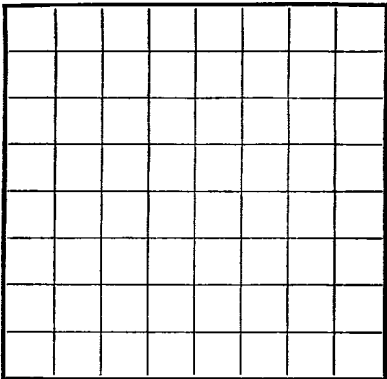
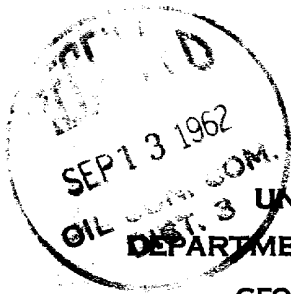




LOCATE WELL CORRECTLY



U. S. LAND OFFICE New Mexico
SERIAL NUMBER 013685
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 930, Farmington, New Mexico
Lessor or Tract Schwerdtfeger Field Blanco Mesa Verde State New Mexico
Well No. 2(OWO) Sec. 27 T. 31N R. 9W Meridian N.M.P.M. County San Juan
Location 1750 ft. S. of N Line and 1650 ft. W. of E Line of Sec. 27 Elevation 6218
(Derrick floor relative to sea level)

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.
Signed ORIGINAL SIGNED H.E. McANALLY

Date September 10, 1962 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.
Commenced drilling April 29, 1962 Finished drilling No-Comp - 7-11, 1962

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 4847 to 5468 (G) No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9 5/8"	45.4	8 rd	3-55	1000	3-55	4847			Intermediate casing
7"	28.5	8 rd	3-55	1000	3-55	4847			Intermediate casing
4 1/2"	10.5	8 rd	3-55	1000	3-55	4847			Intermediate casing
2 3/8"	4.5	8 rd	3-55	1000	3-55	4847			Prod tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	292	200	circulated		
7"	4663	300	single stage		
4 1/2"	5434	125	single stage		

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
See Workover Summary Attached.						

TOOLS USED

Rotary tools were used from 0 feet to 4663 feet, and from 4663 feet to 5510 feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

8-1- 1962 Put to producing _____, 19____
The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours 2,331,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 895 - Tubing A.O.F. 4895

EMPLOYEES

_____, Driller _____, Driller
_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3080	3080	Tan to gry cr-gra ss interbedded w/gry sh. Pictured Cliffs form. Gry, fine-gra, tight, varicolored soft ss. Cliff House ss. Gry, fine-gra, dense sil ss. Manafee form. Gry, fine-gra s, carb sh & coal. Point Lookout form. Gry, very fine sil ss w/frequent sh breaks. Mancos form. Gry carb sh.
3080	4847	1767	
4847	4962	115	
4962	5374	412	
5374	5400	26	
5400	5435	35	

 LEASE OR PERMIT TO PROSPECT

 SERIAL NUMBER

 U.S. LAND OFFICE

 New Mexico

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

A blank 10x10 grid for graphing, consisting of 10 columns and 10 rows of squares.

The information given herewith is a complete and correct record of the well and all work done thereon so far as can be determined from all available records.

Signed _____

W. L. _____ of _____ Line and _____ ft. _____ of _____ Elevation _____

N.E.B.M. County _____ State _____ Mexico

Field Name _____ State _____ Mexico

Address _____ Box _____ International New Mexico

Company _____

Completed drilling April 23, 1942
The summary on this page is for the condition of the well at above date.
8-15-42
22
Title ~~Continued~~ ~~Drilling~~ ~~Drilling~~

(Denote gas by G)

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

from No. 1	to	No. 1, from
from No. 2	to	No. 2, from

CASING RECORD

Serial No.	Date	Place	Time	Depth	Direction	Remarks	Remarks
1	1907	10.7	11	11	11	11	11
2	1907	10.7	11	11	11	11	11
3	1907	10.7	11	11	11	11	11
4	1907	10.7	11	11	11	11	11
5	1907	10.7	11	11	11	11	11
6	1907	10.7	11	11	11	11	11
7	1907	10.7	11	11	11	11	11
8	1907	10.7	11	11	11	11	11
9	1907	10.7	11	11	11	11	11
10	1907	10.7	11	11	11	11	11
11	1907	10.7	11	11	11	11	11
12	1907	10.7	11	11	11	11	11
13	1907	10.7	11	11	11	11	11
14	1907	10.7	11	11	11	11	11
15	1907	10.7	11	11	11	11	11
16	1907	10.7	11	11	11	11	11
17	1907	10.7	11	11	11	11	11
18	1907	10.7	11	11	11	11	11
19	1907	10.7	11	11	11	11	11
20	1907	10.7	11	11	11	11	11
21	1907	10.7	11	11	11	11	11
22	1907	10.7	11	11	11	11	11
23	1907	10.7	11	11	11	11	11
24	1907	10.7	11	11	11	11	11
25	1907	10.7	11	11	11	11	11
26	1907	10.7	11	11	11	11	11
27	1907	10.7	11	11	11	11	11
28	1907	10.7	11	11	11	11	11
29	1907	10.7	11	11	11	11	11
30	1907	10.7	11	11	11	11	11
31	1907	10.7	11	11	11	11	11
32	1907	10.7	11	11	11	11	11
33	1907	10.7	11	11	11	11	11
34	1907	10.7	11	11	11	11	11
35	1907	10.7	11	11	11	11	11
36	1907	10.7	11	11	11	11	11
37	1907	10.7	11	11	11	11	11
38	1907	10.7	11	11	11	11	11
39	1907	10.7	11	11	11	11	11
40	1907	10.7	11	11	11	11	11
41	1907	10.7	11	11	11	11	11
42	1907	10.7	11	11	11	11	11
43	1907	10.7	11	11	11	11	11
44	1907	10.7	11	11	11	11	11
45	1907	10.7	11	11	11	11	11
46	1907	10.7	11	11	11	11	11
47	1907	10.7	11	11	11	11	11
48	1907	10.7	11	11	11	11	11
49	1907	10.7	11	11	11	11	11
50	1907	10.7	11	11	11	11	11
51	1907	10.7	11	11	11	11	11
52	1907	10.7	11	11	11	11	11
53	1907	10.7	11	11	11	11	11
54	1907	10.7	11	11	11	11	11

