

DATE IN <u>11-19-09</u>	SUSPENSE	ENGINEER <u>W. W. W. W.</u>	LOGGED IN <u>11-19</u>	TYPE <u>WFX</u>	APP NO. <u>0932342204</u>
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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



Apollo Energy
(12/1/92)

ADMINISTRATIVE APPLICATION CHECKLIST

Russell USA #3

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]

30-115-02348

[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
 Print or Type Name

[Signature]
 Signature

Vice President
 Title

11/7/09
 Date

tommye@apolloenergy.com
 e-mail Address

666 337-540-1243

in 12/1/09

see 12/7/18

Notify people outside the unit boundary 1/2 mi



RECEIVED
2009 NOV 18 PM 2 02

November 17, 2009

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 #3
Section 12-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.

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 November 9, 2009.

Sincerely,

Thomas G. Wright

TGW/ms
Enclosure

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: Apollo Energy, LP
ADDRESS: 4823 Ihles Road, Lake Charles, LA 70605
CONTACT PARTY: Thomas 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: 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: 11/17/09
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.

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, LP30-015-02348WELL NAME & NUMBER: Russell USA #3WELL LOCATION: 663' FSL : 2000' FEL012205285

FOOTAGE LOCATION

UNIT LETTER

SECTION

TOWNSHIP

RANGE

WELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingSee AttachedHole Size: _____ Casing Size: 7"Cemented with: 125 sx. or _____ ft³Top of Cement: circulated Method Determined: _____Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. or _____ ft³

Top of Cement: _____ Method Determined: _____

Production CasingHole Size: _____ Casing Size: 4 1/2"Cemented with: 211 sx. or _____ ft³Top of Cement: 50' Method Determined: CBLTotal Depth: 890'Injection Interval864 feet to 880(Perforated) or Open Hole; indicate which)

INJECTION WELL DATA SHEET

Tubing Size: 2 3/8" Lining Material: Plastic
 Type of Packer: Arrow Plastic Coated
 Packer Setting Depth: 784'
 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 Yated
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: Lower - Seven River 900' - 1042'

APPLICATION FOR AUTHORIZATION TO INJECT

I. Purpose of Application

1. Injection Well

II. Operator

Apollo Energy, LP
4823 Ihles Road,
Lake Charles, La 70605
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 #3
- c. Location of Well: Section 12 T20S R28E ✓
- d. Footage Locations: 663 FSL 2000 FEL ✓

2. Casing Specifications

a. Production Casing:

Casing string 7" 20#
Set at a depth of 746'
Total sacks of cement: 125 sx

- b. Tubing Size: 2 3/8"
Lining Material: Plastic
Setting Depth: 810'

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

- c. Intermediate Casing:
Casing string 4 1/2" 14#
Set at a depth of 883'
Total Sacks of cement: 211 sx

- d. Seal System:

- i. Packer Model: AD-1 Tension Packer
 - ii. Setting Depth: 800'

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 1440 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 550 psi.
- The proposed average pressure is expected to be 550 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.

**APOLLO ENERGY, LP
RUSSELL USA # 3
API # 30-015-02348
(Formerly Crosby # 4)
663' FSL & 2000' FEL
SECTION 12 T20S-R28E
EDDY COUNTY, NEW MEXICO**

Daily Drilling Report

Monday, October 19, 2009: 3-G Wells Service run 23 jts 4 ½ 10.5 #/ft J-55 casing to 883.

Wednesday, November 4, 2009: Broke circulation at 3 barrels. Pump & mix 50 bbls Class A cement, circulated to surface. Jack Gustamantes reports that the plug was bumped about 4:30 New Mexico time. They mixed and pumped a total of 211 sacks of cement. The cement was circulated to surface both on the inside and outside of the surface casing. A small catch basin was created to monitor the cement & the cement did not fall back.

Per BLM instructions the surface valve was closed when cement was circulated and this force cement to the outside of the surface pipe. When the job was started, it took 3 bbls to fill the hole and break circulation. Cement circulated to surface after 50 bbls. The plug was bumped at 1100 psig with 15 bbls of water, which is the volume of the 4 1/2" casing.

Using the circulation of 50 bbls the average hole size is 7 5/8". Considering that the hole has mostly 7" casing, this would mean that the surface and the open hole is not too large.

Monday, November 9, 2009: Move on 3-G Well Service. Gray Wireline run GR-Cement Bond Log. PBTD @ 887. Ran GR-Compensated Neutron Log.

Tuesday, November 10, 2009: Gray Wireline perforated Yates Field Sand 864-880, with 6 shots per foot. Shot 6' and 10' Gas Guns in 2 runs. TIH with 4 ½" Arrowset Plastic Coated packer and 24 joints 2 3/8 4.7 #/ft plastic coated tubing. Circulated packer fluid & set at 784 with 17,000 tension. Pump into perforations with water at ¼ bpm @ 940 psig. Crain Acid treated Yates with 3000 gallons 7 ½% NEFE acid using 200 balls. No ball action. Breakdown at 1040 psig. Start at 3.3 bpm @ 1330 psig. Ending treatment 3.4 bpm @ 1075 psig. Flush @ 970 psig. ISIP 707 psig, 5 min SIP 465 psig, 10 min SIP 436 psig, 15 min SIP 410 psig. Rig down Crain. Shut well in.

Wednesday, November 11, 2009: Install valve and rig down 3G Well Services. Install injection set up.

