

EL PASO #1 FEDERAL (STRAT) 533  
SE NE 3-10N-10W YAVAPAI CO.

P-11

COUNTY Yavapai AREA 40 mi/NE Wickenburg PLEASE NO. Fed A4571  
 WELL NAME El Paso Natural Gas Company #1 ~~Federal~~ (Strat test)  
 LOCATION SE NE SEC 3 TWP 10N RANGE 10W FOOTAGE 1247' FEL - 1400' FNL  
 ELEV 2216' GR 2226' DF SPUD DATE 4-30-70 STATUS P&A TOTAL 3831'  
 COMP. DATE 6-15-70 DEPTH 3831'  
 CONTRACTOR J. O. Barnes Drilling Company, Casa Grande, Arizona

CASING SIZE	DEPTH	CEMENT	LINER SIZE & DEPTH	DRILLED BY ROTARY
7"	2005	600 SKS	NA	<input checked="" type="checkbox"/>
10 3/4"	27'	1		<input type="checkbox"/>
				DRILLED BY CABLE TOOL <input type="checkbox"/>
				PRODUCTIVE RESERVOIR <input type="checkbox"/>
				INITIAL PRODUCTION <u>dry hole</u>

FORMATION TOPS	DEPTHS	SOURCE		REMARKS
		L.L.	E.L.	
Quaternary	0-1550'	X	X	Daily Drilling Report in File.
Tertiary Sediments	1550' 3831'			Top of Tertiary 1550 - El Paso Correlations Re-entered - see Permit 589

ELECTRIC LOGS	PERFORATED INTERVALS	PROD. INTERVALS	SAMPLE LOG
BHC/GR; FDC/GR; SNP; DIL/IES	NA	NA	Am Strat <input checked="" type="checkbox"/> SAMPLE DESCRP. <input checked="" type="checkbox"/> SAMPLE NO. <u>1628</u> CORE ANALYSIS _____ DSTs _____
REMARKS			APP. TO PLUG <input checked="" type="checkbox"/> PLUGGING REP. <input checked="" type="checkbox"/> COMP. REPORT <input checked="" type="checkbox"/>

WATER WELL ACCEPTED BY \_\_\_\_\_  
 BOND CO. Federal Insurance Company filed in P/N 542 BOND NO. 8019-79-57  
 BOND AMT. \$ 25,000 CANCELLED \_\_\_\_\_ DATE \_\_\_\_\_ ORGANIZATION REPORT 4-1-70  
 FILING RECEIPT 2867 LOC. PLAT  WELL BOOK  PLAT BOOK   
 API NO. 02-025-20010 DATE ISSUED 4-22-70 DEDICATION Strat Test  
 PERMIT NUMBER 533



## 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  (STRAT TEST)

### DESCRIPTION OF WELL AND LEASE

Operator: El Paso Natural Gas Company  
Address: 600 Bldg. of SW, Midland, Texas 79701

Federal, State or Indian Lease Number or name of lessor if fee lease: Fed. A 4571 Bullard Wash  
Well Number: 1  
Field & Reservoir: Wildcat

Location: 1400 FNL & 2700 FEL  
County: Yavapai

Sec. TWP-Range or Block & Survey: Sec. 3, T-10-N, R-10-W

Date spudded: 4-30-70  
Date total depth reached: 6-15-70  
Date completed, ready to produce: Plugged 6-15-70  
Elevation (DE, RKB, RT or Gr.) feet: 2216 GR  
Elevation of casing hd. flange feet: N.A.

Total depth: 3831  
P.B.T.D.: surface  
Single, dual or triple completion?: none  
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): all  
Cable tools used (interval): none

Was this well directionally drilled?: NO  
Was directional survey made?: NO  
Was copy of directional survey filed?: NO  
Date filed:

Type of electrical or other logs run (check logs filed with the commission): Schlumberger Electrical & Gamma Ray Neutron  
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
Conductor	17 1/2"	10 3/4		27'	1 cu yrd.	none
Long Strg	9 5/8	7	20#	2005'	600 sxs	none

### TUBING RECORD NO TUBING RAN

### 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	Amt. & kind of material used	Depth Interval
NONE			NONE	

### INITIAL PRODUCTION

Date of first production: \_\_\_\_\_  
Producing method (Indicate if flowing, gas lift or pumping—if pumping, show size & type of pump.): STRAT TEST - THIS SECTION NO APPLICABLE

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'd 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 Production Clerk of the El Paso Natural Gas Company (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: July 10, 1970

Signature: *[Handwritten Signature]*



STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
Well Completion or Recompletion Report and Well Log

Permit No. 533

Form No. 4

File Copy 2

**DETAIL OF FORMATIONS PENETRATED**

Formation	Top	Bottom	Description*
Quaternary Quaternary Sediments	surface	1550	
Tertiary Sediments	1550	3831 TD	

\* 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.

