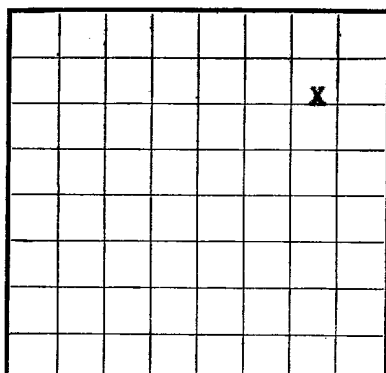


Form 9-320



LOCATE WELL CORRECTLY

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 078483-A
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
RECEIVED
OCT 10 1957
U. S. GEOLOGICAL SURVEY
BALTIMORE, NEW MEXICO

LOG OF OIL OR GAS WELL

Company El Paso Natural Gas Company Address Box 997, Farmington, New Mexico
Lessor or Tract Allison Unit Field N. Los Pinos Dak. State New Mexico
Well No. 11-X(ND) Sec. 23 T. 32N R. 7W Meridian N.M.P.M. County San Juan
Location 917 ft. S. of N. Line and 1086 ft. W. of E. Line of Section 23 Elevation 6819
(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 D. C. Johnston

Date October 10, 1957 Title Petroleum Engineer

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

Commenced drilling 6-4, 1957 Finished drilling 8-4, 1957

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3560 to 3842 (G) No. 4, from 6000 to 6078 (G)
No. 2, from 5746 to 5785 (G) No. 5, from 8272 to 8503 (G)
No. 3, from 5785 to 6000 (G) No. 6, from

No. 1, from 3560 to 3842 (G) No. 4, from 6000 to 6078 (G)
No. 2, from 5746 to 5785 (G) No. 5, from 8272 to 8503 (G)
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No. 2, from 5746 to 5785 (G) No. 5, from 8272 to 8503 (G)
No. 3, from 5785 to 6000 (G) No. 6, from

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From	To	Purpose
13 3/8"	48	8	J-55	225	Circulated				Surface
9 5/8"	36	8	J-55	1000	Two Stages				Intermediate
7 3/8"	26.4	8	J-55	400	Single Stage				Intermediate
5 1/2"	15.5	8	J-55	500	Circulated				Prod. Liner
5 1/2"	15.5	8	J-55	500	Circulated				Prod. Tubing
2"	4.7	8	J-55	500	Circulated				Prod. Tubing

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8"	237	225	Circulated		
9 5/8"	368	1000	Two Stages		
7 3/8"	563	400	Single Stage		
5 1/2"	8475	500	Circulated		

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set
Adapters—Material Size Baker Model "D" Packer @ 7941'

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from 240 feet to 3870 feet, and from 3870 feet to 8503 feet
Cable tools were used from 0 feet to 240 feet, and from

DATES

8-21, 1957 Put to producing 8-4, 1957

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 M.V. 4,661,000 Gallons gasoline per 1,000 cu. ft. of gas Dak. 4,678,000

Rock pressure, lbs. per sq. in. 2888 A. O. F. = MV 5074 MCF/D
Dak. 5003

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Undev.			Ojo Alamo ss. White cr-grn s.
Undev.	3225	3225	Kirtland form. Gry sh interbedded w/tight gry fine-grn ss.
3225	3560	335	Fruitland form. Gry carb sh, scattered coals, coals and gry, tight, fine-grn ss.
3560	3842	282	Pictured Cliffs form. Gry, fine-grn, tight, varicolored soft ss.
3842	5746	1904	Lewis formation. Gry to white dense sh w/silty to shaly ss breaks.
5746	5785	39	Cliff House ss. Gry, fine-grn, dense sil ss.
5785	6000	215	Menefee form. Gry, fine-grn s, carb sh & coal.
6000	6078	78	Point Lockout form. Gry, very fine sil ss w/frequent sh breaks.
6078	8105	2027	Mancos formation. Gry carb sh.
8105	8158	53	Greenhorn form. Highly calc gry sh w/thin lmst.
8158	8272	114	Graneros form. Dk gry shale, fossil & carb w/prite incl.
8272	8503	231	Dakota form. Lt to dk gry foss carb sl calc sl silty ss w/pyrite incl thin sh bands clay & sh shale breaks.

