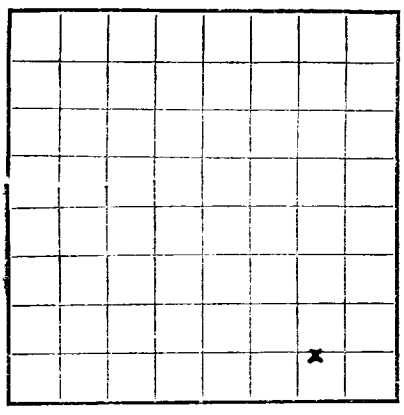
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE New Mexico
SERIAL NUMBER NM 017697
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
NOV 1 1962

LOG OF OIL OR GAS WELL

Company Lewis and Malatico Address 806 Connecticut Ave., N. W. Washington 6, D. C.

Lessor or Tract Western Development-Govt. Field Wildcat State New Mexico

Well No. 1 Sec. 5 T. 24 N R. 1 E Meridian N.M.P.M. County Rio Arriba

Location 660 ft. {N.} of S. Line and 990 ft. {W.} of E. Line of Section 5 Elevation 6983'
(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 Bob Keegan

Date October 25, 1962 Title Agent

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

Commenced drilling June 20, 1961 Finished drilling December 2, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3138 to 3183 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 443 to 1580 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
13 3/8	36	8 round	J-55	247	Ten. Spec.				Surface
10 3/4	32	8 round	J-55	1068	" "	1068			casing
8 5/8	32	8 round	J-55	1524	" "	1524			water shutoff
7	20 & 23	8 round	J-55	3055	" "	3055			production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
13 3/8	247	33	Cable tools		
7	3055	144	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

TOOLS USED

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

Cable tools were used from 0 feet to 3850 feet, and from feet to feet

DATES

Plugged and abandoned October 24, 1962 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 Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in.

EMPLOYEES

Western Drilling Company, Driller , Driller

Lubbock, Texas, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	443	443	Lewis shale
443	1672	1229	Mesaverde sand and shale
1672	2772	1100	Mancos shale
2772	2874	102	Gallup shale and sand
2874	3138	264	Gallup sand and shale
3138	3742	604	Lower Mancos shale (Sanostee top at 3466')
3742	3834	92	Greenhorn
3834	3950 T. D.	16	Graneros

FOLD MARK

(OVER)

16—48094-4

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

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.

1. Well Record: T. D. 3850' Plugged back depth 3135'
13 3/8" csg. cemented at 247' with 33 sacks.
7", 20 & 23# J-55 csg. cemented at 3055' with 120 sacks of 50/50 Diamix followed with 24 sacks neat. Squeezed shot holes at 1710' with 100/50/100 and 25 sacks respectively in four jobs. Tested holes at 1710' to 3500 psig.-O. K.

2. Frac Details: (12-2-61) Cleaned out below shoe of 7" to 3185'. Shot two "Crack Jet" shot s per foot in open hole, interval 3138-3183'. Treated open hole through 7" with 37,044 gals. of crude oil (no sand); breakdown pressure 800 psi; max. W.P. 1400 psi; final SIP 800 psi; average injection rate 50.8 bbl./min. (12-3 thru 12-10-61) Swabbing frac oil.

3. Tested 1½ barrels of oil or less a day on several tests.

4. Pumped 50 sack cement plug through tubing from total depth into lower part of 7" casing set at 3055'. Pulled part of tubing and accidentally dropped 2850' of tubing on to lower cement plug. Left tubing in hole and filled casing with mud. Set 10 sack cement plug in top of casing to surface. Set required ~~XXXXXX~~ well location marker and leveled location.