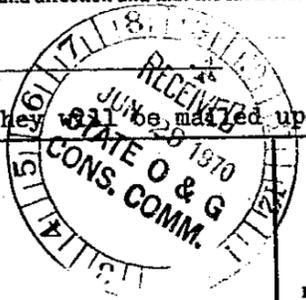
**INSTRUCTIONS:**

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 <b>El Paso Natural Gas Company</b>		Address <b>600 Bldg. of SW, Midland, Texas 79701</b>	
Federal, State, or Indian Lease Number, or lessor's name if fee lease. <b>Fed. A 4571 Bullard Wash</b>		Well No. <b>1</b>	Field & Reservoir <b>None Wildcat (Strat Test)</b>
Location of Well <b>1400 FNL &amp; 2700 FEL</b>		Sec-Twp-Rge or Block & Survey <b>Sec. 3, T-10-N, R-10-W</b>	County <b>Yavapai</b>
Application to drill this well was filed in name of <b>El Paso Natural Gas Co.</b>	Has this well ever produced oil or gas <b>No</b>	Character of well at completion (initial production): Oil (bbls/day)      Gas (MCF/day)      Dry?	
Date plugged: <b>June 15, 1970</b>	Total depth <b>3831</b>	Amount well producing when plugged: Oil (bbls/day)      Gas (MCF/day)      Water (bbls/day)	
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
	zero	Quaternary Sediments ( surface - 1550' )	50' plug (10 sxs) 3781 to 3831';
	zero	Tertiary 1550' - TD	100' plug (20 sxs) 2360-2460';
			100' plug (20 sxs) 1950 - 2050'; 20' plug (4 sxs) Surface to 20';
<b>CASING RECORD</b>			
Size pipe	Put in well (ft.)	Pulled out (ft.)	Left in well (ft.)
10 3/4	27'	0	27
7	2005	0	2005
Was well filled with mud-laden fluid, according to regulations? <b>yes</b>			Indicate deepest formation containing fresh water. <b>none</b>
<b>NAMES AND ADDRESSES OF ADJACENT LEASE OPERATORS OR OWNERS OF THE SURFACE</b>			
Name	Address		Direction from this well:
N. A.			
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.			
CERTIFICATE: I, the undersigned, under the penalty of perjury, state that I am the <u>Supervisor, Production Service</u> of the <u>El Paso Natural Gas Company</u> (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 <b>June 25, 1970</b>	Signature <i>[Signature]</i>		
*If logs are required, they will be mailed upon receipt for Schlumberger.			
Permit No. <b>533</b>	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Plugging Record File One Copy		
	Form No. 10		



APPLICATION TO ABANDON AND PLUG

FIELD Wildcat

OPERATOR El Paso Natural Gas Company ADDRESS 600 Building of the Southwest, Midland, Texas  
Federal, State, or Indian Lease Number  
or Lessor's Name if Fee Lease Fed. A-4571 Bullard Wash WELL NO. 1

SURVEY T-10-N, R-10-W SECTION 3 COUNTY Yavapai

LOCATION 1400 FNL & 2700 FEL of Section

TYPE OF WELL Dry hole (Strat Test) TOTAL DEPTH 3831  
(Oil, Gas or Dry Hole)

ALLOWABLE (If Assigned) None

LAST PRODUCTION TEST OIL none (Bbls.) WATER none (Bbls.)

GAS none (MCF) DATE OF TEST No test

PRODUCING HORIZON none PRODUCING FROM NA TO NA

1. COMPLETE CASING RECORD 10 3/4" conductor pipe set surface to 27 feet. 2005 feet of 7", 20# casing set surface to 2005, and cemented with 600 sacks.

2. FULL DETAILS OF PROPOSED PLAN OF WORK Casing will be left in hole. Will clean to total depth, run logs. Spot 50 feet plug on bottom; spot 100' plug 2360-2460', spot 100 feet plug 1950-2050'; spot 20 feet plug surface - 20'. Hole will be loaded with mud laden fluid between plugs. A 7" x 4' (above surface) pipe marker will be placed with a permanent steel signal welded to it.

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 June 15, 1970

NAME OF PERSON DOING WORK J.O. Barnes Drilling Co. ADDRESS Casa Grande, Arizona

CORRESPONDENCE SHOULD BE SENT TO John A. Disch

Name Regional Well Test Engineer

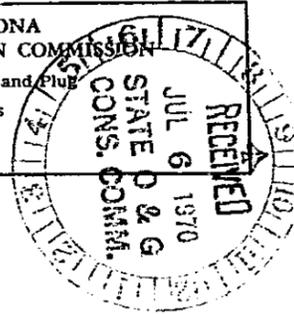
El Paso Natural Gas Company

Address 600 Building of the Southwest

Date July 2, 1970

Date Approved [Signature]  
STATE OF ARIZONA  
OIL & GAS CONSERVATION COMMISSION  
By: \_\_\_\_\_

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



Permit No. 533

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UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN DUPLICATE  
(See other instructions on reverse side)

Form approved  
Budget Bureau No. 42-R355.5.

