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[jamesbruce@aol.com](mailto:jamesbruce@aol.com)

2007 MAY 23 AM 11 18

May 22, 2007

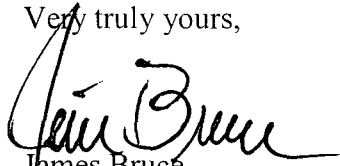
Case 13935

Florene Davidson  
Oil Conservation Division  
1220 South St. Francis Drive  
Santa Fe, New Mexico 87505

Dear Florene:

Enclosed for filing, on behalf of Apollo Energy, L.P., are an application for approval of a waterflood project, together with a proposed advertisement. The advertisement has also been e-mailed to the Division. Please set this matter for the June 21, 2007 Examiner hearing. Thank you.

Very truly yours,

  
James Bruce

Attorney for Apollo Energy, L.P.

PROPOSED ADVERTISEMENT

Case No. 13935: **Application of Apollo Energy, L.P. for approval of waterflood project, Eddy County, New Mexico.** Applicant seeks approval to re-instate a waterflood (secondary recovery) project in the Russell (Yates) Pool, originally approved by Oil Conservation Commission Order No. R-263, by the injection of water into seven wells located on Federal Lease LC 050797 insofar as it covers the SW/4SE/4 of Section 12, N/2, SW/4, N/2SE/4, and SW/4SE/4 of Section 13, and SE/4SE/4 of Section 14, Township 20 South, Range 28 East, N.M.P.M. The project is located approximately 16 miles east of Seven Rivers, New Mexico.

2007 MAY 23 AM 11:38

BEFORE THE NEW MEXICO OIL CONSERVATION DIVISION

2007 MAY 23 AM 11 18

APPLICATION OF APOLLO ENERGY L.P. FOR  
APPROVAL OF A WATERFLOOD PROJECT,  
EDDY COUNTY, NEW MEXICO.

Case No. 13935

APPLICATION

Apollo Energy, L.P. applies for an order approving a lease waterflood project, and in support thereof, states:

1. The lands involved in this application are as follows:

Township 20 South, Range 28 East, N.M.P.M.

Section 12: SW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 13: N $\frac{1}{2}$ , SW $\frac{1}{4}$ , N $\frac{1}{2}$ SE $\frac{1}{4}$ , and SW $\frac{1}{4}$ SE $\frac{1}{4}$

Section 14: SE $\frac{1}{4}$ SE $\frac{1}{4}$

Eddy County, New Mexico, containing 680.00 acres of federal lands.

2. The above-described lands are covered by the "Russell Federal Lease" (United States Oil and Gas Lease LC 050797).
3. Applicant is the operator of the Yates formation in the Russell Federal Lease.
4. The above-described lands are in the Russell (Yates) Pool. Under Division regulations, the pool is developed on statewide rules, with 40 acre well spacing, and wells to be located no closer than 330 feet to a quarter-quarter section line.
5. The above-described lands were previously in the Yates Sand Waterflood for the Russell Pool, approved by Oil Conservation Commission Order No. R-263 dated February 10, 1953. Applicant proposes to re-instate the Yates Sand Waterflood project on the above-described lands.

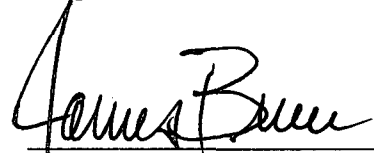
6. Applicant proposes to inject produced water into the Yates formation from seven (7) wells located on the above-described lands. Applicant requests that the order entered pursuant to this application allow administrative approval for any future expansion of the project.

7. The Form C-108 for the project is attached hereto as Exhibit A.

8. Approval of this application will prevent waste and protect correlative rights.

**WHEREFORE**, applicant requests that, after notice and hearing, the Division enter its order approving the injection application and the Russell Pool Yates Sand Waterflood Project.

Respectfully submitted,

A handwritten signature in black ink, appearing to read "James Bruce", is written over a horizontal line.

James Bruce  
Post Office Box 1056  
Santa Fe, New Mexico 87504  
(505) 982-2043

Attorney for Apollo Energy, L.P.

Case 13935

**APPLICATION FOR AUTHORIZATION TO INJECT**

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage  
Application qualifies for administrative approval? ☐ Yes ☒ No
- II. OPERATOR: Apollo Energy L.P.  
ADDRESS: 6363 Woodway, Ste. 1100, Houston, TX 77057  
CONTACT PARTY: Tommy Wright PHONE: (337) 502-5227
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.  
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☐ Yes ☒ No  
If yes, give the Division order number authorizing the project: \_\_\_\_\_
- V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.
- VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail.
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected;
  2. Whether the system is open or closed;
  3. Proposed average and maximum injection pressure;
  4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
  5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).
- \*VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval.
- IX. Describe the proposed stimulation program, if any.
- \*X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- \*XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form.
- XIV. Certification: I hereby certify that the information submitted with this application is true and correct to the best of my knowledge and belief.
- NAME: Scott St. John, Agent for Apollo Energy L.P. TITLE: Project Manager  
SIGNATURE: [Signature] DATE: 4/20/08  
E-MAIL ADDRESS: sstjohn@rsenergysolutions.com
- \* If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted.  
Please show the date and circumstances of the earlier submittal: \_\_\_\_\_

EXHIBIT A

### III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

### XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

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NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.

# **APPLICATION FOR AUTHORIZATION TO INJECT**

## **I. Purpose of Application**

### **1. Injection Well**

## **II. Operator**

Apollo Energy, L.P.  
6363 Woodway, Suite 1100  
Houston, TX 77057  
Contact: Tommy Wright, Phone: (337) 502-5227

## **III. Well Data**

A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

For Schematic form, see "Exhibit A"

### **1. Lease Data**

a. *Lease Names:* Russell USA

b. *Well Numbers:*

- i. Russell USA # 70
- ii. Russell USA # 71
- iii. Russell USA # 72
- iv. Russell USA # 73
- v. Russell USA # 74

c. *Location of Wells:* Section 13 T20S R28E

d. *Footage Locations:*

- i. Russell USA # 70: 2,310' FWL 1,980' FSL
- ii. Russell USA # 71: 1,980' FWL 1,110' FSL
- iii. Russell USA # 72: 680' FWL 2,480' FSL
- iv. Russell USA # 73: 2,580' FWL 1,550' FSL
- v. Russell USA # 74: 1,155' FWL 1,485' FSL

### **2. Casing Specifications ( Typical for Each Well )**

a. *Surface Casing:*

Casing string 8 5/8" 24# J-55  
Set at a depth of 302'  
Total sacks of cement: 130% excess yield Calc.  
Cement circulated to surface  
Total number of sacks will be submitted at compl.

- b. *Production Casing:* Casing string 5 ½" 14# J-55  
Set at a depth of 1,200  
Top of Cement to Surface (circulated)  
Total number of sacks will be submitted  
after completion of wells.

3. **Tubing Size:** 2 3/8"      **Lining Material:** Plastic      **Setting Depth:** 775'

4. **Seal System**

- a. *Packer Model:* Arrow SL  
b. *Setting Depth:* 775'  
c. Also, *CIBP* set at a depth of 975'

B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

See "Exhibit A"

1. **Injection formation:** Yates      **Field/Pool:** Russell Yates  
2. It will be perforated based on sand depth  
3. Injection well  
4. Cast iron Bridge Plug used at 975'  
5. **Higher formation:** None      **Lower formation:** Seven-Rivers (900' – 1,042')

IV. Existing Project

V. Attach a map that identifies all wells and leases within two miles of any proposed injection well with a one-half mile radius circle drawn around each proposed injection well. This circle identifies the well's area of review.

1. Please see attached Area of Review Map

VI. Attach a tabulation of data on all wells of public record within the area of review which penetrate the proposed injection zone. Such data shall include a description of each well's type, construction, date drilled, location, depth, record of completion, and a schematic of any plugged well illustrating all plugging detail

1. Please see attached Tabulation of Data

VII. Proposed Operations



1. Proposed average and maximum daily rates and volume of fluids to be injected.

Russell USA #70

- The proposed maximum daily rate is estimated at 1,440 bpd.
- The proposed average daily rate is expected to be 500 bpd.

Russell USA #71

- The proposed maximum daily rate is estimated at 1,440 bpd.
- The proposed average daily rate is expected to be 500 bpd.

Russell USA #72

- The proposed maximum daily rate is estimated at 1,440 bpd.
- The proposed average daily rate is expected to be 500 bpd.

Russell USA #73

- The proposed maximum daily rate is estimated at 1,440 bpd.
- The proposed average daily rate is expected to be 500 bpd.

Russell USA #74

- The proposed maximum daily rate is estimated at 1,440 bpd.
- The proposed average daily rate is expected to be 500 bpd.

