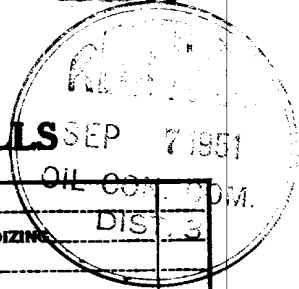


STATE OF NEW MEXICO
**OIL CONSERVATION
 COMMISSION**
 DISTRICT NO. 3
 Phone 99 P. O. Box 697
 AZTEC, NEW MEXICO

(SUBMIT IN TRIPLICATE)

**UNITED STATES
 DEPARTMENT OF THE INTERIOR
 GEOLOGICAL SURVEY**

SANTA FE
 Land Office 070872
 Lease No. _____
 Unit Block #6



SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	<input checked="" type="checkbox"/>	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 RE-DRILL OR REPAIR WELL		SUBSEQUENT REPORT OF REDRILLING OR REPAIR	
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			

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

September 5, 1951

Well No. 6 is located 990 ft. from NI line and 1670 ft. from EW line of sec. 9
NW 9 27N 13W N.M.P.M.
 (Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is _____ ft. **Not Determined**

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)

1. Drill surface hole and set approximately 100' of 9-5/8" surface casing and cement to surface.
2. Test surface casing, cement plug and drill thru the coal measures at the base of the Fruitland formation and drill stem test the coal section for formation fluid content.
3. Diamond Core from base of Fruitland formation thru the Pictured Cliffs sandstone thought to contain gas.
4. Run electric log to TD.
5. Drill stem test the Pictured Cliffs sandstone section for both gas and fluid content.
6. Run and set approximately 1900' of 5 1/2" H-10 M casing on top of Pictured Cliffs sandstone and cement with 150 sacks of cement.

(SEE OTHER SIDS)

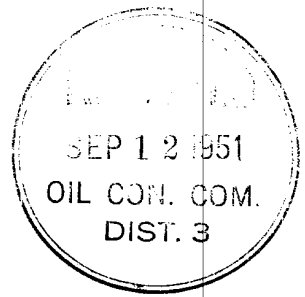
I understand that this plan of work must receive approval in writing by the Geological Survey before operations may be commenced.

THE FRONTIER REFINING COMPANY

Company THE FRONTIER REFINING COMPANY

Address DENVER, COLORADO

By [Signature]
K.C. FUGADE, Geologist
 Title _____



Company Frontier Refining Co.

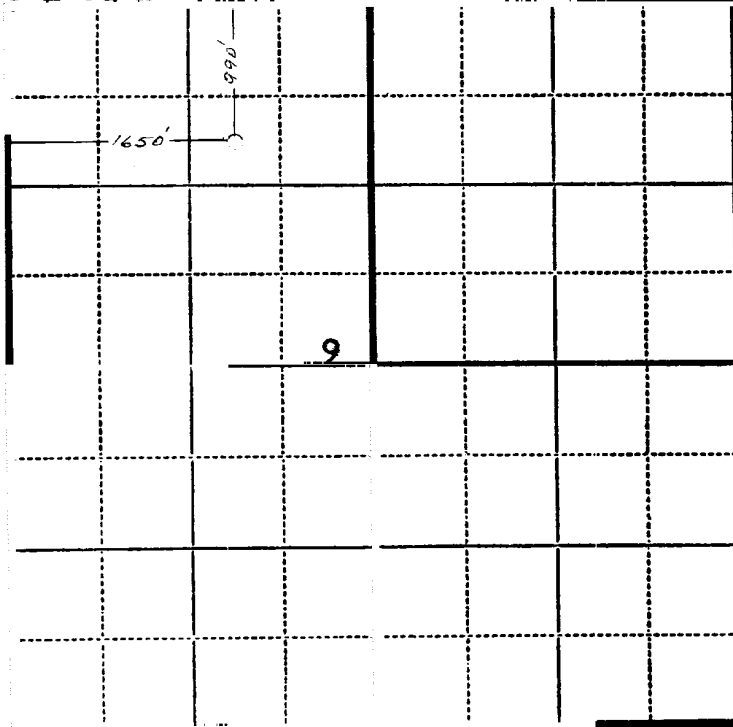
Lease Alice Bolack Well No. 6

Sec. 9 T. 27 N., R. 11 W., N.M.P.M.

Location 990' from the North line and 1650' from the West line.

San Juan County

New Mexico



Scale—4 inches equals 1 mile.

This is to certify that the above plat was prepared from field notes of actual surveys made by me or under my supervisor, and that the same are true and correct to the best of my knowledge and belief.