WELL COMPLETION OR RECOMPLETION REPORT AND LOG \*

1a. TYPE OF WELL: OIL WELL  GAS WELL  DRY  Other Stratigraphic test  
b. TYPE OF COMPLETION: NEW WELL  WORK OVER  DEEP-EN  PLUG BACK  DIFF. RESVR.  Other Plug & Abandon

2. NAME OF OPERATOR  
El Paso Natural Gas Company  
3. ADDRESS OF OPERATOR  
1800 Wilco Building Midland, Texas 79701  
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements)\*  
At surface 1400' FNL & 1247' FEL  
At top prod. interval reported below Same  
At total depth Same

5. LEASE DESIGNATION AND SERIAL NO.  
Fed. A 4571  
6. IF INDIAN, ALLOTTEE OR TRIBE NAME  
N.A.  
7. UNIT AGREEMENT NAME  
None  
8. FARM OR LEASE NAME  
Bullard Wash Prospect  
9. WELL NO.  
1  
10. FIELD AND POOL, OR WILDCAT  
Wildcat  
11. SEC., T., R., M., OR BLOCK AND SURVEY OR AREA  
Sec 3, T-10-N, R-10-W

12. COUNTY OR PARISH  
Yavapai  
13. STATE  
Arizona  
14. PERMIT NO.  
Arizona 533  
DATE ISSUED  
4-22-70  
15. DATE SPUNDED  
4-30-70  
16. DATE T.D. REACHED  
6-15-70  
17. DATE COMPL. (Ready to prod.)  
Plugged 6-15-70  
18. ELEVATIONS (DF, RBB, RT, GR, ETC.)\*  
2216' GR  
19. ELEV. CASINGHEAD  
N.A.  
20. TOTAL DEPTH, MD & TVD  
3831-3831  
21. PLUG, BACK T.D., MD & TVD  
Surface  
22. IF MULTIPLE COMPL., HOW MANY\*  
None  
23. INTERVALS DRILLED BY  
All  
24. PRODUCING INTERVAL(S), OF THIS COMPLETION—TOP, BOTTOM, NAME (MD AND TVD)\*  
None  
25. WAS DIRECTIONAL SURVEY MADE  
No

26. TYPE ELECTRIC AND OTHER LOGS RUN  
Schlumberger electric & Gamma Ray Neutron  
27. WAS WELL COBED  
No

28. CASING RECORD (Report all strings set in well)

CASING SIZE	WEIGHT, LB./FT.	DEPTH SET (MD)	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
10 3/4		27'	17 1/2"	1 yard redi-mix	None
7	20#	2005'	9 5/8"	600 sacks-circ. 150 sacks	

\* ALL PIPE WAS LEFT CEMENTED IN HOLE.

29. LINER RECORD

SIZE	TOP (MD)	BOTTOM (MD)	SACKS CEMENT*	SCREEN (MD)

30. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)
NONE		

31. PERFORATION RECORD (Interval, size and number)

NONE

32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL (MD)	AMOUNT AND KIND OF MATERIAL USED
NONE	

33. PRODUCTION

DATE FIRST PRODUCTION \_\_\_\_\_ PRODUCTION METHOD (Flowing, gas lift, pumping—size and type of pump) \_\_\_\_\_ WELL STATUS (Producing or shut-in) \_\_\_\_\_

DATE OF TEST	HOURS TESTED	CHOKES SIZE	PROD'N. FOR TEST PERIOD	OIL—BBL.	GAS—MCF.	WATER—BBL.	GAS-OIL RATIO

FLOW. TUBING PRESS.	CASING PRESSURE	CALCULATED 24-HOUR RATE	OIL—BBL.	GAS—MCF.	WATER—BBL.	OIL GRAVITY-API (CORR.)

34. DISPOSITION OF GAS (Sold, used for fuel, vented, etc.) \_\_\_\_\_ TEST WITNESSED BY \_\_\_\_\_

35. LIST OF ATTACHMENTS \_\_\_\_\_

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

SIGNED John P. Dusek TITLE Division Well Test Engineer DATE August 22, 1972

\*(See Instructions and Spaces for Additional Data on Reverse Side)

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# INSTRUCTIONS

**General:** This form is designed for submitting a complete and correct well completion report and log on all types of lands and leases to either a Federal agency or a State agency, or both, pursuant to applicable Federal and/or State laws and regulations. Any necessary special instructions concerning the use of this form and the number of copies to be submitted, particularly with regard to local, area, or regional procedures and practices, either are shown below or will be issued by, or may be obtained from, the local Federal and/or State office. See instructions on items 22 and 24, and 83, below regarding separate reports for separate completions. If not filed prior to the time this summary record is submitted, copies of all currently available logs (drillers, geologists, sample and core analysis, all types electric, etc.), formation and pressure tests, and directional surveys, should be attached hereto, to the extent required by applicable Federal and/or State laws and regulations. All attachments should be listed on this form, see item 35.

**Item 4:** If there are no applicable State requirements, locations on Federal or Indian land should be described in accordance with Federal requirements. Consult local State or Federal office for specific instructions.

**Item 13:** Indicate which elevation is used as reference (where not otherwise shown) for depth measurements given in other spaces on this form and in any attachments. Items 22 and 24: If this well is completed for separate production from more than one interval zone (multiple completion), so state in item 22, and in item 24 show the producing interval, or intervals, top(s), bottom(s) and name(s) (if any) for only the interval reported in item 83. Submit a separate report (page) on this form, adequately identified, for each additional interval to be separately produced, showing the additional data pertinent to such interval.

