



PHILLIPS PETROLEUM COMPANY

ODESSA, TEXAS 79762
4001 PENBROOK

NATURAL RESOURCES GROUP
Exploration and Production

May 5, 1980

Conversion to Water Injection Service--
East Vacuum Grayburg-San Andres Unit
Tract No. 3332, Well No. 001
Vacuum Grayburg-San Andres Pool
Lea County, New Mexico

New Mexico Dept. of Energy & Minerals (3)
Oil Conservation Division
P. O. Box 2088
Santa Fe, New Mexico 87501

Attention: Mr. Joe D. Ramey
Division Director

Gentlemen:

We respectfully request administrative approval as provided by Order No. R5897, Rule No. 9, for the East Vacuum Unit pressure maintenance project, to convert the East Vacuum Grayburg-San Andres Unit, Tract 3332, Well No. 001, to water injection service. The following data is submitted in support of this request:

1. Unit plat reflecting the proposed injection well and injection well project area. (Well: Unit A, 33, 17-S, 35-E.)
2. Borehole compensated sonic log of the injection well.
3. Diagrammatic sketch of the proposed well, injection tubing, packer, and pressure control elements identifying the San Andres perforated injection interval.
4. The name of the injection formation is San Andres with injection to be into the interval 4394 to 4631 feet. Injection will be by gravity with an anticipated maximum of 500 barrels of water per day.

Your consideration and early advice will be appreciated.

Very truly yours,

T. Harold McLemore
Area Regulation and Proration Analyst

THM:skm
Attachments

cc: Oil Conservation Division
Hobbs, New Mexico (Attachments w/o log)

