DUPLICATE

RECEIVED
DEC 14 1950
OIL CONSERVATION COMMISSION
HOBBS, N. M.

Form C-110

OIL CONSERVATION COMMISSION
STATE OF NEW MEXICO

CERTIFICATE of COMPLIANCE and AUTHORIZATION to TRANSPORT OIL

Company or Operator Continental Oil Company Lease A. E. Lockhart B-11

Address Box CC, Hobbs, New Mexico (Local or Field Office) Ponca City, Oklahoma (Principal Place of Business)

Unit D Wells No. 1-E Sec. 11 T 21S R 37E Field Drinkard County Lea

Kind of Lease Federal Location of Tanks SW/4 NW/4 Sec. 11

Transporter Texas-New Mexico Pipe Line Co. Address of Transporter Midland, Texas (Local or Field Office)

Houston, Texas (Principal Place of Business) Percent of oil to be transported 100. Other transporters authorized to transport oil from this unit are None %

REMARKS:

New well completion

ILLEGIBLE

The undersigned certifies that the rules and regulations of the Oil Conservation Commission have been complied with except as noted above and that gathering agent is authorized to transport the percentages of oil produced from the above described property and that this authorization will be valid until further notice to the transporter named herein or until cancelled by the Oil Conservation Commission of New Mexico.

Executed this the 13th day of December, 1950

Continental Oil Company
(Company or Operator)

By E. L. Shafer

Title District Superintendent

State of New Mexico
County of Lea } ss.

Before me, the undersigned authority, on this day personally appeared E. L. Shafer known to me to be the person whose name is subscribed to the above instrument, who being by me duly sworn on oath states that he is authorized to make this report and has knowledge of the facts stated herein and that said report is true and correct.

Subscribed and sworn to before me, this the 13th day of December, 1950

My commission expires 5-17-53.

J. P. McGrath

Notary Public in and for Lea County, New Mexico

Approved: 12 - 14 1950

OIL CONSERVATION COMMISSION

By Roy E. Yarbrough

Oil & Gas Inspector

(See Instructions on Reverse Side)

INSTRUCTIONS

This form shall be executed and filed in quadruplicate with the Oil Conservation Commission at Santa Fe, New Mexico, covering each unit from which oil is produced. A separate certificate shall be filed for each transporter authorized to transport oil from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

A new certificate shall be filed to cover each change in operating ownership and each change in the transporter, except that in the case of a temporary change in the transporter involving less than the allowable production for one month the operator shall in lieu of filing a new certificate, notify the Oil Conservation Commission at Santa Fe, New Mexico, and the transporter authorized by certificate on file with the Commission, by letter of the estimated amount of oil to be moved by the transporter temporarily moving oil from the unit and the name of such temporary transporter and a copy of such notice shall also be furnished such temporary transporter. Such temporary transporter shall not move any more oil than the estimated amount shown in said notice.

This certificate when properly executed and approved by the Oil Conservation Commission shall constitute a permit for pipe line connection and authorization to transport oil from the property named therein and shall remain in full force and effect until

(a) Operating ownership changes

(b) The transporter is changed or

(c) The permit is cancelled by the Commission.

If any of the rules and regulations of the Oil Conservation Commission have not been complied with at the same time this report is filed, explain fully under the heading "REMARKS."

In all cases where this certificate is filed to cover a change in operating ownership or a change in the transporter designated to move oil, show under "REMARKS" the previous owner or operator and the transporter previously authorized to transport oil.

A separate report shall be filed to cover each producing unit as designated by the Oil Conservation Commission.

Form C-104

RECEIVED
DEC 14 1950
OIL CONSERVATION COMMISSION
HOBBS, NEW MEXICO

DUPLICATE

OIL CONSERVATION COMMISSION

Santa Fe, New Mexico

REQUEST FOR (OIL)-(GAS) ALLOWABLE

It is necessary that this form be submitted by the operator before an initial allowable will be assigned to any completed oil or gas well. Form C-110 (Certificate of Compliance and Authorization to Transport Oil) will not be approved until Form C-104 is filed with the Commission. Form C-104 is to be submitted in triplicate to the office to which Form C-101 was sent. Two copies will be retained there and the other submitted to the Proration Office, Hobbs, New Mexico. The allowable will be assigned effective 7:00 a.m. on date of completion, provided completion report is filed during month of completion. The completion date shall be that date in the case of an oil well when oil is delivered into the stock tanks. Gas must be reported on 15.025 P.B. at 60° Fahrenheit.