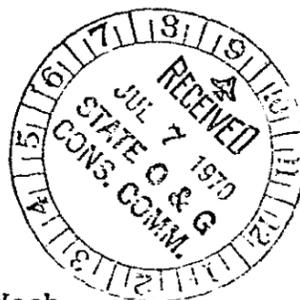
**Item 29:** "Sacks Cement": Attached supplemental records for this well should show the details of any multiple stage cementing and the location of the cementing tool.

**Item 33:** Submit a separate completion report on this form for each interval to be separately produced. (See instruction for items 22 and 24 above.)

FORMATION		GEOLOGIC MARKERS	
TOP	BOTTOM	NAME	MEAS. DEPTH
<p style="font-size: small; margin: 0;">37. SUMMARY OF POROUS ZONES: SHOW IMPORTANT ZONES OF POROSITY AND CONTENTS THEREOF; CORED INTERVALS; AND ALL DRILL-STEM TESTS, INCLUDING DEPTH INTERVAL TESTED, CUSHION USED, TIME TOOL OPEN, FLOWING AND SHUT-IN PRESSURES, AND RECOVERIES. DESCRIPTION, CONTENTS, ETC.</p>		<p>Quaternary Sediments</p> <p>Tertiary</p>	<p>Surface - 1550'</p> <p>1550 - TD</p>

*[Handwritten Signature]*

WELL COMPLETION REPORT  
(Stratigraphic Test)



WELL NAME:

El Paso Natural Gas Company No. 1 Bullard Wash.

LOCATION:

1400' from North line and 1247' from East line of Section 3, Township 10 North, Range 10 West, Yavapai County, Arizona, and approximately 90 miles northwest of Phoenix.

ELEVATION:

Ground Level: 2216'

Kelly Bushing: 2226'

DRILLING CONTRACTORS:

J. O. Barnes Drilling Company, Casa Grande, Arizona.

COMMENCED:

Spudded April 30, 1970.

COMPLETED:

Plugged and abandoned June 16, 1970.

TOTAL DEPTH:

By Driller 383'

By Schlumberger 3831'.

GEOLOGISTS:

M. L. Matheny and J. P. Morris, Farmington, New Mexico.

ENGINEER:

John Disch, Midland, Texas.

MUD LOGGER:

Paul McKissen, Rocky Mountain Geo-Engineering.

LOGS RUN:

By Schlumberger  
0-2031'

Dual-Induction-Laterlog; Formation Density;  
Sidewall Neutron Porosity; Borehole Compensated Sonic-Gamma Ray.

2005-3831'

Induction-Electrical; Borehole Compensated Sonic-Gamma Ray.

FORMATION TOPS:

Quaternary  
Tertiary

Surface  
1550'

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SAMPLE DESCRIPTIONS:

See attached log.

SUMMARY AND CONCLUSIONS:

The main purpose of this well was to try and locate salt at a depth and thickness suitable for either a nuclear or dissolved salt cavern project. No salt was encountered.

Quaternary (fluvial) deposits were penetrated from surface to 1550'. At the bottom of this zone a definite lithologic change was noted. A fresh water type limestone was observed in the sample from 1560' to 1570'. This bedded sediment is believed to be the Top of the Tertiary in this well. Wire line logs put the Top at 1550'.

RECOMMENDATION:

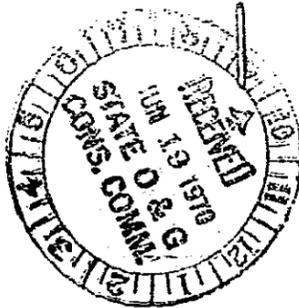
Based on the absence of salt in this well, it is recommended that no further exploration activity be conducted in this valley in regards to gas storage.

June 17, 1970

Have received samples on the

El Paso Natural, #1 Bullard Wash  
Sec. 3-10N-10W  
Yavapai Co. Arizona  
Permit # 533

*J. Ratcliff*  
Four Corners Sample Cut



June 17, 1970

Memo from John Bannister

Re: El Paso #1 Federal Strat  
SE/4 NE/4 Sec. 3:T10N-R10W  
Yavapai County  
Our File #533

John Disch telephoned this date. The well has been plugged as follows:

50' plug from 3781' to 3831' (10 sacks of cement).  
100' plug from 2360' to 2460' (20 sacks of cement).  
100' plug from 1950' to 2050' (20 " " " " ).  
20' surface plug from 0 to 20' (4 sacks of cement).  
Heavy mud was set in between plugs.

Well was TD at 3831'.

No salt was encountered and El Paso will move to its Red Lake well in the near future.

Lefty Morris, geologist El Paso Natural Gas, Farmington, will send samples to the Commission and John Disch will see that logs are forwarded from Midland.

June 14, 1970

Memo from James Scurlock, Geolggist

Re: El Paso #1 Federal Strat  
SE/4 NE/4 Sec. 3-T10N-R10W  
Yavapai County  
Our File #533

Visited the well site. Talked to Cliff R. Clyde a tool pusher for Barnes. He lives in Casa Grande.