PHILIPS PETROLEUM COMPANY

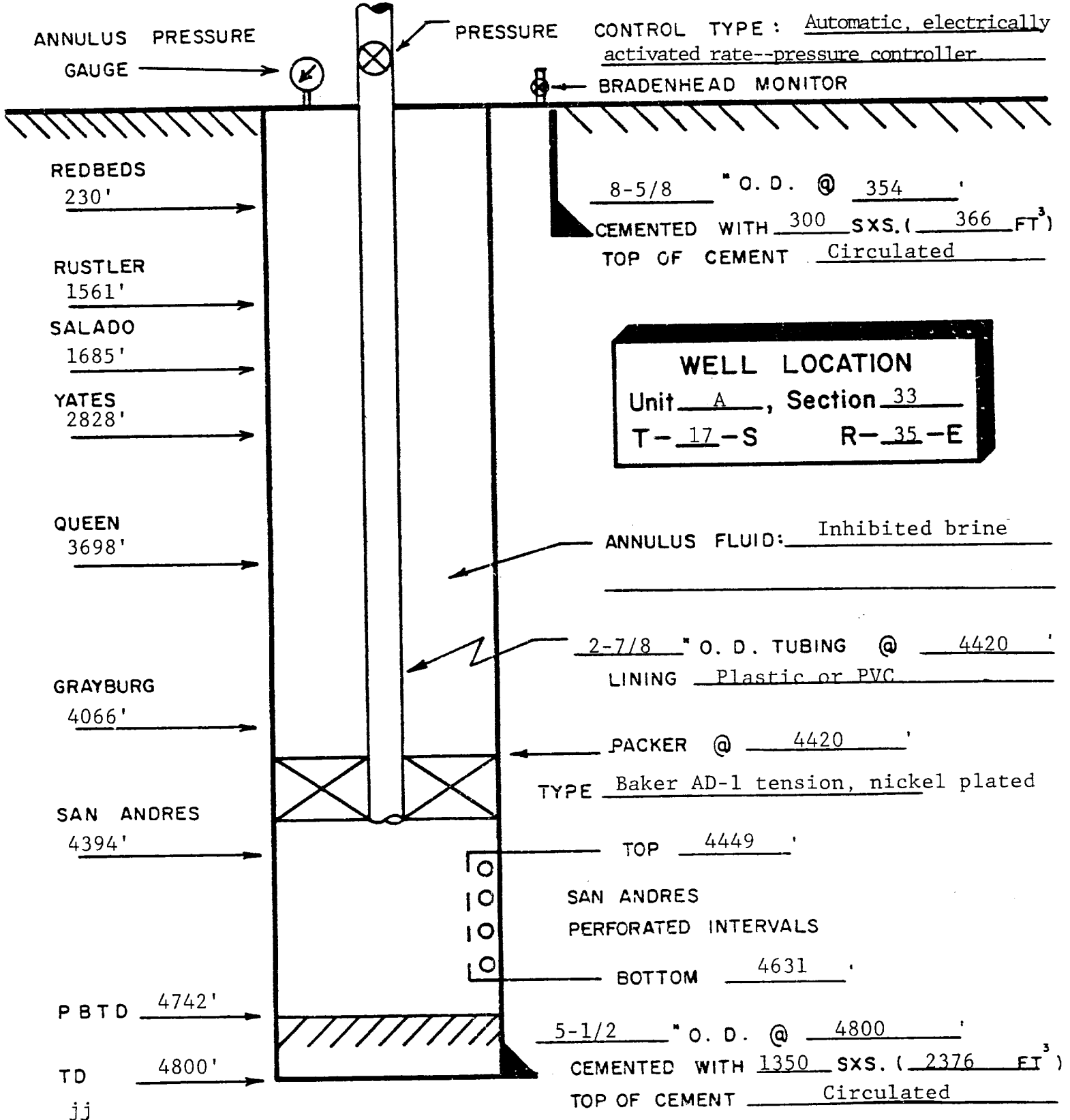
EAST VACUUM UNIT PRESSURE MAINTENANCE PROJECT

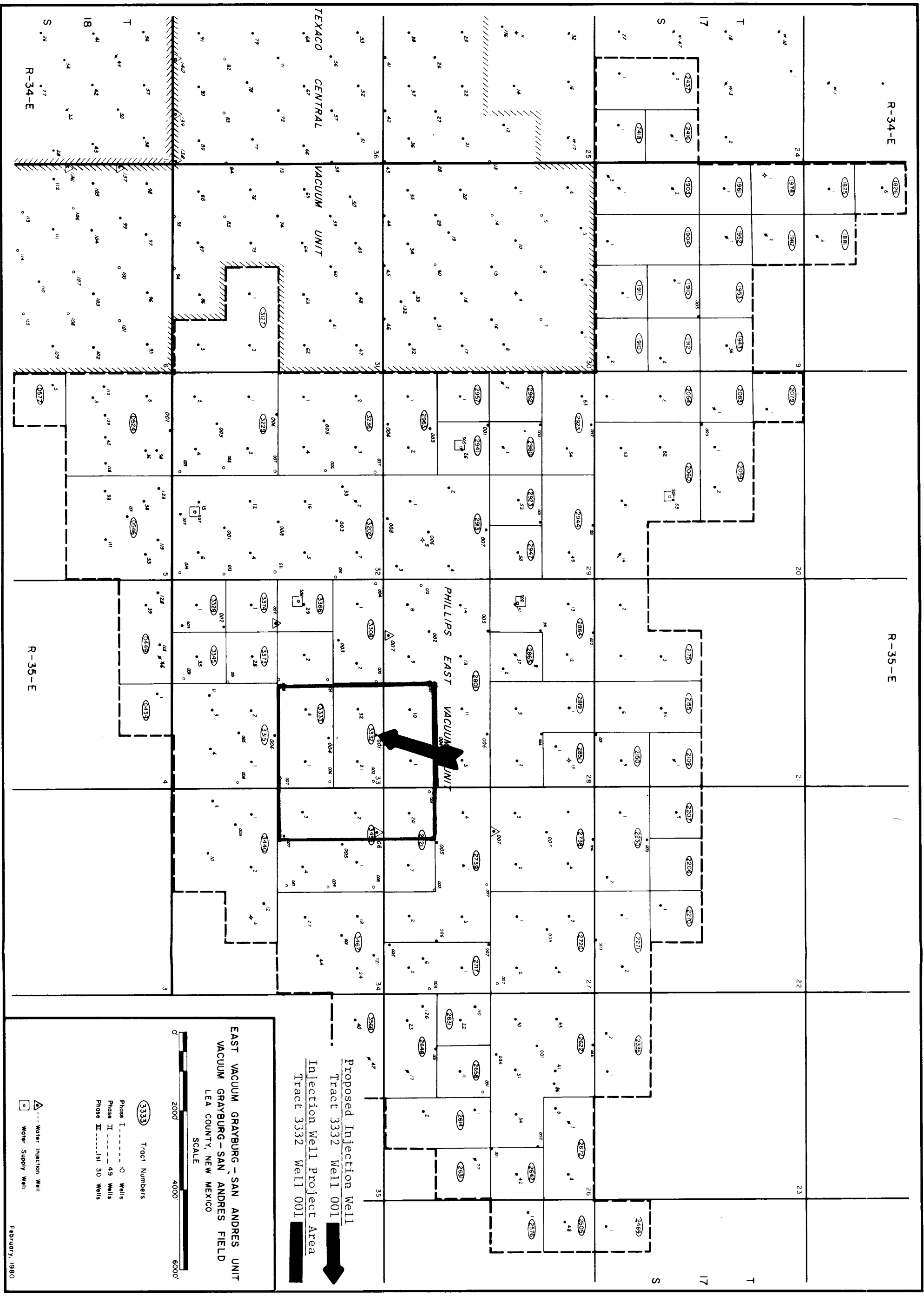
N. M. O. C. D. R-5897

VACUUM GRAYBURG - SAN ANDRES POOL, LEA COUNTY, NEW MEXICO

TRACT 3332 WELL 001

CONVERSION TO WATER INJECTION STATUS





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**NEW MEXICO OIL CONSERVATION COMMISSION
WELL COMPLETION OR RECOMPLETION REPORT AND LOG**

Form C-105
Revised 11-1-78

API No. 30-025-26401

5a. Indicate Type of Lease	
State ☒	Fee ☐
5. State Oil & Gas Lease No.	
B-1608	

1a. TYPE OF WELL	
OIL WELL ☒	GAS WELL ☐ DRY ☐ OTHER ☐
b. TYPE OF COMPLETION	
NEW WELL ☒ WORK OVER ☐ DEEPEN ☐	PLUG BACK ☐ DIFF. RESVR. ☐ OTHER ☐

7. Unit Agreement Name
East Vacuum Grayburg-San Andres Unit
8. Farm or Lease Name
East Vacuum Grayburg-San Andres Unit, TR 3332

2. Name of Operator
Phillips Petroleum Company

3. Address of Operator
Room 401, 4001 Penbrook Street, Odessa, Texas 79762

4. Location of Well
UNIT LETTER <u>A</u> LOCATED <u>1310</u> FEET FROM THE <u>East</u> LINE AND <u>200</u> FEET FROM

