

U. S. LAND OFFICE **Jicarilla Tribal**
SERIAL NUMBER **Jicarilla Contract**
155
LEASE OR PERMIT TO PROSPECT

UNITED STATES

DEPARTMENT OF THE INTERIOR

GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company **Am. American Petroleum Corporation** Address **Box 180, Farmington, New Mexico**Lessor or Lessee **Jicarilla Contract 155** Field **Basin Dakota** State **New Mexico**Well No. **11** Sec. **30** T. **26N** R. **5W** Meridian **N.T.P.M.** County **Ala Arriba**Location **1600** ft. N. of **2** Line and **650** ft. W. of **2** Line of **Section 30** Elevation **6586** (RDB)

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 **R. M. Bailey, Jr.**Date **May 20, 1961** Title **Senior Petroleum Engineer**

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

Commenced drilling **March 25, 1961** Finished drilling **April 11, 1961**

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from **5100** to **7110** No. 4, from _____ to _____No. 2, from **1010** 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"	20	8RT	J-55	635	Open				Surface
4-1/2"	9.5	8RT	J-55	635	Open				Oil String
4-1/2"	11.6	8RT	J-55	710	Open				Oil String

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8"	545'	400 sacks of cement	Halliburton 2 Plug.		
4-1/2"	7474'	825 sacks of cement	Baker 2 Stage.		

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 **7474** feet, and from _____ feet to _____ feet

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

DATES

Completed as shut in Gas well Basin Dakota Field. **May 20, 1961** Put to producing **May 20, 1961**

The production for the first 24 hours was _____ barrels of fluid of which _____% was oil; _____% emulsion; _____% water; and _____% sediment. Gravity, °Bé. _____

Preliminary test _____ If gas well, cu. ft. per 24 hours **2300** Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. _____

Potential test will be reported on Sundry Notice when available.

EMPLOYEES

R. D. Davis

J. L. Booby

Driller

D. S. Wisener

Leon Westab

Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2885	2885	Undifferentiated sand and shale.
2885	2962	77	Pictured Cliffs sand and shale.
2962	4570	1608	Louis shale.
4570	5292	722	Mesaverde sand, shales, and coals.
5292	5725	433	Mancos shale.
5725	6700	975	Gallup sands and shales.
6700	6950	250	Sanastee sand and shale.
6950	7090	140	Greenhorn sand.
7090	7222	132	Graneros sand and shale.
7222	7474	252	Dakota sand and shale.

(Type from E log)

[OVER]

16-48094-4

FORMATION RECORD—Continued

(DAEB)

10-42094-2

FROM—	TO—	TOTAL FEET (100' 100' 100')	FORMATION
3375	3417	42	Shale and sandstone
3417	3580	163	Shale and sandstone
3580	3680	100	Shale and sandstone
3680	3820	140	Shale and sandstone
3820	3900	80	Shale and sandstone
3900	4100	200	Shale and sandstone
4100	4200	100	Shale and sandstone
4200	4300	100	Shale and sandstone
4300	4400	100	Shale and sandstone
4400	4500	100	Shale and sandstone
4500	4600	100	Shale and sandstone
4600	4700	100	Shale and sandstone
4700	4800	100	Shale and sandstone
4800	4900	100	Shale and sandstone
4900	5000	100	Shale and sandstone
5000	5100	100	Shale and sandstone
5100	5200	100	Shale and sandstone
5200	5300	100	Shale and sandstone
5300	5400	100	Shale and sandstone
5400	5500	100	Shale and sandstone
5500	5600	100	Shale and sandstone
5600	5700	100	Shale and sandstone
5700	5800	100	Shale and sandstone
5800	5900	100	Shale and sandstone
5900	6000	100	Shale and sandstone
6000	6100	100	Shale and sandstone
6100	6200	100	Shale and sandstone
6200	6300	100	Shale and sandstone
6300	6400	100	Shale and sandstone
6400	6500	100	Shale and sandstone
6500	6600	100	Shale and sandstone
6600	6700	100	Shale and sandstone
6700	6800	100	Shale and sandstone
6800	6900	100	Shale and sandstone
6900	7000	100	Shale and sandstone
7000	7100	100	Shale and sandstone
7100	7200	100	Shale and sandstone
7200	7300	100	Shale and sandstone
7300	7400	100	Shale and sandstone
7400	7500	100	Shale and sandstone
7500	7600	100	Shale and sandstone
7600	7700	100	Shale and sandstone
7700	7800	100	Shale and sandstone
7800	7900	100	Shale and sandstone
7900	8000	100	Shale and sandstone
8000	8100	100	Shale and sandstone
8100	8200	100	Shale and sandstone
8200	8300	100	Shale and sandstone
8300	8400	100	Shale and sandstone
8400	8500	100	Shale and sandstone
8500	8600	100	Shale and sandstone
8600	8700	100	Shale and sandstone
8700	8800	100	Shale and sandstone
8800	8900	100	Shale and sandstone
8900	9000	100	Shale and sandstone
9000	9100	100	Shale and sandstone
9100	9200	100	Shale and sandstone
9200	9300	100	Shale and sandstone
9300	9400	100	Shale and sandstone
9400	9500	100	Shale and sandstone
9500	9600	100	Shale and sandstone
9600	9700	100	Shale and sandstone
9700	9800	100	Shale and sandstone
9800	9900	100	Shale and sandstone
9900	10000	100	Shale and sandstone

