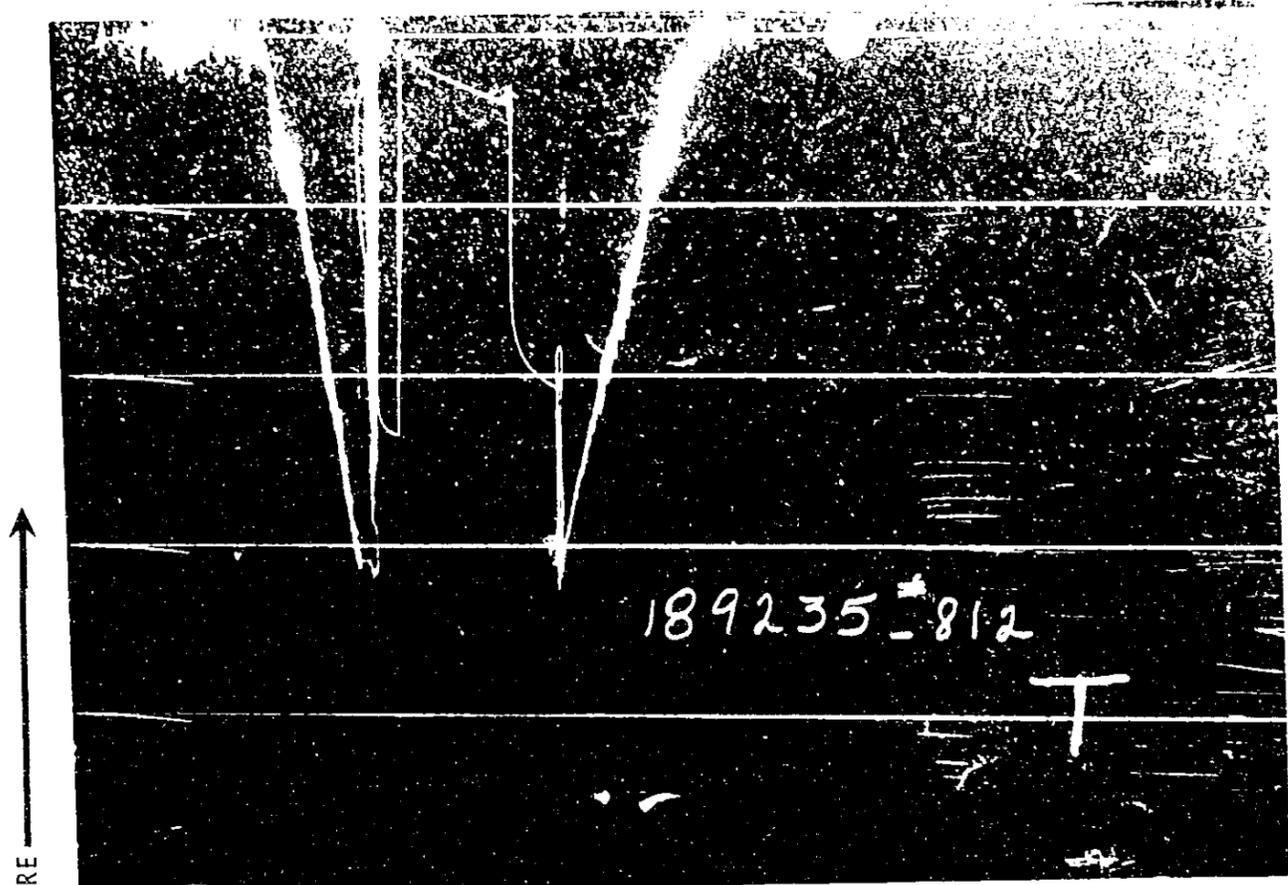
Flow Time	1st 4 Min.	2nd 138 Min.	Date	10-22-63	Ticket Number	189235 - S
Closed In Press. Time	1st 30 Min.	2nd 60 Min.	Kind of Job	STRADDLE TEST OPEN HOLE	Halliburton District	FARMINGTON
Pressure Readings	Field	Office Corrected	Tester	SHEPPARD	Witness	COX
Depth Top Gauge	6483' Ft.	NO Blanked Off	Drilling Contractor	LOFFLAND 236		
BT. P.R.D. No.	812	24 Hour Clock	Elevation	4860'	Top Packer	6500' - 6495'
Initial Hydro Mud Pressure	3064.3	3109	Total Depth	7099'	Bottom Packer	6535'
Initial Closed in Pres.	2337.1	2349	Interval Tested	6500' - 6535'	Formation Tested	MC CRAKEN
Initial Flow Pres.	57.5	1 19 2 53	Casing or Hole Size	7 7/8"	Casing } Top Perfs. } Bot.	-
Final Flow Pres.	416.7	1 39 2 412	Surface Choke	BUBBLE HOSE	Bottom Choke	3/4"
Final Closed in Pres.	2051.4	2069	Size & Kind Drill Pipe	4 1/2" F.H.	Drill Collars Above Tester	2 1/2" - 360'
Final Hydro Mud Pressure	3092.9	3021	Mud Weight	8.9	Mud Viscosity	45
Depth Cen. Gauge		Blanked Off	Temperature	114	*F Est. Anchor Size ID 2 1/2" *F Actual & Length OD 6" X	564'
BT. P.R.D. No.		Hour Clock	Depths Mea. From	KELLY BUSHING	Depth of Tester Valve	6440' Ft.
Initial Hydro Mud Pres.			Cushion	NONE	Depth Back Pres. Valve	NONE Ft.
Initial Closed in Pres.			Recovered	180' Feet of mud cut salt water		
Initial Flow Pres.			Recovered	720' Feet of salt water		
Final Flow Pres.			Recovered	Feet of		
Final Closed in Pres.			Recovered	Feet of		
Final Hydro Mud Pres.			Oil A.P.I. Gravity	-	Water Spec. Gravity	-
Depth Bot. Gauge	6532' Ft.	YES Blanked Off	Gas Gravity	-	Surface Pressure	0# psi
BT. P.R.D. No.	814	24 Hour Clock	Tool Opened	5:53 PM A.M. P.M.	Tool Closed	9:45 PM A.M. P.M.
Initial Hydro Mud Pres.	3097.5	3134	Remarks	Tool opened for a 4 minute first flow. Re-		
Initial Closed in Pres.	2349.3	2372		tated tool for a 30 minute initial closed in press-		
Initial Flow Pres.	84.7	1 52 2 81		ure. Tool re-opened for a 138 minute second flow		
Final Flow Pres.	423.7	1 62 2 434		period. Took a 60 minute final closed in pressure.		
Final Closed in Pres.	2081.7	2089				
Final Hydro Mud Pres.	3069.2	3055				