Hobbs, New Mexico (Place) December 13, 1950 (Date)

WE ARE HEREBY REQUESTING AN ALLOWABLE FOR A WELL KNOWN AS:

Continental Oil Company (Company or Operator) A.H. Lockhart B-11 (Lease) Well No. 3-E in NW 1/4 NW 1/4

section 11, T. 21S, R. 37E, N.M.P.M. Brunson Pool Lea County

Please indicate location:

X			

Unit letter: D

Elevation 3458 Spudded 10-21-50 Completed 12-12-50

Total Depth 7751 P.B. 7747

Top Oil/Gas Pay 7590 Top Water Pay

Initial Production Test: Pump Flow 1532 BOPD (BOPD OR CU.FT. GAS PER DAY)

Based on 383 Bbls. Oil in 6 Hrs. Mins.

Method of Test (Pitot, gauge, prover, meter run): Prover

Size of choke in inches 40/64"

Tubing (Size) 2 1/2" @ 7746 Feet

Pressures: Tubing 200# Casing 400#

Gas/Oil Ratio 1638 Gravity 42°

Casing Perforations:

7652 to 7666, 7672 to 7687, 7693 to 7715

Casing & Cementing Record

Size	Feet	Sax
10 3/4	248	250
7 5/8	3049	1050
5 1/2	7750	770

Acid Record:

1000 Gals 7652 to 7715
Gals to
Gals to

Shooting Record.

Qts to
Qts to
Qts to

Show of Oil, Gas and water

S/O 6650 to 6785
S/G 7470 to 7586
S/
S/
S/
S/
S/
S/

Natural Production Test: Pumping Flowing

Test after acid or shot: Pumping 1532 Flowing

Please indicate below Formation Tops (in conformance with geographical section of state):

Southeastern New Mexico

T. Anhy 1300
T. Salt 1380
B. Salt 2470
T. ~~Yates~~ Brown Lime 2740
T. 7 Rivers
T. Queen
T. Grayburg
T. San Andres
T. Glorieta 5245
T. Drinkard 6535
T. Tubbs 6179
T. Abo 6810
T. Penn
T. Miss

T. Devonian
T. Silurian
T. Montoya
T. ~~Simpson~~ Paso Formian 7493
T. ~~McKee~~ Connell 7515
T. Ellenburger 7560
T. Gr. Wash 7720
T. Granite 7738
T.
T.
T.
T.
T.
T.

Northwestern New Mexico

T. Ojo Alamo
T. Kirtland-Fruitland
T. Farmington
T. Pictured Cliffs
T. Cliff House
T. Menefee
T. Point Lookout
T. Mancos
T. Dakota
T. Morrison
T. Penn
T.
T.
T.

Date first oil run to tanks or gas to pipe line: 12-12-50

Pipe line taking oil or gas: Texas-New Mexico Pipe Line Company

Remarks:

Continental Oil Company
Company or Operator

By: E. L. Shafer
Signature

Position: District Superintendent

Send communications regarding well to:

Name: Continental Oil Company

Address: Box CC, Hobbs, New Mexico

APPROVED 12 - 14, 1950

OIL CONSERVATION COMMISSION

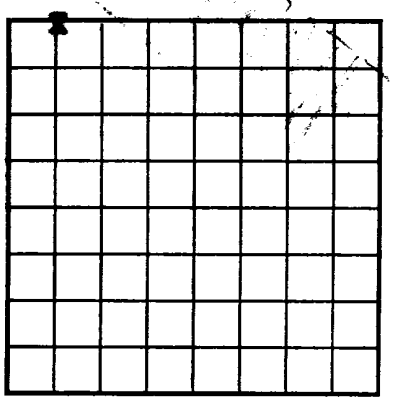
By: Roy Yarbrough

Title: Oil & Gas Inspector

Form 9-330

Budget Bureau No. 42-R355.1.
Approval expires 11-30-49.

U. S. Land Office Las Cruces
Serial Number 032096 (b)
Lease or Permit to Prospect Lease



LOCATE WELL CORRECTLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

LOG OF OIL OR GAS WELL

Company Continental Oil Company Address Box CC, Hobbs, New Mexico
Lessor or Tract A. M. Lockhart B-11 Field Brunson State New Mexico
Well No. 1-E Sec. 11 T. 21S R. 37E Meridian N.M.P.M. County Lea
Location 510 ft. {N.} of N Line and 660 ft. {E.} of W Line of Sec. 11 Elevation 3458 (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 [illegible]

Date March 15, 1951 Title Asst. Dist. Supt.

