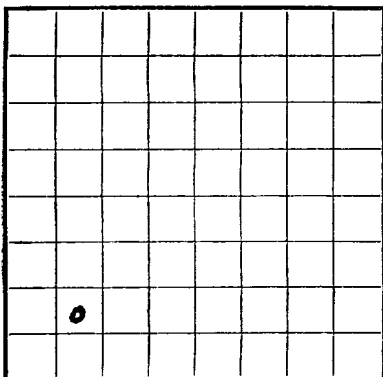


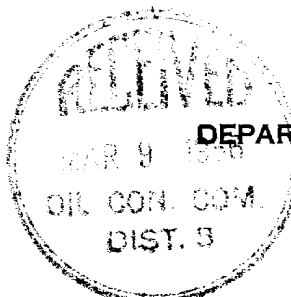
Navajo Allotted
U.S. Land Office

SERIAL NUMBER 14-20-603-58

LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Plymouth Oil Company Address 340 Silver State Bank Building
Denver, Colorado
Lessor or Tract Glin-Hos-Pan Tomas Field Wildcat State New Mexico
Well No. 1 Sec. 22 T. 22-N R. 3-W Meridian NMP County Sandoval
Location 490 ft. S of S. Line and 290 ft. E of N. Line of Section 22 Elevation 7073
(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

Date February 15th, 1956

Title

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

Commenced drilling November 13, 1955 Finished drilling December 28, 1955

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 _____

IMPORTANT WATER SANDS

No. 1, from None 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—	
10-3/4	32.75		CE&I	100'	Baker	---	---	---	Surface
8	15.50		CE&I	6910'	Baker	---	---	---	See exhibit A testing
HISTORY OF CUT OF C&I MEET									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10-3/4	100'	175	---	---	---
5-1/2	6310'	250	---	---	---

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length 100' Depth set 6425'
Adapters—Material --- Size ---

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from Surf. feet to 7166 feet, and from --- feet to --- feet
Cable tools were used from --- feet to --- feet, and from --- feet to --- feet

DATES

Abandoned February 7th, 1956 Put to producing abandon, 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

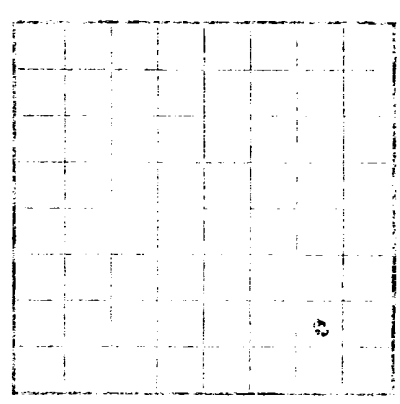
H. H. Ray, Driller J. L. Elsen, Driller
W. H. Dale, Driller ---, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1050		Tertiary
1050			Ojo Alamo
1322			Hirtland-Fruitland
1600			Pictured Cliffs
2005			Mesaverde
3120			Mencfee
3952			Point Lookout
4030			Mancos
5130			Gallup
5555			Togito-Sanastee
5895			Greenhorn
5930			Graneros
6103			Lakota
6270			Morrison
7125			Todilto
7132			Entrada

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL



The information given herewith is a complete and correct record of the well and all work done thereon. It is to be maintained in a permanent form and shall be available for reference.

Signature: _____
Date: February 1, 1920

Oil or Gas Sands or Zones
Important Water Sands
Remarks

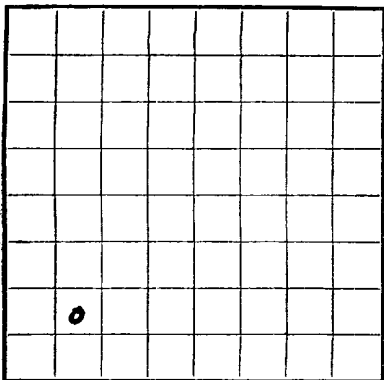
It is of the greatest importance to have a complete history of the well. Please state in detail the dates of redrilling, together with the reasons for the work and its results. If there were any changes made in the casing, state fully, and if any casing was "sidetracked" or left in the well, give its 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.