EL PASO NAVAJO
 20 - JUN - 25E
 1
 1
 WILD CAT
 APACHE
 GREAT WESTERN & MONCIEE
 FARMINGTON
 ARIZONA

FORMATION TEST DATA

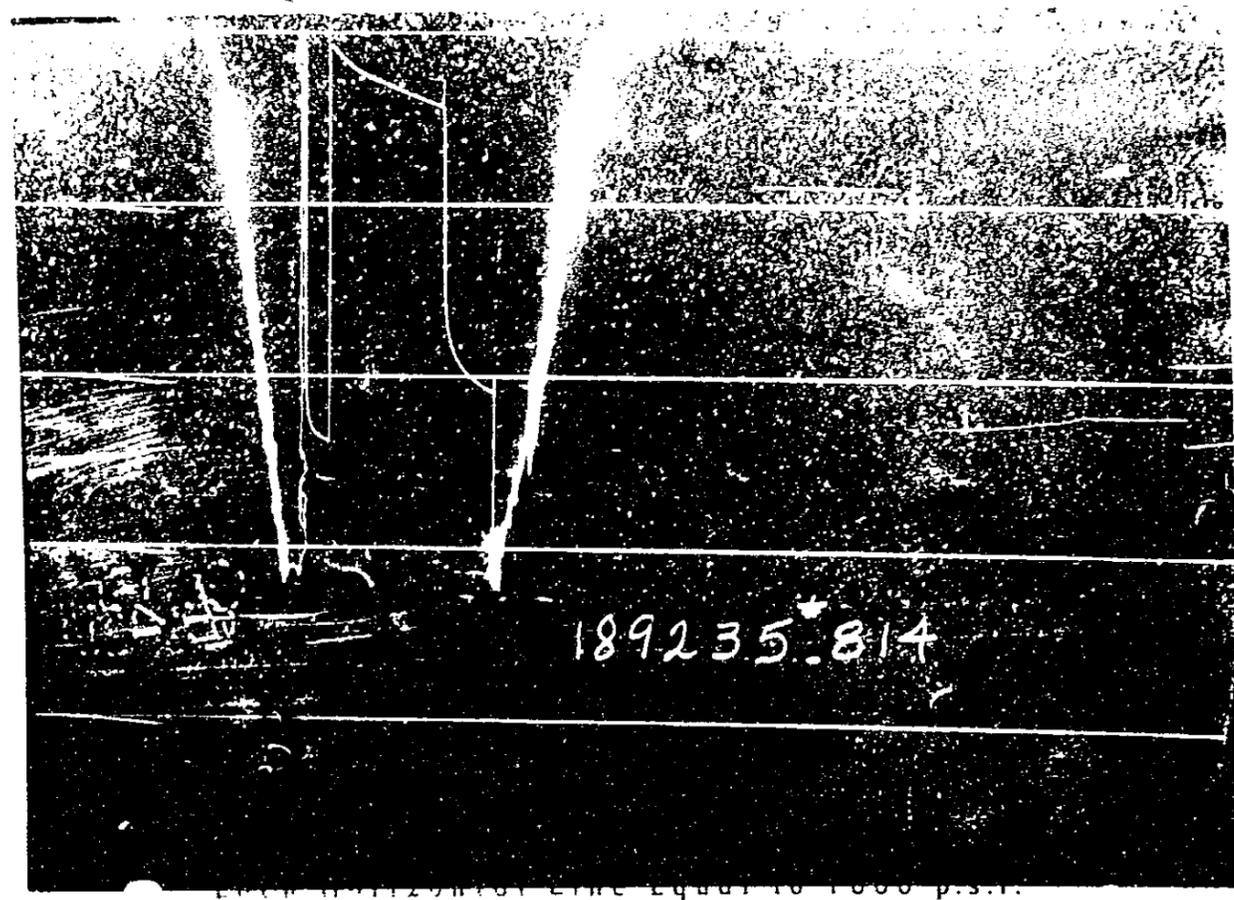
Gauge No. 812		Depth 6483		Clock 24		hour		Ticket No. 189235		
First Flow Period		Initial Closed In Pressure			Second Flow Period		Final Closed In Pressure			
Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	Time Defl. .000"	PSIG Temp. Corr.	Time Defl. .000"	Log $\frac{t+\theta}{e}$	PSIG Temp. Corr.	
P ₀	.000	19	.000		39	.000	53	.000		412
P ₁	.013	39	.0086		2249	.050	124	.0185		1789
P ₂			.0172		2277	.100	188	.0370		1859
P ₃			.0258		2299	.150	226	.0555		1913
P ₄			.0344		2313	.200	259	.0740		1947
P ₅			.0430		2323	.250	290	.0925		1974
P ₆			.0516		2330	.300	322	.1110		1999
P ₇			.0602		2336	.350	353	.1295		2021
P ₈			.0688		2341	.400	382	.1480		2040
P ₉			.0774		2347	.460	412*	.1665		2056
P ₁₀			.0860		2349			.1850		2069
Gauge No. 814		Depth 6532		Clock 24		hour				
P ₀	.000	52	.000		62	.000	31	.000		434
P ₁	.014	62	.0095		2234	.0516	141	.0204		1779
P ₂			.0190		2285	.1032	206	.0408		1866
P ₃			.0285		2313	.1548	246	.0612		1920
P ₄			.0380		2331	.2064	278	.0816		1961
P ₅			.0475		2342	.2580	311	.1020		1992
P ₆			.0570		2351	.3096	342	.1224		2018
P ₇			.0665		2358	.3612	371	.1428		2041
P ₈			.0760		2363	.4128	400	.1632		2059
P ₉			.0855		2368	.4750	434*	.1836		2076
P ₁₀			.0950		2372			.2040		2089
Reading Interval		3		15		6		Minutes		
REMARKS: * Last interval = 18 minutes.										

SPECIAL PRESSURE DATA



↑
PRESSURE
↓

← TIME →



245-



Your.....