2. Is the system open or closed?

- i. This will be a closed system

3. Proposed average and maximum injection pressure.

Russell USA #70

- The proposed maximum pressure is expected to be 700 psi.
- The proposed average pressure is expected to be 500 psi.

Russell USA #71

- The proposed maximum pressure is expected to be 700 psi.
- The proposed average pressure is expected to be 500 psi.

Russell USA #72

- The proposed maximum pressure is expected to be 700 psi.
- The proposed average pressure is expected to be 500 psi.

Russell USA #73

- The proposed maximum pressure is expected to be 700 psi.
- The proposed average pressure is expected to be 500 psi.

Russell USA #74

- The proposed maximum pressure is expected to be 700 psi.
- The proposed average pressure is expected to be 500 psi.

4. Sources and an appropriate analysis of fluid and compatibility with the receiving formation if other than reinjected produced water.

- i. Injection fluid will be reinjected produced water from the Yates Formation.

5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.).

- i. Injection will be into the Yates Formation for the purpose of disposal.

- VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed disposal zone as well as any such sources known to be immediately underlying the disposal interval.

1. The estimated top of the Rustler formation (containing shallow ground water) is approximately 70' and the base is approximately 85'.
  2. The Yates formation top is between approximately 700' and 750'. The base is between approximately 800' and 900' with an average thickness of 25'.
  3. The Seven Rivers formation (containing oil and gas) is estimated at 1,042' in Section 13, Township 20S, Range 28E

- IX. Describe the proposed stimulation program, if any.

- i. Proposed stimulation programs will be forthcoming. At this time we are considering a GasGun Technique which is a near wellbore gas fracture. The original wells were stimulated by nitro, which no longer exist, and others were sand fractured.

- X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).

1. Appropriate logging and test data will be submitted.

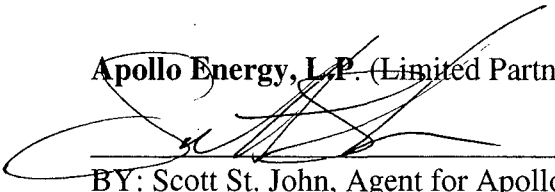
XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

1. No operable fresh water well within one mile radius of proposed area of review.

XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.

**Apollo Energy, L.P. affirms that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.**

**Apollo Energy, L.P. (Limited Partnership)**

  
BY: Scott St. John, Agent for Apollo Energy  
For William J. Dore, Manager of **BD Energy  
Company, LLC, General Partner of Apollo  
Energy, L.P. (Limited Partnership)**

XIII. All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

# Exhibit - A

**Apollo Energy, LP**

KB: 3250.0'  
DF: 3250.0'  
GL: 3250.0'  
Datum: 0.0' above GL

**USA # 70**

Russell Field

Greg Hall 4/20/07

API No 30-015-xxxxx

2,310' FWL & 1,980' FSL

Sec 13 - T20S - R28E

Eddy County, NM

TOC @ Surface

TOC @ Surface  
Cement circulated to surface

Packer Fluid in 2 3/8th X 5 1/2"

2 3/8th 4.7 #/ft EUE 8rd tubing  
drifted and tested

PBTD = CIBP @ 975'

Float Collar PBTD = 1160'

TD = 1200'

8 5/8th 24# J-55 Set @ 302

Surface pipe setting depth is an  
estimate. Casing depth subject to NM  
OCD requirements and subject to  
change

5 1/2 Tension Packer @ 775  
Approximate Depth

Yates Sand: Perforate interval  
Based on sand depth

Perforate & test 7-Rivers based on log  
for test

5 1/2" 14# J-55 casing @ 1200  
Long string is estimate only & depends  
on drilling depth & condition

**Apollo Energy, LP**

KB: 3250.0'

DF: 3250.0'

GL: 3250.0'

Datum: 0.0' above GL

TOC @ Surface

TOC @ Surface

Cement circulated to surface

Packer Fluid in 2 3/8th X 5 1/2"

2 3/8th 4.7 #/ft EUE 8rd tubing  
drifted and tested

PBTD = CIBP @ 975'

Float Collar PBTD = 1160'

**USA # 71**

Russell Field

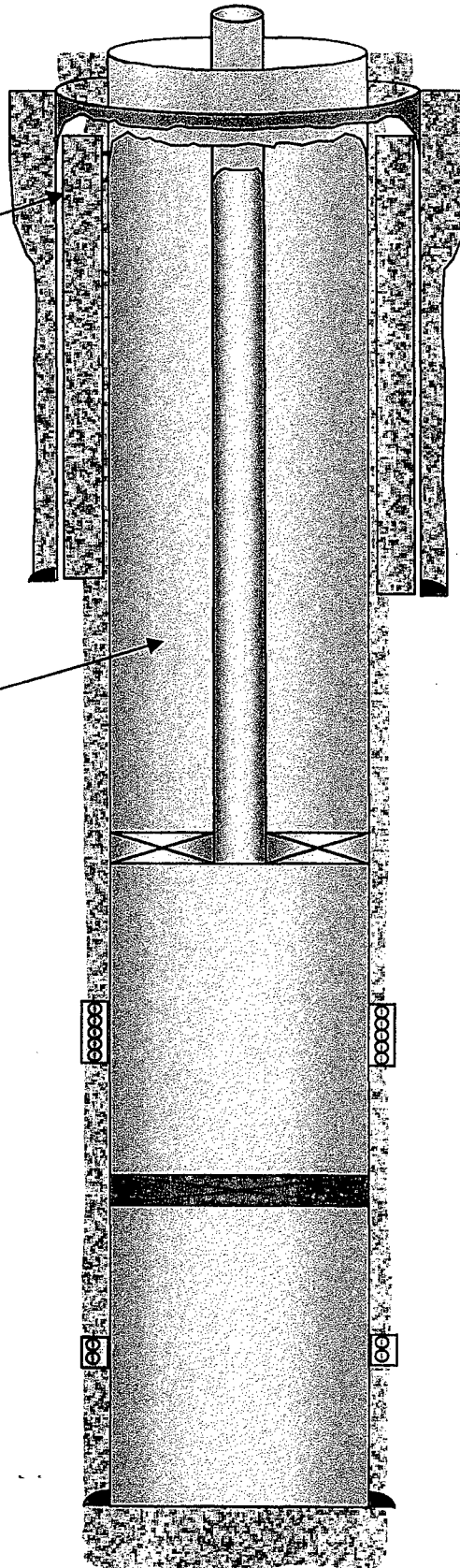
Greg Hall 4/20/07

API No 30-015-xxxxx

1,980' FWL & 1,110' FSL

Sec 13 - T20S - R28E

Eddy County, NM



8 5/8th 24# J-55 Set @ 302

Surface pipe setting depth is an  
estimate. Casing depth subject to NM  
OCD requirements and subject to  
change

5 1/2 Tension Packer @ 775  
Approximate Depth

Yates Sand: Perforate interval  
Based on sand depth

Perforate & test 7-Rivers based on log  
for test

5 1/2" 14# J-55 casing @ 1200  
Long string is estimate only & depends  
on drilling depth & condition

**TD = 1200'**

**Apollo Energy, LP**

KB: 3250.0'  
DF: 3250.0'  
GL: 3250.0'  
Datum: 0.0' above GL

**USA # 72**

Russell Field

Greg Hall 4/20/07

API No 30-015-xxxxx

680' FWL & 2,480' FSL

Sec 13 - T20S - R28E

Eddy County, NM

TOC @ Surface

TOC @ Surface  
Cement circulated to surface

Packer Fluid in 2 3/8th X 5 1/2"

2 3/8th 4.7 #/ft EUE 8rd tubing  
drifted and tested

PBTD = CIBP @ 975'

Float Collar PBTD = 1160'

TD = 1200'

8 5/8th 24# J-55 Set @ 302

Surface pipe setting depth is an  
estimate. Casing depth subject to NM  
OCD requirements and subject to  
change

5 1/2 Tension Packer @ 775  
Approximate Depth

Yates Sand: Perforate interval  
Based on sand depth

Perforate & test 7-Rivers based on log  
for test

5 1/2" 14# J-55 casing @ 1200  
Long string is estimate only & depends  
on drilling depth & condition

**Apollo Energy, LP**

KB: 3250.0'

DF: 3250.0'

GL: 3250.0'

Datum: 0.0' above GL

**USA # 73**

Russell Field

Greg Hall 4/20/07

API No 30-015-xxxxx

2,580 FWL & 1,550' FSL

Sec 13 - T20S - R28E

Eddy County, NM

TOC @ Surface

TOC @ Surface

Cement circulated to surface

Packer Fluid in 2 3/8th X 5 1/2"

2 3/8th 4.7 #/ft EUE 8rd tubing  
drifted and tested

PBTD = CIBP @ 975'

Float Collar PBTD = 1160'