Warnell, Terry G, EMNRD

From: Warnell, Terry G, EMNRD
Sent: Friday, November 20, 2009 4:11 PM
To: 'TOMMY WRIGHT'
Cc: Ezeanyim, Richard, EMNRD; Inge, Richard, EMNRD
Subject: WFX Application for Russell USA Well No. 3

Dear Mr. Wright:

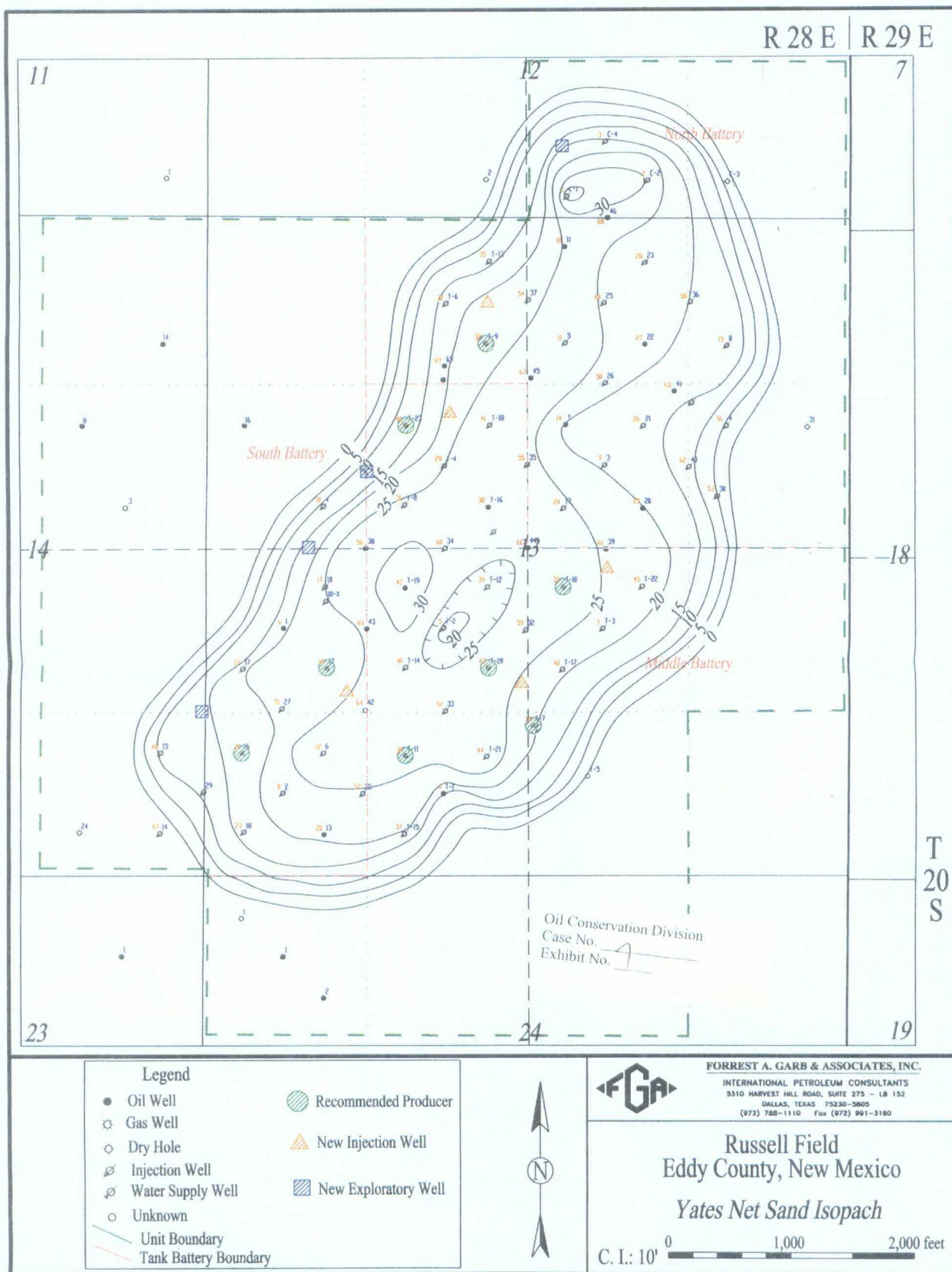
I received your application and have a few questions.
The API number on your CBL log and well sketch is 30-015-02377
Which is the API number for USA Well No. 28
Am I looking at data for Well No. 3 or No. 28?
Please clarify

Also wondering if you noticed mineral rights owner and operators outside the unit boundary within ½ mile?
Looks to me like Yates, Marathon and Mewbourne need to be noticed.

