

[illegible]

U. S. LAND OFFICE N. M.
SERIAL NUMBER 03011
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company J. Felix Hickman Address 2929 Monte Vista Blvd. NE
Lessor or Tract Clark Field Undesignated State New Mexico
Well No. 4 Sec. 5 T. 24N R. 3W Meridian NM County Rio Arriba
Location 990 ft. [N.] of S Line and 990 ft. [E.] of W Line of Sec. 5 Elevation 6996
xx xx (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 Jay J. Harris
Jay J. Harris
Date 7-24-56 Title Geologist

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

Commenced drilling ~~4-22~~-----, 19-56 Finished drilling -----5-12-----, 19-56

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

No. 1, from 3212 to 3273-G 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 _____ to _____

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8"	163'	125	Halliburton		
5-1/2"	3274'	150	Halliburton		

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
Sand water fractured from 3222 to 3268						

TOOLS USED

Rotary tools were used from 0 feet to 3277 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

7 31/56 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 _____ MCF Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. _____

EMPLOYEES

Empire States	Driller	Driller
	Driller	Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3100	3215	115	Fruitland
3215	3273	58	Pictured Cliffs

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

[illegible]

LOCATE WELL CORRECTLY

1.06 OF OIL OR GAS WELL

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 _____

Title _____

Location of _____ ft. _____ of _____ line and _____ ft. _____ of _____ line of _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____

Lessor or Tract _____

Field _____ State _____

Company _____

Address _____

Commenced drilling _____, 19____ Finished drilling _____, 19____
The summary on this page is for the condition of the well at above date.
Date _____ Title _____

OIL OR GAS SANDS OR ZONES

(Dennis and G)

[illegible]

CASING RECORD

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.						
Casing Size	Weight per foot	Threads per inch	Mk	Amount	Kind of shoe (oil and pulled from)	Perforated
					From	To - Purpose

HISTORY OF OIL OR GAS WELL

MUDGING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

Quantity	Material	Weight	Depth
1	Heaving plug	1 lb.	10 ft.
1	Adapters	1 lb.	10 ft.
1	Size	1 lb.	10 ft.

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
6 inch	Shrapnel	Dynamite	10 lbs.	Aug 10, 1917	10 ft.	10 ft.

TOOLS USED

Rotary tools were used from	feet to	feet and from	feet to
Chisel tools were used from	feet to	feet and from	feet to

DATE

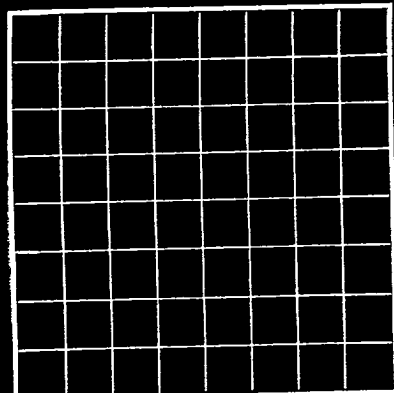
It was well out for 24 hours. 0.14	emulsion; 2% water; and 2% sediment.	Put to producing
The production for the first 24 hours was	barrels of fluid of which 5% was oil; 5%	19
Gallons kerosene per 1,000 cu. ft. of gas	Gravity, 28.4	

EMPLOYEES

Driller		Driller	
Driller		Driller	

FORMATION RECORD

FROM -	TO -	TOTAL FEET	FORMATION
1500	1475	25	CLAYSTONE
1475	1450	25	CLAYSTONE



U. S. LAND OFFICE N. M.
SERIAL NUMBER 03011
LEASE OR PERMIT TO PROSPECT -----

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company J. Felix Hickman Address 2929 Monte Vista Blvd. NE
Lessor or Tract Clark Field Undesignated State New Mexico
Well No. 4 Sec. 5 T. 24N R. 3W Meridian NMEM County Rio Arriba
Location 990 ft. {N.} of S Line and 999 ft. {E.} of W Line of Sec. 5 Elevation 6996
{S.} {W.} (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 ~~7-24-56~~

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

Commenced drilling ~~1-22~~, 19~~56~~ Finished drilling ~~5-12~~, 19~~56~~

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3212 to 3273 G

No. 2, from _____ to _____

No. 3, from _____ to _____

No. 4, from _____ to _____

No. 5, from _____ to _____

No. 6, from _____ to _____

IMPORTANT WATER SANDS

No. 1, from _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
9 5/8	30	8	J-55	162	Larkin				
5 1/2	14	8	J-55	162	Larkin				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	163	125	Halliburton		
5 1/2	3274	150	Halliburton		

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
Sand water fractured from 3222 to 3268						

TOOLS USED

Rotary tools were used from 0 feet to 3277 feet, and from _____ feet to _____ feet
Cable tools were used from _____ feet to _____ feet, and from _____ feet to _____ feet

DATES

7 31/56 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ barrels of fluid of which Shut in 5-12 _____
 emulsion; _____% water; and _____% sediment. _____% was oil; _____%
 Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 6194

Rock pressure, lbs. per sq. in. 1030

EMPLOYEES

-----, Driller
-----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3100	3215	115	Fruitland
3215	3273	58	Pictured Cliffs

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of white graph paper with a black grid pattern. The grid consists of 10 columns and 10 rows of squares. The paper is slightly tilted to the right.