(OVER)

FORMATION RECORD—Continued

GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

[illegible]

Commenced drilling _____ 1957 _____ Finished drilling _____ 1957 _____
The summary on this page is for the condition of the well at above date.
Date (October 10, 1957) _____ Title _____ Petroleum Engineering _____

Deborah C. Poff

2-57 Port. Dr. & Df/E. 8891-8316, 8338-8358
54,000# sand. HD pr. 3000#, tr. pr. 3000#, max. tr. 1500#
Gr. water. Avg. tr 30 Hm.
No. 4 from
5-57 Port. B. T. 2 Df/E. 6010-401 6048-68
sand. HD pr. 1950#, max. tr. pr. 3000#, tr. pr. 1500,
1900, 2000, 1700. Plashed A/15,000 gr. water. Dropped 47 times
for 7 seconds

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 attached or left in the well, give the size and location. If the well has been dynamited, give date, size, position, and method of dynamiting. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or pulling.

16-43084-2 U. S. GOVERNMENT PRINTING OFFICE

MIDDLING AND CEMENTING RECORD

Coating	Whet set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7 1/2"	521	550	circulation		
7 1/2"	308	1000	two stages		
7 1/2"	503	400	single stage		
7 1/2"	47	200	circulation		

PLUGS AND ADAPTERS

Material	Length	Depth see
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SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from	240	test to	340	feet, and from	340	of test	350	to test	350
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2ETAC

Put to producing	19
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The production for the first 24 hours was _____ barrels of kind of which _____ was oil; _____

transmission; and	% water; and	% sediment	Gravity, ° Bé.
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[illegible]

EMPLOYEES

Driller			
Driller			

INFORMATION RECORD

FORMATION	TOTAL FEET	TO-	FROM-
White incl.	331	3000	2975
Greenhorn form. DK grey shale, fossiliferous	114	2885	2870
Greenhorn form. Highly calc grey sh w/ thin l.	53	2832	2810
Mancos formation. Grey carb sh.	2057	2627	2608
w/ frequent an breaks.			
Point Lookout form. Grey, very fine sil ss	70	2600	2530
Benches form. Grey, fine-gra s, carb sh & ss	212	2530	2510
Cliff House ss. Grey, fine-gra, benches sil ss	39	2512	2476
to nearly ss breaks.			
Lewis formation. Grey to white benches sh w/ sil	1504	2476	2326
varicolored soft ss.			
fractured Cliffs form. Grey, fine-gra, light,	385	2326	2280
coals and grey, light, fine-gra ss.			
Wristland form. Grey carb sh, scattered coal	339	2280	2242
grey fine-gra ss.			
Kirkland form. Grey sh interbedded w/ light	3225	2242	2210
Grey fine-gra ss.			
Cliff House ss. White cr-gra s.			2180

FORMATION

THE APPLICATION OF EL PASO NATURAL GAS COMPANY FOR PERMISSION TO EFFECT DUAL COMPLETION OF ITS ALLISON UNIT WELL NO. 11-X (MD), LOCATED 917 FEET FROM THE NORTH LINE AND 1086 FEET FROM THE EAST LINE OF SECTION 23, TOWNSHIP 32 NORTH, RANGE 7 WEST, NMPM, SAN JUAN COUNTY, NEW MEXICO, IN SUCH A MANNER AS TO PRODUCE GAS FROM THE BLANCO MESAVERDE POOL AND GAS FROM THE DAKOTA FORMATION NEAR THE NORTH LOS PINOS DAKOTA POOL.

ORDER NO. DC-471



ADMINISTRATIVE ORDER
OF THE OIL CONSERVATION COMMISSION

Under the provisions of Rule 112-A (c) El Paso Natural Gas Company made application to the New Mexico Oil Conservation Commission on October 10, 1957, for permission to dually complete its Allison Unit Well No. 11-X (MD), located 917 feet from the North line and 1086 feet from the East line of Section 23, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico, in such a manner as to produce gas from the Blanco Mesaverde Pool and gas from the Dakota formation near the North Los Pinos Dakota Pool.

