

U. S. LAND OFFICE **Santa Fe**
SERIAL NUMBER **NM 015014**
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

LOCATE WELL CORRECTLY

Company KERN COUNTY LAND COMPANY		Address 226 Petroleum Center Bldg. Farmington, New Mexico	
Lessor or Tract McKenzie-Federal		Field Otero-Gallup	State New Mexico
Well No. 23	Sec. 25	T. 25N	R. 6W Meridian NBPM County Rio Arriba
Location 1650 ft. [N.] of S Line and 1650 ft. [E.] of W Line of Sec. 25		Elevation 6650' KB	

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.

Date **8-9-60** Title **District Engineer**

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

Commenced drilling 6-27, 1960 Finished drilling 7-16, 1960

• OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1900¹ to 1905¹ 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. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
7-5/8"	308'	150 sacks		8.6#/gal.	14.7 barrels
4-1/2"	5908'	150 sacks		9.9#/gal.	97 barrels

PLUGS AND ADAPTERS

Heaving plug—Material Length Depth set

Adapters—Material _____ Size _____

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from 0 feet to 4151 feet, and from _____ feet to _____ feet.

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

DATES

8-9, 1960 Put to producing 8-8, 1960

The production for the first 24 hours was 56 barrels of fluid of which 100% was oil; 0% emulsion; 0% water; and 0% sediment. Gravity, °Bé. 105

If gas well, cu. ft. per 24 hours Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. -----

EMPLOYEES

_____, Driller

W. D. Hall, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
-0-	2200	2200	Sand w/shale
2200	4100	1900	Shale w/occasional sand
4100	4380	280	Sand w/shale
4380	4900	520	Sand and shale
4900	5900	1000	Shale
5900	6025	125	Shale w/occasional stringers of sand
Core #1 3385'-3435', Rec. 50' Sandstone, shaley, slight gas show			
<u>FORMATION TOPS:</u>			
Pictured Cliffs		2550'	
Chacra		3384'	
Cliff House		4104'	
Gallup		5905'	

FROM-	TO-	TOTAL FEET	FORMATION
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-01-

TOTAL FEET

FORMATION

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.

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

I.D. 6025', 7-5/8" @ 308' KB, RIG 4-1/2" @ 308' KB. Casing at 308' KB. Tested BOX w/800 psi for 30 minutes, O.K. Drilled 6-3/4" hole to 3089' using mud. Gored 3385'-3435'. Run IRS log. Cemented 4-1/2" casing at 308'. Run temperature survey and found cement top at 4300'. Changed over to gas drilling and drilled to 6025' I.B. Run Gamma Ray log. Open hole fractured well with 39,906 gals crude and 35,000 gal 2D-40 sand. Broke down formation w/2250 psi. Treating pressures 2350-2850 psi. Max. pressure 2850 psi. Injection rate 27.4 bbl. Backflowed well 2 hours. Cleaned out to 6025'. Reentered 207 barrels of oil from backflowing and clean out operations. Run and hung 2" tubing at 3862' KB. Released rig at 8:00 A.M. 7-16-60. Shipped well on 7-20-60. Flowing from 411.