TD = 1200'

8 5/8th 24# J-55 Set @ 302

Surface pipe setting depth is an  
estimate. Casing depth subject to NM  
OCD requirements and subject to  
change

5 1/2 Tension Packer @ 775  
Approximate Depth

Yates Sand: Perforate interval  
Based on sand depth

Perforate & test 7-Rivers based on log  
for test

5 1/2" 14# J-55 casing @ 1200  
Long string is estimate only & depends  
on drilling depth & condition



**Apollo Energy, LP**

KB: 3250.0'

DF: 3250.0'

GL: 3250.0'

Datum: 0.0' above GL

**USA # 74**

Russell Field

Greg Hall 4/20/07

API No 30-015-xxxxx

1,155' FWL & 1,485 FSL

Sec 13 - T20S - R28E

Eddy County, NM

TOC @ Surface

TOC @ Surface

Cement circulated to surface

Packer Fluid in 2 3/8th X 5 1/2"

2 3/8th 4.7 #/ft EUE 8rd tubing  
drifted and tested

PBTD = CIBP @ 975'

Float Collar PBTD = 1160'

TD = 1200'

8 5/8th 24# J-55 Set @ 302

Surface pipe setting depth is an  
estimate. Casing depth subject to NM  
OCD requirements and subject to  
change

5 1/2 Tension Packer @ 775  
Approximate Depth

Yates Sand: Perforate interval  
Based on sand depth

Perforate & test 7-Rivers based on log  
for test

5 1/2" 14# J-55 casing @ 1200  
Long string is estimate only & depends  
on drilling depth & condition

# Area of Review Map

R 20 E

11 12  
14 13

Russell USA No. 3  
Russell USA No. 2  
Russell USA No. 1  
Russell USA No. 18  
Russell USA No. 35  
Russell USA No. 28  
Russell USA No. 30  
Russell USA No. 54  
Russell USA No. 49  
Pre-Ongard #5  
Russell USA No. 11  
Russell USA No. 15  
Russell USA No. 27  
Russell USA No. 63  
Russell USA No. 50  
Russell USA No. 14  
Russell USA No. 26  
Russell USA No. 16  
Russell USA No. 9  
Russell USA No. 62  
Russell USA No. 53  
Russell USA No. 25  
Russell USA No. 61  
Russell USA No. 45  
Russell USA No. 33  
Russell USA No. 7  
Russell USA No. 59  
Russell USA No. 43  
Russell USA No. 40  
Russell USA No. 13  
Russell USA No. 44  
Russell USA No. 34  
Russell USA No. 4  
Russell USA No. 52  
Russell USA No. 37  
Russell USA No. 20  
Russell USA No. 23  
Russell USA No. 21  
Russell USA No. 8  
Russell USA No. 12  
Russell USA No. 57  
Russell USA No. 64  
Russell USA No. 19  
Russell USA No. 36  
Russell USA No. 43  
Russell USA No. 59  
Russell USA No. 33  
Russell USA No. 7  
Russell USA No. 45  
Russell USA No. 39  
Russell USA No. 60  
Russell USA No. 31  
Russell USA No. 38  
Russell USA No. 24  
Russell USA No. 55  
Russell USA No. 66  
Russell USA No. 61  
Russell USA No. 25  
Russell USA No. 9  
Russell USA No. 62  
Russell USA No. 14  
Russell USA No. 26  
Russell USA No. 16  
Russell USA No. 50  
Russell USA No. 41  
Russell USA No. 29  
Russell USA No. 46  
Russell USA No. 67  
Russell USA No. 63  
Russell USA No. 27  
Russell USA No. 11  
Russell USA No. 15  
Russell USA No. 49  
Russell USA No. 54  
Russell USA No. 30  
Russell USA No. 35  
Russell USA No. 28  
Russell USA No. 18  
Russell USA No. 1  
Russell USA No. 2  
Russell USA No. 3

Oxy Yates Fed. #7

Government AC No. 2  
Russell USA No. 29

SOUTH  
BATTERY

Wills Federal 10 y

Indigo Federal No. 1

SUGGERTH B. HICKS 23 24

Apollo Energy, L.P.  
Russell Field  
Area of Review Map

RUSSELL POOL

HICKS FEDERAL

# Tabulation Data

Form 9-331  
(May 1963)

UNITED STATES OF AMERICA  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.

NM 013543-A

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Canavan B

9. WELL NO.

1

10. FIELD AND POOL, OR WILDCAT

Russell

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA

Sec. 12-208-28X

12. COUNTY OR PARISH

Eddy

13. STATE

New Mexico

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ Dry Hole

2. NAME OF OPERATOR

H. K. Sweeney

3. ADDRESS OF OPERATOR

Box 1582, Roswell, New Mexico 88201

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\* See also space 17 below.)  
At surface

1980' From East Line and 1630' from South line  
of Section 12-208-28X

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other)

PULL OR ALTER CASING

MULTIPLE COMPLETE

ABANDON\*

CHANGE PLANS

SUBSEQUENT REPORT OF:

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

REPAIRING WELL

ALTERING CASING

ABANDONMENT\*

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

On March 21, 1966 well was plugged and abandoned by bailing hole completely dry and dumping 4 yards of ready-mix concrete on bottom. Pulled 8-5/8" casing set at 236'. Hole was filled with pit sand and regulation marker set in concrete. Location cleared and ready for inspection.

RECEIVED  
AUG 30 1967  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED

*Martha J. West*

TITLE

Production Clerk

DATE

August 27, 1967

(This space for Federal or State office use)

APPROVED  
OCT - 2 1967  
R. L. BECKMAN  
ACTING DISTRICT ENGINEER

TITLE

DATE

\*See Instructions on Reverse Side

Form 9-331  
(May 1963)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIP. TB\*  
(Other instructions on re-  
verse side)

Form approved.  
Budget Bureau No. 42-R1424.

SUNDRY NOTICES AND REPORTS ON WELLS	
(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)	
1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> <u>Dry Hole</u>	5. LEASE DESIGNATION AND SERIAL NO. <u>NM 013543-0</u>
2. NAME OF OPERATOR <u>H. N. Sweeney</u>	6. IF INDIAN, ALLOTTEE OR TRIBE NAME
3. ADDRESS OF OPERATOR <u>P. O. Box 1582, Roswell, N. M.</u>	7. UNIT AGREEMENT NAME
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <u>600' FNL &amp; 1780' FEL of section</u>	8. FARM OR LEASE NAME <u>Canavan A</u>
	9. WELL NO. <u>1</u>
	10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>
	11. SEC., T. R., M., OR BLM. AND SURVEY OR AREA <u>12-20S-28E</u>
14. PERMIT NO.	12. COUNTY OR PARISH 13. STATE <u>Eddy County, N. M.</u>
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>3274 GR</u>	

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

As approved orally by District Engineer, well was plugged and abandoned on March 27, 1966 by bailing hole completely dry and dumping total of 7 yards of ready-mix concrete. Pulled 8-5/8" casing set at 330'. Hole was completely filled with pit mud and regulation market set in concrete. Location cleared and ready for inspection.

RECEIVED

FEB 1 1969

O. C. C.  
ARTESIA OFFICE

18. I hereby certify that the foregoing is true and correct

SIGNED <u>H. N. Sweeney</u>	TITLE <u>Operator</u>	DATE <u>2-11-69</u>
(This space for Federal or State office use)		

APPROVED BY R. L. BECKMA  
CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**NM 013543-B**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME  
**Canavan**

9. WELL NO.  
**1**

10. FIELD AND POOL, OR WILDCAT  
**Wildcat**

11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA  
**12-203-28X**

12. COUNTY OR PARISH  
**Eddy**

13. STATE  
**New Mexico**

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL ☐ GAS WELL ☐ OTHER ☒ **Dry Hole**

2. NAME OF OPERATOR  
**H.M. Sweeney**

3. ADDRESS OF OPERATOR  
**P. O. Box 1582 - Roswell, New Mexico 88201**

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.\*  
See also space 17 below.)  
At surface  
**660' FWL and 660' FWL, Section 12-203-28X**

14. PERMIT NO.

15. ELEVATIONS (Show whether DF, RT, GR, etc.)  
**3268' GR**

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	

(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

Well plugged and abandoned on July 15, 1966 as follows:

Set 25-sack plug 2702-2840, pulled 7' casing from approximately 2520',  
25-sack plug from 1250-1337, 25-sack plug in base of 8-5/8" casing  
780-867, 10-sack plug in top of casing and collar with regulation marker  
set. Location cleared and ready for inspection.