LOCATE WELL CORRECTLY

Composed drilling _____ 19____
The summary on this page is for the condition of the well at above date. _____
Date _____

[illegible]

CASING RECORD

Size casing	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From -	To -	Purposes
-------------	-----------------	------------------	------	--------	--------------	---------------------	--------	------	----------

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.

HISTORY OF OIL OR GAS WELL

MILKING AND CEMENTING RECORD

[illegible]

PLUGS AND ADAPTERS

Adapters—Material	Size	Length	Weight
Heaving plug—Material			

SHOOTING RECORD

[illegible]

TOOLS USED

Rotary tools were used from	feet to	feet and from	feet to
Caliche tools were used from	feet to	feet and from	feet to

DATE

If gas well, cut ft. per 24 hours. 1000	emulsion; _____ of water; and _____ of sediment.	The production for the first 24 hours was _____	barrels of fluid of which _____ was oil.	Put to producing _____ 10
Gallons gasoline per 1,000 cu. ft. of gas _____ Gravity, Sp. Gr. _____				

EMPLOYEES

Drill _____		Differ _____
Drill _____		Differ _____

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
3100	3110	10	CLAY
3010	3020	10	CLAY

[illegible]

U. S. LAND OFFICE N. M.
SERIAL NUMBER 03011
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company J. Felix Hickman Address 2929 Monte Vista Blvd. NE
Lessor or Tract Clark Field Undesignated State New Mexico
Well No. 4 Sec. 5 T. 24N R. 3W Meridian NHEM County Rio Arriba
Location 990 ft. N of S Line and 990 ft. E of W Line of Sec. 5 Elevation 6996
Sec X (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 Jay J. Harris
Jay J. Harris
Title Geologist
Date 7-21-56

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

Commenced drilling ~~4-22~~-----, 19~~56~~ Finished drilling -----5-12-----, 19~~56~~

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3212 to 3273-G 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 _____ to _____

No. 2, from _____ to _____

No. 3, 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—	
5/8	36	8	J-55	163	Larkin				
5/8	36	8	J-55	327	Larkin				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9-5/8	163	125	Halliburton		
5 1/2	3274	150	Halliburton		

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
Sand water fractured from 3222 to 3268						

TOOLS USED

TOOLS USED

Rotary tools were used from 0 feet to 3277 feet, and from _____ feet to _____ feet

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

DATES

7 31/56 19____ Put to producing _____, 19____
 The production for the first 24 hours was _____ Shut in 5-12 _____ 56
 emulsion; _____% water; and _____% sediment. _____% was oil; _____%
 Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 6194 Gallons gasoline per 1,000 cu. ft. of gas -----
~~5,000~~ MCF

Rock pressure, lbs. per sq. in. 1020

EMPLOYEES

~~Empire States~~, Driller _____, Driller _____
_____, Driller _____, Driller _____

FORMATION RECORD

FORMATION RECORD			
FROM—	TO—	TOTAL FEET	FORMATION
3100	3215	115	Fruitland
3215	3273	58	Pictured Cliffs

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

A blank sheet of white graph paper with a black border. The grid consists of 10 columns and 8 rows of squares. The lines are thin and evenly spaced. There is no handwriting or other markings on the page.

LOCATE WELL CORRECTLY

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

Date _____

Title _____

(Denois das py G)

No. 1, from 75,000 gallons of water and 30,000 pounds of sand.
No. 2, from 75,000 gallons of water and 30,000 pounds of sand.
No. 3, from 75,000 gallons of water and 30,000 pounds of sand.
No. 4, from 75,000 gallons of water and 30,000 pounds of sand.
No. 5, from 75,000 gallons of water and 30,000 pounds of sand.
No. 6, from 75,000 gallons of water and 30,000 pounds of sand.
No. 7, from 75,000 gallons of water and 30,000 pounds of sand.
No. 8, from 75,000 gallons of water and 30,000 pounds of sand.
No. 9, from 75,000 gallons of water and 30,000 pounds of sand.
No. 10, from 75,000 gallons of water and 30,000 pounds of sand.

