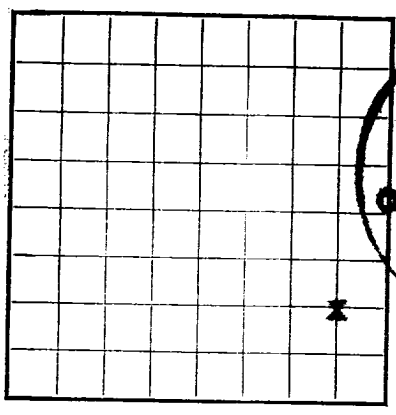
Form 9-330

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 04444 A
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company J. R. Abraham Address 224-1st National Bank Bldg

Lessor or Tract ____ Field Horseshoe State New Mexico

Well No. 5 Sec. 9 T. 30N R. 16W Meridian NMPM County San Juan

Location 2182 ft. {N./S.} of S Line and 534 ft. {E./W.} of E Line of Section 9 Elevation 5422
(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 Oscar Abraham

Date Sept-16-1959 Title ____

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

Commenced drilling Aug-7, 1959 Finished drilling Aug-28, 1959

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1332 to 1358 No. 4, from 1446 to 1454

No. 2, from 1377 to 1389 No. 5, from 1461 to 1469

No. 3, from 1430 to 1436 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 From—	Perforated To—	Purpose
9-5/8	40	8 R D	J N L	90					Surface
7	23	8 R D	J N L	1512			1315		Prod
2	4.7	8 R D	J-55	1340					Prod Tby

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	90	60	Halliburton		
7	1512	140	B-J Service		

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 ____ feet, and from ____ feet to ____ feet

Cable tools were used from 0 feet to 1512 feet, and from ____ feet to ____ feet

Sept-16-1959, 19__ Put to producing Sept-16-1959, 19 59

The production for the first 24 hours was 645 barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment.

Gravity, °Bé. 40

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

____, Driller ____, Driller

Grossman Drilling Co, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	770	770	Shale - Water
770	805	35	Water Sand
805	1210	405	Shale
1210	1220	10	Oil Sand
1220	1290	70	Shale
1290	1332	42	Shale -Oil Sand
1332	1358	26	Oil Sand
1358	1377	19	Shale
1377	1389	12	Oil Sand
1389	1430	41	Shale
1430	1436	6	Oil Sand
1436	1446	10	Shale
1446	1454	8	Oil Sand
1454	1461	7	Shale
1461	1469	8	Oil Sand
1469	1512	43	Shale

Top Gallup- 1290

[OVER]

16—43094-3

FOLD | MARK

Form 9-330

Budget Bureau No. 42-R-355.3.
Approval expires 12-31-55.

U. S. Land Office Santa Fe
Serial Number 04444 A
Lease or Permit to Prospect

RECEIVED SEP 22 1959 OIL CON. COM. DIST. 3

LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company J. S. Abraham Address 224-1st National Bank Bldg

Lessor or Tract Field Horseshoe State New Mexico

Well No. 1 Sec. 5 T. 30 R. 16W Meridian N.M.P.M. County San Juan

Location 2145 ft. S of S Line and 534 ft. E of E Line of Section 5 Elevation 5422 (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 Paul Abraham

Date Sept-16-1959 Title

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

Commenced drilling Aug-7, 1959 Finished drilling Aug-26, 1959

OIL OR GAS SANDS OR ZONES
(Denote gas by G)

No. 1, from 1332 to 1356 No. 4, from 1446 to 1454

No. 2, from 1377 to 1389 No. 5, from 1461 to 1469

No. 3, from 1430 to 1436 No. 6, from to

IMPORTANT WATER SANDS

No. 1, from to No. 3, from to

No. 2, from to No. 4, from to

HISTORY OF OIL OR GAS WELL

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.