Formation Testing Service Report



Form 9-331 b
(April 1952)

		X

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Budget Bureau No. 42-R-359.2
Approval expires 12-31-55.

Indian Agency Navajo
Window-Rock Arizona
Allottee Tribal
Lease No. 14-20-603-732

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	X
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL		

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

Midland, Texas September 23, 1963

El Paso Navajo
Well No. 1 is located 800 ft. from N line and 330 ft. from E line of sec. 20
NE/4 of NE/4 Sec. 20 T-41-N R-25-E G.N.S.R.M.
(34 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Wildcat Apache Co. Arizona
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 4863 ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

The above well was spudded September 19th. This was a continuous operation from September 11th when the road and location was started. 164' of 13 3/8" H-40, 54.5# new casing was circulated with 150 sacks of regular cement plus 2% HA5 at 174'. The plug was down @3:45 AM September 20th. After 24 hrs. a pressure of 850 psi was applied at the surface for 30 minutes. There was no pressure drop. Drilling was resumed.

I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company Great Western Drilling Company
Address Box 1659
Midland, Texas
By J.H. Crews
J.H. Crews
Title Administrative Coordinator

245

APPLICATION FOR PERMIT TO DRILL, DEEPEN OR PLUG BACK

APPLICATION TO DRILL DEEPEN PLUG BACK

NAME OF COMPANY OR OPERATOR

DATE September 4, 1963

Great Western Drilling Co. & W. A. Moncrief Midland, Texas

Address City State
Box 1659

DESCRIPTION OF WELL AND LEASE

Name of lease El Paso Navajo Well number 1 Elevation (ground)

Well location ⁸⁰⁰ ~~660~~ from N. Line ~~660~~ from E. Line Sec. 20 T-41-N R-25-E
(give footage from section lines) Section—township—range or block & survey

Field & reservoir (If wildcat, so state) ³⁵⁰ Wildcat County Apache

Distance, in miles, and direction from nearest town or post office
10 Miles Mexican Water

Nearest distance from proposed location to property or lease line: 660 feet
Distance from proposed location to nearest drilling, completed or applied—for well on the same lease: None feet

Proposed depth: 6500' Rotary or cable tools Rotary Approx. date work will start Immediately

Number of acres in lease: 160 Number of wells on lease, including this well, completed in or drilling to this reservoir: One

If lease, purchased with one or more wells drilled, from whom purchased: Name Address
~~Blanket~~

Status of bond One well

Remarks: (If this is an application to deepen or plug back, briefly describe work to be done, giving present producing zone and expected new producing zone)

* Fill in Proposed Casing Program on other side

CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the.....of the.....(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 Sept 5, 1963

Signature

Permit Number: 245
Approval Date: Sept 6, 1963

Approved By: *[Signature]*

Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.
See Instruction on Reverse Side of Form

STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION

Application to Drill, Deepen or Plug Back

Form No. P-1 File two copies

Effective Feb. 28, 1962.

OK John

245

INSTRUCTIONS

READ CAREFULLY AND COMPLY FULLY

For the purpose of this determination attach hereto a neat, accurate plat, map or sketch of this lease, section, block or lot locating thereon the proposed site for this location. Plat shall be drawn to a scale which will permit the facile observation of all pertinent data. Show distances of the proposed well from the two nearest lease and section lines, and from the nearest wells on the same lease completed in or drilling to the same reservoir. If the location requested is not in conformance with the applicable well-spacing rules, show all off-setting wells to the proposed well, and the names and addresses of all adjoining lease or property owners.

In event plat is filed for the purpose of designating the drilling and producing unit, or proration unit, on which the proposed well is to be drilled, the boundaries of such unit shall be shown, also the boundaries of all other such units attributed to other wells on the same lease completed in or drilling to the same reservoir. The acreage contained within each unit shall also be shown.

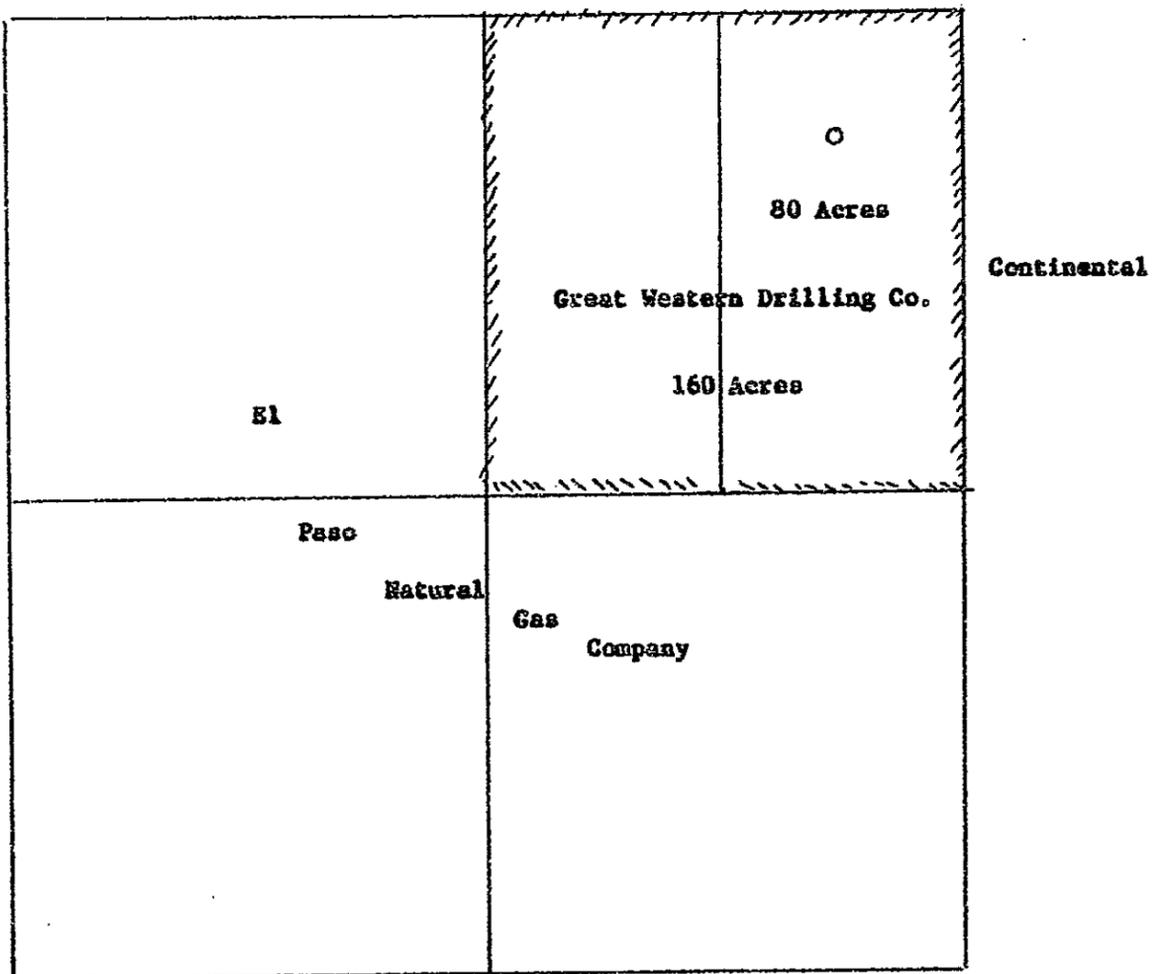
Do not confuse survey lines with lease lines. The sketch or plat should show your entire lease if possible. If it is not practical to show the entire lease and the plat shows only a section, block or lot out of your lease, you should clearly show that same is only a part of the lease.