RECEIVED

AUG 15 1967

O. C. C.  
ARTESIA, OFFICE

RECEIVED  
AUG 25 1967  
U. S. GEOLOGICAL SURVEY  
ARTESIA, NEW MEXICO

18. I hereby certify that the foregoing is true and correct

SIGNED Martha J. West TITLE Clerk DATE August 15, 1967

(This space for Federal or State office use)

APPROVED \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_

CONDITIONS OF APPROVAL, IF ANY:

APPROVED  
APR 15 1968  
H. L. BECKMAN

\*See Instructions on Reverse Side

Form 3160-5  
November 1983)  
Formerly 9-331)

UNITED STATES DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

Form approved.  
Budget Bureau No. 1004-0135  
Expires August 31, 1985

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different formation. Use "APPLICATION FOR PERMIT" for such proposals.)

1. OIL WELL <input type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input checked="" type="checkbox"/> Dry Hole	5. LEASE DESIGNATION AND SERIAL NO. NM 2377 REC-1
2. NAME OF OPERATOR Cities Service Oil and Gas Corporation	6. IF INDIAN, ALLOTTEE OR TRIBE NAME JAN 13 1986 O. C. D.
3. ADDRESS OF OPERATOR P.O. Box 1919 - Midland, Texas 79702	7. UNIT AGREEMENT NAME O. C. D.
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements. See also space 17 below.) At surface 2105' FSL & 1980' FWL	8. FARMOR LEASE NAME, OFFICE Government Y
14. PERMIT NO.	9. WELL NO. 2
15. ELEVATIONS (Show whether DF, RT, GR, etc.) 3255' GR	10. FIELD AND POOL, OR WILDCAT Undesignated Bone Springs
	11. SEC. T. R. M., OR BLK. AND SURVEY OR AREA Sec. 12-T20S-R28E
	12. COUNTY OR PARISH Eddy
	13. STATE New Mexico

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input checked="" type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) Well remedial data <input checked="" type="checkbox"/>	
(Other) <input type="checkbox"/>		(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. DESCRIBE PROPOSED OR COMPLETED OPERATIONS (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

O.T.D. 11,500' Shale, OPBTD 5630. This workover was unsuccessful and the well has been plugged and abandoned for the second time. MIRU a completion unit and DO to 6255' and perforated the Bone Springs w/4 SPF @ 6113, 17, 28, 34, 38, 42, 44, 51, 55, 62, 67, 76, 83, 85, 87, 89, 93, 95 and 6197'. Total 76 holes (0.50" dia & 14.86" pen). RIH w/2-7/8" tubing and a RTTS and set RTTS @ 5984'. Swabbed -0- 80 + 6 BLW/1 hr. Acidized Bone Spring Perfs 6113 - 6197' w/5000 gals 7-1/2% NeFe acid w/1000 SCF of N /bbl. Max press 2800#, min press 2200#, ATP 2300#, AIR 5.0 BPM, ISIP 1900#, 5 min SIP 1800#, 10 min SIP 1700#, 15 min SIP 1700#. Swabbed show of oil + 34 BLW/6 hrs. Fraced thru Bone Springs Perfs 6113 - 6197' w/35,000 gals 75 quality methanol foam + 45,000# 20/40 sand + 733,336 SCF of N. Frac screened out w/33,650 gals of 75 quality methanol foam and 41,000# 20/40 sand in formation, leaving 1350 gals of 75 quality methanol foam and 4000# 20/40 sand in the tubing. Max press 6000#, min press 3450#, ATP 3600#, AIR 16 BPM, ISIP 6000#, 10 min SIP 5170#, 15 min SIP 5050#, 120 min SIP 4300#. Flowed 55 - 75 MCFD thru 1" choke, FTP 60# and died. Swabbed -0- 80 + 10 BW/2 hrs and turned well thru test separator on 1" choke, FTP 50#, GR @ 45 MCFD. POOH w/tubing and RTTS. RIH w/2-7/8" tubing and RBP and set RBP @ 6009' and dumped 2 sacks of sand on top of RBP. POOH w/tubing. Perforated the Bone Springs w/2 SPF @ 5715, 18, 29, 34, 39, 44, 48, 55, 72, 76, 79, 81, 82, 84, 87, 91, 99, 5801, 06, 17, 66, 71, 74, 77, 80 and 5883'. Total of 50 holes (0.50" dia & 14.8" pen). RIH w/RTTS on 2-7/8" tubing and set RTTS @ 5602'. 14 hr SITP 1800#. Bled down to pit and flowed -0- BW/4 hrs. w/GR @ 79 MCFD thru 15/64" choke, FTP 60#. Acidized thru Bone Springs Perfs 5715 - 5883' w/5000 gals 15% NeFe HCL acid. Max press 1760#, min press 980#, ATP

(CONTINUED ON ATTACHED SHEET)

18. I hereby certify that the foregoing is true and correct

SIGNED Elmer Stutz TITLE Reg. Opr. Mgr. - Prod. DATE 12-18-84

(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE 1-8-86

CONDITIONS OF APPROVAL, IF ANY:

\*See Instructions on Reverse Side

Post ID-2  
1-8-85  
P417

Title 18 U.S.C. Section 1001; makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



(SUBMIT IN TRIPLICATE)

U. S. Land Office Las Cruces

Lease or permit No. 050797

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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.....	
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.....	X
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)

July 10, 1944, 19

Well No. 5 is located 705 ft. from <sup>N</sup>/<sub>S</sub> line and 2025 ft. from <sup>E</sup>/<sub>W</sub> line of sec. 13

SW 1/4 of SE 1/4 20S 28E N. M. P. M.  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Russell Eddy New Mexico  
(Field) (County or Subdivision) (State or Territory)

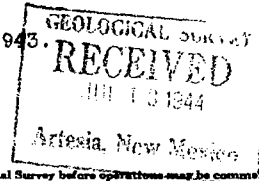
The elevation of the derrick floor above sea level is ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudlogging jobs, cementing points, and all other important proposed work)

All water shut off with cement and hole plugged.  
Dry hole marker is up according to regulations governing such markers. The pit is leveled and all materials removed from the location.

Inspection approval dated December 28, 1943.



Pre-argued #5

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

Company George Turner, M.D.

Address 913 1st. Nat'l Bnk. Bldg.,

El Paso, Texas.

By George Turner  
George Turner,  
Title Owner & Operator.

30-015-02359  
Buddy Delong says  
this well is a  
WSW - Federal  
/s/

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

**SUNDRY NOTICES AND REPORTS ON WELLS**

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.  
Use "APPLICATION FOR PERMIT—" for such proposals

**SUBMIT IN TRIPLICATE**

1. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other	8. Well Name and No. 008609
2. Name of Operator OXY USA Inc. 16696	9. API Well No. 30-015-21514
3. Address and Telephone No. P.O. Box 50250 Midland, TX 79710 915-685-5717	10. Field and Pool, or Exploratory Area Burton Flat Morrow, East
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1800 FNL 1980 FWL SENW(F) Sec 13 T20S R28E	11. County or Parish, State Eddy NM

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> Notice of Intent <input type="checkbox"/> Subsequent Report <input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Abandonment <input type="checkbox"/> Recompletion <input checked="" type="checkbox"/> Plugging Back <input type="checkbox"/> Casing Repair <input type="checkbox"/> Altering Casing <input type="checkbox"/> Other	<input type="checkbox"/> Change of Plans <input type="checkbox"/> New Construction <input type="checkbox"/> Non-Routine Fracturing <input type="checkbox"/> Water Shut-Off <input type="checkbox"/> Conversion to Injection <input type="checkbox"/> Dispose Water <small>(Note: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)</small>

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)\*

SEE OTHER SIDE

RECEIVED

FEB 11 1991

OIL CON. DIV.  
DIST. 2

14. I hereby certify that the foregoing is true and correct

Signed David Stewart Title Regulatory Analyst Date 1/9/91  
(This space for Federal or State office use)  
Approved by (ORIG. SCD.) JOE G. LARA Title PETROLEUM ENGINEER Date 2/12/91  
Conditions of approval, if any:

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statement or representations as to any matter within its jurisdiction.

