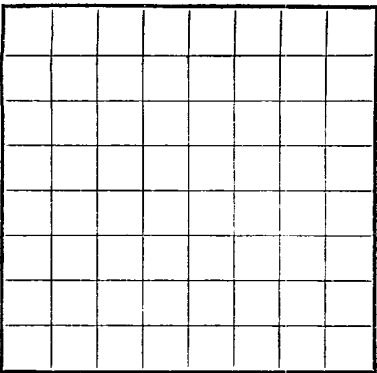


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 080385
LEASE OR PERMIT TO PROSPECT _____



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JAN 29 1963

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Rincon Unit Field Basin Dakota State New Mexico
Well No. 178 Sec. 23 T. 27N R. 7W Meridian N.M.P.M. County Rio Arriba
Location 1450 ft. N of S Line and 1850 ft. E of W Line of Section 23 Elevation 6608
(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. MANALLY

Date January 29, 1963 Title Petroleum Engineer

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

Commenced drilling 9-16-, 1962 Finished drilling 10-6-, 1962

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

No. 1, from 7285 to 7413 (G) No. 4, from _____ to _____
No. 2, from 7413 to 7629 (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		Purpose
							From—	To—	
9 5/8"	38.3	8 rd	H-40	308					Surface
4 1/2"	18.5	8 rd	J-55	7612					Prod casing
2 3/8"	4.7	8 rd	J-55	7470					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"	321	210	circulated		
4 1/2"	7629	560	3 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
Perf 7322-28; 7340-46; 7446-52 (2 SPP); 7474-78; 7488-92 (3 SPP); Frac w/73,600 gallons water, 75,000# sand. Flush w/4600 gallons water. IR 31.8 BPM. Max pr 4000#, EDP 2700#, tr pr 3800-4000#. 4 drops of 12 balls.						

TOOLS USED

Rotary tools were used from 0 feet to 7629 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

1-8-, 1963 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 5,838,000 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 2467 tbg. A.O.F. 7192 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2350	2350	
2350	2470	120	Ojo Alamo
2470	2847	377	Kirtland
2847	3057	210	Fruitland
3057	3145	88	Pictured Cliffs
3145	4764	1619	Lewis
4764	4796	32	Cliff House
4796	5319	523	Menefee
5319	5459	140	Point Lookout
5459	6455	996	Mancos
6455	7227	772	Gallup
7227	7285	58	Greenhorn
7285	7413	128	Graneros
7413	7629	216	Dakota