Total depth of well is 2830'?. Had just finished a fishing job which involved retrieval of collars. Drill string had been pulled off bottom about 25' in order to repair the pump and during this time the collars became stuck because of the differential between the pressure in the borehole and the pressure in the formation. They tried to dislodge the collars by spotting diesel, by pulling on the drill string, and by spotting various chemicals. When this proved unsuccessful, they ran a dialog to find where the string was stuck; ran primer cord into position and shut primer cord while holding back torque; backed off drill pipe leaving collars ~~stuck~~ stuck to the side of the hole; went back in with drill pipe and screwed drill pipe back into collars running Johnston tester packer above collars; set packer allowing formation below the packer release from pressure to the atmosphere and thus relieving pressure on the collars which came loose immediately; pulled string and collars. Presently going into hole to recondition. Preparing to log, probably tonight. Schlumberger is on location. Will probably plug tomorrow morning.

Size of hole is 6-1/2". Size of collars OD 5".

Understand USGS has representative on location from Farmington. Also on location are Lefty Morris, geologist, from Farmington; John Disch, engineer, from El Paso; and a Mr. Dean Power (geology trainee?). These latter personnel were in town eating supper. I did not contact them. These people are staying at the El Rancho Motel in Wickenburg.

Understand rig to be moved north of Kingman in the Red Lake area. Rough direction will be: proceed northeast on highway 66 from Kingman about 20 miles to the Shell station and then northward about 20 miles to the Red Lake turnoff. Thence, four miles approximately westward toward the southern end of Red Lake. There will be a sign.

June 8, 1970

Memo from John Bannister

Memo to El Paso #1 Federal Strat  
SE/4 NE/4 3-10N-10W  
Yavapai County  
Our File #533

John Disch telephoned approximately 9:30 this date. The rig has been repaired and as of 7 a.m. was drilling ahead at 2560' in valley fill. Indications are that the well will not encounter a salt formation. Apparently, a basalt sandstone gave magnetic reflections similar to the desired salt formation. Currently 2005' of 7" pipe has been set with 150 sacks of cement circulated to the surface. Well is drilling with a 6-1/4" bit. Plans are to drill to 4000' (anticipate completion June 11 or 12). If no salt is encountered by 4000', the well will be plugged and abandoned. No water has been ~~seen~~ encountered, only possible water zone approximately 300 to 400'. Surface owner, Gabe Madrill, has indicated possible interest in taking over the well. If well is to be plugged and abandoned, operator was instructed to put 50' cement in bottom of hole, bring heavy mud up to 1985' (i.e., 20' into 7" casing), 20' surface cement, dry hole marker. If Madrill will take over as a water well, operator is to set 50' cement in bottom of hole, heavy mud to 1985', and 50' of cement on top of the mud. Operator indicated that Sidewall Porosity Logs, Lateral Logs, Density and ~~E~~ Sonic Gamma Ray Logs have been run to 2000'. Same logs will be run on final TD. Commission's samples have been collected.

John Disch indicated that El Paso Natural Gas Company has issued its AFE for the drilling of their Red Lake prospect north of Kingman, Arizona. Application to Drill will be forwarded to the Commission this week. The well will be called El Paso Natural Gas Company #1 Red Lake?,

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May 6, 1970

Memo to El Paso Natural Gas #1 Federal Strat  
SE NE 3-10N-10W  
Yavapai County  
Our File #533

From James Scurlock, Geologist

Ground elevation 2216'. Well was spudded 4-30-70.  
Set 12-3/4" casing (conductor pipe) at 27' with 15  
sacks. They were drilling a 9-7/8" hole at 461'  
on May 5th.

The type of rig is an Idaco 38; 96' structure,  
truck mounted, telescope derrick, 10' sub-structure.  
Crew is working two 12-hour towers but do not work on  
Sunday. The men mostly come from Casa Grande. One  
driller is from Odessa.

They have about 2500' of 7" casing on location. Will  
set this string to shut off water-bearing zones.  
Size of drill pipe is 3-1/2". Using a Hughes OSC  
medium bit. Have a mudlogger on hole.

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WELL SITE CHECK

By JDS  
Date 5-5-70

Contractor J.O. BARNES DRILLING CO. Person(s) Contacted \_\_\_\_\_

Spud date 4-30-70 John Disch, ENGINEER

Type Rig Jobco 28 Rotary  Cable  Present Operations Drilling 459 FT

Samples

Pipe Sct 12 3/4 @ 27' w / 155X Drilling with Air  Mud

Water Zones \_\_\_\_\_ Size Hole 9/8

Lost Circ. Zones \_\_\_\_\_ Size Drill Pipe 3 1/2"