\*See instruction on Reverse Side



December 21, 1995

# GOVERNMENT AC #2

Current Configuration

Elevation: GL:3255' KB: 14'

1800' FNL & 1980' FWL

Sec 13, T20S, R28E

Eddy Co., New Mexico

Tubing: (Top to Bottom)  
214 jts 2-7/8", 6.5#, N-80  
Seating Nipple  
2-7/8" X 2-3/8" XO  
Baker A-3 Loc-Set Pkr

Sqz Hole Perf: (4 spf) @ 6,672'  
Sqz'd w/ 300 sx cmt

Bone Spring Perfs: (1 spf)  
6,672', 77', 85', 89', 96', 6,715',  
20', 29', 38', 46', 59', 67', 76', 83',  
92', 98', 6,818', 25', 32', 42', 68',  
74', 88', 94'

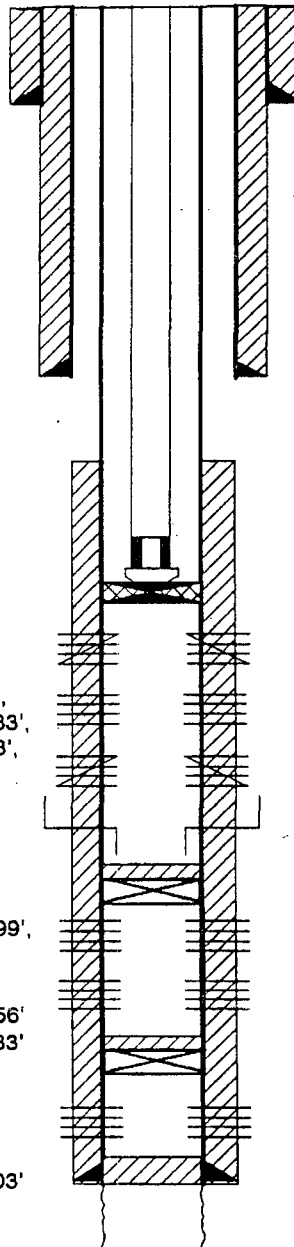
Sqz Hole Perf: (4 spf) @ 7,100'  
Sqz'd w/ 250 sx cmt

Atoka Perfs: (2 spf)  
10,493', 94', 95', 96', 97', 98', 99',  
10,523', 24', 25', 26', 27'

Atoka Perfs: (1 spf)  
10,643', 45', 47', 49', 52', 54', 56',  
58', 63', 65', 67', 71', 73', 76', 83'

Morrow Perfs: (2 spf)  
10,940'- 45', 11,002'- 06',  
11,058'- 64', 11,134'- 36',  
11,153'-56', 59'- 66', 11,201'- 03',  
11,245'- 49', 55'- 58', 78'- 82'

Prepared By: Brian Singletary



13-3/8", 48#, H-40 STC @ 900'  
Cmt'd w/775 sx-circ'd

9-5/8", 36#, K-55 ST&C  
Set @ 3000'  
Cmt'd w/1100 sx-circ'd

TOC @ 5675' (Bond log)

Seating Nipple @ 6,548.5'  
2-3/8" X 2-7/8" XO @ 6,549.6'  
Baker Loc-Set pkr @ 6,550.5'

New PBTD: 7,043'

Original TOC @ 7,420'  
5-1/2" Csg XO @ 10,315'  
17# above & 20# below

CIBP @ 10,450' w/ 35' cmt

CIBP @ 10,900' w/ 35' cmt

5-1/2", 17 & 20#, K-55 & N-80  
Set @ 11,380'  
Cmt'd w/1000 sx

PBTD: 11,335'  
TD: 11,610'

WORKOVER PROCEDURES  
Government AC #2

- 1) MIRU rig. Kill well w/2% KCL water. ND free and NU BOP's.
- 2) Release Baker Loc-Set and POOH. Send pkr in for redress.
- 3) RU WL. Set CIBP at 6,620' (above Bone Springs perms). Dump ball  $\pm$  50' of cmt on top of CIBP.
- 4) PU 4" csg gun w/2' loaded 4 spf and TIH. Perforate casing at  $\pm$  5,400'. POOH and PU 5-1/2" cement retainer and TIH. Set retainer at  $\pm$  5,350'. POOH and RD WL.
- 5) PU stinger for retainer and TIH. RU BJ. Sting into retainer and test tbg to 5,000 psi. Test annulus to 3,000 psi.
- 6) Shift retainer to pump in. Open intermediate casing valve and attempt to break circulation. If circulation is obtained C&CM until good returns are established.
- 7) Circulate cmt behind 5-1/2" casing as per the attached recommendation from BJ. Sting out of retainer and POOH w/tbg. WOC.
  - a) Bring TOC to at least 2,900'.
- 8) RU WL. Run a bond log across 5,350' - TOC. RIH w/4" select fire csg gun loaded 2 spf. Perforate the Brushy Canyon in the following intervals:  
5,216', 17', 18', 19', 20', 21', 22', 23', 24', 25', 26', 27', 28', 29', 30'.  
Total of 30 holes.
- 9) TIH w/treating pkr. Set pkr @  $\pm$  5,150'. RU BJ. Acidize perforations dropping 60 balls throughout treatment as per attached recommendation.
- 10) RU swab and swab well in. Allow to clean up. RD rig. Report swab results including any oil or gas show to Midland.
  - a) Proceed w/frac as per Midland's recommendation.
  - b) If Brushy Canyon is unsuccessful, proceed w/ Upper Cherry Canyon recompletion as per Midland's recommendation.
- 11) If well does not have enough energy to flow naturally, prepare to install a pumping unit. POOH w/pkr. Set anchor @ 5,150' w/ seating nipple @ 5,250'. RIH w/5,250' 3/4" D (API) rods, and 1.25" pump to 5,250'. Install Lufkin Conventional C-228D-246-86 pumping unit.

NAME: Apollo Energy, LP LEASE: Russell USA no. 001

API# 3001502345 Type: Injection

Location: 330 FSL & 2310 FEL Sec: 12 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 471' w50 sx mud; 7" to 751' w75 sx Mud

Date: 12/3/1944 Depth: 881' Open Hole: X Perforated:

Completion: 75 qts 844-881

NAME: Apollo Energy, LP LEASE: Russell USA no. 002

API# 3001502346 Type: Injection

Location: 330 FSL & 1650 FEL Sec: 12 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 765' w100 sx Mud; 5 1/2 to 775 w100 sx Mud

Date: 3/23/1945 Depth: 908' Open Hole: X Perforated:

Completion: 70 qts 863-900

NAME: Apollo Energy, LP LEASE: Russell USA no. 003

API# 3001502348 Type: Injection

Location: 663 FSL & 2000 FEL Sec: 12 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 746' w100 sx Mud

Date: 6/18/1948 Depth: 890' Open Hole: X Perforated:

Completion: 30 qts 869-884

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 004

**API#** 3001502350      **Type:** Oil

**Location:** 660 FSL & 1980 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 712' w 75 sx Mud

**Date:** 9/14/1942 **Depth:** 908' **Open Hole:** X **Perforated:**

**Completion:** 40 qts 790-810

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 005

**API#** 3001502351      **Type:** Oil

**Location:** 1980 FSL & 1980 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8 to 470'; 7" to 724' w 50 sx

**Date:** 10/26/1942 **Depth:** 858' **Open Hole:** X **Perforated:**

**Completion:** 30 qts 812-827

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 006

**API#** 3001502352      **Type:** Oil

**Location:** 1980 FSL & 660 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8' to 446' w 50 sx; 7" to 740' w 50 sx circulated

**Date:** 3/25/1942 **Depth:** 817' **Open Hole:** X **Perforated:**

**Completion:** 30 qts. 785-805

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 007

**API#** 3001502353     **Type:** Oil

**Location:** 1980 FSL & 1968 FEL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 9" to 473' w 50 sx; 7" to 725' w 50 sx

**Date:** 2/25/1943     **Depth:** 869'     **Open Hole:** X     **Perforated:**

**Completion:** 30 qts 845-860

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 008

**API#** 3001502355     **Type:** Oil

**Location:** 660 FSL & 660 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8 to 430' w 50 sx; 7" to 756 w 5 sx

**Date:** 4/25/1942     **Depth:** 810'     **Open Hole:** X     **Perforated:**

**Completion:** 30 qts. 780-810

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 009

**API#** 3001502356     **Type:** Oil

**Location:** 1980 FNL & 1980 FEL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 13" to 120' pulled, 10' to 220' w ? Sx; 8 5/8" to 281' w 50 sx, 7" to 780 w 135 sx

**Date:** 8/22/1943     **Depth:** 845'     **Open Hole:** X     **Perforated:**

**Completion:** 20 qts. 817-837

NAME: Apollo Energy, LP LEASE: Russell USA no. 010

API# 3001502357 Type: Oil

Location: 2310 FNL & 990 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 13" to 82' w None mudded - pulled; 10 3/4" to 242' w none pulled; 7" to 736' w 125 sx

Date: 9/12/1944 Depth: 873' Open Hole: X Perforated:

Completion: 80 qts. 770-853

NAME: Apollo Energy, LP LEASE: Russell USA no. 011

API# 3001502358 Type: Oil

Location: 990 FNL & 2310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 10 3/4 to 255' w full hole; 7" to 770' w 125 sx

Date: 2/2/1945 Depth: 856' Open Hole: X Perforated:

Completion: 50 qts. 831-856

NAME: Apollo Energy, LP LEASE: Russell USA no. 012

API# 3001502360 Type: Oil

Location: 996 FSL & 1005 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 202' w ?; 7" to 736' w 75 sx

Date: 4/25/1945 Depth: 829' Open Hole: X Perforated:

Completion: 50 qts. 803-822



NAME: Apollo Energy, LP LEASE: Russell USA no. 013

API# 3001502361 Type: Oil

Location: 990 FSL & 2310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 1/4" to 354' Circ.; 7" to 714" w 75 sx

Date: 9/18/1944 Depth: 835' Open Hole: X Perforated:

Completion: 45 qts. 806-830

NAME: Apollo Energy, LP LEASE: Russell USA no. 014

API# 3001502362 Type: Oil

Location: 1650 FNL & 2310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 293' w ?; 7" to 756' w 75 sx

Date: 3/17/1945 Depth: 859' Open Hole: X Perforated:

Completion: 40 qts. 813-833

NAME: Apollo Energy, LP LEASE: Russell USA no. 015

API# 3001502363 Type: Oil

Location: 996 FNL & 1005 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 303' w ? Sx; 7" to 740' w 100 sx

Date: 5/21/1945 Depth: 878' Open Hole: X Perforated:

Completion: 40 qts. 855-871

NAME: Apollo Energy, LP LEASE: Russell USA no. 016

API# 3001502364 Type: Oil

Location: 1656 FNL & 1005 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 315' w ?; 7" to 800' w 100 sx

Date: 6/15/1945 Depth: 880' Open Hole: X Perforated:

Completion: 40 qts. 864-880

NAME: Apollo Energy, LP LEASE: Russell USA no. 017

API# 3001502365 Type: Oil

Location: 2322 FSL & 1005 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction:

Date: Depth: Open Hole: Perforated:

Completion:

NAME: Collier Pet Corp LEASE: Wills Federal 10y

API# 3001502366 Type: Oil

Location: 2222 FSL-1005 WSL Sec: 14 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 45' w 35sx 4 1/2' to 747' w 140 sx

Date: 5/10/1962 Depth: 810 Open Hole: X Perforated:

Completion:

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 018

**API#** 3001502367     **Type:** Oil

**Location:** 200 FNL & 2340 FEL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 733' w 100 sx; 5 1/2" to 217' w 10 sx

**Date:** 9/5/1945 **Depth:** 867' **Open Hole:** X **Perforated:**

**Completion:** 50 qts. 842-867

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 019

**API#** 3001502368     **Type:** Oil

**Location:** 1656 FSL & 1005 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 689' w 80 sx

**Date:** 1/30/1946 **Depth:** 825' **Open Hole:** X **Perforated:**

**Completion:** 50 qts. 820-825

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 020

**API#** 3001502369     **Type:** Oil

**Location:** 330 FSL & 1005 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 557' w 85 sx Circ.

**Date:** 2/20/1946 **Depth:** 797' **Open Hole:** X **Perforated:**

**Completion:** 50 qts. 792-797

NAME: Apollo Energy, LP LEASE: Russell USA no. 021

API# 3001502370 Type: Oil

Location: 996 FSL & 330 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 681' w 125 sx Circ.

Date: 8/19/1946 Depth: 811' Open Hole: X Perforated:

Completion: 30 qts. 796-811

NAME: Apollo Energy, LP LEASE: Russell USA no. 022

API# 3001502371 Type: Oil

Location: 1656 FSL & 330 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 679' w 125 sx Circulated

Date: 9/16/1946 Depth: 808' Open Hole: X Perforated:

Completion: 100 qts. 775-800

NAME: Apollo Energy, LP LEASE: Russell USA no. 023

API# 3001502372 Type: Oil

Location: 338 FSL & 352 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 670' w 150 sx Circulated

Date: 9/28/1946 Depth: 782' Open Hole: X Perforated:

Completion: 30 qts. 767-782

NAME: Apollo Energy, LP LEASE: Russell USA no. 024

API# 3001502373 Type: Oil

Location: 2322 FNL & 2333 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 775' w 150 sx Circulated

Date: 6/29/1947 Depth: 849' Open Hole: X Perforated:

Completion: 40 qts. 829-849

NAME: Apollo Energy, LP LEASE: Russell USA no. 025

API# 3001502374 Type: Oil

Location: 2322 FNL & 1665 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 717' w 150 sx Circulated

Date: 7/8/1947 Depth: 847' Open Hole: X Perforated:

Completion: 30 qts. 832-847

NAME: Apollo Energy, LP LEASE: Russell USA no. 026

API# 3001502375 Type: Oil

Location: 1656 FNL & 1665 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 732' w 150 sx

Date: 7/20/1947 Depth: 854' Open Hole: X Perforated:

Completion: 40 qts. 834-854

NAME: Apollo Energy, LP LEASE: Russell USA no. 027

API# 3001502376 Type: Oil

Location: 996 FNL & 1665 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 752' w 150 sx Circulated

Date: 7/29/1947 Depth: 870' Open Hole: X Perforated:

Completion: 40 qts. 850-870

NAME: Apollo Energy, LP LEASE: Russell USA no. 028

API# 3001502377 Type: Oil

Location: 330 FNL & 1665 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7"@ 652' w 150 sx. Cirulated

Date: 8/9/1947 Depth: 875" Open Hole: x Perforated:

Completion: 40 qts 845-865

NAME: Apollo Energy, LP LEASE: Russell USA no. 029

API# 3001502378 Type: Oil

Location: 1980 FNL & 1980 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 9" to 453' w 50 sx; 7" to 725' w 50 sx

Date: 4/7/1943 Depth: 815' Open Hole: X Perforated:

Completion: 30 qts 794-805

NAME: Apollo Energy, LP LEASE: Russell USA no. 030

API# 3001502379 Type: Oil

Location: 660 FNL & 1980 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 10" to 190'; 8 5/8 to 365'; 7" to 732' w 100 sx

Date: 9/4/1943 Depth: 850' Open Hole: X Perforated:

Completion: 40 qts. 825-845 845-850

NAME: Apollo Energy, LP LEASE: Russell USA no. 031

API# 3001502380 Type: Oil

Location: 2310 FNL & 1650 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 10" to 212' 50 sx mud; 7" to 702' 75 sx

Date: 10/24/1944 Depth: 816' Open Hole: X Perforated:

Completion: 50 qts. 787-813

NAME: Apollo Energy, LP LEASE: Russell USA no. 032

API# 3001502381 Type: Oil

Location: 1017 FNL & 2310 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 10" to 214'; 8" to 450" w 50 sx; 7" to 728' w 75 sx

Date: 6/6/1948 Depth: 870' Open Hole: X Perforated:

Completion: 5 qts 845-860

NAME: Apollo Energy, LP LEASE: Russell USA no. 033

API# 3001502382 Type: Oil

Location: 2322 FSL & 2337 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 294' w 25 sx mud; 7" to 706' w 100 sx el toro

Date: 5/1/1945 Depth: 870' Open Hole: X Perforated:

Completion: 50 qts. 845-870

NAME: Apollo Energy, LP LEASE: Russell USA no. 034

API# 3001502383 Type: Oil

Location: 959 FSL & 1669 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 283'; 7" to 703 w 100sx el toro

Date: 5/25/1945 Depth: 814' Open Hole: X Perforated:

Completion: 50 qts. 788-813

NAME: Apollo Energy, LP LEASE: Russell USA no. 035

API# 3001502384 Type: Oil

Location: 332 FNL & 2340 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 354'; 7" to 745' w 100 sx circulated to surface

Date: 6/19/1946 Depth: 847' Open Hole: X Perforated:

Completion: 50 qts. 845-847



**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 036

**API#** 3001502385      **Type:** Oil

**Location:** 1659 FSL & 1670 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8" to 362' mudded hole; 7" to 712' w 75 sx

**Date:** 7/14/1946 **Depth:** 835' **Open Hole:** X **Perforated:**

**Completion:** 50 qts. 831-835

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 037

**API#** 3001502386      **Type:** Oil

**Location:** 331 FSL & 1669 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8" to 318' mudded hole; 7" to 695' w 75 sx circulated between strings

**Date:** 9/14/1946 **Depth:** 810' **Open Hole:** X **Perforated:**

**Completion:** 40 qts. 790-810

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 038

**API#** 3001502387      **Type:** Oil

**Location:** 2321 FNL & 2339 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8" to 301' mudded; 7" to 731' w 75 sx circulated

**Date:** 11/27/1946 **Depth:** 826' **Open Hole:** X **Perforated:**

**Completion:** 60 qts. 796-826

NAME: Apollo Energy, LP LEASE: Russell USA no. 039

API# 3001502388 Type: Oil

Location: 2322 FSL & 2339 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 287'; 7" to 765' w 100 el toro

Date: 7/24/1945 Depth: 852' Open Hole: X Perforated:

Completion: 50 qts. 826-850

NAME: Apollo Energy, LP LEASE: Russell USA no. 040

API# 3001502389 Type: Oil

Location: 1658 FSL & 2338 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" o 316'; 7" to 728' w 75 sx circulated b/tw strings