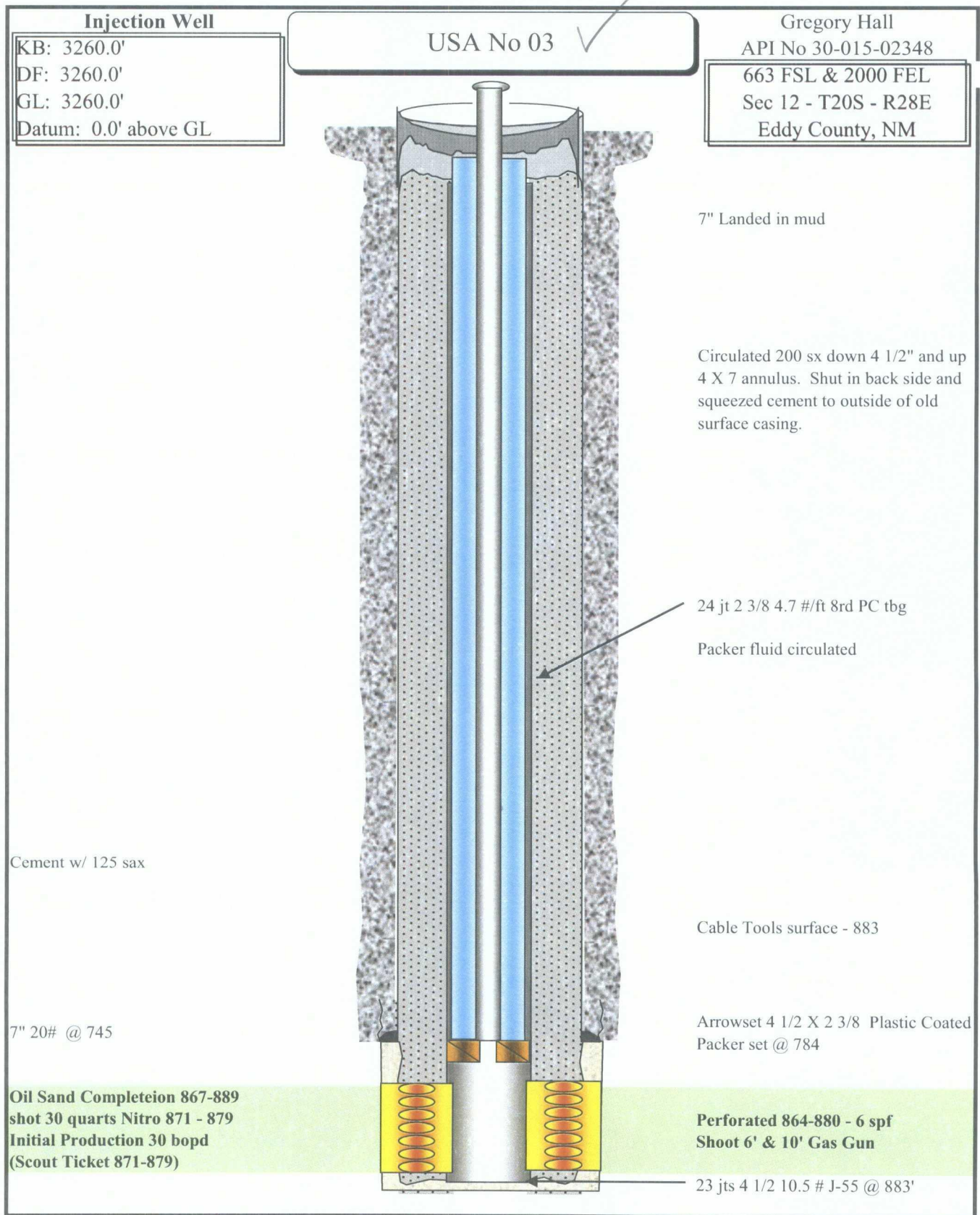
Your application checklist has NSL checked.
Did you mean to do that?

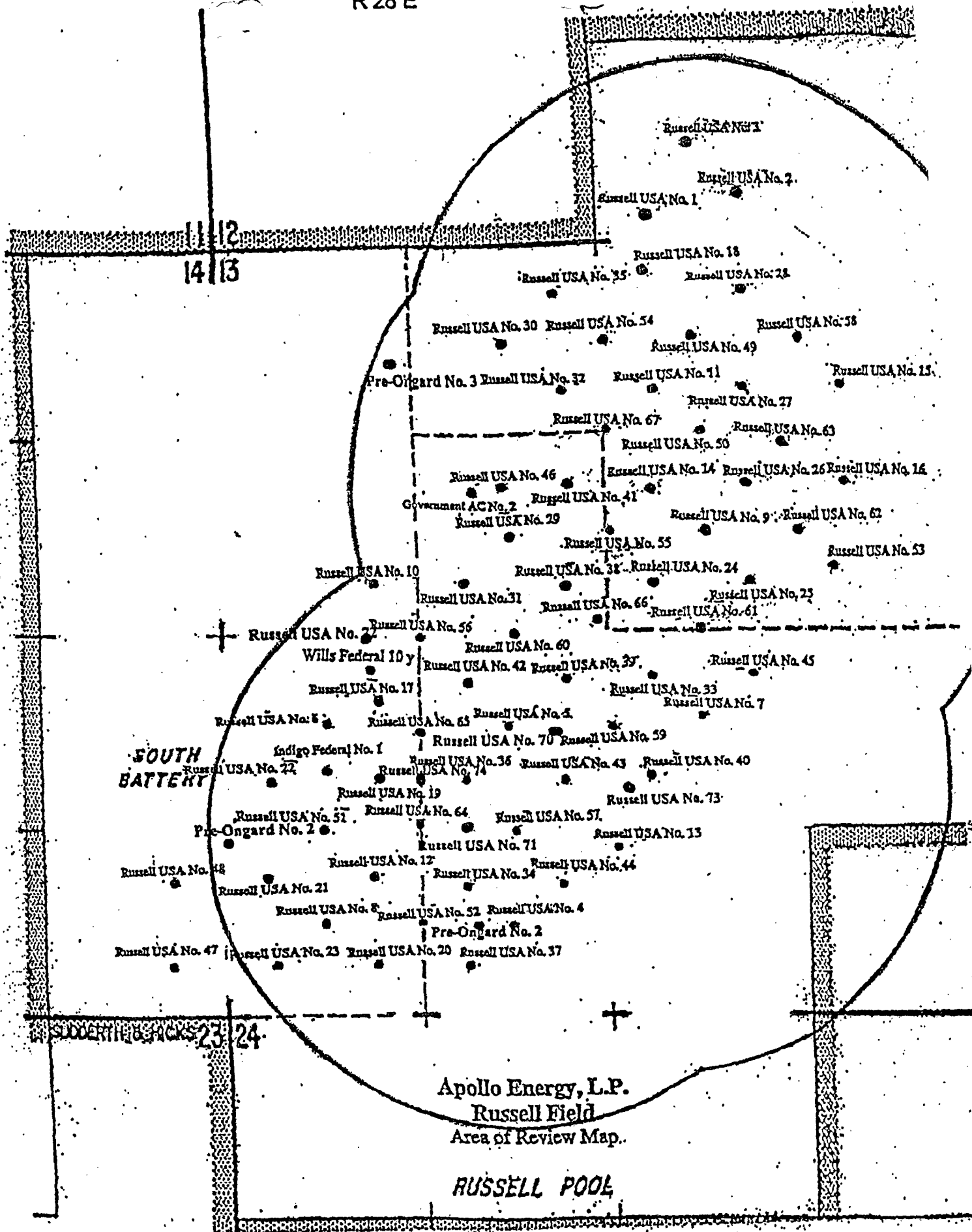
Thanks,

Terry G. Warnell
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3466



Attachment 2





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



Application
well

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, Circulated

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 (tapcrod)

