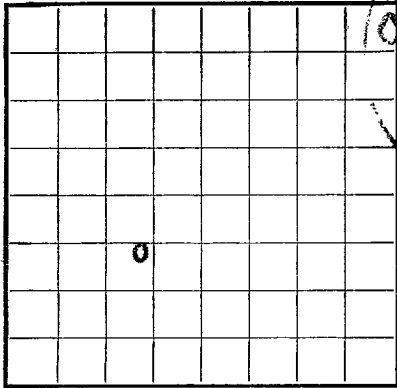


Dulce, New Mexico
U. S. LAND OFFICE Jicarilla #199
SERIAL NUMBER
LEASE OR PERMIT TO PROSPECTUNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company **Pubco Petroleum Corporation** Address **P. O. Box 1419, Albuquerque, NM**
Lessor or Tract **Jicarilla** Field **Basin Dakota** State **New Mexico**
Well No. **23-11** Sec. **23** T. **23N** R. **5W** Meridian **NMPM** County **Sandoval**
Location **1650** ft. **N** of **S** Line and **1650** ft. **E** of **W** Line of **Section 23** Elevation **6779**
(Derriek 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.

Date **August 7, 1961** Signed **[Signature]** Title **Geologist**

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

Commenced drilling **June 18**, 19**61** Finished drilling **July 11**, 19**61**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **none** to No. 4, from to
No. 2, from to No. 5, from to
No. 3, from to No. 6, from to

at approximately IMPORTANT WATER SANDS

No. 1, **XXXX** **850 feet** 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—	
9-5/8"	32.30#	8	CF&I	206.54	---				Surface
5-1/2"	15.30#	8	CF&I	6622	Baker	800 feet	6522	6564	Induction

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	219.94KB	225 sx reg + 2% caci ₂	circulated		
5-1/2	6622 KB	175 sx 50-50 pos-mix	circulated		
		plus 100 sx latex			
		(REFER TO BACK OF PAGE)			

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 **surface** feet to **6622** feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

August 1, 19**61** Put to producing **P & A**, 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

E. H. Copeland, Driller **J. W. Sprabury**, Driller
C. D. Anderson, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
surface	1763	1763	Tertiary
1763	2113	350	Fruitland
2113	2148	35	Pictured Cliffs
2148	3631	1483	Lewis
3631	4480	849	Mesaverde
4480	5346	866	Mancos
5346	5628	282	Gallup
5628	6281	653	Mancos
6281	6348	67	Greenhorn
6348	6454	106	Graneros
6454	6616	162	Dakota
6616	6622	6	Morison

(OVER)

FROM—	TO—	TOTAL FEET	FORMATION
DST #1	2090-2210	TO 1 hr, SI 30 min, rec 50' GCM. ISIP (30 min) 130# FSIP (30 min) 130# IHP 1050# FHP 1030#	
DST #2	3630-3715	TO 1½ hrs, SI 30 min, Rec 3140' water. ISIP (30 min) 1320# FSIP (30 min) 1305# IHP 1920# FHP 1880#	
DST #3	5390-5448	TO 2 hrs, SI 30 min, rec 50' GCM. ISIP (30 min) 540# FSIP (30 min) 255# IHP 2640# FHP 2640#	
Perforated with 2 bullets & 2 jets per foot from 6522-6562 track'd with 50,000# sand & 115,000 gal water. Breakdown pressure 2900#. Broke back to 1500#; treating pressures 2400#-3190#. Average injection rate 33 BPM. Recovered 2950 bbl water. No hydrocarbon, cemented part with 75 ex. Set Baker Model K plug at 6508.			
Perforated with 4 jets per foot from 6422-6490. Fract with 27,500# sand and 50,700 gal water. Break down pressure 3000#, average treating pressure 2000#. Cemented part with 255 ex cement.			
Cut and removed casing from 800 feet. Placed 25 ex cement plug in base of surface pipe and 10 ex plug at surface. Set marker.			

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.