MUDDING AND CEMENTING RECORD

Coating Size	Wet set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
1/2"	14.8	1.5	ring & stage		
1/2"	14.3	3.5	ring & stage		
1/2"	28.6	3.5	ring & stage		

PLUGS AND ADAPTERS

Adapters—Material	Length	Depth set
Heaving plug—Material		

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	feet to	feet and from	feet to
Cable tools were used from	feet to	feet and from	feet to

DATE

Oil gas well, cu. ft. per 24 hours		Gallons gasoline per 1,000 cu. ft. of gas
Emulsion; % water; and % sediment		Gravity, °Bé.
The production for the first 24 hours was	_____ barrels of fluid of which _____% was oil;	
_____ 19-____	Put to producing _____,	19-____

EMPLOYEES

Driller	Driller		
Driller	Driller		

FORMATION RECORD

[illegible]

Workover - Schwerdtfeger #2

Location - 1750'N, 1650' E, T-31-N, R-9-W, San Juan County, New Mexico.

- 6-13-62 Rigged up S. S. Reames Well Service.
6-14-62 Pulled 105' 2" tubing. Recovered 8 more joints and 1 10' pup joint, total footage recovered 258'.
6-15-62 Top of fish @ 827'. Shot off tubing @ 4820'. Recovered 129 jts.
6-16-62 Set Baker Mag. Model "K" Cement retainer @ 4570'. Cemented w/300 sacks regular, 4% gel, 1/4# flocele, 1/8# tuffplug/sk., followed by 100 sacks regular w/10% 10-20 sand. Pumped in at 1200#, lacked 6 bbls. displacing D.P. when pressure went to 2350#. Unseated from retainer and did not attempt to reverse out because of hole in 7" casing.
6-18-62 Mudded up to 4684'.
6-19-62 Set whipstock @ 4687', drilling. Pulled whipstock.
6-21-62 Set Baker Mag. Model "k" retainer @ 4600'. Cemented w/300 sacks regular, 4% gel, 1/4# flocele/sk., 1/8# tuffplug/sk., followed by 100 sacks regular w/10% 10-20 sand.
6-20-62 Drilling on cement. Cleaned out to 4682'.
6-23-62 Set #2 whipstock @ 4683'. Drilling off whipstock to 4701'.
6-24-62 Drilled to 4716'.
6-25-62 Drilling.
6-26-62 Ran 61/8" O.D. Bowen O.S. w/4 7/8" spiral grapples. Unable to get enough hold to pull fish. Went in w/long taper top. Unable to screw into fish.
6-27-62 Fishing. No results.
6-28-62 Top of fish @ 4689'. Set whipstock #3 @ 4734'.
6-29-62 Drilling
7-2-62 Drilling.
7-5-62 Drilling & Reaming.
7-7-62 Lost 8 4 5/8" drill collars in hole & totco instrument.
7-8-62 Fishing, recovered 8 drill collars & totco instruments.
7-9-62 Drilling
7-12-62 Lost circulation at 5415'.
7-14-62 Ran 172 joints 4 1/2" 10.5# J-55 casing (5423') set at 5434'. Cemented w/125 sacks regular, 4% gel, 1/8# flocele/sk. 1/4# fine tuffplug/sk. Ran temperature survey @ 4790'.
7-16-62 Perf 5422-16;5392-86;5356-50;5334-28;5292-86 (2 SPF) Frac w/50,000 gallons water, 50,000# sand. I.R. 37.5 BPM. Max pr 4200#, BDP 800#, tr pr 2200-2300-3500-4200#, 3 drops of 12 balls. Set Mag. Bridge Plug @ 5010', Pressure 2500-0#, Set B.P. @ 5008', pumped by 14 BPM @ 1200#. Set full bore packer @ 2500'. held 1700# O.K. Set packer @ 5004', held 1700#, O.K. Pumped past 9 BPM @ 1000#. Blowing @ 5008'.
7-17-62 Drilled up Bridge Plugs. Blowing well.
7-18-62 Perf 4904-4910, pressured up. Had returns to surface outside of 4 1/2" casing. Cemented w/100 sacks regular, 2% calcium chloride, full returns to surface.
7-19-62 Perf 4904-10;4934-40;4950-56 (2 SPF); Frac w/30,000 gal water, 30,000# sand. Flush w/3500 gallons. I.R. 47 BPM. Max pr 2600#, BDP 2600#, Max pr 2500#, tr pr 1800-2600#. 3 drops of 12 balls.
7-20-62 Blowing.
7-21-62 Ran 172 joints 2 3/8" 4.7#, J-55 tubing (5384') set at 5396'. Shut in for test.
8-1-62 Date well was tested.