

Form 9-830

U. S. LAND OFFICE
SERIAL NUMBER **14-20-603-2190**
LEASE OR PERMIT TO PROSPECT
Navajo Tribal

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

ON LOCATE WELL CORRECTLY
COMPANY **Navajo Tribal** ADDRESS **Navajo Tribal**

Lessor or Tract **Navajo Tribal "H"** Field **Totah Gallup** State **New Mexico**
Well No. **1013** Sec. **12** T. **35N** R. **10E** Co. **San Juan**
Location **1030** ft. S. of N. Line and **100** ft. E. of N. Line of Section **12** Elevation **5014** (RDB)
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 **October 10, 1961** Title **Senior Petroleum Engineer**

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

Commenced drilling **September 27, 1961** Finished drilling **October 3, 1961**

OIL OR GAS SANDS OR ZONES

Slotted 4-1/2" Casing

No. 1, from **0** to **100** No. 4, from **100** to **1030**

No. 2, from **100** to **1030** No. 5, from **1030** to **1030**

No. 3, from **1030** to **1030** No. 6, from **1030** to **1030**

IMPORTANT WATER SANDS

No. 1, from **0** to **100** No. 3, from **100** to **1030**

No. 2, from **100** to **1030** No. 4, from **1030** to **1030**

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From	To	Purpose
8-5/8"	22.7	8	Amco	100'	Outside				
4-1/2"	9.5	8	CPA	903'	Outside				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	211'	150	Halliburton	1 plug	
4-1/2"	5016'	600	Halliburton	2 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 _____ feet to _____ feet, and from _____ feet to _____ feet

Completed as Totah Gallup Field Development Well **October 10**, 19**61**

DATES **First new oil** **October 7**, 19**61**

Put to producing _____, 19**61**

The production for the first 24 hours was **444** barrels of fluid of which **96**% was oil; _____% emulsion; _____% water; and **4**% 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

K. F. Runyan, Driller **M. W. McDonald**, Driller

Jackie White, Driller **Pete Estes**, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	750	750	Undifferentiated sand and shale
750	960	210	Pictured Cliffs sand and shale
960	1735	775	Lewis shale
1735	3565	1830	Mesaverde sand, shale and coal
3565	4515	950	Mancos shale
4515	4832	317	Gallup sand and shale
4832	4930	98	Gallup Pay sand and shale
4930	5026	96	Sanastee sand and shale

(Tops From E Log)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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LOG OF OIL OR GAS WELL

at 4960' of Tract Nevada-1111 Field Texas Gulf State New Mexico

Spended 12-1/4 hrs. at 21, 1961. Set 2-5/8" casing at 21 with 150 sacks of cement containing 2 pounds calcium chloride. Circulated 10 sacks. Treated 8-5/8" casing with 400 psi for 15 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 21 1/2.

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 "backchecked" or let in the well, give its date 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.

HISTORY OF OIL OR GAS WELL

Amount of mud used	Mud gravity	Method used	Number sacks of cement	Where set	Case cement
	1.100	Hand trowel	100	100	100
	1.100	Hand trowel	100	100	100

PLUGS AND ADAPTERS

Heaving plug Material	Length	Depth set
Heaving plug Material	100	100

SHOOTING RECORD

[illegible]

TOOLS USED

feel	of feel	more than feel	feel	of feel	more than feel
feel	of feel	more than feel	feel	of feel	more than feel

DATE

Put to producing	October 19
10	10

	% water; and	The production for the first 24 hours was	bottles of fluid of which	% was oil;
	% sediment.		Gravity, ^c Bé.	

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

EMPLOYEES

Driller	Driller	Driller	Driller
Driller	Driller	Driller	Driller

FORMATION RECORD

FORMATION	TOTAL FEET	TO—	FROM—
Unidentified sand and shale	120	120	0
Yellowish-brown shale	120	240	120
Black shale	115	355	240
Massive sand, shale and coal	1800	535	1775
Black shale	90	625	535
Yellowish-brown shale	115	740	625
Gravelly sand and shale	80	820	740
Black sand and shale	90	910	820

(Type Name)

FORMATION RECORD--Continued