Designate scale to which plat or sketch is drawn. Also designate northerly direction on the sketch or plat.

PROPOSED CASING PROGRAM

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10 3/4	32.75	H-40	0	150	150	200

TEKACO



Sec. 20, T-41-N R-25-E

Plat of Great Western Drilling Company and W. A. Henzief
El Paso Navajo #1
Indian Land
Apache County, Arizona

3457

COMPANY Great Western Drilling Company and W. A. Moncrief

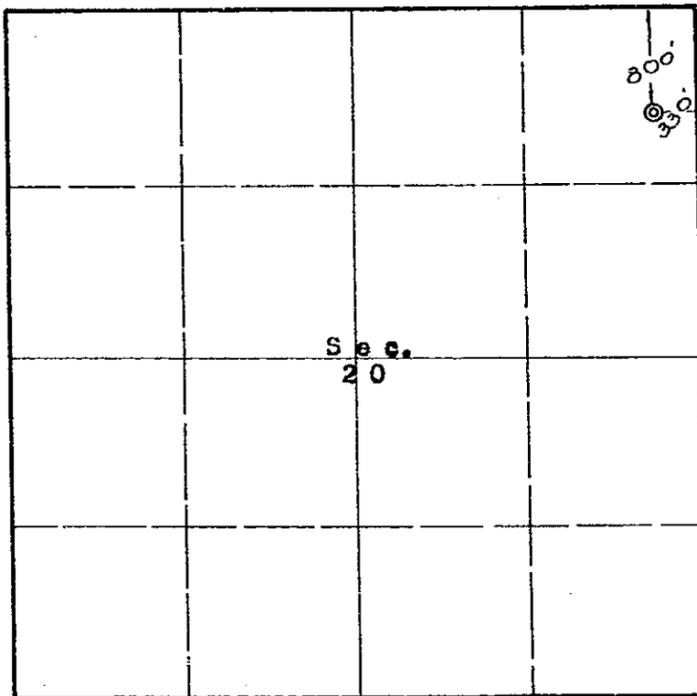
Well Name & No. El Paso Navajo No. 1 Lease No. _____

Location 800 feet from the North line and 330 feet from the East line.

Being in NE1/4

Sec. 20, T. 11 N., R. 25 ^{East} ~~W. 1/4~~ Gila and Salt River Meridian, Apache County, Arizona.