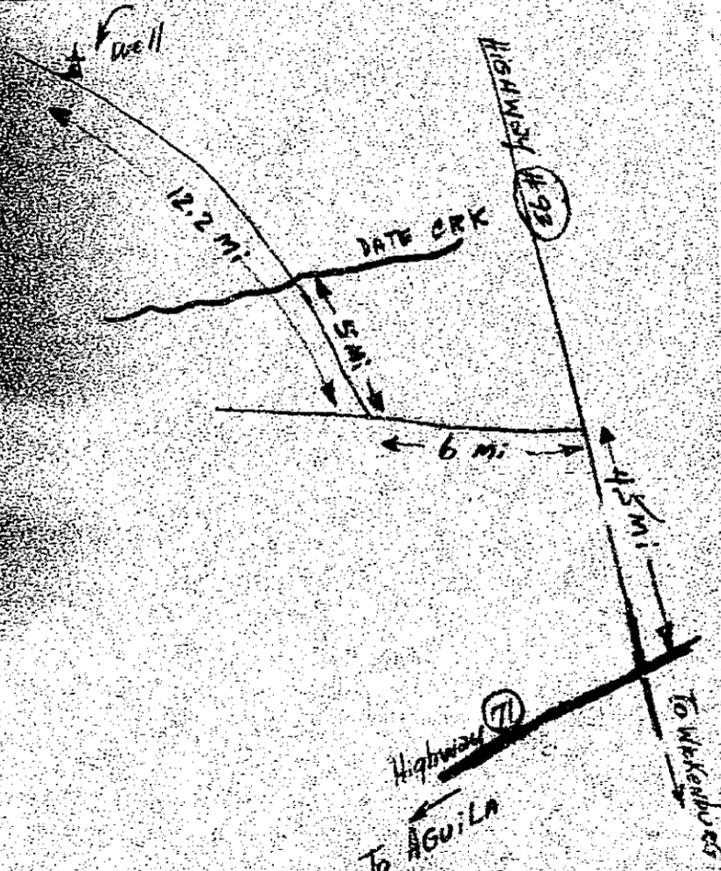
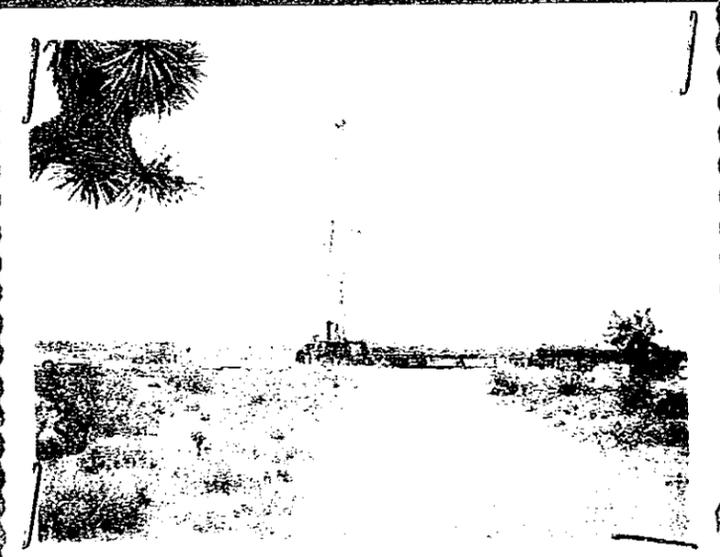
Formation Tops \_\_\_\_\_ Type Bit HUGHES OSC (medium)

Cores, Logs, DST \_\_\_\_\_ No. Bit \_\_\_\_\_ Drilling Rate \_\_\_\_\_

Formation \_\_\_\_\_

Crews Two 12 hr Towers mostly from Casa Grande Lithology fine gravel, clay

REMARKS, PHOTO, MAP



15  
WELL NAME EL PASO #1 Fed. STRAT

Permit No. 533  
Confidential: Yes

May 1, 1970

Memo from John Bannister

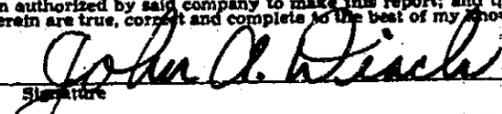
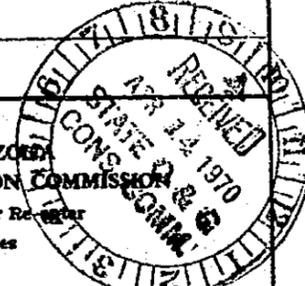
Memo to El Paso #1 Federal Strat  
SE NE 3-10N-10W  
Yavapai County  
Our File #533

John Disch telephoned today. Well was spudded on 4-30-70 at 4:15. 27' of 12-3/4" conductor was set, 15 sacks of cement. Now waiting on cement. Disch may be contacted at the Rancho Grande Motel, Wickenburg, telephone 684-5445. Disch spends most of his time at the well so he may be reached by leaving word and he will return the call. Has 24-hour telephone service. Lefty Morris, Farmington, is the geologist sitting on the well. He may be reached at the same telephone number.

