

DATE IN 10/29/08	SUSPENSE	ENGINEER W. Jones	LOGGED IN 10/30/08	TYPE WFX	APP NO. PKUR0830429816
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION  
- Engineering Bureau -  
1220 South St. Francis Drive, Santa Fe, NM 87505



**ADMINISTRATIVE APPLICATION CHECKLIST**

THIS CHECKLIST IS MANDATORY FOR ALL ADMINISTRATIVE APPLICATIONS FOR EXCEPTIONS TO DIVISION RULES AND REGULATIONS WHICH REQUIRE PROCESSING AT THE DIVISION LEVEL IN SANTA FE

**Application Acronyms:**

- [NSL-Non-Standard Location] [NSP-Non-Standard Proration Unit] [SD-Simultaneous Dedication]
- [DHC-Downhole Commingling] [CTB-Lease Commingling] [PLC-Pool/Lease Commingling]
- [PC-Pool Commingling] [OLS - Off-Lease Storage] [OLM-Off-Lease Measurement]
- [WFX-Waterflood Expansion] [PMX-Pressure Maintenance Expansion]
- [SWD-Salt Water Disposal] [IPI-Injection Pressure Increase]
- [EOR-Qualified Enhanced Oil Recovery Certification] [PPR-Positive Production Response]

[1] **TYPE OF APPLICATION** - Check Those Which Apply for [A]

- [A] Location - Spacing Unit - Simultaneous Dedication  
 NSL  NSP  SD

Check One Only for [B] or [C]

- [B] Commingling - Storage - Measurement  
 DHC  CTB  PLC  PC  OLS  OLM
- [C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery  
 WFX  PMX  SWD  IPI  EOR  PPR

[D] Other: Specify \_\_\_\_\_

[2] **NOTIFICATION REQUIRED TO:** - Check Those Which Apply, or Does Not Apply

- [A]  Working, Royalty or Overriding Royalty Interest Owners
- [B]  Offset Operators, Leaseholders or Surface Owner
- [C]  Application is One Which Requires Published Legal Notice
- [D]  Notification and/or Concurrent Approval by BLM or SLO  
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E]  For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F]  Waivers are Attached

[3] **SUBMIT ACCURATE AND COMPLETE INFORMATION REQUIRED TO PROCESS THE TYPE OF APPLICATION INDICATED ABOVE.**

[4] **CERTIFICATION:** I hereby certify that the information submitted with this application for administrative approval is **accurate** and **complete** to the best of my knowledge. I also understand that **no action** will be taken on this application until the required information and notifications are submitted to the Division.

Note: Statement must be completed by an individual with managerial and/or supervisory capacity.

Thomas G. Wright *Thomas G. Wright* Vice President 10/24/08  
 Print or Type Name Signature Title Date  
 tommyw@doreenergy.com  
 e-mail Address

RECEIVED  
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 R. P. Pollo  
 Energy LP  
 #24  
 #39

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**Gray Wireline Service, Inc** (Gray Wireline Service, Inc)  
 190 Se 1000, Andrews, TX 79714-6047

**Contact Phone:** (432) 523-5436

*Barry & Cain*

**URL (web address):**

**Business Category:** Oil/Gas Field Services in Andrews, TX

**Industry (SIC):** Oil and Gas Field Services, NEC

**Business Information**

This company profile is for the private company Gray Wireline Service, Inc branch, located in Andrews, TX. Gray Wireline Service, Inc's line of business is oil/gas field services.

**Related info:**

Other companies named [Gray Wireline Service, Inc](#)

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**Company Name:** **Gray Wireline Service, Inc** [Is This Your Company?](#)

**Address:** 190 Se 1000, Andrews, TX 79714-6047 ([Map](#))

**Alt Business Name:** Gray Wireline Service, Inc

**Location Type:** Branch Location

**Est. Annual Sales:**

**Est. # of Employees:**

**Est. Empl. at Loc.:** 10

**Year Started:**

**State of Incorp:**

**SIC #Code:** 1389

**Contact's Name:** [Suzane Gray](#)

**Contact's Title:** President

**Parent Companies:** [Gray Wireline Service, Inc](#), [Gray Energy Services, Llc](#)

**NAICS:** Support Activities for Oil and Gas Operations

Data above provided by D&B.