Charles J. Finklea

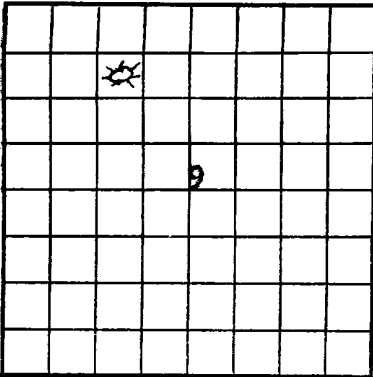
Seal:

Registered Professional
Engineer and Land Surveyor.

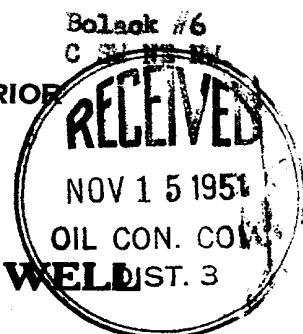
Charles J. Finklea
N. Mex. Reg. No. 1302

Surveyed September 5, 1951

U. S. LAND OFFICE SANTA FE
SERIAL NUMBER 076872-A
LEASE OR PERMIT TO PROSPECT



UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELL

LOCATE WELL CORRECTLY

Company THE FRONTIER REFINING COMPANY Address 410 Boston Building, Denver, Colo.
Lessor or Tract Bolack-Government Field W. Kutz Canyon State New Mexico
Well No. 6 Sec. 9 T. 27N R. 11W Meridian N.M.P.M. County San Juan 6185' Ord.
Location 990 ft. {N} of N Line and 1650 ft. {E} of W Line of Section 9 Elevation 6194' KB
(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 Demmar S. Galbraith

Date November 8, 1951 Title Demmar S. Galbraith, Geologist

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

Commenced drilling 9/9, 19 51 Finished drilling 9/24, 19 51

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

No. 1, from 1933 to 2032 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. 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>8-5/8"</u>	<u>25.15</u>	<u>8</u>	<u>McConnell</u>	<u>100</u>	<u>plug</u>	<u>0</u>			<u>to test for gas</u>
<u>5-1/2"</u>	<u>19.38</u>	<u>8</u>	<u>McConnell</u>	<u>150</u>	<u>plug</u>	<u>100</u>			<u>to test for gas</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>8-5/8"</u>	<u>107' KB</u>	<u>95 sacks</u>	<u>plug</u>	<u>-</u>	<u>-</u>
<u>5 1/2"</u>	<u>1938' KB</u>	<u>150 sacks</u>	<u>plug</u>	<u>-</u>	<u>-</u>

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
		<u>Jellied Nitro</u>	<u>20 qts.</u>	<u>9/21/51</u>	<u>77' KB</u>	<u>1931' KB</u>

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

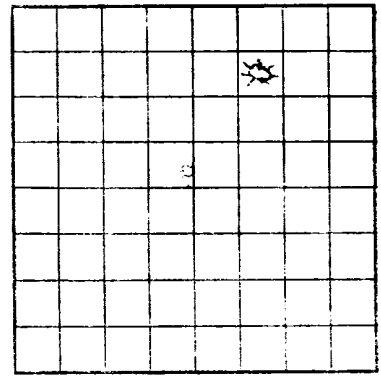
Put to producing _____, 19 _____
The production for the first 24 hours was _____ barrels of fluid of which _____ % was oil; _____ % emulsion; _____ % water; and _____ % sediment. Gravity, °Bé. _____
If gas well, cu. ft. per 24 hours 2,550,000 Gallons gasoline per 1,000 cu. ft. of gas _____
Rock pressure, lbs. per sq. in. 460#

EMPLOYEES

McConnell Drilling Corp., Driller _____, Driller
_____, Driller _____, Driller

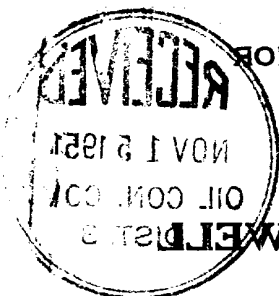
FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
<u>0</u>	<u>830</u>	<u>830</u>	<u>Sand and shale. Torreon-Puerco at surface. Top Ojo Alamo at 830'.</u>
<u>830</u>	<u>928</u>	<u>98</u>	<u>Sand with shale streaks. Top Kirtland shale at 928'.</u>
<u>928</u>	<u>1933</u>	<u>1005</u>	<u>Sand and shale with trace of coal. Top Pictured Cliffs formation (Pictured Cliffs sandstone) at 1933'.</u>
<u>1933</u>	<u>2032</u>	<u>99</u>	<u>Sand with silty and sandy shale streaks.</u>
	<u>2032' KB</u>	<u>TD</u>	



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY



LOG OF OIL OR GAS WELLS

Company, Address, Field, State, County, Well No., Section, Twp., R., Meridian, Location, Line and Section, Elevation, 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, Title, Date, The summary on this page is for the condition of the well at above date.

