

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 073734
LEASE OR PERMIT TO PROSPECT

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UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED

JAN 28 1953

LOG OF OIL OR GAS ^{U. S. GEOLOGICAL SURVEY}WELL _{PARTINGTON, N. M.}

U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.

Company Salpa A. Johnston Address 1458 Esperson Bldg.
Lessor or Tract Pincon Unit Field Wildcat State New Mexico
Well No. 1 Sec. 30 T. 27N R. 6E Meridian NMPM County Rio Arriba
Location 990 ft. (N) of 0 Line and 990 ft. (W) of E Line of Sec. 30 Elevation 6638 G

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 James N. Boyd and

Date January 27, 1953 Title Sup

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

Commenced drilling 7 / 24 1951 Finished drilling 4 / 21 1952

OIL OR GAS SANDS OR ZONES

(Denote gas by (Y))

G No. 1, from P.C. 4104' to 3200'	No. 4, from 7612' to 7700'
G No. 2, from E.V. 4775' to 5500'	No. 5, from _____ to _____
No. 3, from 7561' to 7612'	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—	
10 3/4"	32.75			494'	Halliburton				Surface
7"	23			7435'	Halliburton				Prod.
2"	4.7			7574'	Halliburton				Tubing

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4"	494'	200 bxs Ideal	Halliburton		
7"	7485'	200 bxs Ideal	Halliburton		

PLUGS AND ADAPTERS

Heaving plug—Material hydromite Length 36' Depth set 7701' to 7605'
Adapters—Material _____ Size _____

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
	5 "	CNG	365	4-18-52	7536' - 7532'	7600

TOOLS USED

Rotary tools were used from 0 feet to 7745 feet, and from feet to feet

Cable tools were used from 0 feet to 77 feet, and from feet to feet

DATES

4-11, 1952 Put to producing 27, 1952

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 600 M Gallons gasoline per 1,000 cu. ft. of gas _____
Back pressure, lbs. per sq. in. 2650

EMPLOYEES

----- Rotary -----, Driller ----- Cable Tools -----, Driller
 Page - Wood - Johnson -----, Driller Block - Cable -----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	2600	2600	Sands and sandy shales Wetsch and Fruitland
2600	3104	504	Sandy shale - Streak of coal Kirtland - Top 2600'
3104	3165	61	Pictured Cliff sand top 3104'
3165	4790	605	Lewis - sandy shale top 3165'
4790	5600	810	Alba Verde sands, coal and shale Top Cliff house 4790'
5600	7255	1655	Top Point lookout 5351' Mancos shale Top 5600'
7255	7770	65	Tecote sand 6935'- 6905'
7770	7850	30	Greenhorn lime Top 7255
7850	7612	262	Grenadas shale
7612	7745	133	Dakota sands and shales Top 7350
7745	Total depth		Morrison sands and shales Top 7612

Consolidated Night Analysis of all cores on attachment. These core members are missing there was no recovery.
Consolidated results of all drill stem tests on attachment.
Copies included of electric log by Schlumberger Well logging Service.
Copies included of Core Laboratory Companies "Sonograph".

FORMATION RECORD—Continued[illegible]

HISTORY OF OIL OR GAS WELL

16-49024-1

U. S. GOVERNMENT PRINTING OFFICE

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.