Click on the reports tab at the top of the page to research company background, detailed company profile, credit and financial reports for Gray Wireline Service, Inc.

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*Apollo Energy, LP*

4823 Ihles Road • Lake Charles, LA. 70605

October 24, 2008

State of New Mexico  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
Attn: Richard Ezeanyim

Re: Apollo Energy, LP  
Application for Authorization to Inject  
Russell USA Field Wells #24 and 39  
Section 13-T20S-R28E, Eddy County, NM

Dear Mr. Ezeanyim:

Please review and accept the enclosed Application for Authorization to Inject. Apollo Energy, L.P. is requesting permission to expand the waterflood associated with the Russell USA Field, Order R-12887. This order was approved for 5 new wells; Russell USA #70, 71, 72, 73, & 74 and expanded to include #58, 49, 9, 50, & 40. We have previously sent in a C-108 for #67.

The application package contains all relevant documentation as requested. Please return the appropriate approvals to our office at our letterhead address above. If you have any questions, please contact our office at your convenience.

Also enclosed are a cement bond logs which were run on October 16, 2008.

Sincerely,

Thomas G. Wright

TGW/ms  
Enclosure

**APPLICATION FOR AUTHORIZATION TO INJECT**

I. PURPOSE: X Secondary Recovery          Pressure Maintenance          Disposal          Storage  
Application qualifies for administrative approval? X Yes          No

II. OPERATOR: Apollo Energy, LP  
ADDRESS: 4823 Ihles Road, Lake Charles, LA 70605  
CONTACT PARTY: Thomas Wright PHONE: 335-582-5227

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: R-12887

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: Thomas G. Wright TITLE: Vice-President  
SIGNATURE: [Signature] DATE: 10-24-08  
E-MAIL ADDRESS: tommyw@doreenergy.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:

### 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.

INJECTION WELL DATA SHEET

OPERATOR: Apollo Energy, LP

WELL NAME & NUMBER: Russell USA # 24

WELL LOCATION: 2322' FNL; 2333' FEL

FOOTAGE LOCATION G UNIT LETTER 13 SECTION 205 TOWNSHIP 28E RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA  
Surface Casing

See Attached

Hole Size: 8 3/4" Casing Size: 7" 20#

Cemented with: 150 sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Surface Method Determined: \_\_\_\_\_

Intermediate Casing

Hole Size: \_\_\_\_\_ Casing Size: 4 1/2" 11.6#

Cemented with: 350 sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: Sur Face Method Determined: Witnessed by BUM

Production Casing

Hole Size: \_\_\_\_\_ Casing Size: \_\_\_\_\_

Cemented with: \_\_\_\_\_ sx. or \_\_\_\_\_ ft<sup>3</sup>

Top of Cement: \_\_\_\_\_ Method Determined: \_\_\_\_\_

Total Depth: \_\_\_\_\_

Injection Interval

\_\_\_\_\_ feet to \_\_\_\_\_

(Perforated or Open Hole; indicate which)

**Injection Completion**

KB: 3252.0'  
DF: 3252.0'  
GL: 3252.0'  
Datum: 0.0' above GL

**USA No.24**

Gregory Hall  
API No 30-01502373  
2322' FNL & 2333' FEL  
Sec 13 - T20S - R28E  
Eddy County, NM

Run bond log and shoot squeeze holes to circulate cement.