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'

79
well
in
AOR

Warnell, Terry G, EMNRD

From: Thomas Wright [TommyW@doreenergy.com]
Sent: Monday, November 23, 2009 7:51 AM
To: Warnell, Terry G, EMNRD
Cc: Ezeanyim, Richard, EMNRD; Inge, Richard, EMNRD
Subject: RE: WFX Application for Russell USA Well No. 3

The API number is incorrect on the CBL. I will have that corrected. The correct API # is 30-015-02348. Is that what you show for the Russell USA # 3?

When we applied for and received approval to reinstate the water flood project Order No. R-12887 which describes the lease and list the wells, we notified the offset operators that would be affected. It was my understanding that returning wells to injection would be handled administratively.

Please give me a call to discuss..

Thanks,

Thomas G. Wright, CPL
Apollo Energy, LP
4823 Ihles Road
Lake Charles, La 70605
337-502-5227-Office
337-540-1243-Cell
tommyw@doreenergy.com

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Friday, November 20, 2009 5:11 PM
To: Thomas Wright
Cc: Ezeanyim, Richard, EMNRD; Inge, Richard, EMNRD
Subject: WFX Application for Russell USA Well No. 3

Dear Mr. Wright:

I received your application and have a few questions.
The API number on your CBL log and well sketch is 30-015-02377
Which is the API number for USA Well No. 28
Am I looking at data for Well No. 3 or No. 28?
Please clarify

Also wondering if you noticed mineral rights owner and operators outside the unit boundary within ½ mile?
Looks to me like Yates, Marathon and Mewbourne need to be noticed.

Your application checklist has NSL checked.
Did you mean to do that?

Thanks,

Terry G. Warnell
New Mexico Oil Conservation Division
1220 South St. Francis

→ Need well sketches
of these - is the gates
cemented for

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 13935
ORDER NO. R-12887

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

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on June 21, 2007, at Santa Fe, New Mexico, before Examiners David K. Brooks and Richard Ezeanyim.

NOW, on this 18th day of January, 2008, the Division Director, having considered the testimony, the record and the recommendations of the Examiners,

FINDS THAT:

(1) Due notice has been given, and the Division has jurisdiction of the subject matter of this case.

(2) By this application, Apollo Energy, L.P. (Applicant) seeks authority to institute a waterflood project in the Yates formation, within a project area consisting of the following described lands in Township 20 South, Range 28 East, NMPM, in Eddy County, New Mexico:

Section 12: SW/4 SE/4
Section 13: N/2, SW/4, N/2 SE/4 and SW/4 SE/4
Section 14: SE/4 SE/4

comprising 680 acres, included within a single federal oil and gas lease.

(3) Applicant proposes to drill and utilize five injection wells, in addition to two existing, permitted disposal wells, at locations identified on Exhibit A to this Order, for injection of produced water into the Yates formation in the Russell-Yates Pool

(52820), through an injection interval at a depth between 700 feet to 900 feet below the surface. Applicant anticipates adding additional injection wells and will seek authorization for such additional injection wells by administrative application pursuant to Division rules.

(4) Applicant proposes to construct the injection wells with 8 5/8" surface casing set at 302 feet and cemented to surface, and 5 1/2" casing set in the vicinity of total depth, estimated to be approximately 1200 feet, and cemented to surface. Applicant may drill into and test the Seven Rivers formation, below the Yates, and then shall set a cast-iron bridge plug in the casing above the base of the Yates formation, at approximately 975 feet. Injection will be accomplished through 2 3/8" tubing, installed in a 5 1/2" tension packer, set in the casing at approximately 775 feet.

(5) At the hearing, Applicant appeared through counsel and presented testimony and exhibits to the effect that:

(a) The proposed project area is part of an area that was authorized for waterflood by Order R-263, issued in Case No. 469 on February 10, 1953. Substantial injection activity occurred pursuant to that order, but injection ceased several years ago, and all producing wells in the area have been shut in by order of the United States Bureau of Land Management for at least two years.

(b) The entire project area consists of a single federal oil and gas lease, and Applicant is the owner of 100% of the working interest in the Yates formation throughout the project area. Overriding royalty ownership in the Yates formation is uniform throughout the project area.

(c) Two wells within the project area have been recently permitted as injection wells for purposes for disposal of produced water. These are USA Well No. 60 and the USA Well No. 65, more specifically described in Exhibit A, which were permitted for injection by Administrative Orders SWD-1079 and SWD-1080, respectively. The USA Well No. 60 is currently injecting into the Yates formation. The USA Well No. 65 failed mechanical integrity test, and is not active at this time.

(d) The Yates formation in this area is encountered at depths from approximately 700 feet to approximately 1000 feet beneath the surface, and is correlated, and continuous, across the project area. It consists of a collection of alternating sands and shales. It is basically a stratigraphic trap. There is no particular, identified closing structure. However, the Yates reservoir quality diminishes to the north, west, south and southeast of the project area. The sands either lose their reservoir quality or they become limy and anhydritic. The Yates and Seven Rivers formations overlie the Capitan Reef. There is a salt section 100 to 150 feet in thickness approximately 100 feet above the Yates.

