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

2007 MAY 23 AM 11 18

May 22, 2007

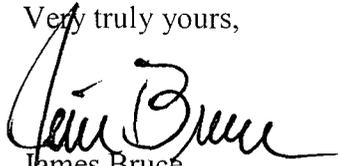
Case 13935

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 APR 23 AM 11:08

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.

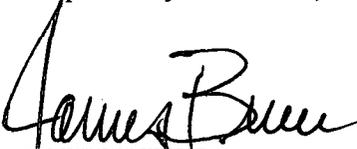
6. Applicant proposes to inject produced water into the Yates formation from seven (7) wells located on the above-described lands. Applicant requests that the order entered pursuant to this application allow administrative approval for any future expansion of the project.

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 that reads "James Bruce". The signature is written in a cursive style with a large initial "J".

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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: 4/20/07

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 1/2" 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.

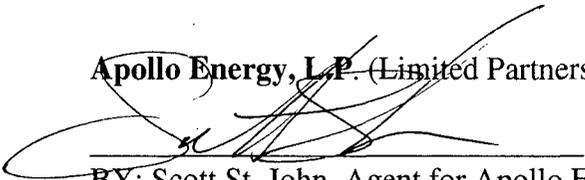
XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.

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

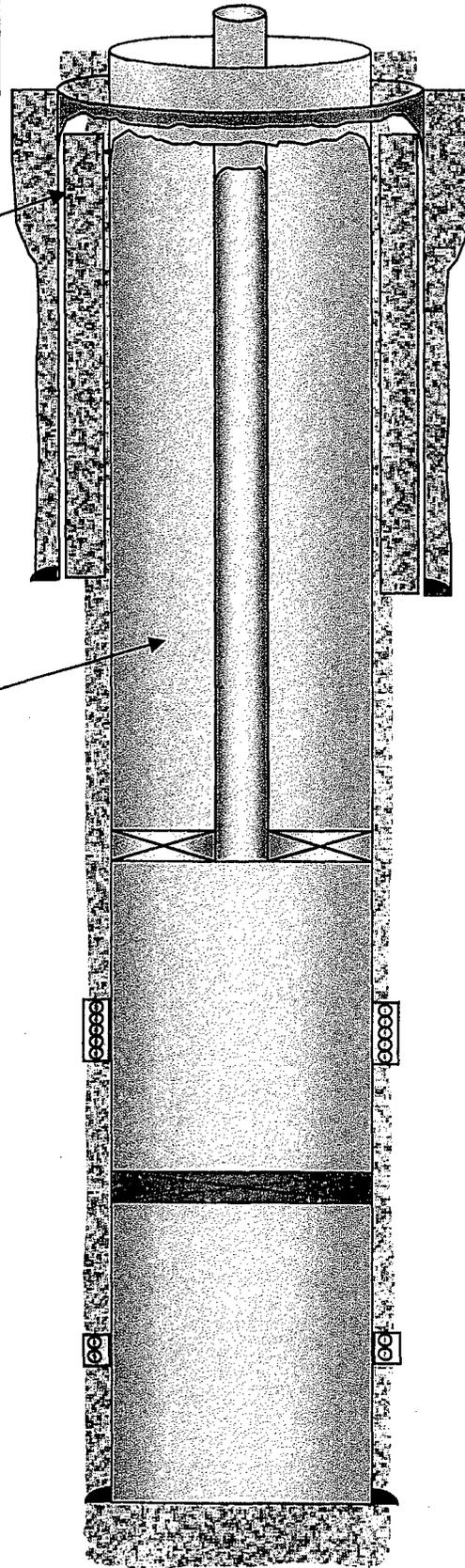
TOC @ Surface  
Cement circulated to surface

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'



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 # 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