Ground Elevation 4863



Scale, 4 inches = 1 mile

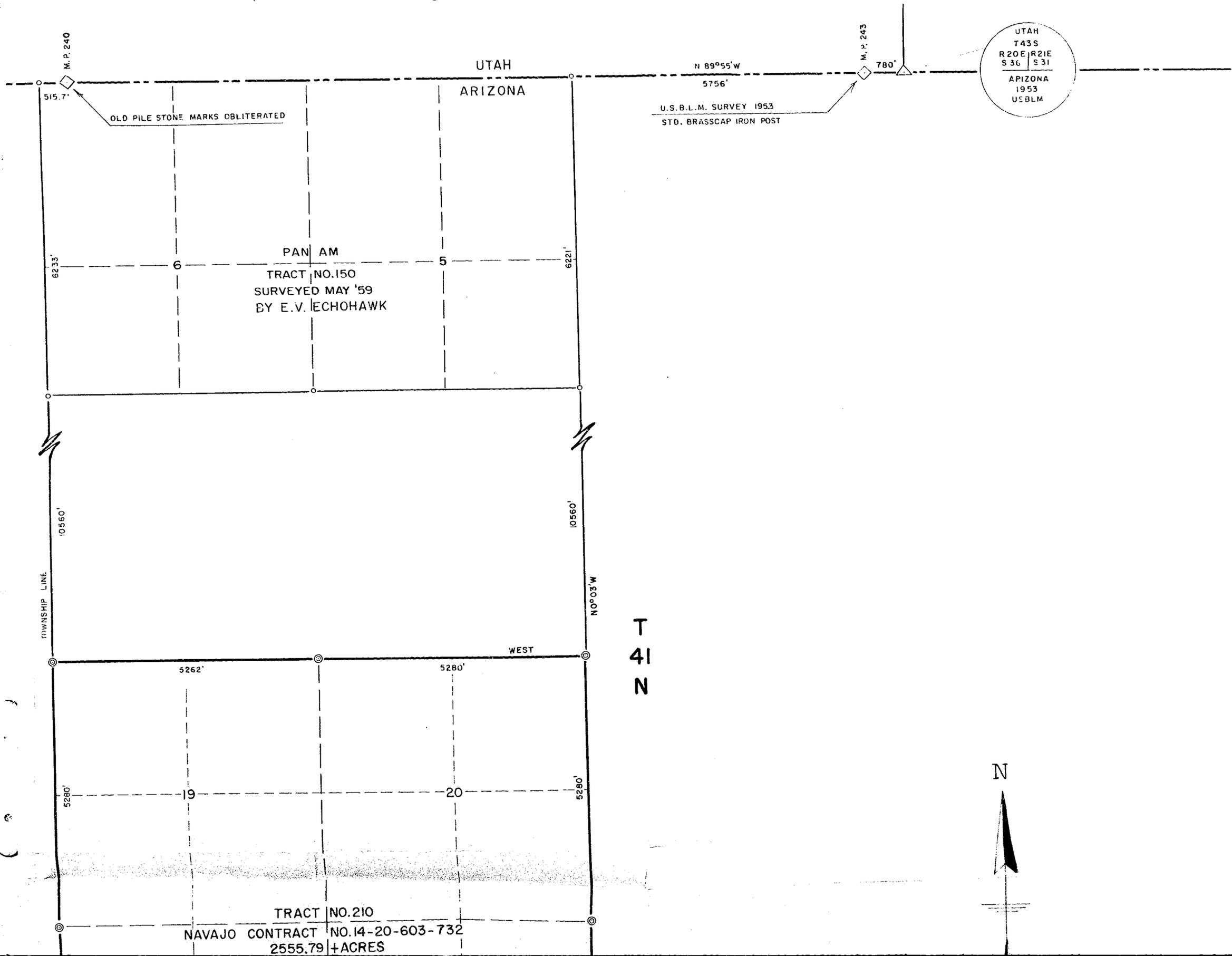
Surveyed September 11, 19 63

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervision and that the same are true and correct to the best of my knowledge and belief.



Ernest V. Echohawk

Ernest V. Echohawk
Registered Land Surveyor
N. M. Reg. #1545
Arizona Reg. No. 2311



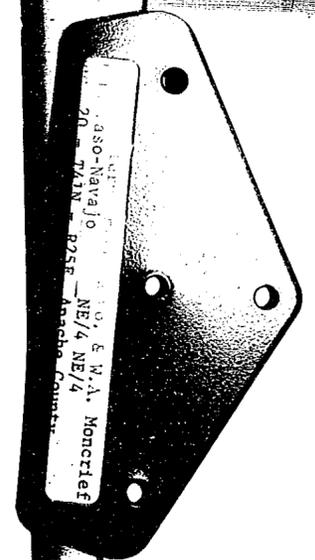
UTAH
T43S
R20E R21E
S36 S31
ARIZONA
1953
USEBLM

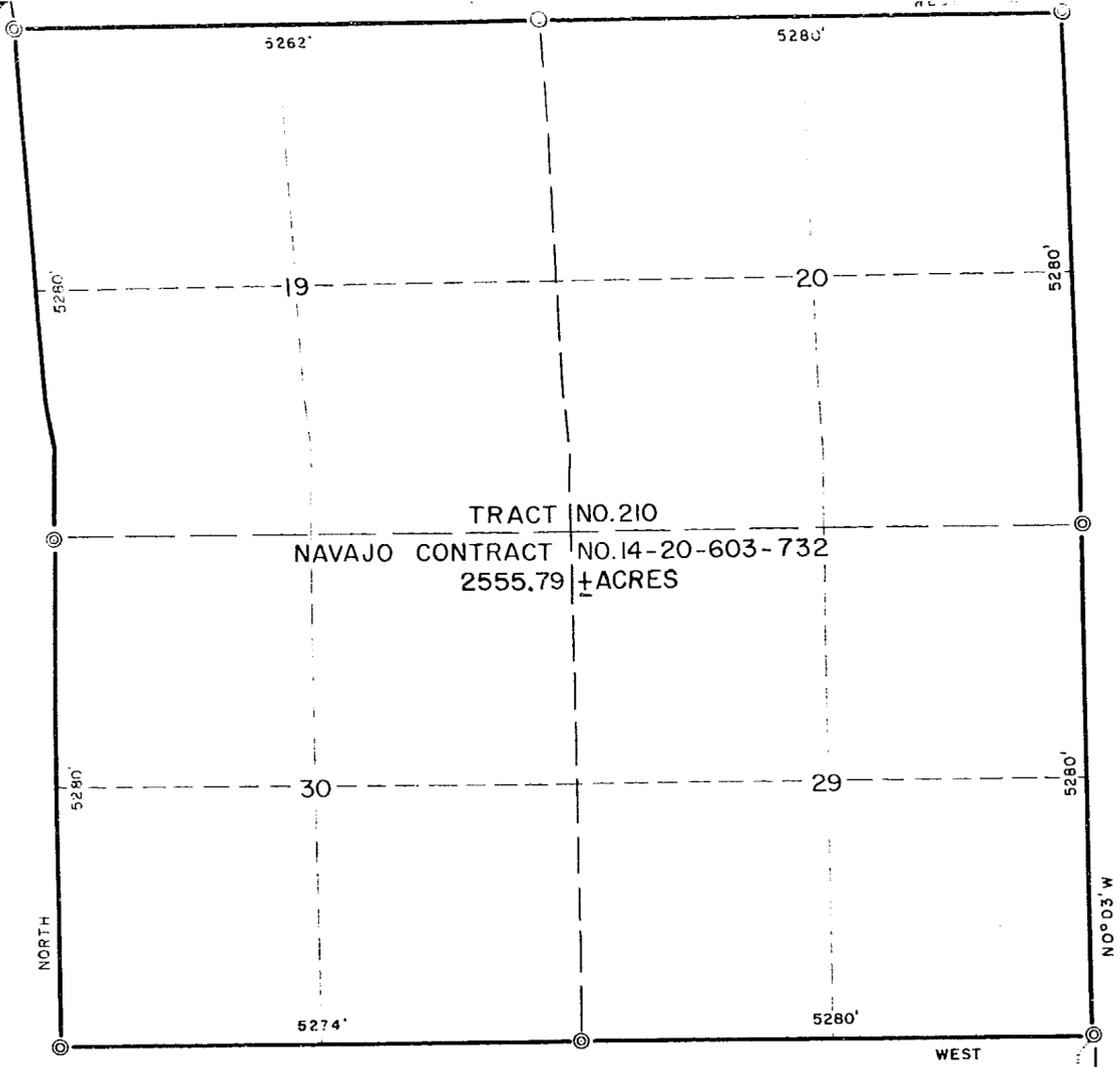
U.S.B.L.M. SURVEY 1953
STD. BRASSCAP IRON POST

PAN AM
TRACT NO. 150
SURVEYED MAY '59
BY E.V. ECHOHAWK

TRACT NO. 210
NAVAJO CONTRACT NO. 14-20-603-732
2555.79+ACRES

T
41
N

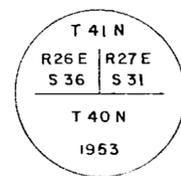




41
N



R 25 E
GILA AND SALT RIVER MERIDIAN



U. S. B. L. M. SECTION CORNER
STD. BRASSCAP IRON POST

WEST
TOWNSHIP LINE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED 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.