9. Well No.
001

10. Field and Pool, or Wildcat
Vacuum Gb/San Andres

THE <u>North</u> LINE OF SEC. <u>33</u> TWP. <u>17-S</u> RGE. <u>35-E</u> NMPN
--

11. County
Lea

15. Date Spudded	16. Date T.D. Reached	17. Date Compl. (Ready to Prod.)	18. Elevations (DF, RKB, RT, GR, etc.)	19. Elev. Casinghead
10-22-79	11-7-79	12-27-79	3954' GL 3958' RKB	---

20. Total Depth	21. Plug Back T.D.	22. If Multiple Compl., How Many	23. Intervals Drilled By	Rotary Tools	Cable Tools
4800'	4742'	---	Rotary	---	---

24. Producing Interval(s), of this completion - Top, Bottom, Name	25. Was Directional Survey Made
Grayburg-San Andres Top 4068' Bottom 4800'	No

26. Type Electric and Other Logs Run	27. Was Well Cored
Schlumberger DLL-RXO-BHC Sonic-CAL	No

CASING RECORD (Report all strings set in well)					
CASING SIZE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED
8-5/8"	24#, K-55	354'	11" (w/300 sx C1 H w/2% CaCl, 1/4#/sx Circ 70 sxs.)		Flocele.
5-1/2"	14#, K-55	4798'	7-7/8" (w/1000 sx TLW, 12# salt, 10% DD, 1/4# Flocele, (3# Gilsonite, tail w/350 sxs C1 "H", 8# salt, 2% CaCl. Circ to surface.)		