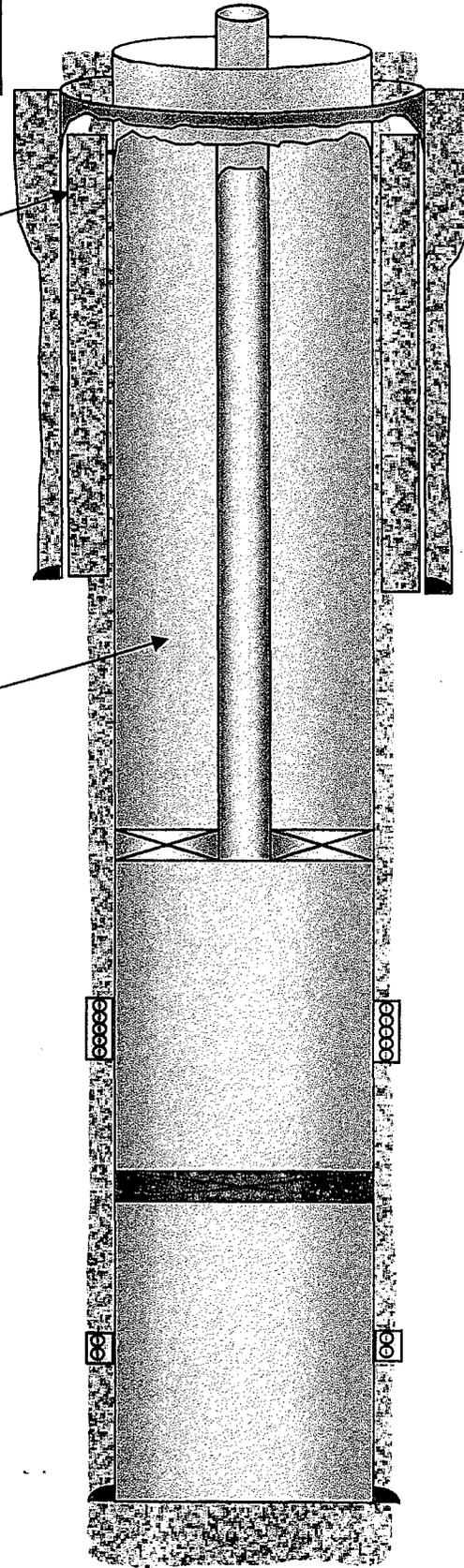
TOC @ Surface

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'



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

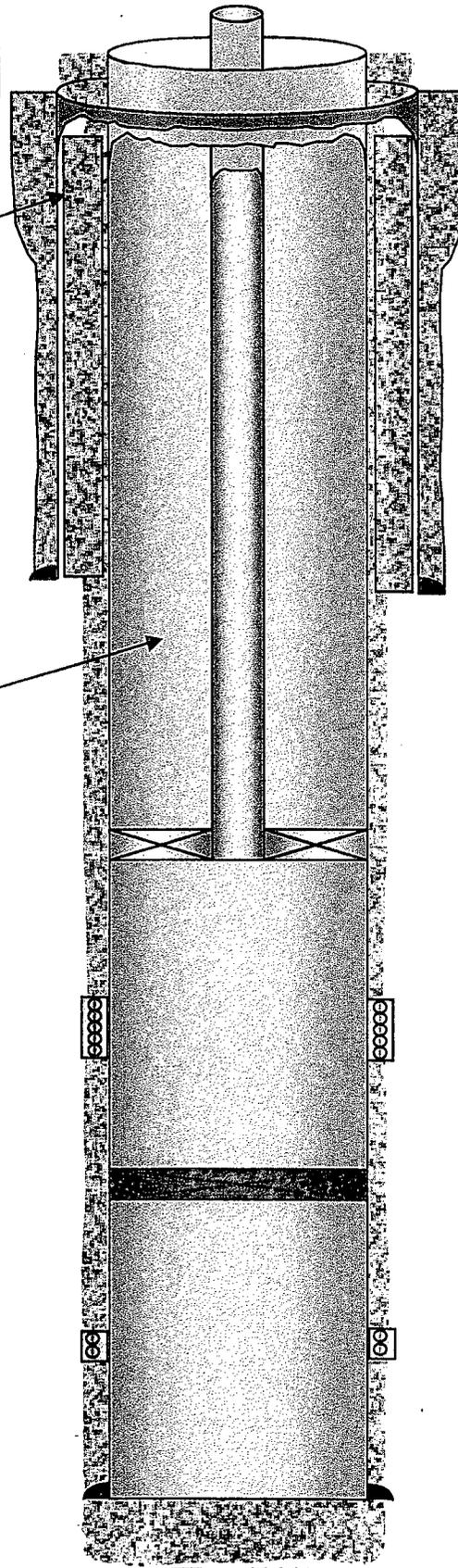
TOC @ Surface  
Cement circulated to surface

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'



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 # 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

