

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company The British-American Oil Prod. Co. Address P. O. Box 180, Denver 1, Colorado
 Lessor or Tract Navajo Field Bisti-Gallup State New Mexico
 Well No. 4 Sec 13 T 26N R 14W Meridian NHPM County San Juan
 Location 1980 ft S of N Lane and 1980 ft W of E Lane of Section 13 Elevation 6357'

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 Original Signed by
 Signed George W. Murphy

Date May 6, 1959 Title Assistant General Superintendent

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

Commenced drilling April 16, 1959 Finished drilling April 28, 1959

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

TOP Picture Cliff 1515'
 No. 1, from Picture Cliff 1515' No. 4, from Mancos 4135'
 No. 2, from Mesa Verde 1795' No. 5, from Lower Gallup 4100'
 No. 3, from Pt. Lookout 3978' No. 6, from Top of Pay 5175'

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
9 5/8	25.4	Slip it	Armco	320	Pattern		From _____ To _____	Protect Water Sds.
5 1/2	14	8 rd		5,599'	Guide shoe		5190' 5206'	Production

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	333	300			
5 1/2	5295	100			

PLUGS AND ADAPTERS

Heaving plug—Material _____ Length _____ Depth set _____
 Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shall used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out

TOOLS USED

Rotary tools were used from 0 feet to 5300 KB feet, and from _____ feet to _____ feet
 Cable tools were used from 5155 feet to 5227 KB feet, and from _____ feet to _____ feet

DATES

_____ May 6, 1959 Put to producing May 4, 1959

The production for the first 24 hours was 104 barrels of fluid of which 100 % was oil, _____ %
 emulsion; _____ % water, and _____ % sediment Gravity, °Bé 36

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Force Drilling Company, Driller _____, Driller _____
Rota-Cone, Driller _____, Driller _____

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
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PEED - 5227'. Swabbed hole down and dry tested casing. Loaded hole with 40 bbls. of oil. Ran gamma-ray/neutron survey from 5229' to 5000'. Perforated with 4 jets per foot from 5190' to 5206'. Swabbed back 40 bbls. of load oil. Swabbed 8 bbls. of new oil in 2 hours. Loaded hole with 120 bbls of oil. Pumped 30 bbls. of oil into formation at rate of 40 bbls per min. and 2400 psi. Sand-fraced with 60,000 lbs of sand and 1500 lbs of FL-2 in 30,000 gal of lease crude. Flushed with 150 bbls of oil. Initial treating pressure 2400 psi., final treating pressure 2000 psi, final flush pressure 2200 psi, 10 min SIP - 250 psi. Two hour SIP - 125 psi. Total load oil used 1000 bbls. Flowed back 13 bbls. of load oil. Cleaned out 72' sand. Recovered 1000 bbls of load oil in two days.

FROM—	TO—	TOTAL FEET	FORMATION
0	335		Shale & sand
335	701		Sand & shale
701	1,707		Shale & sand w/coal streaks
1,707	2,373		Sand & shale
2,373	2,737		Shale with sand
2,737	3,152		Sand and shale, shale with sand
3,152	3,252		Sand & shale
3,252	3,586		Shale with sand streaks
3,586	3,815		Sand & shale
3,815	4,165		Sandy shale & sand
4,165	4,371		Shale
4,371	4,376		Shale with sandy streaks
4,376	5,063		Shale
5,063	5,191		Shale & sand
5,191	5,221		Core #1 Sand
5,221	5,300		Shale & sandy shale

[illegible]

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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 "sidetracked" or left in the well, give its size and location. If the well has been dyminted, 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 boiling.

