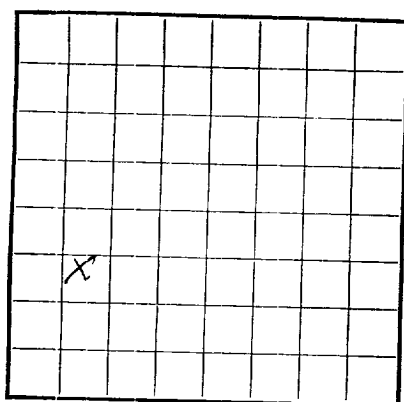


U. S. LAND OFFICE Santa FeSERIAL NUMBER SF 078931-B

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Tenneco Oil Company Address P. O. Box 1714, Durango, Colorado
Lessor or Tract Callow B Oil Unit Field Cha Cha Gallup State New Mexico
Well No. 1 Sec. 31 T. 29 N. R. 13 W. Meridian N.M.P.M. County San Juan
Location 1900 ft. N of S Line and 692 ft. E of W Line of Section 31 Elevation 5942
(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 L B Plumb L B PlumbDate September 22, 1961Title District Production Supt.

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

Commenced drilling August 18, 1961 Finished drilling August 30, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 5592 to 5598 No. 4, from 5598 to 5598
No. 2, from 5650 to 5655 No. 5, from 5655 to 5655
No. 3, from 5655 to 5655 No. 6, from 5655 to 5655

IMPORTANT WATER SANDS

No. 1, from 5655 to 5655 No. 3, from 5655 to 5655
No. 2, from 5655 to 5655 No. 4, from 5655 to 5655

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated		Purpose
							From	To	
8-5/8	32	8	CF&I	5598	Plug	5598	5598	5598	Production
8-5/8	32	8	CF&I	5650	Plug	5650	5650	5650	Production
4-1/2	9.5	8	CF&I	5655	Plug	5655	5655	5655	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	148'	100	Two Plug		
4-1/2	5709'	150	Two 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 0 feet to 5711 feet, and from 5711 feet to 5711 feet
Cable tools were used from 5711 feet to 5711 feet, and from 5711 feet to 5711 feet

Potential test 9-17-61 Flwd 450 BO in 18 hr
on 3/4 choke September
Put to producing October 17, 1961

The production for the first 24 hours was 515 barrels of fluid of which 100% was oil; _____% emulsion; _____% water; and _____% 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

_____, Driller _____, Driller
_____, Driller _____, Driller

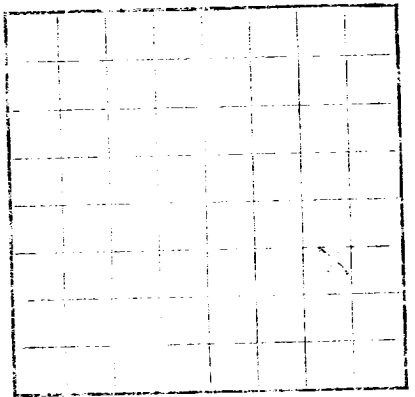
FORMATION RECORD

FROM--	TO--	TOTAL FEET	FORMATION
0	12	12	KB to ground level.
12	930	918	Shale and sand stringers
930	1550	620	Brown shale
1550	1735	185	Sandstone
1735	2475	740	Black shale
2475	4350	1875	Sandstone and shale
4350	5585	1235	Black shale with occasional sand stringers
5585	5711	126	Shaly and silty sands
			Electric Log Tops
			Farmington Sands 382
			Fruitland Shale 900
			Pictured Cliff 1545
			Lewis Shale 1735
			Mesaverde 2475
			Mancos Shale 4343
			Gallup 5228

U.S. LAND OFFICE
SECTION NUMBER
ISSUE PERMIT TO PROSPECT

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY

The information given below is a complete and correct report of the work done during
 so far as can be determined from all available records.
 Signed _____
 Date _____
 The following information is given:

Location _____
 Well No. _____
 Owner _____
 Field Office _____
 State _____
 County _____
 Township _____
 Section _____
 Address _____
 City _____
 State _____
 Country _____
 Elevation _____
 Date _____

Well spotted 500 pounds. 8-18-61. 24# 1-55 and set at 148. Cemented with 100 sacks cement and circulated to surface. WOC 12 hours. Pressure tested casing to 800 pounds. Pressure held OK. Drilled 7-7/8 hole to 5711. Ran ES resistivity and Gamma Ray-Sonic logs. Ran 181 joints casing 4-1/2" OD, 9.5# J-55 and set at 5709. Stage collar set at 1818 and cemented in two stages. First stage: cemented with 100 sacks Diamix plug down on first stage at 1798. WOC 24 hours. Pressure tested casing to 3000 pounds for 30 minutes. Pressure held OK. Perforated 5650-55 and traced with 12,000 gallons crude and 15,000 pounds 20-40 sand. 7-6" hole. Squeezed regular cement. WOC 6 hours. Squeeze pressure not obtained. Squeezed with 25 sacks regular cement. WOC 24 hours. Tested casing at 3000 pounds. Pressure did not hold. Squeezed leak with 25 sacks regular cement. Pressure held at 2400 pounds. Perforated 5592-98 and traced with 40,000 gallons (annular) 30,000 pounds 20-40 sand and 1500 pounds 10-80 sand. Potential test 9-17-61. Flowed 450 BG in 18 hours on 3/4" choke. TP 75, CP 10.

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 "sacked", 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.

HISTORY OF OIL OR GAS WELL

[illegible]

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