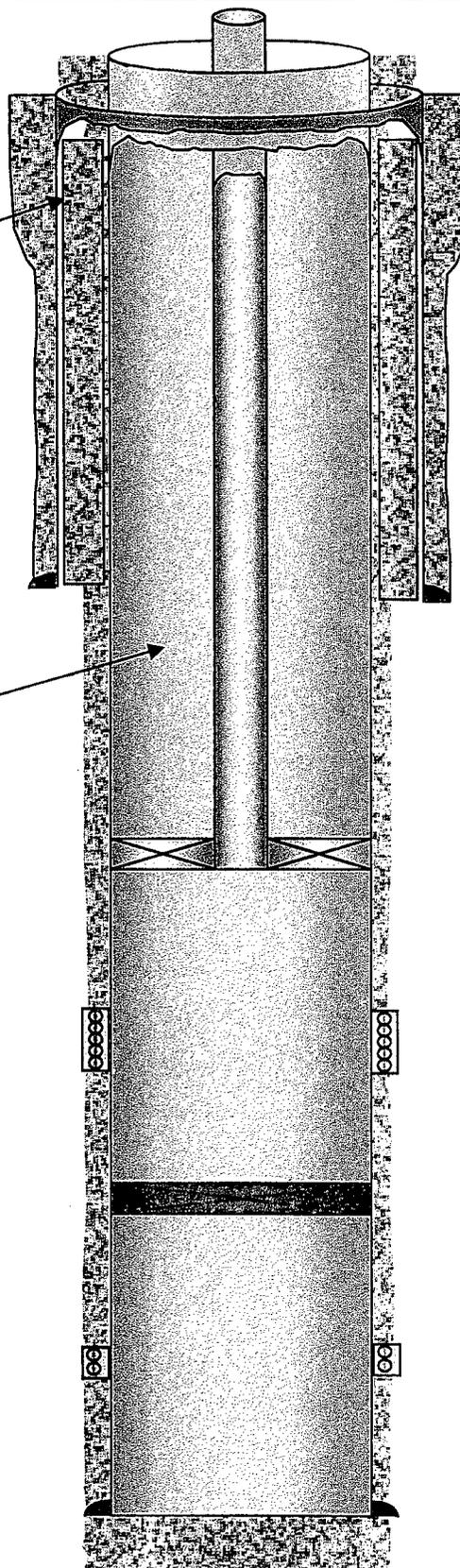
Packer Fluid in 2 3/8th X 5 1/2"

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

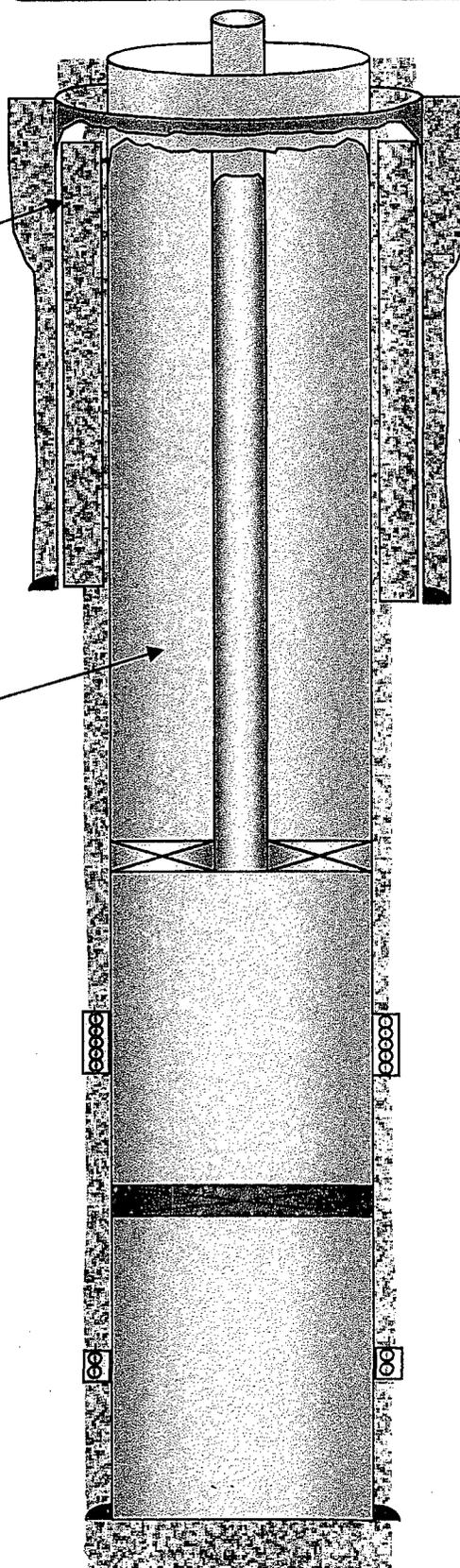
Packer Fluid in 2 3/8th X 5 1/2"