(e) The only fresh water-bearing formation Applicant has identified in the project area is the Rustler formation, which lies at a depth of 70 to 85 feet below the surface. There are no operable water wells in the project area or the Area of Review. Applicant has contacted the Office of the State Engineer (OSE) regarding fresh water sources that might be affected. The OSE advised that there are no known sources of fresh water in this area.

(f) To applicant's knowledge, there is no faulting that would connect the proposed injection formation with any fresh water bearing zone.

(g) Based on available data, the reservoir probably has on the order of 16% porosity and had original water saturation on the order of 35%. Original oil in place was estimated at 6 million barrels. The reservoir has produced (cumulative primary and secondary) approximately 2.4 million barrels of oil and 8.5 million barrels of water, including water that was re-injected in earlier waterflood operations.

(h) The existing wells within the project area are "stripper wells" in the sense that they have reached an advanced state of depletion.

(i) From a geologic standpoint, the project area is susceptible to further waterflooding; previous waterflood operations were apparently abandoned due to neglect, not because those operations had exhausted their potential. Estimates of incremental oil recovery by further water injection range from 88,900 barrels to 919,500 barrels. Applicant believes that it can recover at least 100,000 to 150,000 barrels of additional oil from the proposed waterflood.

(j) Applicant proposes initially to inject into the two permitted disposal wells and the five new wells described in Exhibit A. The injection medium will be produced water from the formation. Subsequently, Applicant may seek to add as many as 20 to 30 more injectors, and Applicant plans to study the feasibility of converting the project to tertiary, surfactant injection.

(k) There are 75 wells in the Area of Review. Ten of these have been plugged and abandoned. Based on Division records, these wells have been properly plugged to prevent movement of fluids to other zones. There are several producing wells that penetrate the Yates formation and are completed in much deeper formations. However, these wells are cased through the Yates formation, and accordingly will not serve as a conduit for movement of injected fluids out of the formation. The remaining wells in the Area of Review are operated by Applicant and completed in the Yates formation. These wells have surface casing set and cemented below the base of the Rustler, fresh water bearing formation.

(l) Division records indicate that previous operators have injected approximately 14.5 million barrels of water into this formation. There have been no reported surface leaks.

(m) Applicant has conducted a step rate test on the USA Well No. 60 (the existing, active injector), and has determined, based on the results of that test, that the pressure that will initiate a fracture in the formation is between 450 and 500 psi. Applicant is requesting a maximum surface injection pressure of 400 psi.

(6) No other party appeared at the hearing or otherwise opposed the application prior to the hearing. After the hearing, Nordstrand Engineering, Inc, an operator of a deeper producing well within the project area not completed in the Yates formation, filed a protest. The Division advised Nordstrand that it should file a motion to re-open the hearing not later than December 10, 2007, if it wished to present evidence in support of its protest. However, it did not file such a motion.

The Division concludes that:

(7) The design of the injection wells is appropriate and should be approved. The testimony is somewhat unclear about the presence of freshwater. However, the proposed casing plan should adequately protect freshwater sources that may exist.

(8) The plugged and abandoned wells in the Area of Review identified in Applicant's C-108 are properly plugged to prevent the movement of fluids from the injection zone.

(9) There is an additional plugged and abandoned well in the Area of Review, Pre-Ongard Well No. 1 (API No. 30-015-02424), located 660 feet from the North Line and 660 feet from the West Line (Unit D) of Section 24-20S-28E. However, Division records indicate that this well, also, has been properly plugged.

(10) The wells in the Area of Review having open completions appear to be adequately cased and cemented, so that none of them will become a conduit for the escape of fluid from the permitted injection formation. Accordingly no remedial work on wells in the Area of Review is required.

(11) Based on the step-rate test that Applicant conducted on the USA Well No. 60, which Applicant presented to the examiners following the hearing, Applicant should be authorized initially to inject fluids at a surface injection pressure not to exceed 300 psi; provided that Applicant may apply to the Division for a higher injection pressure upon satisfactorily demonstrating that an increase in injection pressure will not result in fracturing of the injection formation or confining strata.

(12) The proposed project will, in reasonable probability, prevent waste by making possible the production of oil that would not otherwise be produced, and will not impair correlative rights.

(13) Accordingly, the application should be approved.

IT IS THEREFORE ORDERED THAT:

(1) Apollo Energy, L.P. [OGRID 248192] ("Applicant" or "Operator") is hereby authorized to institute a waterflood injection project in the Yates sand member of the Yates formation [Russell-Yates Pool (52820)], within a project area consisting of the following described lands in Township 20 South, Range 28 East, NMPM, in Eddy County, New Mexico:

Section 12: SW/4 SE/4
Section 13: N/2, SW/4, SW/4 SE/4
Section 14: SE/4 SE/4

comprising 680 acres, included within a single federal oil and gas lease.

(2) This project is hereby designated the Russell Yates Waterflood Project ("the Project"). Applicant is designated operator of the project.

(3) Operator is authorized to re-inject produced water into the Yates formation within an appropriate injection interval between approximately 700 feet and 900 feet below the surface, through the Russell USA Well No. 60 (API No. 30-015-10420), previously permitted as a disposal well, and the five new injection wells to be drilled as described in Exhibit A hereto.

(4) Inasmuch as the evidence indicates that the Russell USA Well No. 65, also previously permitted as a disposal well, does not have mechanical integrity, and Operator has not made a decision regarding future use of that well, permission to inject into the Russell USA Well No. 65 at this time is denied. If Operator decides to restore the Russell USA Well No. 65 as an injection well, Operator shall first file a separate administrative application to reinstate injection authority for that well.

