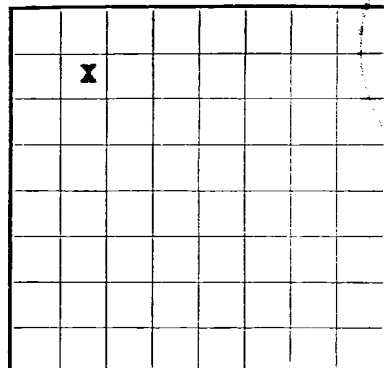


U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **078329**
LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 990, Farmington, New Mexico
Lessor or Tract Daum Field Basin Dakota State New Mexico
Well No. 6 Sec. 32 T. 28N R. 9W Meridian N.M.P.M. County San Juan
Location 1150 ft. S of Line and 40 ft. E of Line of Line Elevation 7000
(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 AND SEALED

Date September 13, 1961 Title Petroleum Engineer

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

Commenced drilling 7-20-----, 1961 Finished drilling 8-18-----, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

(Denote gas by G)

No. 1, from <u>6406</u> to <u>6522 (G)</u>	No. 4, from _____ to _____
No. 2, from <u>6522</u> to <u>6682 (G)</u>	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—	
10 3/4"	32.7	8 rd	H-40	282	H-40				Surface
4 1/2"	11.6	8 rd	J-55	6699	Baker				Intermediate
2 3/8"	4.7	8 rd	J-55	6664	Baker				Prod tubing.

MUDDING AND CEMENTING RECORD

	Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10	3/4"	294	220	circulated		
4	1/2"	6710	690	3 stages		

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
6644-50; 6658-64; Frac	Dakota w/47,000	gal water,	40,000# sand.	Flushed	5800 gal.	IR 25 & 20
6670-76;	BPM.	Max pr 4500#,	BDP # 4300#,	tr pr 4500#.		
6454-62; 5474-82; Frac	Gran. w/52,400	gal water,	55,000# sd.	F1 w/4200 gal.	IR 46 BPM.	Max
6526-32; 6536-42; pr	3800#,	BDP 1400#,	tr pr 3000-2700-2800-3300#			
6546-50;			TOOLS USED			

TOOLS USED

Rotary tools were used from _____ feet to 6710 feet, and from _____ feet to _____ feet

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

DATES

8-23-----, 19-61	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 7,163,000	Gallons gasoline per 1,000 cu. ft. of gas -----
Rock pressure, lbs. per sq. in. 2042	A.O.F. 12.485 MCF/D

EMPLOYEES

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

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0	1121	1121	Tan togry cr-grn ss interbedded w/gry sh.
1121	1228	107	Ojo Alamo ss. White cr-grn s.
1228	1741	513	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
1741	2114	373	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, finegrn ss.
2114	2150	36	Pictured Cliffs forms Gry, fine-grn, tight varicolored soft ss.
2150	3680	1530	Lewis form. Gry, fine-grn, dense sil ss.
3680	3761	81	Cliff House form. Gry, fine-grn dense sil ss.
3761	4380	619	Menefee form. Gry, fine-grn s, carb sh & coal.
4380	4571	191	Point Lookout form. Gry, very fine sil ss w/frequent sh breaks.
4571	5575	1004	Mancos form. Gry carb sh.
5575	6347	772	Gallup
6347	6406	59	Greenhorn form. Highly calc gry sh w/thin lmst.
6406	6522	116	Graneros form. Dk gry shale, fossil & carb w/prite incl.
6522	6682	160	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/prite incl thin sh bands clay & shale breaks.
6682	6710	28	Morrison form. Interbed grg brn and red waxy sh & fr to cr grn sand.

Initial
Deliverability Test

NEW MEXICO OIL CONSERVATION COMMISSION
GAS WELL TEST DATA SHEET — SAN JUAN BASIN

FORM C-122-A
(EL PASO - 2-1-61)

(TO BE USED FOR FRUITLAND, PICTURED CLIFFS, AESAVERDE, CHACRA, FARMINGTON
& ALL DAKOTA EXCEPT BARKER DOME STORAGE AREA & UTE DOME.)

