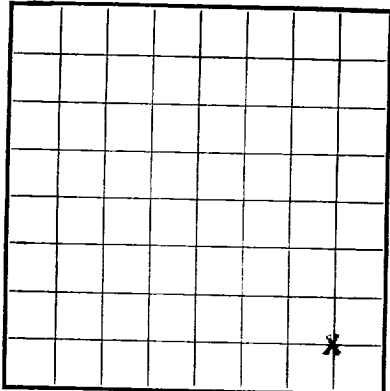




LOCATE WELL CORRECTLY

U. S. LAND OFFICE 38
SERIAL NUMBER 081226
LEASE OR PERMIT TO PROSPECT 1958UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Products Co. Address Box 1565, Farmington, New Mexico
Lessor or Tract Horseshoe Canyon Field Horseshoe Gallup State New Mexico
Well No. 11 Sec. 3 T. 30NR. 16W Meridian NMPM County San Juan
Location 692 ft. (N.) of S. Line and 835 ft. (W.) of E. Line of Section 3 Elevation 5566'
(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 BY: JOSEPH E. KREGERDate February 5, 1959Title Petroleum Engineer

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

Commenced drilling December 10, 1958 Finished drilling December 21, 1958

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1461 to 1508 No. 4, from _____
No. 2, from 1580 to 1600 No. 5, from _____
No. 3, from _____ to _____ No. 6, from _____

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—	
<u>8-5/8"</u>	<u>32.00</u>	<u>3 Rd.</u>	<u>J-55</u>	<u>96</u>	<u>Baker</u>				<u>Surf. Csg.</u>
<u>5-1/2"</u>	<u>25.50</u>	<u>8 105</u>	<u>F-35</u>	<u>1636</u>	<u>Baker</u>		<u>1461</u>	<u>1600</u>	<u>Prod. Csg.</u>
			<u>H-12</u>						

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8"</u>	<u>107</u>	<u>100</u>	<u>Circulated</u>		
<u>5-1/2"</u>	<u>164</u>	<u>100</u>	<u>Single Stage</u>		

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
		<u>See "Well History"</u>				

TOOLS USED

Rotary tools were used from 0 feet to 1649 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

December 24, 1958 Put to producing January 15, 1959

The production for the first 24 hours was 100 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% sediment.

Gravity, °Bé. 0xxx API 41.2

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
<u>0</u>	<u>1325</u>	<u>1325</u>	<u>Mancos Form. Gy. carb. shale.</u>
<u>1325</u>	<u>1610</u>	<u>285</u>	<u>Gallup Form. Lt. gy. to brn. calc. carb. micaceous glauconitic. Very fn. to med. gr. ss. w/irreg. interbedded shale.</u>
<u>1610</u>	<u>1649</u>	<u>39</u>	<u>Sanastee Form. Dk. gy. calc. v/fn. to fn. gy. ss. w/calc. veins, w/irreg. inbd. dk. gy. sd.</u>
TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.			

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

A blank sheet of graph paper with a grid pattern. The grid consists of 10 columns and 8 rows of squares, formed by thin black lines. A thicker border surrounds the grid area.

ORIGINAL 21840 84-1025H-F. KREIER

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

Commenced drilling _____, 19____
Finished drilling _____, 19____

OIL OR GAS SANDS OR ZONES

(Derote das pa G)