(5) The operator shall take all steps necessary to ensure that the injected fluid enters only the injection interval and is not permitted to escape to other formations or onto the surface from injection, production, or plugged and abandoned wells.

(6) Injection into each proposed injection well shall be accomplished through 2-3/8 inch, plastic coated, steel tubing installed in a packer set within 100 feet of the uppermost injection perforations. The casing-tubing annulus shall be filled with an inert fluid, and a gauge or approved leak-detection device shall be attached to the annulus in order to detect leakage in the casing, tubing or packer. The Operator shall set a cast iron bridge plug below the lowest perforations, to isolate the injection formation.

(7) Prior to commencing injection operations into any well, the casing in the injection well shall be pressure tested throughout the interval from the surface down to the packer setting depth to assure the integrity of such casing.

(8) Each injection well shall be initially equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to no more than 300 psi.

(9) The Division Director shall have the authority to administratively authorize an increase in injection pressure upon a showing by the operator that such higher pressure will not result in fracturing of the injection formation or confining strata.

(10) For each injection well, the operator shall give at least 72 hours advance notice to the supervisor of the Division's Artesia District Office of the date and time (i) injection equipment will be installed, and (ii) the mechanical integrity pressure tests will be conducted, so that these operations may be witnessed.

(11) The operator shall provide written notice of the date of commencement of injection into each well to the Artesia District Office of the Division.

(12) The operator shall immediately notify the supervisor of the Division's Artesia District Office of the failure of the tubing, casing or packer in any of the injection wells, or the leakage of water, oil, gas or other fluid from or around any producing, abandoned or inactive well within 1/2 mile of any injection well, and shall take all steps as may be timely and necessary to correct such failure or leakage.

(13) The Project shall be governed by Division Rules No. 701 through 708. The operator shall submit monthly reports of the injection operations on Division Form C-115, in accordance with Division Rules 706 and 1120.

(14) In accordance with Rule 705.C, the injection authority granted herein shall terminate one year after the effective date of this order if the Operator has not commenced injection operations; provided, however, the Division, upon written request by the Operator, filed prior to the expiration of the one-year period, may grant an extension for good cause.

(15) Operator shall provide written notice to the Division upon permanent cessation of injection into the Project and upon final completion of the Project.

(16) Operator may, from time to time, seek Division approval to add additional injection wells within the project area, or to change the authorized injection interval of any well, within the Yates formation, by administrative application, in accordance with Division rules.

(17) In the event that Operator determines to convert the project area to a tertiary, surfactant injection project, as suggested in the testimony, Operator shall first file an application pursuant to Division Rule 701, and obtain Division approval after appropriate notice and hearing.

(18) This order does not relieve Operator of responsibility should its operations cause any actual damage or threat of damage to protectible fresh water, human health or the environment; nor does it relieve the operator of responsibility for complying with applicable Division rules or other state, federal or local laws or regulations.

(19) Upon failure of the operator to conduct operations (1) in such manner as will protect fresh water, or (2) in a manner consistent with the requirements in this order, the Division may, after notice and hearing, (or without notice and hearing in event of an emergency, subject to the provisions of NMSA 1978 Section 70-2-23), terminate the injection authority granted herein.

(20) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



SEAL

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "Mark E. Fesmire".

MARK E. FESMIRE, P.E.
Director

Case No. 13935
Exhibit A to
Order No. R-12887

Authorized Injection Wells

Existing, Permitted Disposal Well

Russell USA Well No. 60
API No. 30-015-10420
2630 FNL, 1980 FWL
F-13-20S-28E

New Injection Wells to Be Drilled

Russell USA Well No. 70
1980 FSL, 2310 FWL
K-13-20S-28E

Russell USA Well No. 71
1110 FSL, 1980 FWL
N-13-20S-28E

Russell USA Well No. 72
2480 FSL, 680 FWL
L-13-20S-28E

Russell USA Well No. 73
1550 FSL, 2580 FWL
K-13-20S-28E

Russell USA Well No. 74
1485 FSL, 1155 FWL
L-13-20S-28E

6 wells

Case No. 13935
Exhibit A to
Order No. R-12887

Authorized Injection Wells

Existing, Permitted Disposal Well

Russell USA Well No. 60
API No. 30-015-10420
2630 FNL, 1980 FWL
F-13-20S-28E

98,229 (2008) 38,667 (2009)

New Injection Wells to Be Drilled

Russell USA Well No. 70
1980 FSL, 2310 FWL
K-13-20S-28E

30-015-36103

Russell USA Well No. 71
1110 FSL, 1980 EWL
N-13-20S-28E

11 36104

Russell USA Well No. 72
2480 FSL, 680 FWL
L-13-20S-28E

Mistake

36105

Russell USA Well No. 73
1550 FSL, 2580 FWL
K-13-20S-28E

36106

Russell USA Well No. 74
1485 FSL, 1155 FWL
L-13-20S-28E

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STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL RESOURCES DEPARTMENT
OIL CONSERVATION DIVISION

IN THE MATTER OF THE HEARING
CALLED BY THE OIL CONSERVATION
DIVISION FOR THE PURPOSE OF
CONSIDERING:

CASE NO. 13935
ORDER NO. R-12887-A
Nunc Pro Tunc

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

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on June 21, 2007, at Santa Fe, New Mexico, before Examiners David K. Brooks and Richard Ezeanyim.

On January 18, 2008, the Division Director issued Order No. R-12887 in this case.

NOW, on this 14th day of May, 2008, the Division Director

FINDS THAT:

(1) Order No. R-12887 contains a clerical error, in that a portion of the legal description of the land constituting the Russell Yates Waterflood Project was inadvertently omitted.