9-10-59. C.O.T.D. 1512'. Perf. Gallup W/4 shot to the foot 1332-1356, 1377-1389, 1430-1436, 1446-1454, 1461-1469. Frac with 40000 lb sand and 42000 gallons oil. Perf 1332-1356 1377-1389, then broke it down with 5000 gallons oil. Pressure 2950, then back to 1900, then went back in and Perf the rest of the pay, and sand oil frac, broke down at 1350 then went 750, then we put in 100 balls, pressure went to 1100 then back to 900, then 25 more balls, pressure 1500 then back 1400 lb, then we put in 25 more 143 balls, then pressure went to 2350 then went back between 1800 to 1900 lb. Flushed with 7500 gallons oil 1 R 1443 2 B.P.M. Swabbed back about 300 barrels oil then well began to flow. Recovered load oil. Well then flowed 108 B.O. in 4 hrs Setting Pump

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	90	65	Halliburton		
7	1512	140	B-J Service		

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 feet, and from feet to feet

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

DATES

Sept-16 - 1958, 19 Put to producing Sept-16-1958, 19 58

The production for the first 24 hours was 54 barrels of fluid of which 100% was oil; % emulsion; % water; and % sediment. Gravity, °Bé. 40

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

, Driller , Driller

Grossman Drilling Co, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	770	770	Shale - water
770	805	35	Water sand
805	1210	405	Shale
1210	1220	10	Oil Sand
1220	1250	30	Shale
1250	1332	82	Shale - Oil Sand
1332	1359	27	Oil Sand
1359	1377	18	Shale
1377	1389	12	Oil Sand
1389	1430	41	Shale
1430	1436	6	Oil Sand
1436	1446	10	Shale
1446	1454	8	Oil Sand
1454	1461	7	Shale
1461	1469	8	Oil Sand
1469	1512	43	Shale

Top Gallup - 1290

FOLD MARK

FORMATION RECORD—Continued

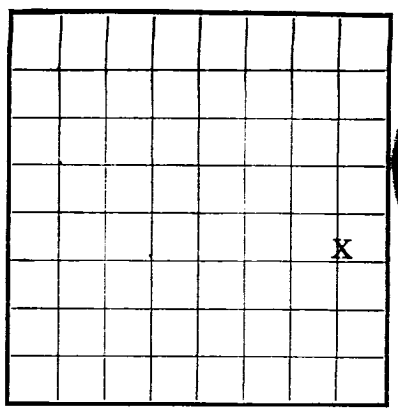
FROM—	TO—	TOTAL FEET	FORMATION

[OVER] 16—43094-3

Form 9-330

Budget Bureau No. 42-R355.4.
Approval expires 12-31-60.

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 04444-A
LEASE OR PERMIT TO PROSPECT



LOCATE WELL CORRECTLY

RECEIVED JAN 8 1960 OIL CON. COM. DIST. 3

RECEIVED JAN 7 1960 U. S. GEOLOGICAL SURVEY FARMINGTON, NEW MEXICO

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company J.R. Abraham Address 224-1st National Bank Bldg, Alb, N.M.

Lessor or Tract _____ Field Horseshoe State New Mexico

Well No. 5 Sec. 9 T. 30N R. 16W Meridian N.M.P.M. County San Juan

Location 2182 ft. {N./S.} of S Line and 534 ft. {E./W.} of E Line of Section-9 Elevation 5422
(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 Oscar Abraham

Date Sept-16-1959 Title _____

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

Commenced drilling Aug-7, 1959 Finished drilling Aug-28, 1959

OIL OR GAS SANDS OR ZONES

(*Denote gas by G*)

No. 1, from 1332 to 1358 No. 4, from 1446 to 1454

No. 2, from 1377 to 1389 No. 5, from 1461 to 1469

No. 3, from 1430 to 1436 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 From—	Perforated To—	Purpose
8-5/8	24	8 R.D.	J-N-J	90					Surface
7"	20	8 R.D.	J-55	1512			1342	1408	Prod Thy
2"	4.7	8.R.D.	J-55	1340					Prod Tby

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	90	60	Halliburton		
7"	1512	140	B-J-Service		

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
		See Well History				

TOOLS USED

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

Cable tools were used from 0 feet to 1512 feet, and from _____ feet to _____ feet

DATES

Sept-16, 1959 Put to producing Sept-16, 1959

The production for the first 24 hours was 648 barrels of fluid of which 100 % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. 40

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

Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Grossman Drilling Co, Driller _____, Driller