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

Commenced drilling October 21, 19 50 Finished drilling December 5, 19 50

OIL OR GAS SANDS OR ZONES

(Denote gas by G)

No. 1, from 7790 to 7720 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 From—	Perforated To—	Purpose
10 3/4	40	10R	J-55	268	Guide				
7 5/8	24	8R	J-55	3049	Guide and float collar				
5 1/2	14	8R	J-55	7790	Guide and float collar		7652	7715	Production
5 1/2	17	8R	J-55	1297	Guide and float collar				

MUDDING AND CEMENTING RECORD

Size casing	Where set	Number sacks of cement	Method used	Mud gravity	Amount of mud used
10 3/4	268	240	Pump & plug		
7 5/8	3049	1050	Pump & plug		
5 1/2	7790	770	Pump & plug	Drilled out	to 7747' BPO

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
		NONE				

TOOLS USED

Rotary tools were used from 0 feet to 7751 feet, and from feet to feet
Cable tools were used from feet to feet, and from feet to feet

DATES

, 19 Put to producing December 12, 19 50

The production for the first 24 hours was 1332 barrels of fluid of which 100 % was oil; % emulsion; % water; and % sediment. Gravity, °Bé. 42.0

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

Rock pressure, lbs. per sq. in.

EMPLOYEES

Thurman, Driller Breland, Driller
Ingram, Driller , Driller

FORMATION RECORD

FROM—	TO—	TOTAL FEET	FORMATION
0	1300	1300	Surface sands and red beds.
1300	1350	50	Anhydrite, sand and red bed.
1350	2400	1050	No samples.
2400	2480	80	Salt.
2480	2540	50	Anhydrite and salt.
2540	2560	20	Anhydrite.
2560	2600	40	Anhydrite and red shale.
[illegible]	[illegible]	100	No samples.
[illegible]	[illegible]	[illegible]	Anhydrite and red shale.
[illegible]	[illegible]	270	Anhydrite, dolomite, and red shale.
[illegible]	[illegible]	1350	No samples.
[illegible]	[illegible]	[illegible]	Dolomite.
[illegible]	5070	10	Dolomite and chert.
5070	6140	1070	Dolomite.
6140	[illegible]	[illegible]	No samples.
6500	[illegible]	[illegible]	Dolomite.
[illegible]	7575	90	Dolomite and shale.
7575	7665	90	Dolomite.
7665	[illegible]	20	Dolomite and chert.
7685	7725	40	Dolomite.
7725	7735	10	Dolomite and granite.
7735	7751	16	Granite.

(OVER)

16—43084-2

FORMATION RECORD—Continued

FROM—	TO—	TOTAL FEET	FORMATION
DST #1:	6650-6758' open 2 hours, light blow gas to surface in 35 minutes, recovered 420' oil and gas-cut mud, no free oil or water.		
DST #2:	74[illegible]86', open 45 minutes, gas to surface in 2 minutes, and in 4 minutes, flowed approximately 4 barrels distillate per hour with 9,[illegible] MCF gas per day.		
DST #3:	79[illegible]51', open 1 1/2 hours, gas to surface in 4 minutes, fluid in 8 minutes. Flowed [illegible] barrels oil, no water in 1 hour, GOR 738, F[illegible] [illegible]700#, 15 minute build-up [illegible] [illegible]50#.		

[illegible] 5 1/2" casing at 7750' total depth [illegible], with 770 sacks cement. Drilled [illegible] cement to [illegible]47', plugback depth. Perforated 7652-66', 7672-87', 7693-[illegible]', with [illegible] shots per foot. Failed to kick off. Acidized with 1,000 gallons and [illegible]ated for initial potential of 1[illegible] barrels oil per day, based on 6 hour test of 383 barrels oil, no water, flowing through 40/64" choke on 2 1/2" tubing, with 2510 MCF gas, GOR 16[illegible], CP 200#, TP 400#.

HISTORY OF OIL OR GAS WELL

16—43094-1 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.

Form 9-331a
(March 1942)

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. 093096 (h)
Unit N.M.P.U.