Pool Basin Formation Dakota County San Juan
Well Name Dawn No. 6 73-072
Unit D S 32 T 28 R 9 Pay Zone 6454 To 6476 Flow String Tubing
Casing O D 4-1/2 Wt 11.6 Set at 6710 Tubing O D 2-3/8 Wt 4.7 L 6624 Top Perf.
Operator EL PASO NATURAL GAS COMPANY Purchasing Pipeline EL PASO NATURAL GAS COMPANY

Date Flow Press. Meas. _____ Period of test flow _____ SIP Measured _____
From 12-7-61 To 12-15-61 9-1-61

Deadweight Flowing Pressure, psia _____ Flowing Pressure psia _____
Casing _____ (a) Tubing _____ (b) Meter _____ (c) Chart _____ (d)

Deadweight Shut-in Pressures, psia _____ Meter Error _____ Friction Loss _____
Casing 2042 (j) Tubing 1517 (k) _____ (e) _____ (f)

7 Day Avg. Flowing Pres., psia _____
Chart 483 (g) Corrected 483 (h) P_f 483 (i) Gravity .685

G. L. = 4537 $1-e^{-s} =$.281 $(F_c Q)^2 =$ 488.189

$(1-e^{-s})(F_c Q)^2 = R^2 =$ 1371.81 $P_i^2 =$ 233289 $P_w^2 =$ 370470

$Q =$ 2350 (integrated) $\times \left[\sqrt{\frac{(c)}{(d)}} \right] =$ 2350

$D = Q$ 2350 $\times \left(\left[\frac{(P_c^2 - P_d^2)}{(P_c^2 - P_w^2)} \right]^N \right) =$.8849 .9124 $=$ 2144

SUMMARY

$P_c =$ 1557 psia
 $Q =$ 2350 MCF/D
 $P_w =$ 609 psia
 $P_d =$ 779 psia
 $D =$ 2144 MCF/D

Company

by

title

Witnessed By

Company

EL PASO NATURAL GAS COMPANY

H. L. Kendrick
Sr. Gas Engineer



NUMBER OF COPIES RECEIVED DISTRIBUTION SANTA FE FILE U.S.G.S LAND OFFICE TRANSPORTER OIL GAS PRODUCTION OFFICE OPERATOR		NEW MEXICO OIL CONSERVATION COMMISSION SANTA FE, NEW MEXICO CERTIFICATE OF COMPLIANCE AND AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS		FORM C-110 (Rev. 7-60)
FILE THE ORIGINAL AND 4 COPIES WITH THE APPROPRIATE OFFICE				
Company or Operator El Paso Natural Gas Company			Lease Daum	Well No. 6
Unit Letter D	Section 32	Township 28-N	Range 9-W	County San Juan
Pool Basin Dakota			Kind of Lease (State, Fed, Fee) Federal	
If well produces oil or condensate give location of tanks		Unit Letter Same	Section	Township
Authorized transporter of oil ☐ or condensate ☒		Address (give address to which approved copy of this form is to be sent)		
El Paso Natural Gas Company		Box 990, Farmington, New Mexico		
Is Gas Actually Connected? Yes ☒ No ☐				
Authorized transporter of casing head gas ☐ or dry gas ☒		Date Connected 11-22-61	Address (give address to which approved copy of this form is to be sent)	
El Paso Natural Gas Company			Box 990, Farmington, New Mexico	
If gas is not being sold, give reasons and also explain its present disposition:				
REASON(S) FOR FILING (please check proper box)				
New Well ☐		Change in Ownership ☐		
Change in Transporter (check one)		Other (explain below)		
Oil ☐ Dry Gas ☐				
Casing head gas ☐ Condensate ☒				
Remarks				
The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.				
Executed this the <u>1st</u> day of <u>January</u> , 19 <u>63</u> .				
OIL CONSERVATION COMMISSION		By 		
Approved by		Title Petroleum Engineer		
Original Signed Emerly C. Arnold		Company El Paso Natural Gas Company		
Title Supervisor Dist. # 3		Address Box 990, Farmington, New Mexico		
Date JAN 24 1963				