FROM-	TO-	TOTAL FEET	FORMATION
DST #1	1586 - 1624	Open 1 1/2 hrs. Shut in 30 min. Rec. 450' drilling mud. IFF 290#, RFP 290#, SIP 495#	
DST #2	3678	Mis-run	
DST #3	3678	Open 1 1/2 hrs. Shut in 30 min. Rec. 100' drilling mud, 1100' slightly brackish & gas cut, water. -- IFF 200, RFP 180, SIP 1120	
DST #4	3916	Mis-run	
DST #5	3966	Open 2 hrs. Shut in 30 min. Rec. 15' free oil, 105' gas cut drilling mud. IFF - 0, RFP 100, SIP 1040	
DST #6	4016	Open 2 hrs. Shut in 30 min. Rec. 125' slightly gas cut drilling mud, 150' mud cut slightly. IFF - 0, RFP 180, SIP 1240	
DST #7	4098	Open 1 hr. Shut in 30 min. Rec. 5' very slightly gas cut mud. IFF - 0, RFP - 0, SIP - 560	
DST #8	5175	Open 1 hr. Shut in 30 min. Rec. 5' slightly oil cut mud. IFF - 0, RFP - 0, SIP - 0	
DST #9	Mis-run		
DST #10	6225	Open 1 hr. Shut in 1 hr. Rec. 1950' gas & water cut mud, 550' gas & mud cut water. IFF 150 RFP 900. SIP 2500	
DST #11	6160	Open 3 hrs. 20 min. Shut in 30 min. Gas to surface in 22 minutes. Rec. 100' water & gas cut mud, 1020' mud & gas cut water. IFF 125, RFP 100, SIP 2250.	
DST #12	7166	Open 4 1/2 min. Shut in 30 min. Rec. 500' muddy water, 5500' black sulphur water. IFF 1550, RFP 12875, SIP 2900	
Core #1	1501	Rec. 17' dark grey shale with streaks of coal.	
Core #2	1624	Rec. 4' sandstone	
Core #3	7120	Rec. 21' brown anhydritic limestone. 44' grey sandstone.	

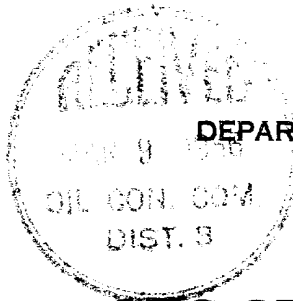
Navajo Allotted
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(Derrick floor relative to sea level)

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.

Date February 15th, 1956

Signed Curtis Hancock Title Regional Supervisor

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

Commenced drilling November 13, 1955 Finished drilling December 28, 1955

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 _____

IMPORTANT WATER SANDS

No. 1, from none 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—	
<u>10-3/4</u>	<u>32.75</u>		<u>CFA-I</u>	<u>100'</u>	<u>Baker</u>	<u>-----</u>	<u>---</u>	<u>---</u>	<u>Surface</u>
<u>5-1/2</u>	<u>15.50</u>	<u>8</u>	<u>CFA-I</u>	<u>6310'</u>	<u>Baker</u>	<u>-----</u>	<u>See exhibit A</u>	<u>vesting</u>	
HISTORY OF OIL OR GAS WELL									

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
<u>10-3/4</u>	<u>400'</u>	<u>175</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>
<u>5-1/2</u>	<u>6310'</u>	<u>250</u>	<u>-----</u>	<u>-----</u>	<u>-----</u>

PLUGS AND ADAPTERS

Heaving plug—Material Cement Length 100' Depth set 6425'
Adapters—Material ----- Size -----

SHOOTING RECORD

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

TOOLS USED

Rotary tools were used from Surf. feet to 7166 feet, and from --- feet to ----- feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

Abandoned February 7th, 1956 Put to producing abandon, 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

H. H. Ray, Driller J. L. Elsen, Driller
W. L. Dale, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>1050</u>		<u>Tertiary</u>
<u>1050</u>			<u>Ojo Alamo</u>
<u>1322</u>			<u>Hirtland-Fruitland</u>
<u>1600</u>			<u>Pictured Cliffs</u>
<u>2005</u>			<u>Mesaverde</u>
<u>3120</u>			<u>Menefee</u>
<u>3952</u>			<u>Point Lookout</u>
<u>4030</u>			<u>Mancos</u>
<u>5130</u>			<u>Gallup</u>
<u>5555</u>			<u>Tocito-Samastee</u>
<u>5895</u>			<u>Greenhorn</u>
<u>5930</u>			<u>Graneros</u>
<u>6103</u>			<u>Dakota</u>
<u>6270</u>			<u>Morrison</u>
<u>7125</u>			<u>Todilto</u>
<u>7132</u>			<u>Entrada</u>

Location of well: _____
Name of well: _____
Date of completion: _____
The information given between is a complete and correct record of the well and all work done thereon.
The information can be obtained from all available records.