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

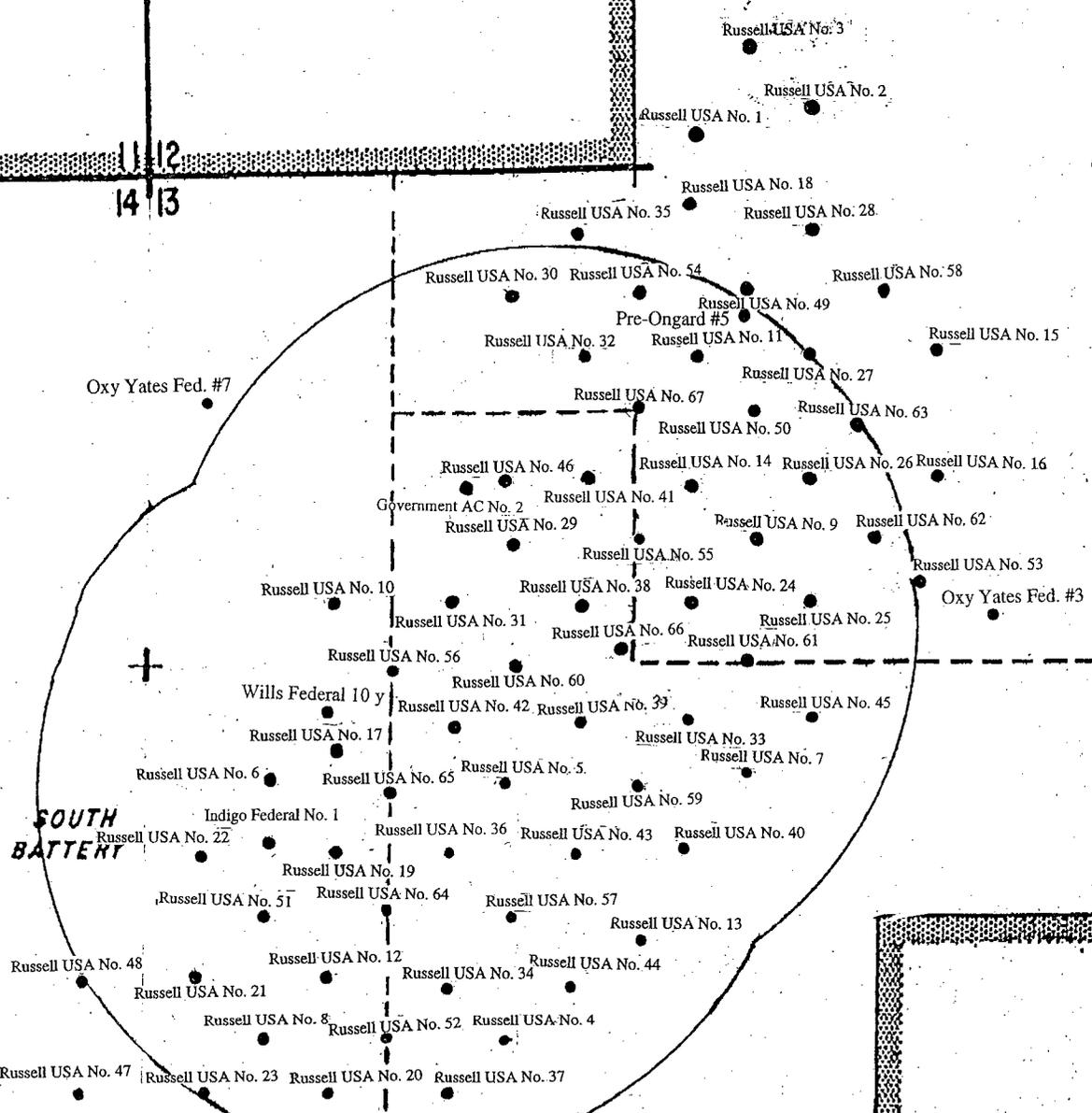
Perforate & test 7-Rivers based on log for test