25 joints - 2 3/8th 4/7 #/ft plastic coated tubing

Cement w/ 150 sax

Run 4 1/2" plastic coated AD-1 Tension packer @ 793'

7" casing @ 775'

Perforate Yates Sand w/ 3 1/8th gun @ 824-840

run 4 1/2" 11.6 #/ft casing @ 845

Squeeze Holes @ 100 - 102'

Squeeze Holes @ 200 - 202'

Circulated 350 sax Class C Cement with 2% CaCl with full returns to surface

Cable Tools Total Depth

PBTD @ 840 (10-21-2008)

TD = 846'

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8 Lining Material: Plastic

Type of Packer: AD-1 Tension

Packer Setting Depth: 793'

Other Type of Tubing/Casing Seal (if applicable): \_\_\_\_\_

Additional Data

1. Is this a new well drilled for injection? \_\_\_\_\_ Yes  No

If no, for what purpose was the well originally drilled? \_\_\_\_\_

2. Name of the Injection Formation: Yates

3. Name of Field or Pool (if applicable): Russell-Yates

4. Has the well ever been perforated in any other zone(s)? List all such perforated intervals and give plugging detail, i.e. sacks of cement or plug(s) used. NO

5. Give the name and depths of any oil or gas zones underlying or overlying the proposed injection zone in this area: Kover - Seven Rivers 900' - 1042'

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

## **APPLICATION FOR AUTHORIZATION TO INJECT**

I. Purpose of Application

1. Injection Well

II. Operator

Apollo Energy, LP  
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 Number: Russell USA #24
- c. Location of Well: Section 13 T20S R28E
- d. Footage Locations: 2322 FNL 2333 FEL

2. Casing Specifications

a. Production Casing:

Casing string 7" 20#  
Set at a depth of 775'  
Total sacks of cement: 150 sx

- b. Tubing Size: 2 3/8"  
Lining Material: Plastic  
Setting Depth: 793'

- c. Intermediate Casing:  
Casing string 4 ½", 11.6#  
Set at a depth of 845'  
Total Sacks of cement: 350 sx

- d. Seal System:

- i. Packer Model: AD-1 Tension Packer
  - ii. Setting Depth: 793'

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.

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

Please see attached Tabulation of Data

VII. Proposed Operations

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

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

- b. Proposed average and maximum injection pressure.

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

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

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

d. 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.)

1. Injection will be into the Yates Formation for the purpose of secondary recovery.

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.

1. Proposed stimulation programs will be forth coming. 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 filled with the Division, they need not be resubmitted).

Apollo Energy, L.P.  
Russell USA Field  
Application for Authorization to Inject

- 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: Thomas G. Wright

- 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 request for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico, 87505, within 15 days.