Oil or gas sands or zones
Interval water sands
Interval water sands
Interval water sands

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.

FROM-	TO-	TOTAL FEET	FORMATION
DST #1	1586	1624	Open 1 1/2 hrs. Shut in 30 min. Rec. 450' drilling mud. IFF 290#, RFP 290#, SIP 495#
DST #2	3678		Open 1 1/2 hrs. Shut in 30 min. Rec. 100' drilling mud, 1100' slightly brackish & gas cut, water. -- IFF 200, RFP 580, SIP 1120
DST #4	3916		Open 2 hrs. Shut in 30 min. Rec. 15' free oil, 105' oil & gas cut drilling mud. IFF - 0, RFP 100, SIP 1040
DST #6	3966	4016	Open 2 hrs. Shut in 30 min. Rec. 125' slightly gas cut drilling mud, 150' mud cut slightly. IFF - 0, RFP 180, SIP 1240
DST #7	4098		Open 1 hr. Shut in 30 min. Rec. 5' very slightly gas cut mud. IFF - 0, RFP - 0, SIP - 560
DST #8	5175		Open 1 hr. Shut in 30 min. Rec. 5' slightly oil cut mud. IFF - 0, RFP - 0, SIP - 0
DST #9			Mis-run
DST #10	6225		Open 1 hr. Shut in 1 hr. Rec. 1050' gas & water cut mud, 2150' gas & mud cut water. IFF 450 RFP 900. SIP 2500
DST #11	6160		Open 3 hrs. 20 min. Shut in 30 min. Gas to surface in 22 minutes. Rec. 180' water & gas cut mud, 1020' mud & gas cut water. IFF 125, RFP 100, SIP 2250.
DST #12	7166		Open 4 1/2 min. Shut in 30 min. Rec. 500' muddy water, 5500' black sulphur water. IFF 2350, RFP 2875, SIP 2900
Core #1	1501		Rec. 17' dark grey shale with streaks of coal.
Core #2	1624		Rec. 4' sandstone
Core #3	7120		Rec. 2' brown amygdalitic limestone. 14' grey sandstone.



EXHIBIT "A"

TRIAS No. 1 - SALT VALLEY, ILLINOIS

PRODUCTION COMPANY

Ran 6310' 15.50% - 5 1/2" casing, cemented with 250 sacks, with no returns.

Set Baker staging tool on top of 100th joint from bottom, 150 sacks at 4000'. Ran temperature survey, found cement good on both jobs. Picked up tubing, measured in hole, found top of plug and float collar at 6280' by tubing measurements. Tubing being used 200 joints, 6275', 5 joints on back side of pipe rack not being used in string.

Perforations - bottom 6208 - 6222', 6 shots per foot jets. Upper perforations, 612' - 6144', 6 shots per foot jets. Perforated by McCollough. These perforations were shot from Gamma-ray log. Ran Halliburton packer set at 6180' open packer, had good blow 30 min. and died. Prepared to acidize and sand frac. Ran 250 gallons of mud acid, pressured up and found communication between two perforations. Released packer from 6180'. Reset at 6095', broke down formation 3200% and fraced with 7500% sand, 7500 gallons water at 3200% pressure, 5-1/2 barrels per minute. Let set 12 hours and started swabbing. Ran swab about 10 times - swab sanded up in tubing. Released packer, came out of hole, went back in hole with bit, found top of sand 154' of bottom or 6124'. Cleaned out sand, ran packer back in hole, set packer 6095', started swabbing well 3000' down, tubing sanded up. Released packer, came out of hole, found 4 singles of tubing sanded completely up. Went back in with bit, found 25' of sand on bottom. Went back in hole with packer, set 6095', swabbed 22 hours, estimated 10 barrels per hour of salt water, with gas shows when pulling swab.

Released packer, came out of hole, set Baker bridging plug 6180', went back in hole with squeeze tool, set tool above top perforations and squeezed with 185 sacks, pressure 6000%, let cement set 24 hours, drilled out to top of plug, made dry test, had good blow 20 minutes and died. Left test tool open 1-1/2 hours closed tool, came out of hole, recovered 1600' salt water. Resqueezed perforations 6128'-6144' with 75 sacks, 6000% pressure, let set 24 hours and drilled out both retainers to total depth 6275'. Pulled out, ran Baker reamer in 5-1/2" casing to bottom. Pulled out, put on Halliburton packer, set 6180'. Open test tool had strong blow of air for 1 hour.