IT IS THEREFORE ORDERED THAT:

(1) Ordering Paragraph (1) of Order No. R-12887, issued in Case No. 13935 on January 18, 2008, is hereby amended, *nunc pro tunc*, effective as of January 18, 2008, to read:

(1) Apollo Energy, L.P. [OGRID 248192] ("Applicant" or "Operator") is hereby authorized to institute a waterflood injection project in the Yates sand member of the Yates formation [Russell-Yates Pool (52820)], within a project area consisting of the following described lands

in Township 20 South, Range 28 East, NMPM, in Eddy County, New Mexico:

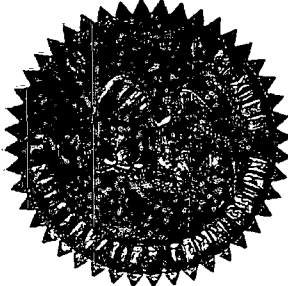
Section 12: SW/4 SE/4
Section 13: N/2, SW/4, N/2 SE/4 and SW/4 SE/4
Section 14: SE/4 SE/4

comprising 680 acres, included within a single federal oil and gas lease.

(2) In all other respects Order No. R-12887 shall remain in full force and effect as originally written.

(3) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.



STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

A handwritten signature in black ink, appearing to read "Mark E. Fesmire".

MARK E. FESMIRE, P.E.
Director

New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



Administrative Order WFX-838
August 2, 2008

APPLICATION OF APOLLO ENERGY, L.P. TO EXPAND ITS WATERFLOOD PROJECT IN THE RUSSELL YATES POOL IN EDDY COUNTY, NEW MEXICO

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-12887, Apollo Energy, L.P. (OGRID No. 248192) has made application to the Division for permission to add nine additional injection wells to its Russell Yates Waterflood Project located within the Russell Yates Pool (Pool No. 52820) in Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the waiting period prescribed by Division Rule 701(C). The proposed well(s) are eligible for conversion to injection under the terms of Rule 701. The current operator is in compliance with Rule 40.

The proposed expansion of the above-referenced waterflood project will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED THAT:

The operator of the Russell Yates Waterflood Project is hereby authorized to inject water for purposes of secondary recovery into Yates formation sands within the unitized interval [700 feet to 900 feet] of the Russell Yates Waterflood Project in the following-described well(s). Each of these wells shall be equipped with plastic-lined tubing set in a packer located within 100 feet of the top of the actual injection interval. The maximum allowed surface injection pressure for each of these wells shall be 300 psi.



Russell USA Well No. 9 (API No. 30-015-02356) Injection Interval (Perforated): 817 to 837
1980' FNL, 1980' FEL, Unit G, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 40 (API No. 30-015-02389) Injection Interval (Perforated): 824 to 844
1658' FSL, 2338' FEL, Unit J, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 41 (API No. 30-015-02390) Injection Interval (Perforated): 795 to 876
1656' FNL, 2339' FWL, Unit F, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 49 (API No. 30-015-06186) Injection Interval (Perforated): 850 to 873
660' FNL, 2000' FEL, Unit B, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 50 (API No. 30-015-06187) Injection Interval (Perforated): 826 to 846
1305' FNL, 1980' FEL, Unit B, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 58 (API No. 30-015-10240) Injection Interval (Open Hole): 858 to 880
660' FNL, 1310' FEL, Unit A, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 70 (API No. 30-015-36103) Injection Interval (Perforated): 700 to 900
660' FNL, 2310' FWL, Unit C, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 71 (API No. 30-015-36104) Injection Interval (Perforated): 700 to 900
1530' FNL, 1980' FWL, Unit F, Sec 13, T20S, R28E, NMPM

Russell USA Well No. 72 (API No. 30-015-36105) Injection Interval (Perforated): 700 to 900
2480' FSL, 1960' FEL, Unit J, Sec 13, T20S, R28E, NMPM

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the permitted injection interval and is not permitted to escape to other formations or onto the surface.

Prior to commencing injection operations into the well(s), injection casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The casing-tubing annulus shall openly extend to within 100 feet of the top of the injection interval and shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well(s) or system shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure described above.

The Director of the Division may authorize an increase in injection pressure upon a proper showing by the operator that such higher pressure will not result in waste of oil and gas or migration of the injected fluid from the permitted injection interval. Such proper showing shall be accompanied by valid step-rate test(s) run in accordance with and acceptable to this office.

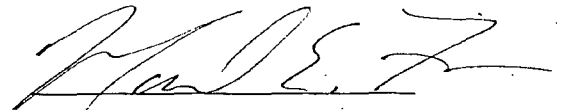
The operator shall notify the supervisor of the Division's district office of the date and time of the installation of injection equipment and of all mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Division's district office of any failure of tubing, casing, or packer and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well(s) shall be governed by all provisions of Division Order No. R-12887 and Rules 702-706 of the Division Rules and Regulations not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.


The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations into the subject well, provided however, the Division, upon written request by the operator mailed prior to the one year deadline, may grant an extension thereof for good cause shown.



MARK E. FESMIRE, P.E.
Director

MEF/wvj

cc: Oil Conservation Division – Artesia
Bureau of Land Management – Carlsbad

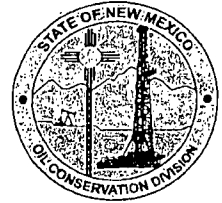


New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



ADMINISTRATIVE ORDER WFX-845 Corrected 12/1/2008

November 20, 2008

Thomas G. Wright
Apollo Energy, LP
4823 Ihles Road
Lake Charles, LA 70605

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-12887 dated January 18, 2008, Apollo Operating, LP (OGRID No. 248192) has made application to the Division for permission to add two water injection wells to its Russell Yates Waterflood Project located within the Russell Yates Pool (52820) in Section 13, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the waiting period prescribed by Division Rule 701(C). The proposed injection wells are eligible for water injection under the terms of Rule 701.