RECEIVED NOV 10 1950 OIL CONSERVATION COMMISSION HOBBS, N.M. OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
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)

A. K. Lockhart B-11 No. 1-E Hobbs, New Mexico November 9, 1950

Well No. 1-E is located 510 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NW/4 Sec. 11 (¼ Sec. and Sec. No.) 21 S (Twp.) 37 E (Range) NMPM (Meridian)

Brunson (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3453 ft.

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)

Set 7 5/8" casing at 3049 and cemented with 1050 sacks cement. Total depth of hole 3050 in Lime. Plug down at 12:30 P.M. 10-29-50. Top cement behind casing 666' by Temperature Survey.

On 10-31-50, after 48 hours WOC, pressure tested casing with 1200# for 30 minutes. Final pressure 1180#. Found top of cement plug at 2998. Drilled out cement plug and pressure tested casing with 1200# for 30 minutes. Final pressure 1175#.

ILLEGIBLE

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

Company Continental Oil Company

Address Box CC

Hobbs, New Mexico

By

Asst.
Title District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3

Form 9-331 a
(March 1942)

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

Land Office Las Cruces

Lease No. 03306 (b)

Unit [illegible]

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

RECEIVED
DEC 12 1950
OIL CONSERVATION COMMISSION
HOBBS-OFFICE

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	
NOTICE OF INTENTION TO CHANGE PLANS		SUBSEQUENT REPORT OF SHOOTING OR ACIDIZING	X
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)

A. M. Lockhart B-11 No. 1-E Hobbs, New Mexico December 11, 1950

Well No. 1-E is located 510 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NW/4 Sec. 11 (¼ Sec. and Sec. No.) 21 S (Twp.) 37 E (Range) NMPM (Meridian)

Drinkard (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3468 ft.

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)

Set 5 1/2" casing at 7750 and cemented with 750 sacks cement. Total depth of hole 7751 in Blue. Plug down at 8:00 P.M. 12-7-50. Top cement behind casing 3080 by Temperature Survey.

On 12-9-50, after 48 hours WOC, pressure tested casing with 1200# for 30 minutes. Final pressure 1165#. Found top of cement plug at 6750. Drilled out cement plug with 4 3/4" bit to 7747 for total depth.

ILLEGIBLE

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

Company Continental Oil Company

Address Box CC

Hobbs, New Mexico

By L. L. Shafer

Title District Superintendent

DEC 12 1950

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3

Las Cruces

(b)

N.M.P.M.

I

A. M. Lockhart B-12 No. 1-X Hobbs, New Mexico December 12 20

1-X	520	660	XX	XX	12
NW/4 Sec. 12	21 S	37 X	NGPM		

Brunson Lea New Mexico

Job

Set 5 1/2" casing at 7750 and cemented with 750 sacks cement. Total depth of hole 7751 in lime. Plug down at 8:00 P.M. 12-7-30. Top cement behind casing 3080 by Temperature Survey.

On 12-9-30, after 48 hours WOC, pressure tested casing with 1000# for 30 minutes. Final pressure 1125#. Found top of cement plug at 6750. Drilled out cement plug with 4 3/4" bit to 7747 for total depth.

A. M. Lockhart Oil Company

Hobbs, New Mexico

District Superintendent

Form 9-331 a
(March 1942)

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

Land Office Las Cruces
Lease No. 082096 (b)
Unit N.M.F.U.

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL		SUBSEQUENT REPORT OF WATER SHUT-OFF	X
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)

A.M. Lockhart B-11 No. 1-E Hobbs, New Mexico October 26, 1950

Well No. 1-E is located 510 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NW/4 Sec. 11 (¼ Sec. and Sec. No.) 21 S (Twp.) 37 E (Range) NMPM (Meridian)

Drinkard (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is 3458 ft.

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)

Set 10 3/4" casing at 248' and cemented with 250 sacks cement. Cement circulated to surface. Total depth of hole 255' in Red Bed. Plug down 9:30 P.M. 10-21-50.

After 24 hours WOC pressure tested casing with 250# for 30 minutes. Final pressure 245#. Found top of cement plug at 210'. Drilled out cement plug and pressure tested casing with 250# for 30 minutes. Final pressure 240#.

