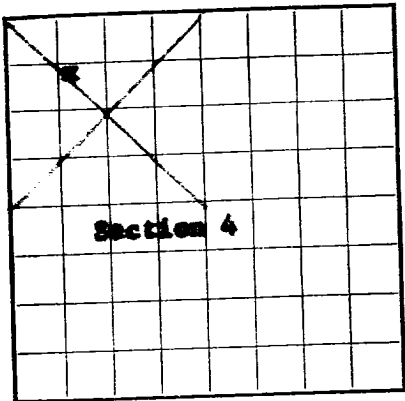


U. S. LAND OFFICE Santa Fe
SERIAL NUMBER _____
LEASE OR PERMIT TO PROSPECT _____
Jic. Tribal Oil & Gas Lease
UNITED STATES
No. 157

DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Shor-Alan Oil Company Address 1402 Banner U. S. National Center
Lessor or Tract Hearilla "T" No. 157 Field Undesignated State New Mexico
Well No. 4 Sec. 4 T. 23N R. 2W Meridian 10R County Rio Arriba
Location 790 ft. N. of H Line and 790 ft. E. of W Line of SW/4 Elevation 7280
(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 Richard S. Hunt

Date September 30, 1963 Title Mgr. of Lands & Explorations

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

Commenced drilling 5-13-63, 19____ Finished drilling 5-20-63, 19____

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3066 to 3094 No. 4, from _____ to _____
No. 2, from _____ to _____ No. 5, from _____ to _____
No. 3, from _____ to _____ No. 6, from _____ to _____

IMPORTANT WATER SANDS

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

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"	124	8	API	101'					
4 1/2"	65	8	API	3193'					
2 3/8"	41.7	8	API	3066'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8"	101'	60	Halliburton		
4 1/2"	3193'	73			

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 3193 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

_____, 19____ Put to producing _____, 19____
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 4917 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

_____, Driller _____, Driller
Rayco Drilling Company, Driller _____, Driller
Farmington, New Mexico

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2896	2997	101	Kirtland
2998	3064	66	Fruitland
3064	3094	30	Pictured Cliffs
	3193 TD		

Perforated as shown above with 4 holes per ft. f Sand fraced with 30,000# sand and 31,920 gallons water. Maximum pressure 1900. Minimum pressure 1400.
Rate on Frac 38.0. Injection rate 37.7 BPM. Instant shut-in pressure 400.

Ran 3 hr Back pressure test 8-6-63. Charts Attached.