Rigged up and started swabbing. Swabbed 5 hours swabbed salt water, no oil or gas shows. Pulled out of hole with test tool, went back in hole with squeeze tool. Set tool 6190, squeezed perforations from 6208'-6222' with 190 sacks 4500% pressure. W.L.C. top cement plug 6185'.

Drilled cement from 6180' to 6275'. Made dry test on perforations 6208'-6222' for 30 minutes with no blow. Perforated with McCollough jets, 4 shots per ft. from 6208' - 6219', and from 6128' - 6144'. Tested perforations 6208' - 6219' with Halliburton L.H. packer. Tool opened 1/2 hour, no blow. Pulled out of hole and perforated with Lane Wells "L" gun with 50 holes from 6208' - 6219'. Tested perforations with Halliburton L.H. packer. Tool open 1/2 hour with good blow.

Swabbed salt water with a trace of gas for 2 hours. Came out of hole with H. B. packer. Set H. B. bridge plug at 6195' and squeezed perforations 6208'-6219' with 46 sacks Halliburton slow-set cement with 4500# pressure. Set Halliburton H. B. packer at 6189' and tested perforations 6128'-6144'. Pulled two swabs and lost swab in hole. Reversed circulation and recovered salt water. Pulled H. B. Packer out of hole and went in hole with H. B. C. squeeze tool. Pumped out 40 sacks cement into formation with 3200' pressure, and squeeze tool started leaking, reversed out 60 sacks and came out of hole with tool. Drilled out to 6195' after 24 hours.

Perforated from 6128' -6144' with 64 jet shots. Set Halliburton H. B. packer at 6109' and waited on swab unit for 24 hours. Swabbed well for 18 hours. Recovered salt water with trace of gas. Swabbed fluid from 4000'. Set Halliburton H. B. Bridge plug at 6109' and squeezed out 25 sacks cement w/4500# pressure into perforations 6128' -6144'. Perforated with 2 shots at 5686' and set H.B.C. squeeze tool at 5673' and squeezed out 75 sacks cement w/2000#. Set H.B.C. squeeze at 5567' and squeezed out 100 sacks cement into perforations 5660-5661' w/3800# pressure. Drilled out to 5711'. Set Halliburton hookwall packer at 5620' for dry test. Left tool open for 55 minutes, recovered 300' water. Shut in pressure, 785#, I.P. 14%, F.P. 130#. Set Halliburton H.B. squeeze packer at 5619' and squeezed out 145 sacks cement into perforations 5660' -5661' and 5686' -5687' w/1200#. Drilled out D.B. packer and cement to 5680'. Made dry test with Halliburton packer at 5637'.

Perforated from 5671' -5677' with 24 jet shots. Set Halliburton hookwall packer at 5655' to test perforations 5671' -5677'. Recovered 97' heavily oil cut water on 18 hour test. Set H.B. packer 5650' to sand frac perforations 5671' -5677', however, formation would not break down with 6000# pressure. Pulled out of hole and set Halliburton H.B. bridge plug at 5549'. Squeezed with 25 sx. w/6,000#. Perforations 3922-3923' with 2 shots. Set Halliburton H.B.C. squeeze tool at 3873' and squeezed out 170 sacks cement into perforations 3922' -3923' w/3200# pressure. Drilled out to 3920' and perforated from 3912' -3916' with 24 jet shots. Set Halliburton test tool at 3883' and left tool open 7 hours. Recovered 216' sulphur water. I.P. 15%, F.P. 90%, S.T.P.

Set Halliburton H.B. packer at 3883'. Broke formation w/3000# pressure. Pumped in at 3400#. Started loose sand frac w/1 1/4" sand per gallon. When sand hit formation the sand blocked the perforations. Put 7200# on tubing, however, the formation would not take the frac. Pulled out of hole and washed to bottom. Set Halliburton H.B. packer at 3899' and swabbed at the rate of 1/2 barrel of water with 20% oil per hour for 51 hours. Set Halliburton H.B. bridge plug at 3857' and cemented w/50 sacks cement w/4600# pressure. Set cement plug from surface to 92', w/50 sx and filled space between 5 1/8" casing and 10-3/4" w/cement.