LINER RECORD				TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2-7/8"	4630'

31. Perforation Record (Interval, size and number)			32. ACID, SHOT, FRACTURE, CEMENT SQUEEZE, ETC.		
Perfd 5-1/2"	4449-66'	4544-64'	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED	
	4472-79'	4623-31'	4449-4631'	(w/29,000 gals 15% NE HCl in (6 stages w/ball sealers.)	
	4481-89'	65' 73 shots			
	4508-14'				
	38' 38 shots				

33. PRODUCTION							
Date First Production		Production Method (Flowing, gas lift, pumping - Size and type pump)				Well Status (Prod. or Shut-in)	
1-3-80		Insert pump 2-1/2" x 1-1/2" x 16'				Prod.	
Date of Test	Hours Tested	Choke Size	Prod'n. For Test Period	Oil - Bbl.	Gas - MCF	Water - Bbl.	Gas - Oil Ratio
1-7-80	24	---		113	65	44	576
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API (Corr.)	
---	---					36.8	

34. Disposition of Gas (Sold, used for fuel, vented, etc.)	Test Witnessed By
Sold	E. T. Millhollon

35. List of Attachments
Schlumberger will furnish logs direct.

36. I hereby certify that the information shown on both sides of this form is true and complete to the best of my knowledge and belief.		
SIGNED <u>W. J. Mueller</u>	TITLE <u>Sr. Engineering Specialist</u>	DATE <u>January 10, 1980</u>

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Commission not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, Items 30 through 34 shall be reported for each zone. The form is to be filed in triplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico

Northwestern New Mexico

T. Anhy _____	T. Canyon _____	T. Ojo Alamo _____	T. Penn. "B" _____
T. Salt _____	T. Strawn _____	T. Kirtland-Fruitland _____	T. Penn. "C" _____
B. Salt Rustler 1562'	T. Atoka _____	T. Pictured Cliffs _____	T. Penn. "D" _____
T. Yates 2859'	T. Miss _____	T. Cliff House _____	T. Leadville _____
T. 7 Rivers _____	T. Devonian _____	T. Menefee _____	T. Madison _____
T. Queen 3700'	T. Silurian _____	T. Point Lookout _____	T. Elbert _____
T. Grayburg 4068'	T. Montoya _____	T. Mancos _____	T. McCracken _____
T. San Andres 4383'	T. Simpson _____	T. Gallup _____	T. Ignacio Qtzte _____
T. Glorieta _____	T. McKee _____	Base Greenhorn _____	T. Granite _____
T. Paddock _____	T. Ellenburger _____	T. Dakota _____	T. _____
T. Blinberry _____	T. Gr. Wash _____	T. Morrison _____	T. _____
T. Tubb _____	T. Granite _____	T. Todilto _____	T. _____
T. Drinkard _____	T. Delaware Sand _____	T. Entrada _____	T. _____
T. Abo _____	T. Bone Springs _____	T. Wingate _____	T. _____
T. Wolfcamp _____	T. _____	T. Chinle _____	T. _____
T. Penn. _____	T. _____	T. Permian _____	T. _____
T. Cisco (Bough C) _____	T. _____	T. Penn. "A" _____	T. _____

OIL OR GAS SANDS OR ZONES

No. 1, from _____ to _____ No. 4, from _____ to _____
 No. 2, from _____ to _____ No. 5, from _____ to _____
 No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from _____ to _____ feet.
 No. 2, from _____ to _____ feet.
 No. 3, from _____ to _____ feet.
 No. 4, from _____ to _____ feet.

FORMATION RECORD (Attach additional sheets if necessary)

From	To	Thickness in Feet	Formation	From	To	Thickness in Feet	Formation
0	354	354	Surface				
354	2595	2241	Salt				
2595	2995	400	Anhy				
2995	3267	272	Lime				
3267	3532	265	Anhy & Lime				
3532	4138	606	Anhy, Dolo & Shale				
4138	4318	180	Dolo				
4318	4800	482	Anhy & Dolo				
	TD						

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