No. 1, from _____ of _____ No. 4, from _____

1500; applied to the subject of the report of the

12-23-58
No. 3, from
SOF parts. 1580 1800 with 20,054 parts; oil and 24,000 sand;
URUM with 1660 parts; oil; IR--4944 1600; 1400; 1100; 1000; 900; 800; 700; 600; 500; 400; 300; 200; 100; 50; 25; 12.5; 6.25; 3.125; 1.5625; .78125; .390625; .1953125; .09765625; .048828125; .0244140625; .01220703125; .006103515625; .0030517578125; .00152587890625; .000762939453125; .0003814697265625; .00019073486328125; .000095367431640625; .0000476837158203125; .00002384185791015625; .000011920928955078125; .0000059604644775390625; .00000298023223876953125; .000001490116119384765625; .0000007450580596923828125; .00000037252902984619140625; .000000186264514923095703125; .0000000931322574615478515625; .00000004656612873077392578125; .000000023283064365386962890625; .0000000116415321826934814453125; .00000000582076609134674072265625; .000000002910383045673370361328125; .0000000014551915228366851806640625; .00000000072759576141834259033203125; .000000000363797880709171295166015625; .0000000001818989403545856475830078125; .00000000009094947017729282379150390625; .000000000045474735088646411895751953125; .0000000000227373675443232059478759765625; .00000000001136868377216160297393798828125; .000000000005684341886080801486968994140625; .000000000002842170943040400743484497072265625; .0000000000014210854715202003717422485361328125; .00000000000071054273576010018587112426806640625; .000000000000355271367880050092935562134403203125; .0000000000001776356839400250464677810672016015625; .00000000000008881784197001252323389053360080078125; .000000000000044408920985006261616945266800400390625; .0000000000000222044604925031308084726334002001953125; .00000000000001110223024625156442423631670010009765625; .0000000000000055511151231257822121181583500050048828125; .00000000000000277555756156289110559079267500250244140625; .000000000000001387778780781445552795396337501251220703125; .00000000000000069388939039072277639769816875006103515625; .0000000000000003469446951953613881988490843750030517578125; .000000000000000173472347597680694099424542187500152587890625; .00000000000000008673617379884034704971227109375000762939453125; .000000000000000043368086899420173524856135468750003814697265625; .00000000000000002168404344971008676242806773437500019073486328125; .0000000000000000108420217248550433812140338671875000095367431640625; .000000000000000005421010862427521690607016933593750000476837158203125; .00000000000000000271050543121376084530350846679687500002384185791015625; .0000000000000000013552527156068804226517542333984375000011920928955078125; .0000000000000000006776263578034402113258771166699218750000059604644775390625; .000000000000000000338813178901720105662938583334960937500000298023223876953125; .00000000000000000016940658945086005283146929166748046875000001490116119384765625; .00000000000000000008470329472543002641573464583337402343750000007450580596923828125; .0000000000000000000423516473627150132078673229166870117187500000037252902984619140625; .000000000000000000021175823681357506603933661458343505859375000000186264514923095703125; .00000000000000000001058791184067875330196683072917175292968750000000931322574615478515625; .000000000000000000005293955920339376650983415364585876464843750000004656612873077392578125; .00000000000000000000264697796016968832549170768229293732242187500000023283064365386962890625; .0000000000000000000013234889800848441627458538411464686612109375000000116415321826934814453125; .00000000000000000000066174449004242208137292692057323433060468750000000582076609134674072265625; .000000000000000000000330872245021211040686463460286617165302343750000002910383045673370361328125; .0000000000000000000001654361225106055203432317301433085826511718750000014551915228366851806640625; .0000000000000000000000827180612553027601716158650716654413255859375000000072759576141834259033203125; .00000000000000000000004135903062765138008580793253582722066279296875000000363797880709171295166015625; .0000000000000000000000206795153138256900429409662679136103313964843750000001818989403545856475830078125; .000000000000000000000010339757656912845021470483133956805165658242187500000009094947017729282379150390625; .00000000000000000000000516987882845642251073524156697840258282912

1125; dropped 22 balls three times; bet. bridge plug at 1530' to No. 1, from

12-23-58 SOF parts. 1464-1508, with 80,000 gals. oil and 25,000# sand; flush with 1680 gals. oil; IR-60 4 pumps BOP-900; ATR-850-900

Size casing	Weight per foot	Threads per inch	Make	Amount Kind of pipe	Cut and pulled from	From—	To—
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It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "struck" or left in the well, give its 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 pulling.

HISTORY OF OIL OR GAS WELL

16-43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number rods of cement	Method used	Mud gravity	Amount of mud used

PLUGS AND ADAPTERS

Heaving plug	_____	Length	_____	Depth set	_____
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SHOOTING RECORD

[illegible]

TOOLS USED

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

DATE

Rock pressure, lbs. per sq. in.	
If gas well, cu. ft. per 24 hours	
emulsion; % water; and % sediment	
The production for the first 24 hours was	
Put to producing	 19

Gallons gasoline per 1,000 cu. ft. of gas
 Gravity, °Be.
 % was oil; %
 Put to producing

EMPLOYEES

		Driiler
		Driiler

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	10	10	10
10	20	20	20
20	30	30	30
30	40	40	40
40	50	50	50
50	60	60	60
60	70	70	70
70	80	80	80
80	90	90	90
90	100	100	100
100	110	110	110
110	120	120	120
120	130	130	130
130	140	140	140
140	150	150	150
150	160	160	160
160	170	170	170
170	180	180	180
180	190	190	190
190	200	200	200
200	210	210	210
210	220	220	220
220	230	230	230
230	240	240	240
240	250	250	250
250	260	260	260
260	270	270	270
270	280	280	280
280	290	290	290
290	300	300	300
300	310	310	310
310	320	320	320
320	330	330	330
330	340	340	340
340	350	350	350
350	360	360	360
360	370	370	370
370	380	380	380
380	390	390	390
390	400	400	400
400	410	410	410
410	420	420	420
420	430	430	430
430	440	440	440
440	450	450	450
450	460	460	460
460	470	470	470
470	480	480	480
480	490	490	490
490	500	500	500
500	510	510	510
510	520	520	520
520	530	530	530
530	540	540	540
540	550	550	550
550	560	560	560
560	570	570	570
570	580	580	580
580	590	590	590
590	600	600	600
600	610	610	610
610	620	620	620
620	630	630	630
630	640	640	640
640	650	650	650
650	660	660	660
660	670	670	670
670	680	680	680
680	690	690	690
690	700	700	700
700	710	710	710
710	720	720	720
720	730	730	730
730	740	740	740
740	750	750	750
750	760	760	760
760	770	770	770
770	780	780	780
780	790	790	790
790	800	800	800
800	810	810	810
810	820	820	820
820	830	830	830
830	840	840	840
840	850	850	850
850	860	860	860
860	870	870	870
870	880	880	880
880	890	890	890
890	900	900	900
900	910	910	910
910	920	920	920
920	930	930	930
930	940	940	940
940	950	950	950