ILLEGIBLE

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

Company Continental Oil Company

Address Box 2C

Hobbs, New Mexico

By [signature]

Title District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3

DUPLICATE

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 1346
Hobbs, New Mexico

RECEIVED
OCT 23 1950
OIL CONSERVATION COMMISSION
HOBBS OFFICE

October 19, 1950

Continental Oil Company
Box CC
Hobbs, New Mexico

Re: L.C. 032095-b

Gentlemen:

Receipt is acknowledged of "Notice of Intention to Drill" dated October 12, 1950, covering your well No. 1-B Lockhart B-11 located on subject land in N W/4 NW/4, Section 11, T. 21S, R. 37E, Bronson Pool, Lea County, New Mexico.

Your proposed work is approved subject to compliance with the provisions of the Oil and Gas Operating Regulations revised May 25, 1942, a copy of which has been furnished you, and subject to the following conditions:

1. Drilling operations so authorized are subject to attached sheet for general conditions of approval.

2. Cement behind the 7 5/8" casing should extend about 200 feet above the top of the Salado salt section, as determined by temperature survey to be made within 12 hours after completion of the cement job.

3. Copies of sample log, electrical log, temperature and other surveys made are requested.

Very truly yours,

W. F. SOYSTER
District Engineer

APPROVED
Date OCT 23 1950

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLEASE READ BEFORE STARTING OPERATIONS

Attention is called to the following general and special requirements most likely to be overlooked by operators on Federal oil and gas leases. Suspension of field operations may be required by the District Engineer for failure to comply with the Operating Regulations, the conditions of drilling approval, and these requirements.

GENERAL

1. All drilling and producing wells shall be permanently marked in a conspicuous place with the name of operators, lease name, serial number of lease, well number, and location. Necessary precautions must be taken to preserve such signs.

2. Any desired change of drilling plan or condition of approval must have written approval of the District Engineer BEFORE the change is made.

3. Unless otherwise specified in the approval to drill, the production string of casing must be set at the top of the pay zone, the completion shall be made with a reasonable gas-oil ratio.

4. BEFORE work is started, written approval must be obtained, unless other acceptable arrangements are made in advance with the District Engineer, and after work is completed results must be reported to the U. S. Geological Survey by submitting complete information in triplicate on form 9-331a, covering:

a. Mudding or cementing, including proposed date and method of testing, water shut-off.
b. Drill-stem tests or perforating.
c. Casing alterations, packer settings, or repairs of any kind.
d. Shooting, acid treatment, deepening or plugging back.
e. Gas-lift installations.
f. Drilling of water wells.

5. Monthly report of operations in duplicate, on form 9-329, must be submitted promptly each month beginning with spudding of the first well on a lease and continuing until approved abandonment of all drilling and producing operations.

6. Log, in duplicate, on form 9-330, must be submitted within 10 days of reaching temporary or permanent drilling depth. Copy of all electrical logs, sample cuttings logs, drilling-time logs, and any other well information not given on the standard form, should be attached to same.

7. Separate application to drill any water well on federal land is required, and special procedure is necessary for abandonment of any well having a desirable water supply.

8. All wells and lease premises shall be maintained in first class condition with due regard to safety, conservation, appearance, and refuse disposal.

9. The notice of intention to drill any well is rescinded without further notice if drilling is not started within 30 days of approval.

10. Cement must be allowed to set a minimum of 72 hours on all strings of casing prior to drilling the plug, except for modifications provided by the Supervisor's order dated March 18, 1947, a copy of which will be furnished on request.

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

Form 9-331 a
(March 1942)

Land Office Las Cruces
Lease No. 032096 (b)
Unit N.M.F.U.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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)

A.M. Lockhart Bell No. 1-B Hobbs, New Mexico October 12, 19 50

Well No. 1-B is located 510 ft. from {N / S} line and 660 ft. from {E / W} line of sec. 11

NW/4 Sec. 11 (¼ Sec. and Sec. No.) 21 S (Twp.) 37 E (Range) N.M.P.M. (Meridian)

Brunson (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft.

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)

It is our intention to drill a well with rotary tools at the above location to a total depth of approximately 7890'. All casing points will be cemented in accordance with approved methods of the U.S. Geological Survey and any other special requirements will be complied with.

It is planned to use the following casing pattern: 10 3/4" casing to be set at approximately 250' and cemented with 250 sacks; cement to be circulated. 7 5/8" casing to be set at approximately 3100' and cemented with approximately 1000 sacks or sufficient cement to protect the salt section as determined by caliper survey. 5 1/2" casing to be set at approximately 7890' and cemented with approximately 550 sacks as determined by caliper survey. 5 1/2" casing to be perforated opposite pay zone.

Approval to produce this well upon completion is also requested.

