

(SUBMIT IN TRIPLICATE)

Indian Agency Mineral Bank

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Allottee Miner
Lease No. 14-80-629-775

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS	SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	
NOTICE OF INTENTION TO TEST WATER SHUT-OFF	SUBSEQUENT REPORT OF ALTERING CASING	
NOTICE OF INTENTION TO REDRILL OR REPAIR WELL	SUBSEQUENT REPORT OF REDRILLING OR REPAIR	MAY 13 1959
NOTICE OF INTENTION TO SHOOT OR ACIDIZE	SUBSEQUENT REPORT OF ABANDONMENT	
NOTICE OF INTENTION TO PULL OR ALTER CASING	SUPPLEMENTARY WELL HISTORY	
NOTICE OF INTENTION TO ABANDON WELL	<u>Set Surface Cas.</u>	X

(INDICATE ABOVE BY CHECK MARK NATURE OF REPORT, NOTICE, OR OTHER DATA)

May 11, 1959

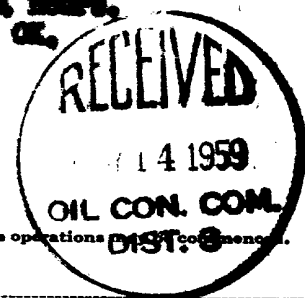
Well No. 5 is located 660 ft. from N line and 1900 ft. from W line of sec. 19
G 2E 2N 26N 14W New Mexico P.M.
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)
Monte - Gallup San Juan New Mexico
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding jobs, cementing points, and all other important proposed work)

Drilled 12 1/2" hole to 335' BS TD. Ran 8 fts. of 9-5/8" API casing with National Form pattern shoe and bit, and wild combination collar - 320' total. Landed at 333' BS, and cemented 175 cu of cement with 1/4 cu. ft./cu. of stratacrete and 125 cu of regular cement. Pumped top plug to 290' BS. Used top and bottom plug. Good cement returns to surface. Waited on cement 24 hours. Tested 9-5/8" cas. with 500 psi. for 30 min. - held OK.



I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

Company The British-American Oil Producing Company

Address P. O. Box 160
Denver 1, Colorado

Original Signed by
By George W. Murphy
Title Assistant General Superintendent

U.S. GEOLOGICAL SURVEY
DEPARTMENT OF THE INTERIOR
UNITED STATES

LOG OF OIL OR GAS WELL



LOCATE WELL CORRECTLY. Grid for well location with columns 1-10 and rows 1-10.

Company Name, Address, State, Field, Well No., Section, Township, Range, Meridian, County, Location, Elevation, Date, Signed, Original Signed by.

The summary on this page is for the condition of the well at above date. Commenced drilling 1955. Finished drilling 1955.

OIL OR GAS SANDS OR ZONES. Table with columns: No. from, to, Remarks.

IMPORTANT WATER SANDS. Table with columns: No. from, to, Remarks.

CASING RECORD. Table with columns: Casing size, Depth, Remarks.

It is of the greatest importance to have a complete history of the well. Please state in detail the dates of reworking, 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 added, or left in the well, give 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.

HISTORY OF OIL OR GAS WELL

Main log table with columns: FROM, TO, TOTAL FEET, FORMATION. Sub-sections include: MUDGING AND CEMENTING RECORD, PLUGS AND ADAPTERS, SHOOTING RECORD, TOOLS USED, DATES, EMPLOYEES, FORMATION RECORD.

LOG WORK

GEOLOGICAL COMPLETION REPORT
BRITISH-AMERICAN NO.5 NAVAJO

Well Classification:

Development Well
Bisti-Gallup Field
San Juan County, New Mexico
British-American Navajo #5
C NE NW Section 13-26N-14W

Well Data:

Commenced drilling:	May 9, 1959
Completed drilling:	May 20, 1959
Contractor:	Foree Drilling Company
Casing Record:	Set 9 5/8" at 332 KB w/175 sax cmt Set 5 1/2" at 5262 KB w/100 sax cmt 2% gel.
Elevation:	G. L. 6309 K. B. 6318.5
Total Depth and Datum:	Driller 5265 +1053; E.S. 5269 +1049
PBTD, Datum and Formation:	5193 +1125; Gallup ss.

Completion Data:

Producing zone:	Gallup ss Net Pay: 10' perf.
Perforations:	Perf. 5150-5160 w/4 jets per ft. SOF w/60,000 lbs sand, 1500 lbs Adomite and 30,000 gals oil
Treatment:	B. D. 2600 psi, FTI 2200 psi, Average Injection rate 44 BPM
Initial Production:	Final swab gage before temporary abandonment Rec 36 BW & 4 BLO in 16 hrs 252 BLO to Recover

Geological Data:

Samples:	10' samples from 5050-T.D. Stored at: Four Corners Sample Cut Farmington, New Mexico
E. S. Induction	2" from 333-5269 K.B. 5" from 4260-5269 K.B.
Microlog:	Same as 5" E. S.
Gamma Ray	4950-5193
Geolograph:	333-5265 K.B.

Formation Record:

<u>Name</u>	<u>Schl. Top</u>	<u>Schl. Datum</u>	<u>Fluid Content</u>
Pictured Cliffs	1464	+1854	---
Point Lookout	3935	+2383	---
Mancos	4100	+2218	---
Upper Gallup	5060	+1258	---
Gallup Pay	5134	+1184	---

Core Record: None

Drill Stem Test Record: None

H. A. Holton
6 10 50

This is only 7' low to the correlative point in the Navajo #1, which isn't producing any water at the present time. If the Navajo #4 after having been on production for a longer period of time should begin to produce some water, that should be evidence for water encroachment from the north-west, as core analysis and electrical log interpretation of the Navajo #4 gave no indication of possible water production when the well was completed.

The second and more likely explanation for the water production in the Navajo #5 is a combination of its lower structural position and an increase of interstitial water, due to a decrease in permeability and porosity. The E. S. log indicates that the 1st bench is poorly developed due to its increased shalliness, and it is quite possible that the water saturation has increased to the point that in conjunction with its lower structural position, only water can be produced.

No recommendations for additional drilling can be made at this time, but after the Navajo #4 has been on production long enough to assure that it isn't going to start making water, the drilling of the C SW NW Sec. 13-26N-14W would be justified.

This location should encounter 10' of developed 1st bench sand, and would be 25' higher structurally than the Navajo #5.

This recommendation is contingent on the continued good production from the Navajo #1.

H. A. Holton