Ernest V. Echohawk
ERNEST V. ECHOHAWK
REGISTERED LAND SURVEYOR
REG. NO. 2311 ARIZONA

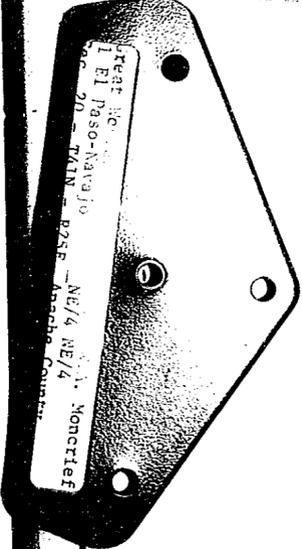
UTAH					
APIZONA					
6	5	4	3	2	1
7					12
18					13
19	20				24
TRACT NO. 210					25
30	29				
31	32	33	34	35	36

R 25 E
(UNSURVEYED)

GREAT WESTERN DRILLING COMPANY
AND
W. A. MONCRIEF

NAVAJO TRIBAL LEASE - TRACT NO. 210
SECTIONS 19-20-29-30 T41N-R25E G & SR M
NAVAJO INDIAN RESERVATION APACHE COUNTY ARIZONA

SURVEYED BY E. V. ECHOHAWK FARMINGTON, N. M.
SCALE 4 INCHES = 1 MILE SEPTEMBER 1963



CANCELLED

ND

KNOW ALL MEN BY THESE PRESENTS

BOND SERIAL NO. 67428

DATE

we: Great Western Drilling Company

of the County of: Midland in the State of: Texas

as principal, and United States Fidelity & Guaranty Company

of Baltimore, Maryland
AUTHORIZED TO DO BUSINESS WITHIN the State of Arizona.

as surety, are held and firmly bound unto the State of Arizona in the penal sum as indicated, lawful money of the United States, for which payment, well and truly to be made, we bind ourselves, and each of us, and each of our heirs, executors, administrators or successors, and assigns jointly and severally, firmly by these presents.

The conditions of this obligation is that whereas the above bounden principal proposes to drill a well or wells for oil, gas or stratigraphic purposes in and upon the following described land situated within the State, to wit:

NE/4, Section 20, Township 41 North, Range 25 East.
(May be used as blanket bond or for single well)
Apache County

NOW, THEREFORE, if the above bounden principal shall comply with all of the provisions of the laws of this State and the rules, regulations and orders of the Oil and Gas Conservation Commission, especially with reference to the requirements of A.R.S. 27-516, providing for the proper drilling, casing and plugging of said well or wells, and filing with the Oil & Gas Conservation Commission all notices and records required by said Commission, in the event said well or wells do not produce oil or gas in commercial quantities, or cease to produce oil or gas in commercial quantities, then this obligation is void; otherwise, the same shall be and remain in full force and effect.

Penal sum of Two Thousand Five Hundred and No/100 Dollars. (\$2,500.00)

Witness our hands and seals, this 30th day of August, 1963

GREAT WESTERN DRILLING COMPANY

By: R. L. Tucker President
Principal

Witness our hands and seals, this 30th day of August, 1963

United States Fidelity & Guaranty Company

By: Lee Durrell Surety
Lee Durrell, Attorney-in-fact.

(If the principal is a corporation, the bond should be executed by its duly authorized officers, with the seal of the corporation affixed. When principal or surety executes this bond by agent, power of attorney or other evidence of authority must accompany the bond.)

Approved Sept 6, 1963
Date

STATE OF ARIZONA
OIL AND GAS CONSERVATION COMMISSION

945 ea 2

(CERTIFIED COPY)

GENERAL POWER OF ATTORNEY

No. 71552

Know all Men by these Presents:

That UNITED STATES FIDELITY AND GUARANTY COMPANY, a corporation organized and existing under the laws of the State of Maryland, and having its principal office at the City of Baltimore, in the State of Maryland, does hereby constitute and appoint Lee Durrell

of the City of Midland, State of Texas, its true and lawful attorney in and for the State of Texas

for the following purposes, to wit:

To sign its name as surety to, and to execute, seal and acknowledge any and all bonds, and to respectively do and perform any and all acts and things set forth in the resolution of the Board of Directors of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, a certified copy of which is hereto annexed and made a part of this Power of Attorney; and the said UNITED STATES FIDELITY AND GUARANTY COMPANY, through us, its Board of Directors, hereby ratifies and confirms all and whatsoever the said Lee Durrell

may lawfully do in the premises by virtue of these presents.

In Witness Whereof, the said UNITED STATES FIDELITY AND GUARANTY COMPANY has caused this instrument to be sealed with its corporate seal, duly attested by the signatures of its Vice-President and Assistant Secretary, this 26th day of September, A. D. 19 58

UNITED STATES FIDELITY AND GUARANTY COMPANY.

(Signed) By Williford Gragg Vice-President.

(SEAL)

(Signed) Frieda Walter Assistant Secretary.

STATE OF MARYLAND } as: BALTIMORE CITY.

On this 26th day of September, A. D. 19 58, before me personally came Williford Gragg Vice-President of the UNITED STATES FIDELITY AND GUARANTY COMPANY and Frieda Walter Assistant Secretary of said Company, with both of whom I am personally acquainted, who being by me severally duly sworn, said that they resided in the City of Baltimore, Maryland; that they, the said Williford Gragg and Frieda Walter were respectively the Vice-President and the Assistant Secretary of the said UNITED STATES FIDELITY AND GUARANTY COMPANY, the corporation described in and which executed the foregoing Power of Attorney, that they each knew the seal of said corporation; that the seal affixed to said Power of Attorney was such corporate seal as it was so affixed by order of the Board of Directors of said corporation, and that they signed their names thereto by like order as Vice-President and Assistant Secretary, respectively, of the Company. My commission expires the first Monday in May, A. D. 19 59

(Seal) (Signed) Harriett M. Little Notary Public.