CASING RECORD

Size casing per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and pulled from	From -	To -	Purposes
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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 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

MUDDING AND CEMENTING RECORD

Size casting	Where set	Number rods of cement	Method used	Mud gravity	Amount of mud used
1 1/2"	100'	1	Hand trowel		
2"	100'	1	Hand trowel		

PLUGS AND ADAPTERS

Material	Heaving plug	Material	Length	Depth set
Material	Size	Material	Length	Depth set

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
3 inch water line			100 lbs	10/10/10		

TOOLS USED

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

DATE

10	Put to producing			
10	bars of fluid of which			
10	5% was oil			

Rock pressure, lbs. per sq. ft.	
If gas well, cu. ft. per 24 hours	600 700
Emulsion; ----- % water; and ----- % sediment	
Gallons gasoline per 1,000 cu. ft. of gas	Gravity, sp. gr.

EMPLOYEES

Driller		Driller	
Driller		Driller	

FORMATION RECORD

FROM	TO	TOTAL FEET	FORMATION
1000	1010	10	1000-1010
1010	1020	10	1010-1020

FORMATION RECORD—Continued

(OVER)

—01

—WOMEN—

TOTAL NET

NOTICE OF

8-4004-55



U. S. LAND OFFICE N. M.
SERIAL NUMBER 03011
LEASE OR PERMIT TO PROSPECT _____

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company J. Felix Hickman Address 2929 Monte Vista Blvd. NE
Lessor or Tract Clark Field Undesignated State New Mexico
Well No. 4 Sec. 5 T. 24N R. 3W Meridian N&EM County Rio Arriba
Location 990 ft. [N.] of 5 Line and 990 ft. [E.] of W Line of Sec. 5 Elevation 6996
(Derrick Boor 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.

so far as can be determined from an available record.

Signed Jay J. Harris
Jay J. Harris
Title Geologist

Date Oct 56

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

Commenced drilling ~~4-22~~, 19~~56~~ Finished drilling ~~5-12~~, 19~~56~~

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 3212 to 3273-6 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 _____ to _____ No. 3, from _____ to _____
No. 2, from _____ to _____ No. 4, from _____ to _____

CASING RECORD

[illegible]

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
9 5/8	163	125	Halliburton		
5 1/2	3274	150	Halliburton		

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
Sand water fractured from 3222 to 3268						

TOOLS USED

Rotary tools were used from 0 feet to 3277 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

7 31/56 19 _____ Put to producing _____, 19 _____
 The production for the first 24 hours was _____ barrels of fluid of which Shut in 5-12 56
 emulsion; _____ % water; and _____ % sediment. _____ % was oil; _____ %
 Gravity, °Bé. _____

If gas well, cu. ft. per 24 hours 6194 Gallons gasoline per 1,000 cu. ft. of gas _____

Rock pressure, lbs. per sq. in. 1080

EMPLOYEES

----- Empire States -----, Driller -----, Driller
-----, Driller -----, Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
3100	3215	115	Fruitland
3215	3273	58	Pictured Cliffs

PLEASE OR PERMIT TO PROSPECT
SERIAL NUMBER 1011
U. S. LAND OFFICE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

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 _____

Location _____ ft. [N.] of _____ Line and _____ ft. [E.] of _____ Line of _____

Well No. _____ Sec. _____ T. _____ R. _____ Meridian _____

County _____ State _____

Address _____

Company _____

Commenced drilling _____, 19____ Finished drilling _____, 19____
The summary on this page is for the condition of the well at above date.
Date _____ Title _____

OIL OR GAS SANDS OR ZONES

(Debate das 24 G)

No. 1, from fractured zone at 3222 to 4968 feet
No. 1, from 0 to 1700 feet
with 45,000 gallons of water and 30,000 pounds of sand.
No. 3, added well in and shut in for dip line connection

No. 2, from 0 to 1700 feet
No. 1, from 0 to 1700 feet
No. 4, from 0 to 1700 feet

CASING RECORD

Slack casing per foot	Weight per foot	Threads per inch	Make	Amount	Kind of shoe	Cut and drilled from	From—	To—	Purposed	Purpose
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HISTORY OF OIL OR GAS WELL

[illegible]

PLUGS AND ADAPTERS

Material	Weight	Length	Depth
Heaving plug—Material			
Adapters—Material			

SHOOTING RECORD

Size	Shell used	Explosive used	Quantity	Date	Depth shot	Depth cleaned out
2 and under 1 1/2	111	111	100	10/10		

TOOLS USED

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

DATE

If gas well, cu. ft. per 24 hours. <i>614</i> emulsion; _____ % water; and _____ % sediment.	The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % Put to producing _____
--	--

EMPLOYEES

Driller	Driller
Driller	Driller

FORMATION RECORD

FROM-	TO-	TOTAL FEET	FORMATION
0010	0010	10	FORMATION
0010	0010	10	FORMATION

FORMATION RECORD—Continued