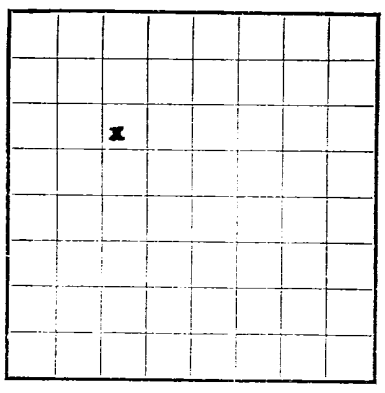
Form 9-330

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-65.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 079177
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Frank A. Schultz Address P. O. Box 728 - Farmington, N.M.

Lessor or Tract Canyon Largo Unit Field Canyon Largo P.C. State New Mexico

Well No. 2-9 Sec. 9 T. 25-N R. 6-W Meridian N.M.P.M. County Rio Arriba

Location 1,650 ft. [N.] of N Line and 1,550 ft. [E.] of W Line of Sec. 9 Elevation 6,271
(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 C. Beeson Neal

Date May 9, 1957 Title C. Beeson Neal, Agent in Farmington

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

Commenced drilling April 4, 1957, 19 Finished drilling April 18, 1957, 19

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 2317 to 2407 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 From—	Perforated To—	Purpose
8-5/8"	24#	8rd. thd.	J-55	126'	None				Surface
5-1/2"	15.5#	"	J-55	61'	Halliburton				
5-1/2"	14#	"	J-55	2,034'			2330	2352	Long String
1-1/4"	Tubing	"	EUE	2,355'	None (Landed at 2365')				Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	136'	90	Halliburton	Mostly water	
5-1/2"	2404'	100	Halliburton	Mostly water	

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

April 18, 1957. Sand fracced with 17,700 gallons water and 30,000# sand. Flushed with 2,300 gallons water. Breakdown 2000#. Treating 1100-1650#. Injection 39.2 BPM. Perforations treated with 200 gallons MCA.

TOOLS USED

Rotary tools were used from 136 feet to 2,407 feet, and from ..... feet to ..... feet

Cable tools were used from 0 feet to 136 feet, and from ..... feet to ..... feet

DATES

Potential test taken May 1, 1957, 19 Put to producing Shut in for potential test for completion. April 19, 1957, 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 1,792 MCF/Day Gallons gasoline per 1,000 cu. ft. of gas .....

Rock pressure, lbs. per sq. in. 871

EMPLOYEES

Benson-Montin-Greer Drilling Corp. Driller Well is shut in to await pipe line connection., Driller

....., Driller ....., Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	2215	2215	Surface sand and shale, Ojo Alamo, Kirtland and Fruitland Formations
2215	2225	10	Coal
2225	2266	41	Shale
2266	2272	6	Coal
2272	2278	6	Shale
2278	2288	10	Coal
2288	2313	25	Shale
2313	2317	4	Coal

[OVER]

16—43094-3

FOLD | MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

[OVER] 16—43094-4

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

HISTORY OF OIL OR GAS WELL

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 "sidetracked" or left in the well, give its size and location. If the well has been dynamited, give date, size, position, and number of shots. If plugs or bridges were put in to test for water, state kind of material used, position, and results of pumping or bailing.

FORM 23-75 6-56

EL PASO NATURAL GAS COMPANY

OPEN FLOW TEST DATA

DATE May 1, 1957

Operator: Frank A. Schultz Jr.		Lease: Canyon Largo # 2-9	
Location: 1650'N, 1550'W, Sec. 9-25-6		County: Rio Arriba	State: New Mexico
Formation: Pictured Cliffs		Pool: Wildcat	
Casing: Diameter: 5½	Set At: Feet: 2404	Tubing: Diameter: 1¼	Set At: Feet: 2365
Pay Zone: From: 2317	To: 2371	Total Depth: 2407 - P.B. - 2371	
Stimulation Method: Sand Water Frac		Flow Through Casing: X	Flow Through Tubing:

Choke Size, Inches: 0.75	Choke Constant: C: 14.1605				
Shut-In Pressure, Casing, PSIG: 871	+ 12 = PSIA: 883	Days Shut-In: 12	Shut-In Pressure, Tubing PSIG: 871	+ 12 = PSIA: 883	
Flowing Pressure: P PSIG: 116	+ 12 = PSIA: 128		Working Pressure: P_w PSIG: 121	+ 12 = PSIA: 133	
Temperature: T °F: 62	n: .85		Fpv (From Tables): 1.011	Gravity: .650	

CHOKE VOLUME = Q = $C \times P_t \times F_t \times F_g \times F_{pv}$

Q = 14.1605 x 128 x .9981 x .9608 x 1.011 = 1757 MCF/D

OPEN FLOW Aof = Q $\left(\frac{P_c^2}{P_c^2 - P_w^2} \right)^n$

Aof = $\left(\frac{779,689}{762,000} \right)^n$ = $1.0232^{.85}$ = 1.01968 x 1757 = 1792

Aof = 1792 MCF/D

RECEIVED
MAY 6 1957
OIL CON. COM.
DIST. 3

TESTED BY R. A. Ullrich

WITNESSED BY Virgil Stoabs (J. Glenn Turner)

cc: Virgil Stoabs (4)

L. D. Galloway

L. D. Galloway

OIL CONSERVATION COMMISSION

AZTEC DISTRICT OFFICE

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