Now, on this 10th day of October, 1957, the Secretary-Director finds:

- (1) That application has been duly filed under the provisions of Sub-section 'c' of Rule 112-A of the Commission's Rules and Regulations;
- (2) That satisfactory information has been provided that all operators of offset acreage have been duly notified and that said offset operators have consented in writing to the proposed dual completion.
- (3) That the proposed dual completion will not cause waste nor impair correlative rights.
- (4) That the mechanics of the proposed dual completion are feasible and consonant with good conservation practices.

IT IS THEREFORE ORDERED:

That the applicant herein, El Paso Natural Gas Company, be and the same is hereby authorized to dually complete its Allison Unit Well No. 11-X (MD), located 917 feet from the North line and 1086 feet from the East line of Section 23, Township 32 North, Range 7 West, NMPM, San Juan County, New Mexico in such a manner as to produce gas from the Blanco Mesaverde Pool and gas from the Dakota formation near the North Los Pinos Dakota Pool through the casing-tubing annulus and the tubing respectively.

PROVIDED HOWEVER, That subject well shall be completed and thereafter produced in such a manner that there will be no commingling within the well-bore, either within or outside the casing, of gas, oil and gas, or oil produced from either or both of the separate strata,

PROVIDED HOWEVER, That prior to the actual dual completion the operator shall make pressure tests of the casing to prove that no casing leaks exist. In the event a casing leak is apparent the operator shall take appropriate steps to adequately repair the leak. The results of these tests shall be reported to the Commission on Form C-103.

PROVIDED FURTHER, That upon the actual dual completion of such subject well applicant shall submit to the appropriate District Office of the Commission copies of Oil Conservation Commission Form C-103, Form C-104, Form C-110, and Form C-122, outlining the information required on those forms by existing Rules and Regulations, and two copies of the electric log of the well.

PROVIDED FURTHER, That said subject well for dual completion and

production shall be equipped in such a way that reservoir pressures may be determined separately for each of the two specified strata, and further, be equipped with all necessary connections required to permit recording meters to be installed and used at any time as may be required by the Commission or its representatives, in order that natural gas, oil, or oil and gas from each separate stratum may be accurately measured and the gas-oil or gas-liquid ratio thereof determined, and

PROVIDED FURTHER, That the operator shall make any and all tests, including segregation and packer-leakage tests upon completion and annually thereafter during the Deliverability Test Period for the Blanco Mesaverde Pool, commencing in the year 1958, and whenever the packer is disturbed, but not excluding any other tests and/or determinations as deemed necessary by the Commission; the original and all subsequent tests shall be witnessed by representatives of offset operators if any there be at their election, and the results of each test, properly attested to by the applicant herein and all witnesses, shall be filed with the Commission within fifteen (15) days after the completion of such tests, and further, that applicant shall file with the Commission in duplicate a packer-setting affidavit, which affidavit shall be due within fifteen (15) days of the dual completion or whenever the packer is disturbed, and

PROVIDED FURTHER, That upon the actual dual completion of such subject well, applicant shall submit to the Commission a diagrammatic sketch of the mechanical installation which was actually used to complete and produce the seal between the strata, and a special report of production, gas-oil ratio or gas-liquid ratio, and reservoir pressure determination for each producing zone or stratum immediately following completion.

IT IS FURTHER ORDERED, That jurisdiction of this cause is hereby retained by the Commission for such further order or orders as may seem necessary or convenient for the prevention of waste and/or protection of correlative rights; upon failure of applicant to comply with any requirement of this order after proper notice and hearing the Commission may terminate the authority hereby granted and require applicant or its successors and assigns to limit its activities to regular single-zone production in the interests of conservation.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION COMMISSION

A. L. PORTER, Jr.
Secretary-Director

SEAL

