Form 9-330

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

U. S. LAND OFFICE SF
SERIAL NUMBER 084536
LEASE OR PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
MAY 19 1958
U. S. GEOLOGICAL SURVEY
ROSWELL, NEW MEXICO

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Hugh Cauthen Address 4201 Alabama, El Paso, Texas
Lessor or Tract Hall Field Undesignated State New Mexico
Well No. 4 Sec. 21 T. 25N R. 3W Meridian NMPM County Rio Arriba
Location 990 ft. {N./S.} of S Line and 990 ft. {E./W.} of W Line of Sec. 21 Elevation 7360 (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 Jay J. Harris
Title Jay Harris Geologist

Date 5-15-58

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

Commenced drilling 10-28, 1957 Finished drilling 11-28 11-6, 1957

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 3772 to 3816 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	36	8	J-55	130	Baker				
5 1/2	14	8	J-55	3865	Baker				

MATERIAL OR DIS. ON HAND

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	130	150	Halliburton		
5 1/2	3865	25	Halliburton		

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 3865 feet, and from ____ feet to ____ feet

DATES

____, 19____ Put to producing 5-5, 1958

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 2072 MCF Gallons gasoline per 1,000 cu. ft. of gas ____
Rock pressure, lbs. per sq. in. 1022

EMPLOYEES

____, Driller ____, Driller
Empire States, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3772	3816	44	Pictured Cliffs

(OVER)

16—43094-4

FOLD

MARK

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

HISTORY OF OIL OR GAS WELL

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

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.

5½" casing set at 3865 thru the Pictured Cliffs formation. Csg was perforated from 3776 to 3784 & from 3796 to 3816 w 4 shots per ft. Well was fractured with 1000 bbls of water and 40,000 # of sd. 2" tubing set at 3790' & well was swabbed in. Well tested 2070 MCF thru ¾" choke after 3 hours. Shut in waiting on pipeline.