

U. S. LAND OFFICE Jicarilla-Apache
SERIAL NUMBER Cont. No. 84
LEASE OR PERMIT TO PROSPECT

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OIL CON. COM.
DIST. 3 DEPA

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY U. S.

NOV 4 1960
U. S. GEOLOGICAL SURVEY
ALBUQUERQUE, NEW MEXICO

[illegible]

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Jicarilla Field Wildcat Dakota State New Mexico
Well No. 84-2 Sec. 21 T. 28-N R. 3-W Meridian N.M.P.M. County Rio Arriba
Location 1560 ft. [N.] of 8 Line and 1750 ft. [E.] of W Line of Sec. 21 Elevation 7004

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 _____ Criminal Signed By: D.H. Oheim

Date October 31, 1960 Title Petroleum Engineer

The summary on this page is for the condition of the well at above date.

Commenced drilling 8-4-, 1960 Finished drilling 9-4-, 1960

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 _____
 No. 4, 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—	
3/4"	2.75	7.2	4.4	2.25	TIG PLUG				ONE SHOT
with two lessons in the work and in learning it there was a change made in the casing and the type and it was casing was made of the strongest substance to make a complete assembly of the casing. It was then in design the casing of requiring together.									
SECTION OF ONE OF THE CASES AFTER									
							16-1000-3	17-1000-3	INITIALS ONLY

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
3/4"	291	310	circulated		

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 Back				

TOOLS USED

Rotary tools were used from 0 foot to 8413 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

-----9-17-----, 19-60 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 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	3278	3278	Tan to gry cr-grn ss interbedded w/gry sh.'
3278	3442	164	Ojo Alamo ss. White cr-grn s.
3442	3556	114	Kirtland form Gry sh interbedded w/tight gry fine-grn ss.
3556	3668	112	Fruitland form Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3668	3930	262	Pictured Cliffs form Gry, fine-grn, tight, varicolored soft ss.
3930	5655	1725	Lewis form. Gry, fine-grn, dense sil ss.
5655	5704	49	Cliff House ss. Gry, fine-grn, dense sil ss.
5704	5971	267	Manatee form. Gry, fine-grn s, carb sh & coal.
5971	6125	154	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
6125	7040	915	Nancoos form. Gry carb sh.
7040	7658	618	Gallup form. Lt gry to brn calc carb micac glauco very fine gry ss w/irreg.interbed sh.
7658	7947	289	Santonian form. Brk gry calc very fine to fine gry ss w/calc veins w/irreg inter drk gry s.
7947	8009	62	Greenhorn form Highly calc gry sh w/thin linst.
8009	8157	148	Graneros form. Brk gry shale, fossil & carb w/white incl.
8157	8382	225	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/white incl thin sh bands clay & shale breaks.
8382	8413	31	Morrison form. Interbedded grn brn & red var

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LOCATE WELL CORRECTLY

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Signed _____

The summary on this page is for the condition of the well at above date.

Commenced drilling		Finished drilling	
19	20	19	20
10	10	10	10

(G) ~~is not~~ ~~not~~

This well was plugged and abandoned in the following manner:
 1. Cement plug from 810'-8069 w/25 lbs. reg. cement.
 2. Cement plug from 1168'-1000 w/25 lbs. reg. cement.
 3. Cement plug from 5690'-5590 w/25 lbs. reg. cement.
 4. Cement plug from 3050'-3100 w/25 lbs. reg. cement.
 5. Cement plug from 100'-800 w/40 lbs. reg. cement.

[illegible]

Casting per foot	Gate Weight	Thrust per inch	Make	Amount	Kind of spines	Cost and pulled from	From— To—	Performed By—
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of re-drilling, together with the reasons for the work and its results. If there were any changes made in the casting, state fully, and if any casting was "detached" or left in the well, give date, size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.								