Spudded at 6:30 AM on July 24, 1951. Drilled 13 3/4" rotary hole to depth of 506' (rotary measurements 10' above ground). Cemented 494', 10 3/4", 2.75" casing with 200 sxs Ideal cement and circulated out 7/25/51. Drilled plug, closed rams on BQ, pressured up to 500' and held 30 min on 7/28/51. Drilled 8 3/4" rotary hole to a depth of 745 feet. 7465 to 7745 = 7 3/8" hole was cored and drilled. Ran 7485' of 7", 23' casing on 10/3/51. Cemented same with 200 sxs Ideal regular cement. 72 hrs later drilled first collar and cement down to plug, closed rams, pressured up to 1000' and held same for one hour. Plugged back to 7073 with 38 sacks of slow set cement. Spotted a plastic plug on top of cement plug and washed open hole with 500 gallons of 7 1/2% acid solution. Ran 2 3/8" ID 4.7" tubing and landed at 7676'. Swabbed tubing down to approximately 1000' and well started unloading and cleaning itself. At end of 24 hrs of shut in and blowing tubing became plugged - no remedial measures were successful at unplugging. Max. pressure T 2176 and C 2250'. Further blowing indicated bridges above tubing perforations. Moved off rotary tools and moved on workover rig. Pulled tubing found bottom joint plugged full bentonite shale. Went in with cable tool found water 600' from top. Cleaned out bridges in open hole. Ran Dowell Photo Electric Water Locater found entry from 7640 to 7662. Bailed down to 5000' and drilled cement plug out to 7701 hole immediately filled up water. Ran Gyromite plug back up to 7605. Bailed hole down stayed dry. Shot open with 135 qts of ENG - 7536 to 7538. Cleaned out very well to 7600 no water in evidence. Ran 2" tubing to 7574. Shut in well and moved off workover rig. Ran 2- 8 hr tests, 1-16 hr test, and 1-24hr test. After 8 hours of blowing through 1 1/4" choke with 500' of h-c pressure well made 600 MCTPD with very little hydrocarbon liquid and no water. Longer tests than 8 hours were repetitions of the 8 hour test. Well has been left shut in since.

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WASHINGTON, D. C.
OFFICE OF THE ATTORNEY GENERAL
JAN 22 1953

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LOG OF OIL OR GAS WELL

History of Oil or Gas Well

Ralph A. Johnston's
Rincon Unit Abraham #1
Santa Fe - 079364

Drill Stem Tests:

- #1 - TD 5523, Packer 5523
Open 5 hours - fair blow of air throughout, Bottom Hole Flowing
Pressure 1700#.
Shut in 30 minutes, build up to 1625#, still building up when pulled.
Initial and final mud pressure 2650#.
Recovered 1500' Gas Cut mud.
- #2 - TD 6870, Packer 6785
Open 2 hours, steady blow of air for 1 hour, died, no pressure build up.
Shut in
Initial mud pressure 3700#.
Final mud pressure 3500#.
Recovered 10' drilling mud.
Initial flowing pressure 27#.
Final flowing pressure 20#.
- #3 - TD 6946, Packer 6886
Open 2 hours, medium blow of air.
Closed tool 30 minutes, 45#
Initial mud pressure 3356#
Final mud pressure 3328#.
Initial flowing pressure 40#.
Final flowing pressure 40#.
- #4 - TD 7328, Packer 7371.
Open 3 hours, hard blow immediately.
Gas 13 minutes, increased throughout test at rate of approximately
10 MCF per hour.
End of test 70 MCF.
Closed one hour build up 2880#.
Recover 340' gas cut drilling mud.
Initial mud pressure 3900#.
Final mud pressure 3900#.
Initial flowing pressure 137#.
Final flowing pressure 137#.
- #5 - TD 7745, Packer 7600
Open 2 1/2 hours, good blow.
Gas 35 minutes, very weak.
Closed 45 minutes, build up 3300#. Recovered 390' of drilling fluid
and 7200' of fresh water.
Initial and Final mud pressure 3852#.
Initial flowing pressure 2099#.
Final flowing pressure 3335#.

#6 - Hook wall packer set at 7453. ~
Tool open 3 hours, very hard blow for 10 minutes then died quickly.
Pulled tool, recovered 13 stands of very heavy thick mud highly
gas cut.
Bottom joint of 13 th stand plugged tight.
Pulled 1 more full stand of same mud, then double over top of tool.
Top joint of double plugged, half of this and next, or bottom joint,
full fresh water.
Hydrostatic 3550#.
Flowing bottom hole pressure 675#.

