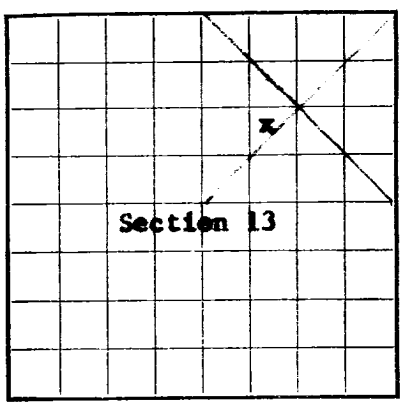
Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

RECEIVED
OCT 8 1963
OIL CON. COM.
DIST. 3

U. S. Land Office Santa Fe
Serial Number
Lease or Permit to Prospect Jic. Tribal Oil & Gas Lease No. 160

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company Shar-Alan Oil Company Address 1402 Denver U. S. National Center

Lessor or Tract Jicarilla "F" No. 160 Field Undesignated State New Mexico

Well No. 1-A Sec. 13 T. 23N R. 2W Meridian NMPM County Rio Arriba

Location 1850 ft. {N./S.} of S Line and 1850 ft. {E./W.} of E Line of NE/2 Elevation 7360.7 (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 2-9-63, 19 Finished drilling 2-18-63, 19

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 3038 to 3048 (g) No. 4, from to

No. 2, from 3066 to 3074 (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 From—	Perforated To—	Purpose
8-5/8"	24#	8R	CPI	100'					
4-1/2"	9.5#	8V	CPI	3146'			3038	3048	Prod.
							3066	3074	Prod.
1-1/4"	2.40#	8V	CPI	3032					

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	100'	60	Halliburton		
4-1/2"	3146	100	"		

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 3150 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 2123 MCF Gallons gasoline per 1,000 cu. ft. of gas

Rock pressure, lbs. per sq. in. 948

EMPLOYEES

Bayco Drilling Company, Driller , Driller

Farmington, New Mexico, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
2754	2900	146	Ojo Alamo
2900	2960	60	Kirtland
2960	3034	74	Fruitland
3035	3074	39	Pictured Cliffs
	3150		Total depth

Perforated as shown above. Frac treated down casing with 30,000 #sand and 32,000 gallons water. Breakdown pressure 1500 psi. Treating pressure 1800-2200 psi. Instant shut-in pressure 100 psi. Injection rate 40 BPM. Ran 1 1/4" upset tubing to 3032'.

Ran 3 hr back Pressure test 9-12-63. Charts attached.

FOLD MARK

FROM— TO— TOTAL FEET FORMATION

(OVER)

16—43094-4

FORMATION RECORD—Continued

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

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.