Date: 2/20/1947 Depth: 844' Open Hole: X Perforated:

Completion: 40 qts. 824-844

NAME: Apollo Energy, LP LEASE: Russell USA no. 041

API# 3001502390 Type: Oil

Location: 1658 FNL & 2339 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 293' mudded; 7" to 734' w 75 sx circulated between strings

Date: 4/2/1947 Depth: 829' Open Hole: X Perforated:

Completion: 60 qts. 799-829

NAME: Apollo Energy, LP LEASE: Russell USA no. 042

API# 3001502391 Type: Oil

Location: 2322 FSL & 1669 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 282'; 7" to 716' w 75 sx circulated strings

Date: 5/12/1947 Depth: 834' Open Hole: X Perforated:

Completion: 60 qts. 803-833

NAME: Apollo Energy, LP LEASE: Russell USA no. 043

API# 3001502392 Type: Oil

Location: 1650 FSL & 2339 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" to 965' w 200 sx

Date: 7/9/1948 Depth: 824' Open Hole: X Perforated:

Completion: 50 qts. 797-822

NAME: Apollo Energy, LP LEASE: Russell USA no. 044

API# 3001502393 Type: Oil

Location: 959 FSL & 2339 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 686' w 125 sx circulated

Date: 7/17/1948 Depth: 820' Open Hole: X Perforated:

Completion: 50 qts. 795-820

NAME: Apollo Energy, LP LEASE: Russell USA no. 045

API# 3001502394 Type: Oil

Location: 2322 FSL & 1669 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 742' w 125 sx circulated

Date: 8/2/1948 Depth: 869' Open Hole: X Perforated:

Completion: 40 qts. 849-869

NAME: Apollo Energy, LP LEASE: Russell USA no. 046

API# 3001502395 Type: Oil

Location: 1658 FNL & 1669 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 682' w 125 sx circulated

Date: 7/24/1948 Depth: 804' Open Hole: X Perforated:

Completion: 30 qts. 789-804

NAME: Apollo Energy, LP LEASE: Russell USA no. 047

API# 3001502398 Type: Injection

Location: 330 FSL & 330 FEL Sec: 14 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 655' w 125' sx Circ.

Date: 7/17/1946 Depth: 993' Open Hole: X Perforated:

Completion: 40 qts. 756-770

NAME: Apollo Energy, LP LEASE: Russell USA no. 048

API# 3001502399 Type: Injection

Location: 996 FSL & 330 FEL Sec: 14 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 662' w 125 sx Circ

Date: 7/30/1946 Depth: 784' Open Hole: X Perforated:

Completion: 40 qts. 764-784

NAME: Apollo Energy, LP LEASE: Russell USA no. 049

API# 3001506186 Type: Oil

Location: 660 FNL & 2000 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 6 5/8 to 816 w 100 sx

Date: 11/24/1948 Depth: 875' Open Hole: X Perforated:

Completion:

NAME: Apollo Energy, LP LEASE: Russell USA no. 050

API# 3001506187 Type: Oil

Location: 1305 FNL & 1980 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 823" w 100 sx

Date: 3/14/1951 Depth: 846' Open Hole: X Perforated:

Completion:

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 051

**API#** 3001506188     **Type:** Oil

**Location:** 1325 FSL & 660 FWL **Sec:** 13 **Township** 20S **Range:** 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 4 1/2 to 827' w 125 sx

**Date:** 12/1/1956 **Depth:** 827 **Open Hole:**     **Perforated:** X

**Completion:** 4 shots per foot 791' to 802' + 808' 816' frac 500# 20/40 sand

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 052

**API#** 3001506189     **Type:** Oil

**Location:** 660 FSL & 1315 FWL **Sec:** 13 **Township** 20S **Range:** 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 4 1/2" to 815' w509 sx

**Date:** 1/18/1957 **Depth:** 815 **Open Hole:**     **Perforated:** X

**Completion:** Shot 60 qts 803 to 780

**NAME:** Apollo Energy, LP     **LEASE:** Russell USA no. 053

**API#** 3001506191     **Type:** Oil

**Location:** 2310 FNL & 990 FEL **Sec:** 13 **Township** 20S **Range:** 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 257' w10 sx, 4 1/2 @ 884' w 162 sx

**Date:** 2/5/1957 **Depth:** 884' **Open Hole:**     **Perforated:** X

**Completion:** 60 qts 863 to 884

NAME: Apollo Energy, LP LEASE: Russell USA no. 054

API# 3001510099 Type: Oil

Location: 660 FNL & 2630 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" @ 157' w 26 sx, 4 1/2 @ 826' w 100 sx

Date: 11/18/1963 Depth: 857 Open Hole: X Perforated:

Completion: 46 qts. 825 to 856'

NAME: Apollo Energy, LP LEASE: Russell USA no. 055

API# 3001510100 Type: Oil

Location: 1980 FNL & 2630 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" @ 160' w 25 sx pumped, 4 1/2 @ 806' w 60 sx pumped

Date: 9/6/1963 Depth: 825 Open Hole: X Perforated:

Completion: 22 qts 810 - 825

NAME: Apollo Energy, LP LEASE: Russell USA no. 056

API# 3001510204 Type: Oil

Location: 2630 FNL & 1330 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 8 5/8" @ 150' w 25 sx, 6 5/8 @ 126' at 5 1/2 @ 655' w 60 sx (taperod)

Date: 2/19/1963 Depth: 810 Open Hole: x Perforated:

Completion: 75 qts 780 - 809

NAME: Apollo Energy, LP LEASE: Russell USA no. 057

API# 3001510214 Type: Oil

Location: 1330 FSL & 1980 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" @ 95' w 15 sx, 4 1/2 @ 800 w 100

Date: 7/29/1963 Depth: 820 Open Hole: X Perforated:

Completion: 18 qts 806' - 818'

NAME: Apollo Energy, LP LEASE: Russell USA no. 058

API# 3001510240 Type: Oil

Location: 660 FNL & 1310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" @ 160' w 28 sx, 4 1/2 @ 858' w 50 sx

Date: 10/22/1963 Depth: 881 Open Hole: X Perforated:

Completion: 45 qts. 880 - 457

NAME: Apollo Energy, LP LEASE: Russell USA no. 059

API# 3001510250 Type: Oil

Location: 1980 FSL & 2630 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" @ 97' w 25 sx, 4 1/2 @ 818 w 60 sx

Date: 6/22/1963 Depth: 848 Open Hole: Perforated:

Completion: 30 qts 823-848



NAME: Apollo Energy, LP LEASE: Russell USA no. 061

API# 3001510421 Type: Oil

Location: 2630 FNL & 1980 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 160' w 15 sx, 4 1/2 to 850'w 60 sx

Date: 6/29/1964 Depth: 863 Open Hole: X Perforated:

Completion: 22 qts 863 - 848

NAME: Apollo Energy, LP LEASE: Russell USA no. 062

API# 3001510422 Type: Oil

Location: 1980 FNL & 1310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 145' w 22 sx, 4 1/2 to 839'w 60 sx

Date: 7/20/1964 Depth: 461 Open Hole: X Perforated:

Completion: 46 qts 837 - 860

NAME: Apollo Energy, LP LEASE: Russell USA no. 063

API# 3001510423 Type: Oil

Location: 1310 FNL & 1310 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 161' w 15 sx, 5 1/2 to 847' w 60 sx

Date: 9/25/1964 Depth: 866 Open Hole: X Perforated:

Completion: 40 qts

NAME: Apollo Energy, LP LEASE: Russell USA no. 064

API# 3001510424 Type: Oil

Location: 1330 FSL & 1330 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 165' w 15 sx, 5 1/2 to 805' w 75 sx

Date: 11/9/1964 Depth: 826 Open Hole: X Perforated:

Completion: 50 qts

NAME: Apollo Energy, LP LEASE: Russell USA no. 066

API# 3001520230 Type: Oil

Location: 2635 FNL & 2635 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 172' w 15 sx, 5 1/2 to 818' w 50 sx

Date: 6/27/1969 Depth: 859' Open Hole: X Perforated:

Completion: 40 qts 835 to 859

NAME: Apollo Energy, LP LEASE: Russell USA no. 067

API# 3001520231 Type: Oil

Location: 1328 FNL & 2635 FEL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7" to 168' w 15 sx, 5 1/2 to 802' w 50 sx

Date: 8/15/1969 Depth: 834 Open Hole: X Perforated:

Completion: 50 qts 810 to 834

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 068

**API#** 3001520463      **Type:** Oil

**Location:** 10 FSL & 1980 FEL Sec: 12 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 7" to 178' w 15 sx, 5 1/2 to 842' w 50 sx