Commenced drilling, Finished drilling, 19...

OIL OR GAS SANDS OR ZONES

No. 1 from, No. 2 from, No. 3 from, No. 4 from, No. 5 from, No. 6 from

IMPORTANT WATER SANDS

No. 1 from, No. 2 from, No. 3 from, No. 4 from, No. 5 from, No. 6 from

CASING RECORD

Table with columns: Casing No., Length, Diameter, Weight, etc.

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 added 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 testing.

HISTORY OF OIL OR GAS WELL

16-43004-1 U.S. GOVERNMENT PRINTING OFFICE

MUDDING AND CEMENTING RECORD

Table with columns: Cement, Mudding, Amount of mud used, etc.

PLUGS AND ADAPTERS

Table with columns: Adapter size, Plug size, etc.

SHOOTING RECORD

Table with columns: Shot size, Explosive used, Quantity, Date, Depth shot, Depth cleaned out

TOOLS USED

Table with columns: Cable tools, Rotary tools, etc.

DATES

Put to producing, The production for the first 24 hours was, etc.

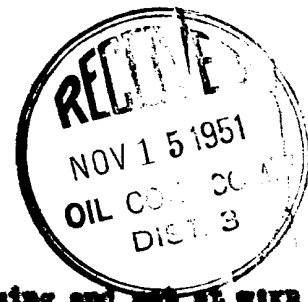
EMPLOYEES

Table with columns: Driller, etc.

FORMATION RECORD

Large table with columns: FROM, TO, TOTAL FEET, FORMATION

HISTORY OF OIL OR GAS WELL



- 9/9/51 Spudded. Ran 98' of 8-5/8" OD, 8rd. thd., 25.55# casing and set at 97'KB with 95 sacks of regular cement and circulated to the surface. Plug down at 3:15 P.M. Tested with 500# held for 30 minutes. Drilled plug. Tested with 300# held for 30 minutes and water level remained stationary.
- 9/10/51 Drilled to 974'. Lost circulation 3/4 hours.
 Drilled to 1004'. Lost circulation 2 hours.
 Drilled to 1075'. Lost circulation 1 1/2 hours.
 Drilled to 1170' KB
- 9/11/51 Drilled to 1798'KB.
- 9/12/51 Drilled to 1940'KB.
 DST #1 1912-1940'KB, open 1 hour, slight blow; tool plugged.
 DST #2 1912-1940'KB, open 1 hour, SI 20 minutes, fair blow immediately, gas in 55 minutes (Est. 25 MCF), recovered 180' gas out mud; HP 950#; SIP 450#; FP 50#.
- 9/13/51 Core #1 1940-1974'KB, recovered 34' sandstone.
 DST #3 1945-1974'KB, open 80 minutes, SI 20 min., blow immediately, increasing in 20 minutes, gas in 20 minutes (gaged 260 MCF thru 1/2" choke) recovered 60' gas out mud; FP 0#; SIP 430#.
 Remained down core hole.
- 9/14/51 Core #2 1974-2032'KB, recovered 57'; 56' sandstone, 1' blue-grey shale.
 Ran electric log from 107-2030'KB. Top Pictured Cliffs at 1933'.
 DST #4 1979-2032'KB, open 2 hrs., SI 20 min., intermittent blow increasing from weak to good, no gas, recovered 80' of slightly oil and gas out mud; FP 0#; HP 940#; SIP 480#.
 Remained to TD.
- 9/15/51 Ran 1930.5' of 5 1/2" OD, 8rd. thd., 15.5#/ft. casing set at 1938'KB with 150 sacks of regular cement. Plug down at 2:00 P.M. Moved off rotary tools.
- 9/17/51 Moved in cable tools.
- 9/18/51 Drilling cement.
- 9/19/51 Bailing mud and swabbing well in.
- 9/20/51 Well gaged 656 MCFPD natural with 1 barrel an hour salt water.
- 9/21/51 Killed well. Plugged back from 2032 to 1991'KB with 16 sacks modified Portland cement. Pumped cement down at 4:30 P.M.
- 9/22/51 Swabbing well.
- 9/23/51 Bailed hole dry. Gaged 302 MCFPD. Set Cal Seal plug from 1979-1990'KB.
 Ran 210 quarts of jellied nitro from 1954-1979'KB. Dumped pea gravel from 1950-1954'KB. Set Cal Seal from 1920-1950'KB.
- 9/24/51 Shot off at 8:26 P.M.
- 9/25/51 Lost 20' of casing bent in. Swaging out with 4-21/32" swage.
- 9/26/51 Swaging casing. Well swabbed in and blowing at 9:50 P.M.
- 9/27/51 Well gaged 2,550 MCFPD at 460# SIP. Making some salt water. Well completed as shut in gas well.

NOTE, No 1/4" siphon line run as yet.