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

Company Continental Oil Company

Address Box CC

Hobbs, New Mexico

By .....

Title Asst. District Superintendent

U. S. GOVERNMENT PRINTING OFFICE 16-8437-3

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY
P. O. Box 1346
Hobbs, New Mexico

October 19, 1950

Continental Oil Company
Box CC
Hobbs, New Mexico

Re: L.C. 032096-b

Gentlemen:

Receipt is acknowledged of "Notice of Intention to Drill" dated October 12, 1950, covering your well No. 1-B Lockhart B-11 located on subject land in N W. NW, Section 11, T. 21S, R. 37E, Brunson Pool, Lea County, New Mexico.

Your proposed work is approved subject to compliance with the provisions of the Oil and Gas Operating Regulations revised May 25, 1942, a copy of which has been furnished you, and subject to the following conditions:

1. Drilling operations so authorized are subject to attached sheet for general conditions of approval.

2. Cement behind the 7 5/8" casing should extend about 200 feet above the top of the Salado salt section, as determined by temperature survey to be made within 12 hours after completion of the cement job.

3. Copies of sample log, electrical log, temperature and other surveys made are requested.

Very truly yours,

W. R. SOYSTER
District Engineer

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

PLEASE READ BEFORE STARTING OPERATIONS

Attention is called to the following general and special requirements most likely to be overlooked by operators on Federal oil and gas leases. Suspension of field operations may be required by the District Engineer for failure to comply with the Operating Regulations, the conditions of drilling approval, and these requirements.

GENERAL

1. All drilling and producing wells shall be permanently marked in a conspicuous place with the name of operators, lease name, serial number of lease, well number, and location. Necessary precautions must be taken to preserve such signs.

2. Any desired change of drilling plan or condition of approval must have written approval of the District Engineer BEFORE the change is made.

3. Unless otherwise specified in the approval to drill, the production string of casing must be set at the top of the pay zone. The completion shall be made with a reasonable gas-oil ratio.

4. BEFORE work is started, written approval must be obtained, unless other acceptable arrangements are made in advance with the District Engineer, and after work is completed results must be reported to the U. S. Geological Survey by submitting complete information in triplicate on form 9-331a, covering:

a. Mudding or cementing, including proposed date and method of testing, water shut-off.
b. Drill-stem tests or perforating.
c. Casing alterations, packer settings, or repairs of any kind.
d. Shooting, acid treatment, deepening or plugging back.
e. Gas-lift installations.
f. Drilling of water wells.

5. Monthly report of operations in duplicate, on form 9-329, must be submitted promptly each month beginning with spudding of the first well on a lease and continuing until approved abandonment of all drilling and producing operations.

6. Log, in duplicate, on form 9-330, must be submitted within 10 days of reaching temporary or permanent drilling depth. Copy of all electrical logs, sample cuttings logs, drilling-time logs, and any other well information not given on the standard form, should be attached to same.

7. Separate application to drill any water well on federal land is required, and special procedure is necessary for abandonment of any well having a desirable water supply.

8. All wells and lease premises shall be maintained in first class condition with due regard to safety, conservation, appearance, and refuse disposal.

9. The notice of intention to drill any well is rescinded without further notice if drilling is not started within 30 days of approval.

10. Cement must be allowed to set a minimum of 72 hours on all strings of casing prior to drilling the plug, except for modifications provided by the Supervisor's order dated March 18, 1947, a copy of which will be furnished on request.

Budget Bureau No. 42-R358.1.
Approval expires 11-30-49.

Form 9-331a
(March 1942)

Land Office Las Cruces
Lease No. 032096 (b)
Unit N.M.F.U.

(SUBMIT IN TRIPLICATE)

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

SUNDRY NOTICES AND REPORTS ON WELLS

NOTICE OF INTENTION TO DRILL	X	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)

A.M. Lockhart B-11 No. 1-E Hobbs, New Mexico October 12, 1950

Well No. 1-E is located 510 ft. from {N/S} line and 660 ft. from {E/W} line of sec. 11

NW/4 Sec. 11 (¼ Sec. and Sec. No.) 21 S (Twp.) 37 E (Range) NMPM (Meridian)

Brunson (Field) Lea (County or Subdivision) New Mexico (State or Territory)

The elevation of the derrick floor above sea level is ..... ft.

DETAILS OF WORK

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Address Box CC

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By .....

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U.S. GOVERNMENT PRINTING OFFICE 16-8437-3