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE

FORMATION RECORD				MUDGING AND CEMENTING RECORD			
FROM-	TO-	TOTAL FEET	FORMATION	Number sacks of cement	Method used	Wind gravity	Amount of mud used
0-10	10-20	10	Light gray shale, fossiliferous, w/white sand.				
10-20	20-30	20	Greenish gray shale, fossiliferous, w/white sand.				
20-30	30-40	20	Pointed limestone, gray, fine-grained, w/white sand.				
30-40	40-50	20	Massive limestone, gray, fine-grained, w/white sand.				
40-50	50-60	20	Light gray shale, fossiliferous, w/white sand.				
50-60	60-70	20	Greenish gray shale, fossiliferous, w/white sand.				
60-70	70-80	20	Pointed limestone, gray, fine-grained, w/white sand.				
70-80	80-90	20	Massive limestone, gray, fine-grained, w/white sand.				
80-90	90-100	20	Light gray shale, fossiliferous, w/white sand.				
90-100	100-110	20	Greenish gray shale, fossiliferous, w/white sand.				
100-110	110-120	20	Pointed limestone, gray, fine-grained, w/white sand.				
110-120	120-130	20	Massive limestone, gray, fine-grained, w/white sand.				
120-130	130-140	20	Light gray shale, fossiliferous, w/white sand.				
130-140	140-150	20	Greenish gray shale, fossiliferous, w/white sand.				
140-150	150-160	20	Pointed limestone, gray, fine-grained, w/white sand.				
150-160	160-170	20	Massive limestone, gray, fine-grained, w/white sand.				
160-170	170-180	20	Light gray shale, fossiliferous, w/white sand.				
170-180	180-190	20	Greenish gray shale, fossiliferous, w/white sand.				
180-190	190-200	20	Pointed limestone, gray, fine-grained, w/white sand.				
190-200	200-210	20	Massive limestone, gray, fine-grained, w/white sand.				
200-210	210-220	20	Light gray shale, fossiliferous, w/white sand.				
210-220	220-230	20	Greenish gray shale, fossiliferous, w/white sand.				
220-230	230-240	20	Pointed limestone, gray, fine-grained, w/white sand.				
230-240	240-250	20	Massive limestone, gray, fine-grained, w/white sand.				
240-250	250-260	20	Light gray shale, fossiliferous, w/white sand.				
250-260	260-270	20	Greenish gray shale, fossiliferous, w/white sand.				
260-270	270-280	20	Pointed limestone, gray, fine-grained, w/white sand.				
270-280	280-290	20	Massive limestone, gray, fine-grained, w/white sand.				
280-290	290-300	20	Light gray shale, fossiliferous, w/white sand.				
290-300	300-310	20	Greenish gray shale, fossiliferous, w/white sand.				
300-310	310-320	20	Pointed limestone, gray, fine-grained, w/white sand.				
310-320	320-330	20	Massive limestone, gray, fine-grained, w/white sand.				
320-330	330-340	20	Light gray shale, fossiliferous, w/white sand.				
330-340	340-350	20	Greenish gray shale, fossiliferous, w/white sand.				
340-350	350-360	20	Pointed limestone, gray, fine-grained, w/white sand.				
350-360	360-370	20	Massive limestone, gray, fine-grained, w/white sand.				
360-370	370-380	20	Light gray shale, fossiliferous, w/white sand.				
370-380	380-390	20	Greenish gray shale, fossiliferous, w/white sand.				
380-390	390-400	20	Pointed limestone, gray, fine-grained, w/white sand.				
390-400	400-410	20	Massive limestone, gray, fine-grained, w/white sand.				
400-410	410-420	20	Light gray shale, fossiliferous, w/white sand.				
410-420	420-430	20	Greenish gray shale, fossiliferous, w/white sand.				
420-430	430-440	20	Pointed limestone, gray, fine-grained, w/white sand.				
430-440	440-450	20	Massive limestone, gray, fine-grained, w/white sand.				
440-450	450-460	20	Light gray shale, fossiliferous, w/white sand.				
450-460	460-470	20	Greenish gray shale, fossiliferous, w/white sand.				
460-470	470-480	20	Pointed limestone, gray, fine-grained, w/white sand.				
470-480	480-490	20	Massive limestone, gray, fine-grained, w/white sand.				
480-490	490-500	20	Light gray shale, fossiliferous, w/white sand.				
490-500	500-510	20	Greenish gray shale, fossiliferous, w/white sand.				