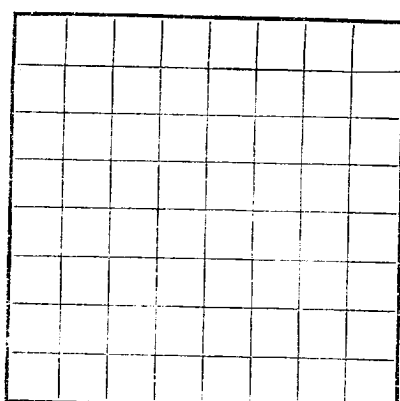
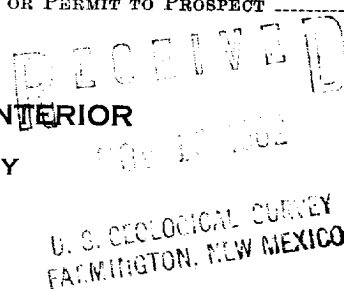




LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEYU. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078200-A**
LEASE OR PERMIT TO PROSPECT

LOG OF OIL OR GAS WELL

Company **El Paso Natural Gas Company** Address **Box 990, Farmington, New Mexico**
Lessor or Tract **Riddle "B"** Field **Astec Pictured Cliffs New Mexico**
Well No. **4** Sec. **23** T. **30N** R. **10W** Meridian **N.M.P.M.** County **San Juan**
Location **810** ft. **XXX** of **N** Line and **1180** ft. **XX** of **N** Line of **Section 23** Elevation **6417**
(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

Date **November 13, 1962**Title **Petroleum Engineer**

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

Commenced drilling **8-10**, 19 **62** Finished drilling **8-28-**, 19 **62**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **3026** to **3103 (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"	13.1	8-14	A-55	115	Hardy	Surface			Surface
2 7/8"	8.4	8-14	A-55	3158	Hardy	Production			Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8"	126	75	circulated		
2 7/8"	3158	150	single		

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 3028-32; 3048-52; 3062-66; (2 SPF); Frac w/27,900 gallons water, 30,000# sand. Flush w/2100 gallons water, Max pr 4000#, BHP 2700#, I.R. 19 BFM. tr pr 3100-4000#. 2 drops of 12 balls.						

TOOLS USED

Rotary tools were used from **0** feet to **3158** feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

10-1-62, 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 **3,211,000** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. **1015 csg.** **A.O.F. 3542**

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1773	1773	Tan to gry cr-grn ss interbedded w/gry sh.
1773	1863	90	Ojo Alamos. White cr-grn s.
1863	2733	870	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
2733	3026	293	Fruitland form. Gry carb sh, scattered coals, coals and gyr, tight, fine-grn ss.
3026	3103	77	Pictured Cliffs forms. Gry, fine-grn, tight, varicolored soft ss.
3103	3158	55	Lewis form. Gry, fine-grn, dense sil ss.

HISTORY OF OIL OR GAS WELL

FROM-	TO-	TOTAL FEET	FORMATION
			1. 0-10' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 2. 10-20' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 3. 20-30' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 4. 30-40' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 5. 40-50' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 6. 50-60' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 7. 60-70' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 8. 70-80' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 9. 80-90' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert. 10. 90-100' Sandstone, yellowish, medium bedded, contains small pebbles of quartz and chert.

FORMATION RECORD—Continued