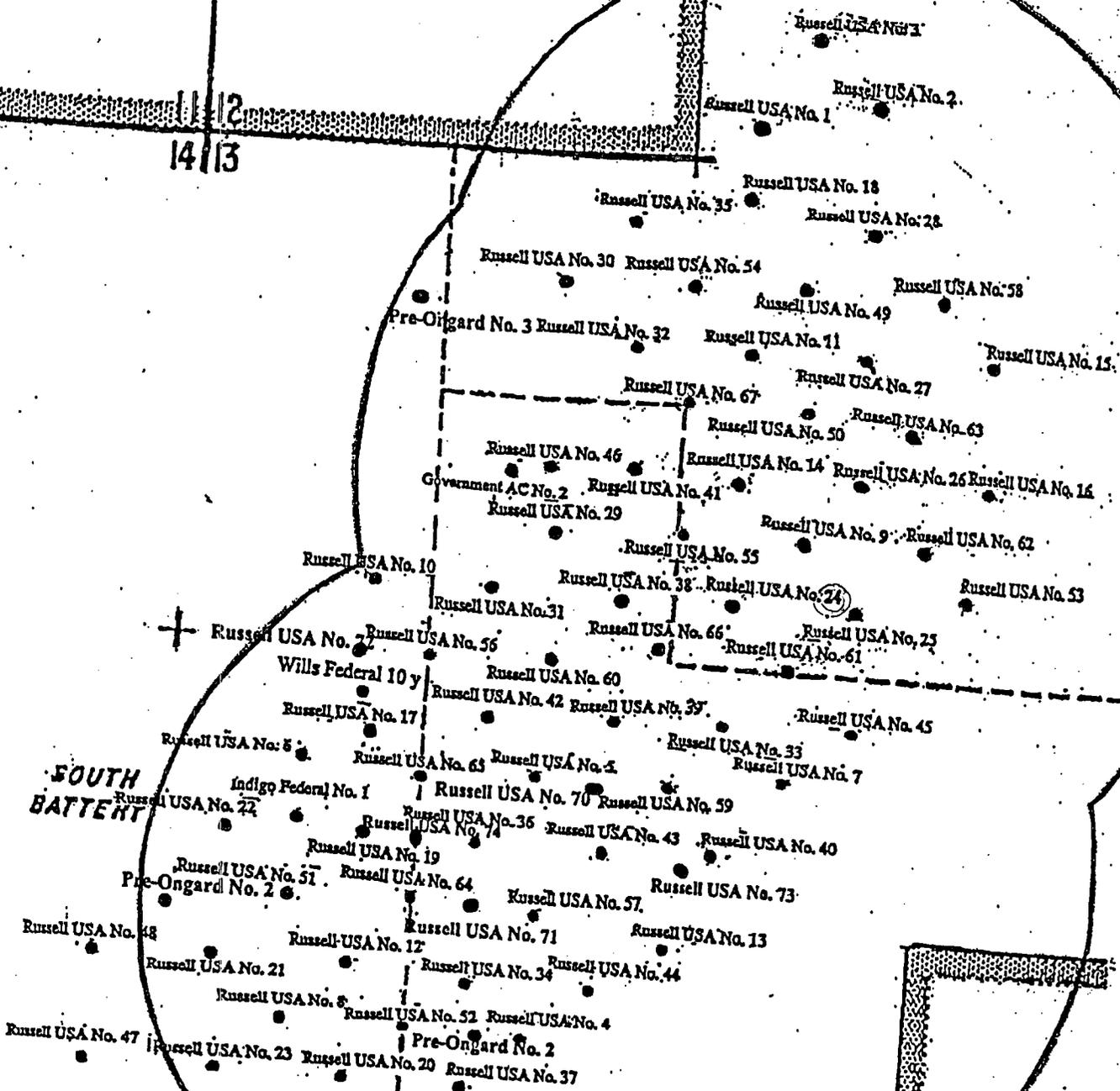
11 12  
14 13

SOUTH  
BATTERY

SUDDETH FIGS 23 24

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

RUSSELL POOL



# **TABULATION DATA**

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; 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 (taprod)

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'

Name: Apollo Energy, L.P. Lease: Russell USA No. 73

API # 3001536106

Location: 1550' FSL & 2580' FWL Sec: 13 Township 20S Range 28E

Field and Formation: Russell USA Field; Yates Formation

Date: 7/14/2007 Depth: 1,200'

Name: Apollo Energy, L.P. Lease: Russell USA No. 074

API # 3001536107

Location: 1486' FSL & 1155' FWL Sec: 13 Township 20S Range 28E

Field and Formation: Russell USA Field; Yates Formation

Date: 2/13/2008 Depth: 1,200'

Name: EGL Resources Inc. Lease: Oxy Yates 13 Federal No. 13

API#: 3001531428

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

Field and Formation: Russell USA Field

Date: 10/31/99 Depth: 850'

Name: Pre-Ongard Well Operator Lease: Pre-Ongard Well No. 3

API#: 3001526616

Location: 660' FSL & 990' FWL Sec: 13 Township 20S Range 28E

**Field and Formation:** Russell USA Field; Bone Spring Formation

**Date:** 1/15/91 **Depth:** 8,000'

**Name:** Pre-Ongard Well Operator **Lease:** Pre-Ongard Well No. 2

**API#:** 3001526615

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

**Field and Formation:** Russell USA Field

**Date:** 1/15/99 **Depth:** 8,000'

**Name:** Pre-Ongard Well Operator **Lease:** Pre-Ongard Well No. 47

**API#:** 3001520487

**Location:** 1326' FSL & 5' FWL **Sec:** 13 Township 20S Range 28E

**Field and Formation:** Russell USA Field

**Date:** 8/13/71 **Depth:** 800'