

[illegible]

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 067988
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Tenneco Oil Company Address P. O. Box 1714, Durango, Colorado
Lessor or Tract UEA T. J. Foster Field Basin Dakota State New Mexico
Well No. 1 Sec. 7 T. 25N R. 7W Meridian NMPM County Rio Arriba
Location 1820 ft. ~~NE~~ of N Line and 1830 ft. ~~NE~~ of E Line of Section 7 Elevation 6498 GL
(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

Date April 17, 1962 Title District Production Supt.

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

Commenced drilling December 1, 1961 Finished drilling December 22, 1961

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 6886 to 6889 G No. 4, from _____ to _____
 No. 2, from 6801 to 6808 G No. 5, from _____ to _____
 No. 3, from 6626 to 6634 G No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from ~~None~~ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8- 5 / 8	264	150	Pump & Plug		
5- 1 / 2	6937	350	Pump & 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.

DATES

-----~~April 17~~-----, 19-~~62~~-----^{P & A}~~Produced~~-----^{Put for producing}~~April 13~~-----, 19-~~62~~-----

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 _____ Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

EMPLOYEES

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

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
Surface	1385	1385	San Jose & Nacimiento formations. Undifferentiated includes red-tan-brown-gray variegated shales, siltstones, lenticular sandstones and conglomerates.
1385	1730	345	Ojo Alamo Sandstones (white-gray & brown, fine to coarse grained, conglomeratic) interbedded with primarily light gray shales
1730	2030	300	Kirtland Shale Gray to brown shale w/greenish and yellow sandy shale
2030	2275	245	Fruitland Gray-brown-black shale w/coal and brown to white sandstone
2275	2366	91	Pictured Cliffs. White, gray and yellowish gray sandstone, interbedded w/gray shales.
2366	3822	1456	Lewis Shale Light to dark gray shale w/some thin sandstones and limestones, very calcareous.
3822	4830	1008	Mesaverde Group. Undifferentiated contains Cliff House sandstone (tan-gray, med grain sandstone w/gray shale beds), Menefee shale (gray, brown, dull claystone and shale some coal and sandstones - ferruginous) and Point Lookout sandstone (tan and brown sandstone w/some gray shales).
4830	5675	845	Mancos Shale (Upper). Light gray to dark gray shale with some tan fine-grained sandstone & siltstone.
5675	6170	495	Gallup Sandstone. Dark gray to black to brown

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
6170	6542	372	carbonaceous shale and silty shale with lesser amounts of thinbedded or laminated beds of very fine to medium ground sandstone with oil staining, some glauconite present Lower Mancos shale - dark gray shale with some marlstone stringers and calcareous fine-grained sandstone present Greenhorn ls. shaly or sandy-silty-limestone Greneros shale. Dark gray to black, very hard indurated shale, slightly porritic and calcareous Dakota. Brown to tan to light gray, very fine to fine grained sandstone and conglomeratic sandstone, with interbedded dark gray shales, some coals
6542	6590	48	
6590	6625	35	
6625	6908	283	
6625			Dakota Greneros Greenhorn Lower Mancos Shale Gallup Sandstone Mancos Shale (Upper) Mesa Verde Lewis Shale Pictured Cliffs Fruitland Fruitland Shale Ojo Alamo San Jose & Montembo
			ELECTRIC LOG TOPS Surface 1385 1730 2030 2275 2366 3622 4830 5675 6170 6542 6590 6625

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, 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

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Spudded 12-1-61. Drilled to 270'. Ran 8 joints 8-5/8", 24#, J-55 casing and set at 264'. Cemented with 150 sacks Incon and circulated to surface. WOC 12 hours. Pressure tested casing to 500# for 30 min. Pressure held ok. Drilled to 6930'. Ran 15 induction and Gamma Ray-Sonic logs. Ran 213 joints 5-1/2", 14# and 15 # J-55 casing and set at 6937'. Stage collar set at 2404' and cemented in two stages. First stage: cemented with 300 sacks Incon. Second stage: cemented with 50 sacks Incon-Pozmix. WOC 24 hours. Pressure tested casing to 3000 lbs for 30 min. Pressure held ok. Perforated 6886-8904 w/ 4 jets per ft. Acidized parts with 250 gal mud acid. Perforated 6796-6813 w/ 4 jets per ft. Perforated parts with 50,000 lbs sand and 50,000 gal water. Cleaned well to pit. Ran tracer survey. Squeezed parts 6796-6813 with 85 ex. Perforated 6801-6808 with spotted 250 gal super mud acid. Perforated parts with 20,000 lbs sand and 39,000 gal water. Swabbed well. Perforated 6626-6634 with 4 jets per ft. Perforated parts with 20,000 lbs sand and 15,000 gal water. Swabbed lead water. Cut 5-1/2" casing at 1560' and pulled. Spotted 25 ex cement 6040-6140. Spotted cement plug 1610-1510 w/ 30 sacks cement. Spotted cement 20' to surface. Set dry hole marker. Well P & A 4-13-62