## APPLICATION FOR PERMIT TO DRILL OR RE-ENTER

APPLICATION TO DRILL

RE-ENTER OLD WELL

El Paso Natural Gas Company		
NAME OF COMPANY OR OPERATOR		
600 Building of the Southwest	Midland	Texas 79701
Address	City	State
J. O. Barnes Drilling Company		
Drilling Contractor		
P. O. Box 141; Casa Grande, Arizona 85222		
Address		
DESCRIPTION OF WELL AND LEASE		
Federal, State or Indian Lease Number, or if fee lease, name of lessor	Well number	Elevation (ground)
Fed. A-4571 Bullard Wash Prospect	1	2216
Nearest distance from proposed location to property or lease line:	Distance from proposed location to nearest drilling, completed or applied—for well on the same lease:	
1400 FNL & 1247 FEL feet	None feet	
Number of acres in lease:	Number of wells on lease, including this well, completed in or drilling to this reservoir:	
1924.44	-0-	
If lease, purchased with one or more wells drilled, from whom purchased:	Name	Address
N. A.		
Well location (give footage from section lines)	Section—township—range or block and survey	Dedication (Comply with Rule 105)
1247 FEL & 1400 FNL	Sec. 3; T-10-N; R-10-W	N. A.
Field and reservoir (if wildcat, so state)	County	
Wildcat Stratigraphic Test	Yavapai	
Distance, in miles, and direction from nearest town or post office		
40 miles northwest of Wickenburg		
Proposed depth:	Rotary or cable tools	Approx. date work will start
6000 feet	rotary	April 24, 1970
Bond Status on file	Organization Report	Filing Fee of \$25.00
Amount	On file <input checked="" type="checkbox"/> Or attached	Attached on file
Remarks:		
This well is a <u>stratigraphic test</u> . It will be plugged and abandoned within six months of date after reaching total depth.		
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.		
 Signature		
April 13, 1970 Date		
Permit Number: <b>533</b>	STATE OF ARIZONA OIL & GAS CONSERVATION COMMISSION Application to Drill or Re-enter File Two Copies	
Approval Date: <u>4-22-70</u>		
Approved By: <u>John Pannister</u>	Form No. 3	
Notice: Before sending in this form be sure that you have given all information requested. Much unnecessary correspondence will thus be avoided.		

- Operator shall outline the dedicated acreage for both oil and gas wells on the plat.
- 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.
- All distances shown on the plat must be from the outer boundaries of the Section.
- Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES \_\_\_\_\_ NO \_\_\_\_\_
- If the answer to question four is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES \_\_\_\_\_ NO \_\_\_\_\_ If answer is "yes," Type of Consolidation \_\_\_\_\_
- If the answer to question four is "no," list all the owners and their respective interests below:

Owner U. S. Dept. of Interior	Land Description Open range
Section 3, T-10-N, R-10-W, Yavapia County, Arizona	
	<p style="text-align: center;"><b>CERTIFICATION</b></p> <p>I hereby certify that the information above is true and complete to the best of my knowledge and belief.</p> <p>Name _____</p> <p>Position _____</p> <p>Company _____</p> <p>Date _____</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>Date Surveyed April 4, 1970</p> <p>Registered Professional Engineer and/or Land Surveyor</p> <p>Basil Smith</p> <p>Certificate No. RPE 3058</p>

**PROPOSED CASING PROGRAM**

Size of Casing	Weight	Grade & Type	Top	Bottom	Cementing Depths	Sacks Cement
10 3/4	56	J-55	surf.	30'	Redi-mix to surf.	1 cu. yd.
7	24	J-55	surf.	1200'	1200 to surf.	350 sxs.



# PERMIT TO DRILL

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

To: EL PASO NATURAL GAS COMPANY  
(OPERATOR)

to drill a well to be known as

EL PASO NATURAL GAS COMPANY #1 FEDERAL STRAT  
(WELL NAME)

located 1247' FEL & 1400' FNL

Section 3 Township 10N Range 10W YAVAPAI County, Arizona.

The (STRAT TEST) 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 22 day of APRIL, 19 70.

OIL AND GAS CONSERVATION COMMISSION

By John Bannister  
EXECUTIVE SECRETARY

PERMIT N<sup>o</sup> 533

RECEIPT NO. 2867  
API NO. 02-025-20010

State of Arizona  
Oil & Gas Conservation Commission  
Permit to Drill

FORM NO. 27

**SAMPLES ARE REQUIRED**





**CORE LABORATORIES, INC.**  
Petroleum Reservoir Engineering  
DALLAS, TEXAS

September 5, 1972

Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77704

Attention: Mr. E. W. Thorp

Subject: Mud and Cuttings Analysis  
Bullard Wash No. 1 Well  
Wildcat  
Yavapai County, Arizona  
Location: Sec. 3, T-10N-R10W

Gentlemen:

A mobile laboratory of Core Laboratories, Inc. was present at the site of the above well during drilling operations between the depths of 3831 and 5656 feet. Using standard equipment and procedures, a one-man logging unit was used to continuously monitor the drilling fluid for hydrocarbon content. Drill cuttings were inspected at regular intervals for oil and gas content and lithology. To supplement the hot wire gas detector, a Programmed Hydrocarbon Detector (gas chromatograph) was used for detecting and measuring each hydrocarbon in the total gas. The results of the observations are shown on the attached Grapholog with other pertinent information, including drilling rate data and drilling fluid properties.

Should there be any questions, please contact us.

We are very pleased to have been of service and trust this information has assisted in evaluating this property.

Very truly yours,

Core Laboratories, Inc.

*R A Bartlett* (A)

R. A. Bartlett  
West Texas Logging Manager

RAB:dl

Distribution of Final Reports

27 Copies

Mr. E. W. Thorp  
Brown & Thorp Oil Company  
1247 Petroleum Building  
Beaumont, Texas 77704

3 Copies

Mr. R. A. Ulrich  
El Paso Natural Gas Company  
Box 990  
Farmington, New Mexico 87401

WA

El Paso Natural Gas Company

El Paso, Texas 79978

August 22, 1972

ADDRESS REPLY TO:  
1800 WILCO BUILDING  
MIDLAND, TEXAS 79701

Oil & Gas Conservation Commission  
4515 North 7th Avenue  
Phoenix, Arizona 85013

ATTN: Mr. W. E. Allen

Dear Sir:

In reply to your letter of August 17, 1972, concerning the location of the Bullard Wash Well Number 1, enclosed is a CORRECTED COPY of Form 9, showing the correct footage of the location from the section line.