_____, Driller _____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	770	770	Shale-Water
770	805	35	Water Sand
805	1210	405	Shale
1210	1220	10	Oil Sand
1220	1290	70	Shale
1290	1332	42	Shale-Oil Sand
1332	1358	26	Oil Sand
1358	1377	19	Shale
1377	1389	12	Oil Sand
1389	1430	41	Shale
1430	1436	6	Oil Sand
1436	1446	10	Shale
1446	1454	8	Oil Sand
1454	1461	7	Shale
1461	1469	8	Oil Sand
1469	1512	42	Shale
Top Gallup-	1290		

FOLD | MARK

(OVER)

16—43094-4

Budget Bureau No. 42-R356.4.
Approval expires 12-31-60.

Form 9-330

U. S. LAND OFFICE Santa Fe
SERIAL NUMBER 044-A
LEASE OR PERMIT TO PROSPECT

RECEIVED

U. S. GEOLOGICAL SURVEY
FARMINGTON, NEW MEXICO

RECEIVED JAN 8 1960 OIL CON. COM. DIST. 3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOCATE WELL CORRECTLY

LOG OF OIL OR GAS WELL

Company J. R. Abraham Address 204-1st National Bank Bldg, Alb, N. M.

Lessor or Tract ____ Field Horseshoe State New Mexico

Well No. ____ Sec. ____ T. 30N R. 16W Meridian N. M. P. M. County San Juan

Location 1112 ft. N/S of S Line and 334 ft. E/W of E Line of Section ____ Elevation 5422 (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 [signature]

Date Sept-16-1959 Title ____

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

Commenced drilling Aug-7, 19 59 Finished drilling Aug-2, 19 59

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 1322 to 1328 No. 4, from 1446 to 1454

No. 2, from 1377 to 1382 No. 5, from 1461 to 146[illegible]

No. 3, from ____ to ____ No. 6, from ____ to ____

IMPORTANT WATER SANDS

No. 1, from ____ to ____ No. 3, from ____ to ____

9-10-1959. C.O.T.D. 1512'. Perf Casing with 4 shots to the foot. 1323-1328. 1377-1382. 1430-1436. 1446-1454. 1461-1463. Frac with 40000 lb sand and 42000 gallons oil. Broke down at 2250 then back to 1300 lb, then went to 750 lb, then put in 120 balls at three different times. 100 then 25 then 25. Pressure went 1700 to 2300 lb. Flushed with 1200 gallons oil. I.R. 48.2 B.P.M. Swabbed 200 barrels oil then well begun to flow. Recovered load oil. Well then flowed 108 barrels in 4 hours. Then set pump.

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	Perforated From—	Perforated To—	Purpose
2"	4.7	8 R.D.	J-55	1346					Prod Tb

HISTORY OF OIL OR GAS WELL

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.

16—43094-2 U. S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
8-5/8	90	60	Halliburton		
7"	1512	140	B-J-Service		

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
		See Well History				

TOOLS USED

Rotary tools were used from ____ feet to ____ feet, and from ____ feet to ____ feet

Cable tools were used from 0 feet to 1512 feet, and from ____ feet to ____ feet

DATES

Sept-16, 19 59 Put to producing Sept-15, 19 59

The production for the first 24 hours was 54 barrels of fluid of which 100 % was oil; ____ % emulsion; ____ % water; and ____ % sediment. Gravity, °Bé. 42

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

Rock pressure, lbs. per sq. in. ____

EMPLOYEES

Crossman Drilling Co, Driller ____, Driller

____, Driller ____, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	770	770	Shale-Water
770	805	35	Water Sand
805	1310	405	Shale
1310	1326	[illegible]	Oil Sand
1326	1330	[illegible]	Shale
1330	1332	[illegible]	Shale-Oil Sand
1332	1358	[illegible]	Oil Sand
1358	1377	[illegible]	Shale
1377	1384	[illegible]	Oil Sand
1384	1430	46	Shale
1430	1436	[illegible]	Oil Sand
1436	1446	[illegible]	Shale
1446	1454	[illegible]	Oil Sand
1454	1461	[illegible]	Shale
1461	1463	[illegible]	Oil Sand
1463	1512	49	Shale

Top Gallup—1280

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION

[OVER] 16—43094-4