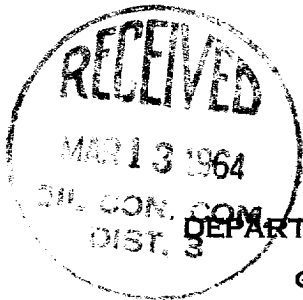
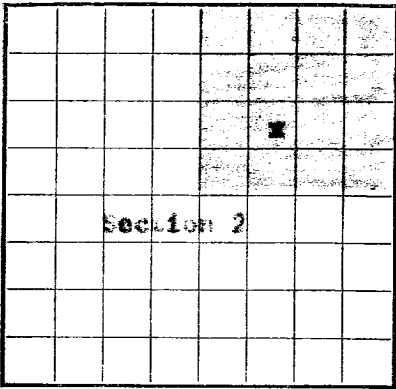




U. S. LAND OFFICE Carlsbad, N.M.
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECT
Jicarilla Tribal Lease No. 156
UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company Char-Alano Company Address 1402 Denver St., National Center
Lessor or Tract Jicarilla Tribal Lease No. 156 Field Undesignated State New Mexico
Well No. 1 Sec. 2 T. 23 R. 2 Meridian 10N County Lea
Location 1750 ft. N. of Line and 1585 ft. E. of Line of Elevation 7328
(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 October 28, 1963 Title Gr. of Lands Exploration

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

Commenced drilling 9-20-62, 19 Finished drilling 9-25-62, 19

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 3143 to 3157 (g) No. 4, from to
No. 2, from 3176 to 3186 (g) 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	24.7	8	CGI	102'			3143	3159	Prod.
4 1/2	9.38	8	CGI	3259'	3270		3176	3186	Prod.
1 1/4	4.5	8	CGI	3120'					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8 5/8	102'	60	slurburst		
4 1/2	3259'	75			

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 -0- feet to 3270 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 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
2912	2972		Alamo
2972	3086		Kirtland
3086	3140		Fruitland
3140	3186		Pictured Cliffs
	3270		Total depth

Subject well perforated as shown above with 2 holes per foot. Frac treated down casing with 30,000# sand and 37,300 gallons of water. Breakdown pressure 1000# treating pressure 1500-1800#. Injection rate 41 BPM.

24 hr Back Pressure test run . Charts attached.

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.

[illegible]