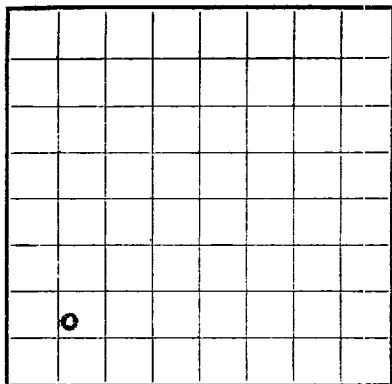
Santa Fe
U. S. LAND OFFICE
Serial Number **MM-014378**
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **TEXACO Inc.** Address **Box 810, Farmington, N. M.**
Lessor or Tract **H. J. Los Federal "B"** Field **Undesignated** State **New Mexico**
Well No. **3** Sec. **23** T. **29-N** R. **12-W** Meridian **NMPM** County **San Juan**
Location **390** ft. **N** of **S** Line and **790** ft. **E** of **W** Line of **Section 23** Elevation **5506'**
(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.

Date **December 9, 1960** Signed *[Signature]* Title **Dist. Sup't.**

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

Commenced drilling **September 16**, 19**60** Finished drilling **October 10**, 19**60**

OIL OR GAS SANDS OR ZONES
No. 1, from **5970'** to **6068' (10')** No. 2, from **6068' (10')** to **6100'**
No. 3, from **6100'** to **6150'** No. 4, from **6150'** to **6220'**
No. 5, from **6220'** to **6220'**
IMPORTANT WATER SANDS
No. 1, from **5970'** to **6068' (10')** No. 2, from **6068' (10')** to **6100'**
No. 3, from **6100'** to **6150'** No. 4, from **6150'** to **6220'**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From—	To—	
9-5/8	32.30	82	32.30	230	Ball	5970'	5970'	6068'	Running
4-1/2	13.50	44	32.30	6220	Ball	6068'	6068'	6220'	Running
HISTORY OF OH OF Casing									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	211'	150	Halliburton		
4-1/2	6219'	525	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material **None** Length **—** Depth set **—**
Adapters—Material **None** Size **—**

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
None						

TOOLS USED

Rotary tools were used from **0** feet to **6220** feet, and from **—** feet to **—** feet
Cable tools were used from **None** feet to **—** feet, and from **—** feet to **—** feet

DATES

Tested **November 2**, 19**60**
Producing **November 2**, 19**60**

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 **12,445** Gallons gasoline per 1,000 cu. ft. of gas **2.71 (Est.)**

Rock pressure, lbs. per sq. in. **2124**

EMPLOYEES

R. L. Page, Driller **E. F. Renfro**, Driller
Jack Reynolds, Driller

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
0	213	213	Sand & Surface Rock
213	370	157	Sand & Shale
370	708	338	Sand
708	3067	2359	Sand & Shale
3067	3098	31	Shale & Coal
3098	4927	1829	Shale & Sand
4927	5032	105	Shale
5032	5140	108	Shale & Sand
5140	5522	382	Shale
5522	5957	435	Shale & Sand
5957	5990	33	Shale
5990	6097	107	Sand
6097	6220	123	Sand & Shale
Total Depth 6220'			

STANDARD FORM NO. 64
MAY 1962 EDITION
GSA GEN. REG. NO. 27

CLASS OF PERMIT TO PROCEED
SERIAL NUMBER
ISLAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OF GAS WELL

LOCATE WELL CORRECT Y

[illegible]

Location of _____ ft. N. of _____ ft. W. of _____
of _____ Line and _____ of _____ Line of _____
County _____ State _____
Address _____
Company _____

The information given is a complete and correct record of the well and has been checked and approved by the Bureau of Land Management.

_____ Date _____

The boundary on this page is as shown and not as indicated by the above table.

10	Finished drilling	10	Completed drilling
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After drilling to 6250', and cementing 4-1/2" casing, drilled out two rods cementing root and cement to total depth. Perforated 4-1/2" casing from 6042' to 6065' with 2 shots per foot. Treated perforations with 21.811 gallons of water containing 20,000# of sand. Set bridge plug at 6020' and perforated 4-1/2" casing from 5970' to 5986', with 2 shots per foot. Perforated perforations 5970' to 5986', with 24.117 gallons of water containing 12,000# of sand. Drilled out bridge plug and ran 2" casing to 6076'. After blowing well to clean up sand and water, casing was shut-in 7 days for building up before taking test. OIL OR GAS SANDS OR ZONES

CASING RECORD

Well No.	Section	Kind of shot	Amount	Kind of shot	Cost and charges	From	To	Remarks
1								

HISTORY OF OIL OR GAS WELL

U. S. GOVERNMENT PRINTING OFFICE 16-43004-2

FROM-	TO-	TOTAL FEET	FORMATION
FORMATION TOPS			
1505'			Pictured cliffs
3070'			Mesa Verde
4240'			Panoco
5137'			Gallup
5874'			Greenhorn
5970'			Dakota
FORMATION TOPS as per RL. 9 to 211' - 12-1/4" 211' to 6220' - 8-3/4" Recovered 20' of shale. Recovered 10' of shale.			
Measurements from detector floor, 10' above ground. FORMATION RECORD			
EMPLOYEES Driller Driller			
TOOLS USED Tools were used from Tools were used from			
SHOOTING RECORD Depth Shot Depth			
PLUGS AND ADAPTERS Depth Adapter			
MUDLOGGING AND CEMENTING RECORD Amount of mud used Mud gravity Mud used			