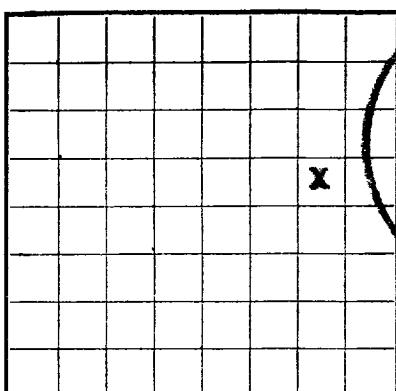
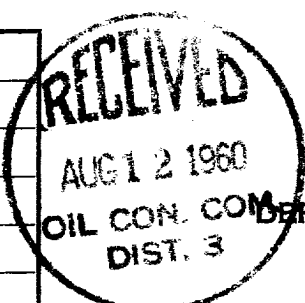




LOCATE WELL CORRECTLY

U. S. LAND OFFICE **SF**SERIAL NUMBER **078899-A**

LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company **El Paso Natural Gas Products Co.** Address **Box 1560, Farmington, New Mexico**Lessor or Tract **Western Pool Unit** Field **Undesig. Dakota** State **New Mexico**Well No. **1-B** Sec. **8** T. **26N** R. **11W** Meridian **NMPM** County **San Juan**Location **2410** ft. **333** of **N** Line and **290** ft. **333** of **E** Line of **Section 8** Elevation **6257'**
(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: J. SEPH E. KREGER**Date **August 9, 1960** Title **Petroleum Engineer**

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

Commenced drilling **June 4**, 19**60** Finished drilling **June 15**, 19**60**

OIL OR GAS SANDS OR ZONES

No. 1, from **6166'** to **6201' 40"** No. 2, from **6201' 40"** to **6201' 40"**No. 3, from **6201' 40"** to **6201' 40"** No. 4, from **6201' 40"** to **6201' 40"**No. 5, from **6201' 40"** to **6201' 40"** No. 6, from **6201' 40"** to **6201' 40"**

IMPORTANT WATER SANDS

No. 1, from _____ to _____ No. 2, from _____ to _____

No. 3, 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"	26	8	1-1/2	200	1-1/2	1-1/2			
5-1/2"	15	8	1-1/2	200	1-1/2	1-1/2			
HISTOKA OF OH OK CV3 MEFF									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	234'	200	Circulated		
5-1/2"	6398'	200	Pump & Plug		

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 **6400'** feet, and from _____ feet to _____ feet

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

DATES

Put to producing _____, 19____

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

If gas well, cu. ft. per 24 hours **6356 MCF** Gravity, °Bé. **0.668**Rock pressure, lbs. per sq. in. **1978 psi** Gallons gasoline per 1,000 cu. ft. of gas _____

EMPLOYEES

_____, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	900	900	Interbedded sandstone and shale.
900	1342	442	Kirtland Form: Gy. sh. inbd. w/tight gy. FG ss.
1342	1590	248	Fruitland Form: Gy. carb. sh., scat. coals, coals & gy. tight FG ss.
1590	1730	140	Pictured Cliffs Form: Gy., FG, tight, varicolored soft ss.
1730	2464	734	Lewis Form. Gy. to white ds. sh. w/silty to shaley ss. breaks.
2464	4019	1555	Mesa Verde Form: Gy., FG, ds. silty ss., carb. shale and coal.
4019	4310	291	Point Lookout Form: Gy., v/fn. silty ss. w/freq. shale breaks.
4310	5161	851	Mancos Form: Gy. carb. shale.
5161	6015	854	Gallup Form: Lt. gy. to brn. calc. carb. micac. glauconitic. Very fn. to med. gr. ss. w/irreg. interbedded shale.
6015	6070	55	Greenhorn Form: Highly calc. gy. sh. w/thin ls.
6070	6170	100	Oraneros Form: Dk. gy. sh., fossil & carb. w/pyrite inclusion.
6170	6370	200	Dakota Form: Lt. to dk. gy. foss. carb. sl/calc. sl/silty ss. w/pyrite inclusion, thin sh. bands clay and shale breaks.
6370	6400	30	_____ Form: _____ & red waxy sh. & _____ to cse. gr. sd.

TOPS ARE FROM ELECTRIC LOGS AND RADIOACTIVITY LOGS.

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
JUL 15 1960
OIL CON. COM. DEPT.
DIST. 3

A graph on a grid showing a curve starting at the origin (0,0) and increasing. The curve is labeled 'Z'.

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company, El Paso Natural Gas Products Co. Address Box 1550, Fort Worth, Texas
 Lessor of Tract Western Pool Unit Field University, Texas State New Mexico
 Well No. 1-5 Sec. 8 T30N R.11W Meridian 41N County San Juan
 Location 3410 ft. S of W Line and 450 ft. W of E Line of Section 8 Elevation 5210
 (Section 8 on the North East Corner)
 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 Charles Sibley
 Date August 3, 1960 Title Petroleum Engineer

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

No. 1 from		No. 2 from		No. 3 from		No. 4 from	
7-3-60							
Sandell fracture with 43,890 gals. of oil and 50,000# sand.							
Breakdown pressure 1400 psi, maximum treating pressure 2000 psi, average treating pressure 2000 psi. Injection							
16.0 psi / mile - injected 3 gals. of 36 balls each.							
150 psi increase for second set. Finished with 6300 gals.							
of oil.							
OIL OR GAS SANDS OR ZONES							

CASING RECORD

[illegible]

HISTORY OF OIL OR GAS WELL

MIDDING AND CEMENTING RECORD

Place casting	Water set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
1-12	65%	200	Hand & Hoe		
1-13	34%	200	Hand & Hoe		

PLUGS AND ADAPTERS

[illegible]

SHOOTING RECORD

Place	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

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

DATE

Rock pressure, lbs. per sq. in.	14.5	14.5
If gas well, cu. ft. per 24 hours	3750 MCF	3750 MCF
Emulsion; % water; and % sediment	0	0
The production for the first 24 hours was	0	0
Put to producing	19	19

EMPLOYEES

Driller			
Driller			

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	900	900	Interbedded sandstone and shale.
900	1342	442	Kirkland Form: GY. sh. lmbd. w/light GY. ss.
1342	1578	236	Kirkland Form: GY. carb. sh., east. & west.
1578	1730	150	Coals & GY. light FOS.
1730	1730	0	Fractured GY. Form: GY. FOS. light, w/interbedded shale.
1730	2464	734	Lewis Form: GY. w/white dr. sh. w/salt & shale ss. breaks.
2464	4019	1555	Lewis Verde Form: GY. FOS. dr. silty ss. & shale and coal.
4019	4310	291	Point Lookout Form: GY. w/light silty ss. w/salt & shale breaks.
4310	5191	881	Marion Form: GY. carb. shale.
5191	5975	784	Gallop Form: Lt. GY. to dr. calc. carb. sh. & shale.
5975	6070	95	glauconitic. Very in. to med. GY. sh. & shale.
6070	6170	100	Greenhorn Form: Highly calc. GY. ss. w/interbedded shale.
6170	6370	200	Greaser Form: dk. GY. ss., fossil & carb. w/kyrie inclination.
6370	6570	200	Dakota Form: Lt. to dk. GY. foss. carb. sh. & shale.
6570	6570	0	clay and shale in place w/kyrie inclination, dr. sh. & ss.

INFORMATION RECORD - Continued