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



**SOUTH BATTERY**

SUGGERTH B. HICKS 23 24

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

**RUSSELL POOL**

**HICKS FEDERAL**

# Tabulation Data

U. S. DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

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

Form approved.  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO.  
**WM 013543-A**

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

**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"/> <b>Dry Hole</b>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR <b>H. K. Sweeney</b>		8. FARM OR LEASE NAME <b>Canavan B</b>	
3. ADDRESS OF OPERATOR <b>Box 1582, Roswell, New Mexico 88201</b>		9. WELL NO. <b>1</b>	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface <b>1980' From East Line and 1630' from South line of Section 12-20S-28E</b>		10. FIELD AND POOL, OR WILDCAT <b>Russell</b>	
14. PERMIT NO.		11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA <b>Sec. 12-20S-28E</b>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		12. COUNTY OR PARISH <b>Eddy</b>	13. STATE <b>New Mexico</b>

*Rec-Original #1*

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"/>	(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.)\*

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 mud 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

**APPROVED**  
OCT - 2 1967  
R. L. BEEKMAN  
ACTING DISTRICT ENGINEER

\*See Instructions on Reverse Side

Form 9-331  
(May 1963)

N. M. O. C. O. SURV.

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.

5. LEASE DESIGNATION AND SERIAL NO.

NM 013543-0

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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>		7. UNIT AGREEMENT NAME	
2. NAME OF OPERATOR <u>H. N. Sweeney</u>		8. FARM OR LEASE NAME <u>Canayan A</u>	
3. ADDRESS OF OPERATOR <u>P. O. Box 1582, Roswell, N. M.</u>		9. WELL NO. <u>1</u>	
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>		10. FIELD AND POOL, OR WILDCAT <u>Wildcat</u>	
14. PERMIT NO.		11. SEC., T. R., M., OR BLE. AND SUBVEY OR AREA <u>12-20S-28E</u>	
15. ELEVATIONS (Show whether DF, RT, GR, etc.) <u>3274 GR</u>		12. COUNTY OR PARISH   13. STATE <u>Eddy County, N. M.</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 (Other) <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, 1968 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 12 1969  
DISTRICT ENGINEER  
ARTESIA OFFICE

RECEIVED  
FEB 11 1969  
O. C. C.  
ARTESIA OFFICE

18. I hereby certify that the foregoing is true and correct  
SIGNED H. N. Sweeney TITLE Operator DATE 2-11-69

(This space for Federal or State office use)  
APPROVED BY R. L. BEEKMA TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:  
**APPROVED**  
FEB 11 1969  
R. L. BEEKMA  
DISTRICT ENGINEER

\*See Instructions on Reverse Side

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

SUBMIT IN TR. STATE\*  
(Other instructions on re-  
verse side)

Form approved. *copy to 21*  
Budget Bureau No. 42-R1424.

5. LEASE DESIGNATION AND SERIAL NO. <b>NM 013543-B</b>	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
7. UNIT AGREEMENT NAME	
8. FARM OR LEASE NAME <b>Canavan</b>	
9. WELL NO. <b>1</b>	
10. FIELD AND POOL, OR WILDCAT <b>Wildcat</b>	
11. SEC. T., R., M., OR BLK. AND SURVEY OR AREA <b>12-20S-28E</b>	
12. COUNTY OR PARISH <b>Eddy</b>	13. STATE <b>New Mexico</b>
14. PERMIT NO.	15. ELEVATIONS (Show whether DF, RT, GR, etc.) <b>3268' GR</b>

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

CONDITIONS OF APPROVAL, IF ANY:

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  
Artesia, New Mexico

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 interval. 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-...	
2. NAME OF OPERATOR Cities Service Oil and Gas Corporation		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
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 NUMBER, 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 ALTA Sec. 12-T20S-R28E	
		12. COUNTY OR PARISH Eddy	
		13. STATE New Mexico	

RECEIVED  
DEC 10 1984  
BUREAU OF LAND MANAGEMENT  
NEW MEXICO

JAN 13 1986  
O. C. D.

