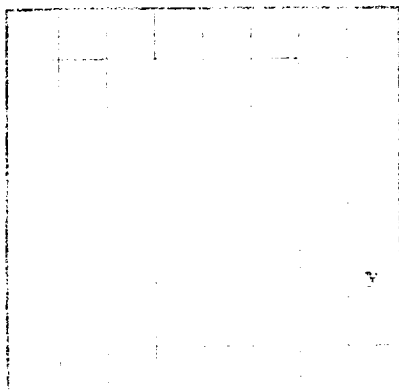


FIELD OFFICE
Bureau of Land Management

U.S. LAND OFFICE
SERIAL NUMBER **SP 0 9721 B**
LEASE OR PERMIT TO EXPLORATION

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **Tenneco Corporation** Address **P. O. Box 1714, Durango, Colorado**
Lessor or Tract **USA Glenn H. Callow "B"** Field **Cha Cha Callow** State **New Mexico**
Well No. **2** Sec. **31** T. **89N** R. **13W** Meridian **N.M.P.M.** County **San Juan**
Location **1980** ft. **N** of **S** Line and **510** ft. **W** of **E** Line of **Section 31** Elevation **5863** **GL**

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

Date **June 27, 1961**

Title **District Production Supt.**

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

Commenced drilling **May 4**, 19 **61** Finished drilling **May 13**, 19 **61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5604** to **5604** No. 4, from **5604** to **5604**
No. 2, from **5545** to **5545** No. 5, from **5545** to **5545**
No. 3, from **5545** to **5545** No. 6, from **5545** to **5545**

IMPORTANT WATER SANDS

No. 1, from **None** to **None** No. 3, from **None** to **None**
No. 2, from **None** to **None** No. 4, from **None** to **None**

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	24	8 rd	CPAI	144	Guide				Surface
4-1/2	9.5	8 rd	CPAI	5642	Float		5604		Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	144	125	Two Plug		
4-1/2	5642	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 10 feet, and from feet to feet

Cable tools were used from feet to feet, and from feet to feet

DATES Potential Test: F/170 BO in 24 hours on

June 27, 1961, 19..... Put to producing 2 1/2" choke, GOR 1270 6-1-61, 19.....

The production for the first 24 hours was 170 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
12	1505	1493	Sandstone and shale
1505	1650	145	Sand
1650	2425	775	Shale
2425	4225	1870	Sand and sandy shale
4225	5185	890	Shale
5185	T.D.	465	Shaly sand and sandy shale

Electric Log Tops

	Surface
Ojo Alamo	305
Kirtland	565
Farmington-Fruitland	1505
Pictured Cliffs	1650
Lewis Shale	2430
Mesaverde Group	4205
Mancos Shale	5185
Gallup	551
Lower Gallup	4350
T.D.	

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 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.

Spotted well 7:00 p.m. 5-4-61 and drilled 12-1/4" hole to 150'. Ran 4 joints 8-5/8" 24# sals casing set at 144' with 12 1/2 sacks cement. Circulated cement to surface. Plug down 6:05 a.m. 5-5-61. WOC 8 hours. Pressure tested casing to 600 pounds for 30 minutes. Pressure held o.k. Drilled to TD of 5650'. Ran ES-Resistivity and Gamma Ray Sonic logs. Laid down drill pipe and ran 179 joints 4-1/2", 9-5/8" sals casing set at 5049'. Stage collar set at 1590' and cemented in two stages. First stage: cemented with 100 sacks 1:1 Pozmix 2 1/2 gal. Plug down on first stage 11:08 a.m. 5-13-61. Second stage: cemented with 20 sacks 1:1 Pozmix 2 1/2 gal. Plug down on second stage 12:30 a.m. 5-13-61. WOC 24 hours. Pressure tested casing to 3000 pounds for 30 minutes. Pressure held o.k. Drilled to 5650' 2:00 p.m. 5-13-61. Pump 5650' with jet bit. Sand-oil flowed with 200' lb. 10-80 sand pipe 300 lbs. 12-16 aluminum pellets and 6600 gallons loose crude. Pump with Schlumberger radial jet at 5650'. Sand-oil flow with 12,000 lb. 10-80 sand pipe 300 lbs. aluminum pellets and 13650 gallons loose crude. Tubing landed at 5650'. Recovered load oil. Potential test 6-1-61: Flowed 273 barrels of oil in 24 hours on 24/64" choke, TP 100, or 450, over 1273.