**Date:** 1/3/1972 **Depth:** 864 **Open Hole:** X **Perforated:**

**Completion:** 43 qts 842 to 864

**NAME:** Apollo Energy, LP      **LEASE:** Russell USA no. 069

**API#** 3001526491      **Type:** Oil

**Location:** 1170 FNL & 1965 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 8 5/8" to 302' w 300 sx circulated; 4 1/2 to 1100" w 250 sx circulated

**Date:** 12/2/1990 **Depth:** 972' **Open Hole:**      **Perforated:** X

**Completion:** 800-805 10HLS 1500 gals 15% NEFE; 859-865 12 HLS, no treatment, 911-923 20 hls 3000 gal 15% NEFE

**NAME:** Oxy USA WTP Limited Partnership      **LEASE:** Government AC No. 002

**API#** 3001521514      **Type:** Gas

**Location:** 1800 FNL & 1980 FWL Sec: 13 Township 20S Range: 28E

**Field and Formation:** Russell USA Field; Delaware Formation

**Construction:** 13 3/8, 48 @900' w 775 sax Circ, 9 5/8" @ 300' w 1,100 sacks circ, 5 1/2 17 + 20 @ 11,610 PCTD, 5,240 top atcement, 2740

**Date:** 6/1/1975 **Depth:** 5240' **Open Hole:** x **Perforated:**

**Completion:** PB Morrow, Bone Springs, open Brushing 5216-5230 Acidized w 1000 gals.15% NEFC

NAME: Thunderbolt Petroleum, LLC LEASE: Indigo Federal No. 001

API# 3001526478 Type: Oil

Location: 1650' FSL & 660 FWL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Delaware Formation

Construction: 13 3/8" to 300 w 330sx Circulated, 8 5/8" to 2875 w 1320 sx 1" with 200sx, 5 1/3 to 7800" w 1050 sx

Date: 2/7/1991 Depth: 7800' Open Hole: x Perforated:

Completion: P.B. TD 5,320 @5009'

NAME: NORDSTRAND ENGINEERING INC LEASE: Oxy Yates Fed #7  
API# 3001530800

Type: Oil Location: 330 FNL & 990 FNL Sec: 13 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 7 7/8", 5 1/2 w J55@15.5/ ft, 5 1/2" surface circulate casing 525 sk class c 2% CACL

Date: Depth: 850' Open Hole: Perforated:

Completion: No Information Available

NAME: EGL Resources, Inc LEASE: Oxy Yates Fed #3 API# 3001530594

Type: Gas Location: 660 FEL & 2310 FNL Sec: 14 Township 20S Range: 28E

Field and Formation: Russell USA Field; Yates Formation

Construction: 5 1/2 J55, 1505# 765', hole size 7 7/8, 776 sx cls C circ

Date: Depth: 890' Open Hole: Perforated:

Completion: No Information Available

**NAME:** Timothy D. Collier **LEASE:** Pre - Ongard Well No. 5  
**API#** 3001502359

**Type:** Oil **Location:** 705 FSL 2025 FEL **Sec:** 13 **Township** 20S **Range:** 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 10"/222' ; 8-5/8" 566' w50 sacks of cement, 7" 710' w 50 sx of cement, Mudded

**Date:** 710' **Depth:** 710' **Open Hole:** Perforated:

**Completion:** Solid Nitro. 40 qts. 6-5-43 842 to 862 to bottom

**NAME:** LEASE: No Information on OCD **API#** 3001502354

**Type:** Location: Sec: Township Range:

**Field and Formation:**

**Construction:**

**Date:** Depth: Open Hole: Perforated:

**Completion:**

**NAME:** Nordsand Engineering **LEASE:** Oxy Yates 13 Federal No. 016

**API#** 3001531428 **Type:** Oil

**Location:** 380 FNL & 990 FWL **Sec:** 13 **Township** 20S **Range:** 28E

**Field and Formation:** Russell USA Field; Yates Formation

**Construction:** 1 7/8, 5 1/2 K55@876' 500 sx calss circ, 2 3/8 870'

**Date:** 11/23/1999 **Depth:** 915' **Open Hole:** x **Perforated:**

**Completion:** OH 876' - 915'

Place El Paso, Texas  
Date July 26, 1950

Designate UNIT well is located  
in NW 1/4 Sec 24, T20S, R28E

MAIL TO:

Glenn Staley  
Proration Office  
Hobbs, New Mexico.

NOTICE OF COMPLETION OF (Lease)

Sec. 24 Twp. 20S Rge. 28E Well No. 1 660 feet from  
line: 660 feet from line:

DATE STARTED June 6, 1950  
DATE COMPLETED July 22, 1950  
ELEVATION 3240  
TOTAL DEPTH S.L.M. 981'  
CABLE TOOLS 981' ROTARY TOOLS

**RECEIVED**  
D JUL 29 1950

Oil & Gas Comm.

Artesia Office

D	C	B	A
E	F	G	H
L	K	J	I
M	N	O	P

CASING RECORD

SIZE 8 5/8" DEPTH 258' SAX CEMENT Landed  
SIZE 7" DEPTH 614' SAX CEMENT 75 sacks  
SIZE \_\_\_\_\_ DEPTH \_\_\_\_\_ SAX CEMENT \_\_\_\_\_

TUBING RECORD

SIZE 2" Upset DEPTH 964'

ACID RECORD

NO. GALS. 750  
NO. GALS. \_\_\_\_\_  
NO. GALS. \_\_\_\_\_

SHOT RECORD

NO. QTS. No  
NO. QTS. \_\_\_\_\_  
NO. QTS. \_\_\_\_\_

FORMATION TOPS

Anhydrite None above the salt  
Top salt 355'  
Base salt 520'  
Red sand None  
Brown lime 695' to 740'  
White lime None  
Oil or gas pay 960' to 975'  
Water 980' to 981'

Initial Production Test Estimated 8 Pumping \_\_\_\_\_ Flowing \_\_\_\_\_  
Test after acid or shot Swabbed 17 bbls in 8 hours.

Initial GAS VOLUME Not determined. Little gas.

SCHEDULE NO. \_\_\_\_\_ DATE \_\_\_\_\_

Pipe Line taking oil Artesia Pipe Line Company, Artesia N.M.

REMARKS \_\_\_\_\_

COMPANY George Turner

Signed by George Turner  
Owner & Operator

AUG 3 1950

Oil & Gas Inspector  
OIL AND GAS INSPECTOR

THE  
FEDERAL  
BUREAU OF INVESTIGATION  
UNITED STATES DEPARTMENT OF JUSTICE

100-100000

TO DIRECTOR, FBI (100-100000)  
FROM SAC, NEW YORK (100-100000)  
SUBJECT: [Illegible]

RE NEW YORK TELETYPE TO BUREAU, APRIL 1, 1964.  
[Illegible]

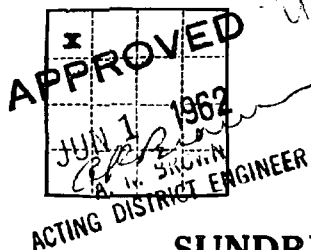
NEW YORK OFFICE IS CURRENTLY CONDUCTING AN INVESTIGATION  
[Illegible]

THE RESULTS OF THIS INVESTIGATION WILL BE FURNISHED TO THE  
[Illegible]

YOUR OFFICE IS REQUESTED TO ADVISE THE BUREAU OF ANY  
[Illegible]

VERY TRULY YOURS,  
[Illegible]

ENCLOSURE



(SUBMIT IN TRIPLICATE)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

Land Office Santa Fe  
Lease No. LC-050797  
Unit RECEIVED

JUN 5 1962

U. S. G.  
SPECIAL 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.....
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 RE-DRILLING OR REPAIR.....
NOTICE OF INTENTION TO SHOOT OR ACIDIZE.....	SUBSEQUENT REPORT OF ABANDONMENT..... <input checked="" type="checkbox"/>
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)

March 26, 1962

Well No. 1 is located 660 ft. from N line and 660 ft. from W line of sec. 24

NW 1/4 Sec. 24 20 S 28 E NMPM  
(1/4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Russell Eddy New Mexico  
(Field) (County or Subdivision) (State or Territory)

The elevation of the derrick floor above sea level is 3235 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)

Tubing was run to TD 975 and 25 sax cement plug set on 3-16-62. Top of Plug was at 850. An attempt was made to shoot off 7" casing which was unsuccessful as 7" had been cemented to surface (8 5/8 had been left in hole at 258'). Hole was filled with mud to 300 and 25 sax cement plug set in 7" on 3-23-62. 7" casing was filled to surface and marker erected on 3-23-62. Grounds were cleaned.

RECEIVED

APR 3 1962

U. S. G.

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

Company Neil H. Wills

Address Box 529

Carlsbad, N. M.

By Paul H. Wills

Title \_\_\_\_\_