The correct location is 1400 feet FNL and 1247 feet FEL of Section 3, T-10-N, R-10-W, Yavapai, Arizona.

Sincerely,

*John A. Disch*  
John A. Disch  
Division Well Test Engineer

JAD:abs  
Enclosure

RECEIVED

AUG 24 1972

O & G CONS. COMM.

533

August 17, 1972

Mr. John A. Disch  
El Paso Natural Gas Company  
600 Building of the Southwest  
Midland, Texas 79701

Re: El Paso Natural Gas Company #1 Bullard Wash  
SE/NE Section 3-T10N-R10W  
Yavapai County  
Permit No. 533

Dear John:

In going through the files on the above referenced well it was noticed that the Application to Drill and the surveyor's plat indicated the location of this well to be 1400' FNL and 1247' FEL of Section 3-T10N-R10W. The Completion Report, Form 4, and the Application to Abandon and Plug, Form 9, show the location to be 1400' FNL and 2700' FEL of Section 3. Even though we believe the location to be that as indicated on the surveyor's plat, we would still appreciate your confirming this location.

Very truly yours,

W. E. Allen, Director  
Enforcement Section

WEA/r1b

533



OFFICE OF  
**Oil and Gas Conservation Commission**

STATE OF ARIZONA  
4515 NORTH 7TH AVE.  
PHOENIX, ARIZONA 85013  
PHONE: (602) 271-5161

November 22, 1971

The following logs on El Paso Natural Gas Company - Bullard Wash #1, has been carried to Acme Blue Print and Photocraft for reproducing same logs for Humble Oil and Refining Company. Also El Paso Natural Gas Company, Red Lake No. 1 Permit #533 (El Paso Natural Gas Company- Bullard Wash #1)

- ✓SIDEWALL NEUTRON POROSITY LOG (SCHLUMBERGER)
- ✓BOREHOLE COMPENSATED SONIC LOG - GAMMA RAY (SCHLUMBERGER)
- ✓COMPENSATED FORMATION DENSITY LOG, GAMMA-GAMMA- (SCHLUMBERGER)
- ✓DUAL INDUCTION-LATERLOG + INDUCTION-ELECTRICAL LOG (SCHLUMBERGER)

Permit 542 (EL PASO NATURAL GAS COMPANY, RED LAKE NO. 1)

3-Dimensional Velocity Log (BIRDWELL)  
CALIPER LOG (BIRDWELL)  
DENSITY LOG (BIRDWELL)  
TEMPERATURE LOG (BIRDWELL)  
FOUR-ARM HIGH RESOLUTION CONTINUOUS DIPMETER (SCHLUMBERGER)  
INDUCTION-ELECTRICAL (SCHLUMBERGER)  
SIDEWALL NEUTRON POROSITY LOG (SCHLUMBERGER)

RECEIVED BY ACME BLUEPRINT & PHOTOCRAFT

*Alvin Juhl*

*Returned 11-23-71*

533

July 7, 1970

Mr. John A. Disch  
El Paso Natural Gas Company  
600 Building of the Southwest  
Midland, Texas

Re: El Paso #1 Federal Strat (Bullard Wash)  
SE/4 NE/4 Sec. 3-TION-R10W  
Yavapai County  
Our File #533

Dear Mr. Disch:

We are enclosing your approved copy of Application to Abandon and Plug. At your earliest convenience will you please furnish this office with Form 4, Completion Report.

We wish to take this opportunity to express our appreciation for your excellent cooperation.

Very truly yours,

W. E. Allen  
Director of Enforcement Section

WEA:jd  
Enc.

533

June 30, 1970

Mr. C. C. Goodwin  
El Paso Natural Gas Company  
600 Building of the Southwest  
Midland, Texas 79701

Re: El Paso Natural Gas Company #1 Federal Strat  
SE/4 NE/4 Sec. 3-T10N-R10W  
Yavapai County  
Our File #533

Dear Mr. Goodwin:

Enclosed are two copies of Application to Abandon and  
Plug. Will you please cause these forms to be completed  
for the above referenced well and return them to our office  
for approval at your earliest convenience.

Your cooperation is appreciated.

Very truly yours,

W. E. Allen  
Director of Enforcement Section

WEA:jd  
Enc.

533

Approved permit and application  
given to Mr. John Ditch on  
4-22-70 when he was in  
this office.

533

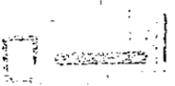
J. D.

John,

As per our conversation,  
here are copies of the  
logs in the Red Lake  
area drilled by Kerr-  
Mabee. We plan on  
moving in equipment  
on our project around  
the 24th of April, so I'll  
see you sometime  
during that week.

533

John A.  
Ditch



UNCLASSIFIED

