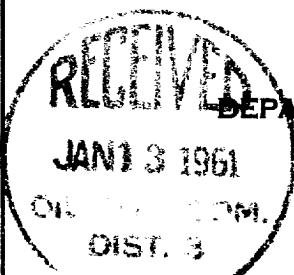
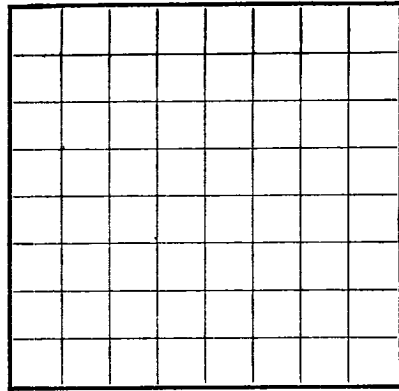


4-USGS 1-Christmann-Markham 1-File  
 1-Devonian 1-StandoffTex-Monahans  
 2-StandoffTex 1-Redfern & Herd  
 1-TexasEastern

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

Form 9-530

U. S. LAND OFFICE Santa Fe  
 SERIAL NUMBER NM 029147  
 LEASE OR PERMIT TO PROSPECT



UNITED STATES  
 DEPARTMENT OF THE INTERIOR  
 GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Redfern & Herd, Inc. Address Box 1747, Midland, Texas  
 Lessor or Tract Standard Field Basin State New Mexico  
 Well No. 1 Sec. 4 T. 29N R. 12W Meridian NMPM County San Juan  
 Location 1850 ft. N. of S Line and 1500 ft. W. of E Line of Sec. 4 Elevation 5794  
(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 J. L. Dugan  
 Title Consulting Engineer

Date 1-11-61

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

Commenced drilling 11-2, 1960 Finished drilling 11-30, 1960

OIL OR GAS SANDS OR ZONES  
 (Denote gas by G)

No. 1, from 6356 to 6510 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		Purpose
							From-	To-	
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>8-5/8</u>	<u>236.5</u>	<u>175</u>	<u>Pump-plug</u>		
<u>4 1/2</u>	<u>6600</u>	<u>300</u>	<u>" "</u>		

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
<u>75,000#</u>	<u>sd</u>	<u>85,950 gal water</u>	<u>Perf 6356-6374, 6436-67, 6479-87, 6502-10</u>			

TOOLS USED

Rotary tools were used from 65 feet to 6600 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet  
 Cable tools were used from surface feet to 65 feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet

DATES

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 2,680,000 Gallons gasoline per 1,000 cu. ft. of gas \_\_\_\_\_  
 Rock pressure, lbs. per sq. in. SI csg 2041

EMPLOYEES

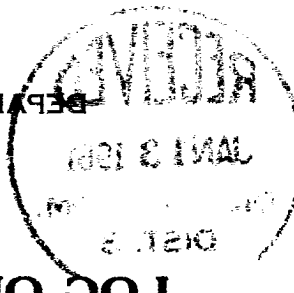
Century Drig. Co Driller xxxx Contractor Jack Thornton Geol xxxx  
Gene Knowlton Driller xxxx 1001 pusher T. A. Dugan Engineer xxxx

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
			Farmington 588'
			Pictured Cliff 1826'
			Lewis Shale 1933'
			Cliff House 3412'
			Point Lookout 4220'
			Mancos Shale 4456'
			Gallup 5504'
			Sanastee 5880'
			Greenhorn 6254'
			Graneros Shale 6305'
			Graneros Sand 6356'
			Dakota Sand 6436'

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

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY



Grid for well location: LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company: Federal Land, Inc.  
Address: Box 1747, Midland, Texas  
State: New Mexico  
Field: Santa Fe  
County: San Juan  
Well No. 1  
Location: 1820 ft. N. of line and 1500 ft. W. of line of Sec. 4, T. 21 N. R. 12 W. Meridian  
Elevation: 5750

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: \_\_\_\_\_  
Title: Consulting Engineer

Date: 1-11-11  
The summary on this page is for the condition of the well at above date.  
Commenced drilling: 11-2, 1910  
Finished drilling: 11-30, 1910

OIL OR GAS SANDS OR ZONES

No. 1, from 6352 to 6310 (Dens. gas by G)  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_  
No. 3, from \_\_\_\_\_ to \_\_\_\_\_

IMPORTANT WATER SANDS

No. 1, from \_\_\_\_\_ to \_\_\_\_\_  
No. 2, from \_\_\_\_\_ to \_\_\_\_\_

CASING RECORD

Table with columns: Casing, Weight per foot, Threads per inch, Make, Amount, Kind of shoe, Cut and pulled from, Perforated, Purpose.

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 the results. If there were any changes made in the casing, state fully, and if any casing was "struck", or left in the well, give its size and location. If the well has been abandoned, give date, size, position, and number of pipes. If pipes or plugs were put in to test for water, state kind of material used, position, and results of pumping or pulling.

MUDDING AND CEMENTING RECORD

Table with columns: Size casing, Weight set, Number sacks of cement, Method used, Mud gravity, Amount of mud used.

PLUGS AND ADAPTERS

Table with columns: Heavy plug - Material, Adapter - Material, Length, Size, Depth set.

SHOOTING RECORD

Table with columns: 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 \_\_\_\_\_ feet to \_\_\_\_\_ feet, and from \_\_\_\_\_ feet to \_\_\_\_\_ feet.

DATES

Put to producing: 1-3, 1911  
The production for the first 24 hours was \_\_\_\_\_ barrels of fluid of which \_\_\_\_\_ % was oil; \_\_\_\_\_ % emulsion; \_\_\_\_\_ % water; and \_\_\_\_\_ % sediment.  
If gas well, cu. ft. per 24 hours \_\_\_\_\_; \_\_\_\_\_ gallons gasoline per 1,000 cu. ft. of gas.  
Rock pressure, lbs. per sq. in. \_\_\_\_\_

EMPLOYEES

Century Drilling Co. Driller: \_\_\_\_\_  
T. J. Jagers Driller: \_\_\_\_\_  
T. J. Jagers Driller: \_\_\_\_\_

FORMATION RECORD

Table with columns: FROM, TO, TOTAL FEET, FORMATION. Lists geological layers like Dakota Sand, Gravel, Sandstone, etc.

FORMATION RECORD - Continued

GRAM | LOG