Pre Gonzales  
#2

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"/>	FULL 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, OPBDT 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 thur 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#

(CONTINUED ON ATTACHED SHEET)

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

SIGNED Elmer Startz 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:

Post ID-2  
2-8-85  
P417

\*See Instructions on Reverse Side

Title 13 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<sup>1</sup>/<sub>4</sub> of SE<sup>1</sup>/<sub>4</sub> 20S 28E N. M. P. M.  
(4 Sec. and Sec. No.) (Twp.) (Range) (Meridian)  
Russell Eddy New Mexico  
(Field) (County or Subdivision) (State or Territory)

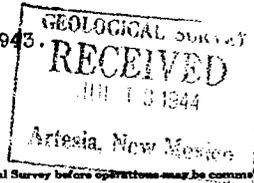
The elevation of the derrick floor above sea level is ..... ft.

DETAILS OF WORK

(State names of and expected depths to objective sands; show sizes, weights, and lengths of proposed casings; indicate mudding 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-approval #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  
J.*

Form 3160-5  
(June 1990)

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

FORM APPROVED  
Budget Bureau No. 1004-0135  
Expires: March 31, 1993

CISK

**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		7. If Unit or CA, Agreement Designation
2. Name of Operator OXY USA Inc. 16696		8. Well Name and No. 008609
3. Address and Telephone No. P.O. Box 50250 Midland, TX 79710 915-685-5717		9. API Well No. 30-015-21514
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) 1800 FNL 1980 FWL SENW(F) Sec 13 T20S R28E		10. Field and Pool, or Exploratory Area 073320 Burton Flat Morrow, East
		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"/> Abandonment
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Recompletion
<input type="checkbox"/> Final Abandonment Notice	<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

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

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 1996

OIL CON. DIV.

DIST. 2

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

Signed David Stewart Title Regulatory Analyst Date 1/9/96

(This space for Federal or State office use)

Approved by (ORIG. SGD.) JOE G. LARA Title PETROLEUM ENGINEER Date 2/12/96  
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'

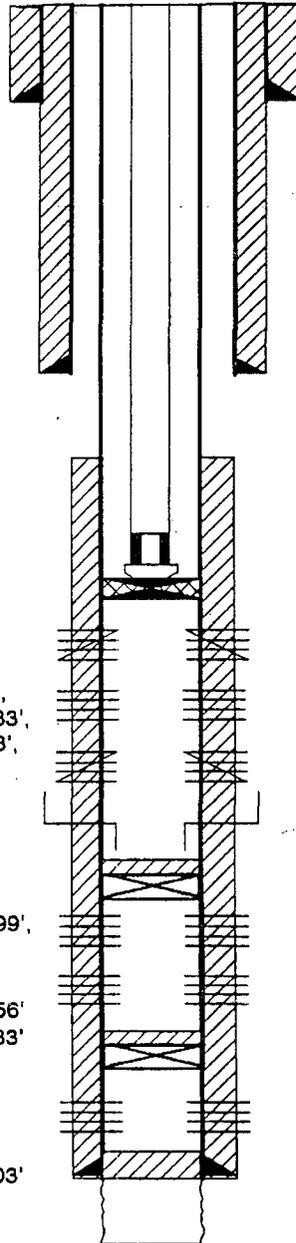
Sqz Hole Perf: (4 spf) @ 7,100'  
Sqz'd w/ 250 sx cmt

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:  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:  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:  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:**        **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 NW1/4 Sec 24, T20S, R28E

**R E C E I V E D**  
 D JUL 29 1950

MAIL TO:

Glenn Staley  
 Proration Office  
 Hobbs, New Mexico.

Oil & Gas Comm.

Artesia Office

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

NOTICE OF COMPLETION OF (Lease)  
 Sec. 24 Twp. 20S Rge. 28E Well No. L.C. 070245 feet from  
 line; 660 feet from W line;

DATE STARTED June 6, 1950  
 DATE COMPLETED July 23, 1950  
 ELEVATION 3240  
 TOTAL DEPTH S.L.M. 981'  
 CABLE TOOLS 981' ROTARY TOOLS \_\_\_\_\_

CASING RECORD

SIZE <u>8 5/8"</u>	DEPTH <u>258'</u>	SAX CEMENT <u>Landed</u>
SIZE <u>7"</u>	DEPTH <u>614'</u>	SAX CEMENT <u>75 sacks</u>
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 xxxxx 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

*W. K. Staley*  
 OIL AND GAS INSPECTOR



Form 9-381a  
(Feb. 1951)

**APPROVED**  
JUN 1 1962  
A. W. SKUTNAN  
ACTING DISTRICT ENGINEER

(SUBMIT IN TRIPPLICATE)

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.....	<b>X</b>
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

GEOLOGICAL SURVEY

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 \_\_\_\_\_