Derrick Floor Sight Analysis of Cores:

- Core #1 3098 - 3113 Recovered 10', Cored 15'.
Top 5' not recovered.
1' Black rotten coal, brown to tan bentonitic shale.
1' Grey carbonaceous fine grained sand.
6' Grey fine grained salt and pepper sand, fine thin carbonaceous
partings, gas odor on fresh break.
3104 Top of Pictured Cliffs.
- Core #2 3113 - 3131 Recovered 2 1/2', Cored 16'.
2 1/2' Grey fine grained salt and pepper sand, very hard and
tight, gas odor on fresh break.
- Core #3 & 4 No recovery
- Core #5 5325 - 5335 Recovered 5' 6", cored 10'.
5' Grey very hard fine grained salt and pepper sand, slight
gas odor on fresh break.
6" Coal with streaks of hard black carbonaceous sand.
- Core #6 5341 - 5349 Recovered 8', Cored 8'.
2' 6" Coal
1' 9" Shaley sand
2" Coal
16 5" Fine grained tight sand
10" Shaley sand
1' 1" Shale and sandy shale
- Core #7 5349 - 5359 Recovered 10', Cored 10'.
2' Black carbonaceous shale and coal grading into carbonaceous
sand.
1' Hard fine grained slightly carbonaceous sand.
7' Hard fine grained quartz sand with strong gas odor on fresh
break, core bleeding gas.
Top Point Lookout 5352'.
- Core #8 5364 - 5423 Recovered 58', Cored 59'.
58' Hard fine grained salt and pepper sand, some fractures, very
tight, some carbonaceous shale partings, gas odor, lower 10' high-
ly fractured and very prolific bleeding.

Core #9 6884 - 6862 Recovered 58', Cored 58'.

8" Medium grained clean quartz sand, angular to subangular with shale fragments and glauconites.

57' 4" Black calcareous shales, slightly silty, scattered sand streaks and inclusions.

Core #10 7350 - 7398 Recovered 48', Cored 48'.

11' Black sandy carbonaceous shales streaked with fine grained sand.

23' Dark grey very fine grained hard tight sand, vertically fractured and slightly bleeding gas, no odor.

7384 4' Hard sandy black carbonaceous shales.

10' Grey brown very fine grained hard tight sand, vertically fractured with strong gas or oil odor and brown oil staining.
Top Dakota 7381.

Core #11 7398 - 7440 Recovered 40', Cored 41'.

6' Black very sandy slightly carbonaceous shales, vertically fractured, very slight odor and bleeding gas from fractures.

8' Very sandy black carbonaceous shale.

14' Black silty slightly carbonaceous shale.

13' Black silty carbonaceous shale with fine gray sand streaks in inclusions, no shows.

Core #12 7440 - 7455 Recovered 15', Cored 15'.

10' Black sandy carbonaceous shale.

Core #13 7455 - 7497 Recovered 42', Cored 42'.

19' Black very silty sandy, slightly calcareous shale, especially sandy in lower 4'.

7474 11' Very fine grained hard tight slightly calcareous, slightly silicious quartz sand, bleeding very slightly, highly fractured.

12' Fine to medium fine grained quartz sand, slightly silicious, fractured and bleeding from fractures.

Core #14 7497 - 7544 Recovered 47', Cored 47'.

21' Black silty carbonaceous shale.

10' Medium to fine grained sand, vertically and horizontally fractured, bleeding slightly.

6' Shale

10' Medium to coarse grained sand, good odor and stain and slightly bleeding gas, bottom 2' more coarse.

Core #15 7544 - 7596 Recovered 35', Cored 34'.

19' Top core missed.

25' Fine to medium grained quartz sand, vertically and horizontally fractured. Good odor on Fresh break, spotted brown stain, fluoresced.

6' Black carbonaceous sandy shale.

2' Hard medium grained sand, slight green coloring, slight odor.

2' Very soft porous white even grained round sand, large chert pebbles.

Core #16

7596 - 7607 Recovered 6', Cored 9'.

4' 6" Coarse grained white conglomerate, calcareous white
quartz sand, large chert pebbles.

1' 6" Dark grey green carbonaceous shale.

3' Bottom missed.