Form 9-330

Form approved.
Budget Bureau No. 42-R355.4.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER 012736
LEASE OR PERMIT TO PROSPECT

RECEIVED
SEP 3 1963
OIL CON. COM.
DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Huerfano Unit Field Basin Dakota State New Mexico
Well No. 138 Sec. 22 T. 26N R. 9W Meridian N.M.P.M. County San Juan
Location 800 ft. {N. / S.} of N Line and 800 ft. {E. / W.} of W Line of Section 22 Elevation 6368 (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 E. S. OBERLY

Date August 27, 1963 Title Petroleum Engineer

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

Commenced drilling 7-13, 19 63 Finished drilling 7-27, 19 63

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6378 to 6497 (G) No. 4, from to
No. 2, from 6497 to 6685 (G) 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 From—	Perforated To—	Purpose
9 5/8"	32.30	8 rd	Lbo	333	HOWCO				Surface
4 1/2"	10.5	8 rd	J-55	6683	Baker				Production
2 3/8"	4.7	8 rd	J-55	6591					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"	337	200	circulated		
4 1/2"	6685	610	2 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 Well History						

TOOLS USED

Rotary tools were used from 0 feet to 6685 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

, 19 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 1,392,000 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 1,924 tbg.; 1918 csg. A.O.F. 1430 MCF/D

EMPLOYEES

, Driller , Driller
, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1163	1163	
1163	1258	95	Ojo Alamo
1258	1767	509	Kirtland
1767	1971	204	Fruitland
1971	2058	87	Pictured Cliffs
2058	3510	1452	Lewis
3510	3589	79	Cliff House
3589	4392	803	Menefee
4392	4609	217	Point Lookout
4609	5449	840	Mancos
5449	6324	875	Gallup
6324	6378	54	Greenhorn
6378	6497	119	Graneros
6497	6685	188	Dakota

(OVER)

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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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 "undetracked" 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 bailing.

On 7-31-63, Set Baker Model "B" retainer @ 6450, pressure to 3000# on perfs @ 6492', bled back to 600# in 20 minutes. Pressure to 2200# on perfs @ 6404, bled back to 400# in 15 minutes. Drilled retainer & clean out to 6650'. Perf 6410-14;6442-46;6498-6502; 6514-18;6606-12 w/2 SPF. Frac w/65,440 gallons water, 70,000# 40/60 sand. Max pr 4000#, BDP 2300#, tr pr 1600# to 2000#. Dropped 3 sets of 8 balls each & 1 of 11. No ball action. ISIP 1000#, 15 min SIP 1000#, well flowed back.

On 8-5-63, ran full bore packer & retainer, displaced water in hole w/treated water & spotted 250 gallons acid. Broke perfs @ 6602-12' w/3000#. Perf 6498-6518;6410-6446, pumped in with no breakdown. Pulled packer out of hole, then fraced w/28,000 gallons water, 25,000# 40/60 sand. Flushed w/5000 gallons water. IR 12 BPM. Max pr 3800#, tr pr 3500# to 3800#. ISIP 1600#, 15 min SIP 1400#.

LOG OF OIL OR GAS WELL

FOR THE WELL CORRECTLY

RECEIVED
OCT 1 1963
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DIST. 3