STATE OF MARYLAND, } Sect. BALTIMORE CITY.

I, James F. Carney, Clerk of the Superior Court of Baltimore City, which Court is a Court of Record, and has a seal, do hereby certify that Harriett M. Little, Esquire, before whom the annexed affidavits were made, and who has thereto subscribed his name, was at the time of so doing a Notary Public of the State of Maryland, in and for the City of Baltimore, duly commissioned and sworn and authorized by law to administer oaths and take acknowledgments, or proof of deeds to be recorded therein. I further certify that I am acquainted with the handwriting of the said Notary, and verily believe the signature to be his genuine signature.

In Testimony Whereof, I hereto set my hand and affix the seal of the Superior Court of Baltimore City, the same being a Court of Record, this 26th day of September, A. D. 1958

(SEAL) (Signed) James F. Carney Clerk of the Superior Court of Baltimore City.

245

COPY OF RESOLUTION

That Whereas, it is necessary for the effectual transaction of business that this Company appoint agents and attorneys with power and authority to act for it and in its name in States other than Maryland, and in the Territories of the United States and in the Provinces of the Dominion of Canada and in the Colony of Newfoundland.

Therefore, be it Resolved, that this Company do, and it hereby does, authorize and empower its President or either of its Vice-Presidents in conjunction with its Secretary or one of its Assistant Secretaries, under its corporate seal, to appoint any person or persons as attorney or attorneys-in-fact, or agent or agents of said Company, in its name and as its act, to execute and deliver any and all contracts guaranteeing the fidelity of persons holding positions of public or private trust, guaranteeing the performances of contracts other than insurance policies and executing or guaranteeing bonds and undertakings, required or permitted in all actions or proceedings, or by law allowed, and

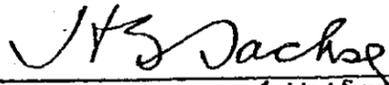
Also, in its name and as its attorney or attorneys-in-fact, or agent or agents to execute and guarantee the conditions of any and all bonds, recognizances, obligations, stipulations, undertakings or anything in the nature of either of the same, which are or may by law, municipal or otherwise, or by any Statute of the United States or of any State or Territory of the United States or of the Provinces of the Dominion of Canada or of the Colony of Newfoundland, or by the rules, regulations, orders, customs, practice or discretion of any board, body, organization, office or officer, local, municipal or otherwise, be allowed, required or permitted to be executed, made, taken, given, tendered, accepted, filed or recorded for the security or protection of, by or for any person or persons, corporation, body, office, interest, municipality or other association or organization whatsoever, in any and all capacities whatsoever, conditioned for the doing or not doing of anything or any conditions which may be provided for in any such bond, recognizance, obligation, stipulation, or undertaking, or anything in the nature of either of the same.

I, **H. G. Sachse**, an Assistant Secretary of the UNITED STATES FIDELITY AND GUARANTY COMPANY, do hereby certify that the foregoing is a full, true and correct copy of the original power of attorney given by said Company to **Lee Durrell**

of **Midland, Texas**, authorizing and empowering **him** to sign bonds as therein set forth, which power of attorney has never been revoked and is still in full force and effect.

And I do further certify that said Power of Attorney was given in pursuance of a resolution adopted at a regular meeting of the Board of Directors of said Company, duly called and held at the office of the Company in the City of Baltimore, on the 11th day of July, 1910, at which meeting a quorum of the Board of Directors was present, and that the foregoing is a true and correct copy of said resolution, and the whole thereof as recorded in the minutes of said meeting.

In Testimony Whereof, I have hereunto set my hand and the seal of the UNITED STATES FIDELITY AND GUARANTY COMPANY on **August 30, 1963.**
(Date)


Assistant Secretary.

XXXXXXXXXXXXXX
XXXXXX

July 23, 1964

Lee Durrell & Company
405 North Big Spring Street
Midland, Texas 79704

Re: Great Western Drilling Company Oil and Gas Drilling and
Plugging Bond No. 67428
Our File No. 245

Gentlemen:

The Great Western Drilling Co. and W. A. Moncrief El Paso Navajo
No. 1 Well in the NE/4 NE/4 of Section 20 - Township 41 North -
Range 25 East, Apache County, Arizona, has been plugged and
abandoned in accordance with our rules and regulations.

This letter will constitute our authority to cancel captioned
bond.

Yours very truly,

John Bannister
Executive Secretary

JB:mkc

Cc: Great Western Drilling Company
Box 1659
Midland, Texas

File: One copy Well File No. 245
One copy Bond File

LEE DURRELL & COMPANY
INSURANCE AND BONDS
405 N. BIG SPRING STREET
TELEPHONE MUTUAL 4-6674
MIDLAND, TEXAS
79704

July 17, 1964

State of Arizona
Oil and Gas Conservation Commission
Room 202
1624 West Adams
Phoenix, Arizona.

Re : Great Western Drilling Company
Oil and Gas Drilling, Plugging Bond.

Gentlemen:

2375 Bond # 67428

On August 30, 1963, the undersigned executed a \$2,500.00 bond in your favor for the captioned principal, for the drilling, casing, plugging, etc., of a well on the following lands;

NE/4, Section 20, Township 41 North, Range 25 East,
Apache County, Arizona.

The bond was issued for one year and is ready for renewal by us for the principal, however, the principal advises us that the well has been plugged and abandoned and that the bond is no longer needed.

If the above information is correct, will you please direct a letter to the undersigned and the principal approving the termination of this bond.

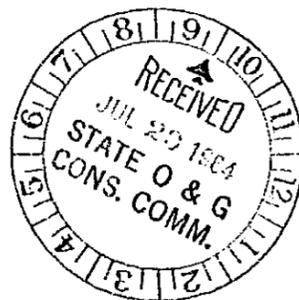
Your assistance will be appreciated.

Yours very truly,

Lee Durrell
Lee Durrell, Attorney-in-fact for
United States Fidelity & Guaranty Company.

LD/s

OK for Release



XXXXXXXXXX
XXXXXXXXXX

December 26, 1963

Mr. O. H. Crew
Administrative Coordinator
Great Western Drilling Company
P. O. Box 1659
Midland, Texas

Dear Mr. Crews:

Re: Great Western Drilling Co. #1 El Paso Navajo
Section 20-T41N-R25E, Apache County, Arizona

Herewith find approved copies of Plugging Record
and Completion Report, Forms P-15 and P-7,
respectively.