FORMATION RECORD

EMPLOYEES

TOOLS USED

SHOOTING RECORD

PLUGS AND ADAPTERS

MUDGING AND CEMENTING RECORD

HISTORY OF OIL OR GAS WELL

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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 cracked 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.

Spudded 12-1/4" hole on March 25, 1961, and drilled to 545'. Set 8-5/8" casing at 545' with 400 sacks cement containing 2 percent calcium chloride. Plug down March 25, 1961. Circulated 40 sacks cement. After waiting on cement, tested 8-5/8" casing with 400 psi for 30 minutes, which held with no indication of pressure drop. Reduced hole to 7-7/8" at 545' and resumed drilling operations.

IMPROVING WATER SANDS

Total depth 7474' - Set 4-1/2" casing at 7474' with Baker DV tool at 3904'. Cemented first stage with 350 sacks 6 percent gel cement, containing 1-1/2 pounds medium turf plug per sack, followed by 100 sacks neat cement. Tested with 3000 psi for 30 minutes, which held with no indication of pressure drop. Waited on cement for 4 hours. Cemented second stage with 375 sacks 6 percent gel cement. Tested with 3000 psi for 30 minutes, which held with no indication of pressure drop. Waited on cement 18 hours. Drilled DV tool. Displaced mud with water. Released pig April 18, 1961. Moved in pulling with April 20, 1961. Increased tubing to 7435' and circulated 5 barrels discolored water. Pulled tubing to 7100' and attempted to test casing prior to perforating. Pumped in at 4-1/2" barrels per minute at 3000 psi. Pressure dropped to 800 psi. Ran tubing with Halliburton RTTS Packer. Located leak at 3905' apparently in stage collar. Made five unsuccessful attempts to squeeze stage collar with 325 sacks cement. Drilled out cement and scraped casing 3902-3914'. Set 8" Plastic Patch centered at 3905'. After waiting on patch to set, tested casing with 3050 psi, which held to 2300 psi in 70 minutes. Drilled out casing patch at 3905' with Baker casing scraper. Ran 2-3/8" casing and scraper to 7435' and circulated hole clean. Spotted 100 gallons of HNA acid. Ran correlation log and perforated with 6 shots per foot 7100-7110. Ran 2-7/8" free tubing with Baker full bore packer and set packer at 4141'. Attempted to free, but unable to free with 3200 psi. Reset packer at 6191'. Breakdown at 5300 psi back to 800 psi and established injection rate of 8 barrels per minute at 2800 psi. Reset packer at 4141'. Sandwater fractured with 21,900 gallons water containing 34 pounds per 1000 gallons J-101 and 10 pounds J-98 per 1000 gallons with 1 percent Calcium Chloride and 20,000 pounds sand. Breakdown pressure 5300-5400 psi, maximum treating pressure 4300 psi, minimum treating pressure 4000 psi, average treating pressure 4160 psi, average injection rate 19 barrels per minute. Ran 2-3/8" tubing with Baker Model "E" Packer and set packer at 6949' with bottom of tubing at 7078' and loaded annulus with oil. Completed as shut in gas well Basin Dakota Field May 20, 1961. Preliminary test May 20, 1961, flowed 2300 psi per day. Tubing pressure flowing 150 psi, with casing pressure flowing remaining at zero.

DEPARTMENT OF THE INTERIOR

UNITED STATES

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MAY 21 1961
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WASHINGTON, D. C.