Hoping you'll drill again soon on this reefing with
huge success, I am,

Sincerely,

John K. Petty
Acting Executive Secretary

JKP:mkc
Encl. 2

243



R. C. TUCKER, PRES.

December 4, 1963

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Mr. John K. Petty
Arizona Oil & Gas Commission
1624 West Adams
Phoenix 7, Arizona

Dear John:

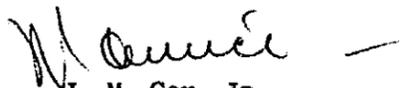
I am sending you all the dope on our El Paso-Navajo #1 well. Sorry to be so long in getting this stuff off to you. We would appreciate your holding all this information confidential until further notice. As for your request for sample description and drilling time, I am sending you a copy of the Core Laboratories mud log which contains the same.

I guess you heard about Frank, who is now an independent in Denver and operating as Omega Exploration. He seems to be doing real well and we will probably hear much from him later.

I hope this is all the information you need. If you require any more, please let us know.

Sincerely,

GREAT WESTERN DRILLING CO.


J. M. Cox, Jr.
728 Patterson Building
Denver 2, Colorado

JMC:ml

Enclosures



~~XXXXXXXXXX~~

November 4, 1963

Mr. O. H. Crews
Great Western Drilling Company
Box 1659
Midland, Texas

Re: Great Western Drilling & W. A. Moncrief #1 El Paso Navajo

Dear Mr. Crews:

I regret about your P & A at Mexican Water and surely hope you'll have better luck next project.

Enclosed are some forms we'd appreciate your filling out for this Commission. You have a month to file our reports.

I'd like two copies of all logs run and of course all information possible on your project. While our forms do not ask for a copy of your geologist's samples, I would really appreciate receiving one and a copy of your drilling time.

I assume you'll deposit a set of your well cutting samples and core sample at the Four Corners Sample Cut.

Thanking you for your cooperation and hoping you'll begin another project in Arizona again soon and have huge success in it, I am,

Sincerely,

John K. Petty
Acting Executive Secretary

Encl.
JJP:mkc

Cc: Mr. Johnny Hampton, Manager
Beta Drilling Company
Petroleum Plaza
Farmington, New Mexico

Mr. Frank Fritchett
Patterson Building
Denver, Colorado

245

October 25, 1963

Mr. O. H. Crews, Administrative Coordinator
Great Western Drilling Company
Box 1659
Midland, Texas

Re: Great Western & W. A. Moncrief #1 El Paso Navajo
Section 20, T41N, R25E, Apache County, Arizona

Dear Mr. Crews:

It is with regret that we learn of your plugging this well.

Hoping you have better luck next time, I am,

Sincerely,

John K. Petty
Acting Executive Secretary

JKP:mkc

Encl. Application to Abandon and Plug

September 12, 1963

Mr. O. H. Crews
Great Western Drilling Company
P. O. Box 1639
Midland, Texas

Re: Great Western & W. A. Moncrief #1 El Paso Navajo
Section 20, T41N, R25E, Apache County, Arizona

Dear Mr. Crews:

The Commission herewith acknowledges receipt of your twenty-five dollar permit fee. Attached find copy of your approved application for Permit to Drill. Also we received your bond and Organization Report as well as the change of location to 800 feet from north line and 330 feet from east lines of section because of ~~different~~ ^{difficult} topographical conditions. You have our approval for the latter change.

Per our conversation of a few days past, you agreed to ask Frank Pritchett or Maurice Cox, whoever is on the well, to please turn a regular cloth sample bag of each well cutting sample caught (cores too) into the 4 Corners Sample Cut at Farmington. This can be done as you wish -- during the drilling or after it is completed -- at such time as you wish to release the well cuttings and core samples.

We expect a copy of all information you turn into the United States Geological Survey as well as what our rules and regulations specify.

I will very much appreciate a duplicate copy of your fracturing or acidizing details, sample description, and other "extra" information if you can conveniently let us have it for the Commission files.

As you know, Arizona has no curb on allowable; thus you can produce as much as you can take care of.

Hoping you will have the greatest success in this project as well as all your other ventures elsewhere, I am

Yours truly,

945
Cc: Mr. Frank Pritchett
Cc: Mr. Maurice Cox

John K. Petty
Acting Executive Secretary

Receipt mailed 10/1/63



September 11, 1963

R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1659
MIDLAND, TEXAS

Oil & Gas Conservation Commission
State of Arizona
1624 W. Adams - Suite 202
Phoenix 7, Arizona

Attn: Mr. John Petty

Gentlemen:

After an inspection of the area of the Great Western Drilling Company's El Paso Navajo #1 in Apache County, Section 20, T-41-N, R-25-E, we find the topography such that it is impossible to make a regular 660' location from the North and East line of the section as in our original request.

The nearest to the above that our engineers can locate is 800' from the North Line and 330' from the East Line of Section 20 as above. We have cleared this with the U.S.G.S. in Farmington. May we have your approval?

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By *O. H. Crews*
O. H. Crews

OHC/bl

cc: U.S.G.S.
Box 959
Farmington, New Mexico





September 5, 1963

R. C. TUCKER, PRES.

PHONE MU 2-5241
ADDRESS REPLY TO:
BOX 1859
MIDLAND, TEXAS

Oil & Gas Conservation Commission
State of Arizona
Room 200
1624 W. Adams
Phoenix 7, Arizona

Attn: Mr. John K. Petty

Gentlemen:

Great Western Drilling Company and W. A. Moncrief plan to drill the El Paso Navajo #1 immediately. The location is being staked today. The acreage will be 80 acres, being the East half of the Northeast quarter of Section 20, T-41-N, R-25-E, Apache County, Arizona.

We will send surveyor plats as soon as received.

Please find enclosed:

Our bond, application to drill, and a check for \$25.00 as drilling fee.

Yours very truly,

GREAT WESTERN DRILLING COMPANY

By O. H. Crews
O. H. Crews

OHC/bl



245

DETACH AND RETAIN FOR YOUR FILES

ITEMS

No 34920

Fee for application to drill El Paso Navajo #1 by
Great Western Drilling Company and W A Moncrief \$25.00

HOWARD-MIDLAND

GREAT WESTERN DRILLING CO.
509 NORTH LORRAINE MIDLAND, TEXAS