Satisfactory information was provided to demonstrate that affected parties were provided notice of the application. No objections have been filed.

The proposed water injection wells will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED THAT:

Apollo Energy, LP ("Applicant" or "Operator") is hereby authorized to inject water into the unitized interval into the Yates formation, through plastic-lined tubing set in packers located within 100 feet of the top of the injection intervals in the following-described wells for purposes of secondary recovery:

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

* Phone: (505) 476-3440 * Fax (505) 476-3462* <http://www.emnrd.state.nm.us>



Russell USA Field Well No. 24 (API No. 30-015-02373)

2322' FNL, 2333' FEL, Unit G, Sec 13, T20S, R28E, NMPM
Permitted Injection Interval (Open Hole): 824' – 840'
AD-1 Tension Packer set at 793'
Maximum Surface Injection Pressure: 450 PSIG Water

Russell USA Field Well No. 39 (API No. 30-015-02388)

2322' FNL, 2339' FEWL, Unit K, Sec 13, T20S, R28E, NMPM
Permitted Injection Interval (Perforations): 810' – 820'
AD-1 Tension Packer set at 832'
Maximum Surface Injection Pressure: 450 PSIG Water

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Injection will be into the Yates Formation for the purpose of secondary recovery.
The injection fluid will be reinjected water produced from the Yates formation.

Prior to commencing injection operations into these wells, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection wells or injection systems shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure to no greater than .555 psi per foot of depth to the casing shoe.

The Director of the Division may authorize increases in injection pressure upon a proper showing by the operator that higher pressure will not result in migration of the injected fluid from the permitted injection interval or harmful formation fracturing. Such proper showing shall consist of valid step-rate tests and possibly injection profiles or pressure transient testing run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of all mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said wells and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject wells shall be governed by all provisions of Division Order No. R-12887, and Rules 702-706 of the Division Rules not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon the Division may, after notice and hearing, terminate the injection authority granted herein.


The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations, provided however, the Division, upon written request by the operator received prior to the one year deadline, may grant an extension thereof for good cause shown.



MARK E. FESMIRE, P.E.
Director

MEF/tw

cc: Oil Conservation Division -- Artesia
Bureau of Land Management -- Carlsbad



New Mexico Energy, Minerals and Natural Resources Department

Bill Richardson
Governor

Joanna Prukop
Cabinet Secretary
Reese Fullerton
Deputy Cabinet Secretary

Mark Fesmire
Division Director
Oil Conservation Division



ADMINISTRATIVE ORDER WFX-846

November 20, 2008

Thomas G. Wright
Apollo Energy, LP
4823 Ihles Road
Lake Charles, LA 70605

ADMINISTRATIVE ORDER OF THE OIL CONSERVATION DIVISION

Under the provisions of Division Order R-12887 dated January 18, 2008, Apollo Operating, LP (OGRID No. 248192) has made application to the Division for permission to a water injection well to its Russell Yates Waterflood Project located within the Russell Yates Pool (52820) in Section 13, Township 20 South, Range 28 East, NMPM, Eddy County, New Mexico.

THE DIVISION DIRECTOR FINDS THAT:

The application was filed in due form. No objections have been filed within the waiting period prescribed by Division Rule 701(C). The proposed injection well is eligible for water injection under the terms of Rule 701.

Satisfactory information was provided to demonstrate that affected parties were provided notice of the application. No objections have been filed.

The proposed water injection well will not cause waste nor impair correlative rights and should be approved.

IT IS THEREFORE ORDERED THAT:

Apollo Energy, LP ("Applicant" or "Operator") is hereby authorized to inject water into the unitized interval into the Yates formation, through plastic-lined tubing set in packers located within 100 feet of the top of the injection intervals in the following-described well for purposes of secondary recovery:



Russell USA Field Well No. 67 (API No. 30-015-20231)

1328' FNL, 2635' FEL, Unit G, Sec 13, T20S, R28E, NMPM

Permitted Injection Interval (Open Hole): 810' - 834'

AD-1 Tension Packer set at 800'

Maximum Surface Injection Pressure: 450 PSIG Water

IT IS FURTHER ORDERED THAT:

The operator shall take all steps necessary to ensure that the injected water enters only the proposed injection interval and is not permitted to escape to other formations or onto the surface.

Injection will be into the Yates Formation for the purpose of secondary recovery. The injection fluid will be reinjected water produced from the Yates formation.

Prior to commencing injection operations into this well, the casing shall be pressure tested from the surface to the packer setting depth to assure casing integrity.

The casing-tubing annulus shall be loaded with an inert fluid and equipped with a pressure gauge at the surface or left open to the atmosphere to facilitate detection of leakage in the casing, tubing or packer.

The injection well or injection system shall be equipped with pressure limiting devices which will limit the wellhead pressure to the maximum surface injection pressure to no greater than .555 psi per foot of depth to the casing shoe.

The Director of the Division may authorize increases in injection pressure upon a proper showing by the operator that higher pressure will not result in migration of the injected fluid from the permitted injection interval or harmful formation fracturing. Such proper showing shall consist of valid step-rate tests and possibly injection profiles or pressure transient testing run in accordance with and acceptable to this office.

The operator shall notify the supervisor of the Artesia district office of the Division of the date and time of the installation of injection equipment and of all mechanical integrity tests so that the same may be inspected and witnessed.

The operator shall immediately notify the supervisor of the Artesia district office of the Division of the failure of the tubing, casing or packer in said well and shall take such steps as may be timely and necessary to correct such failure or leakage.

The subject well shall be governed by all provisions of Division Order No. R-12887, and Rules 702-706 of the Division Rules not inconsistent herewith.

PROVIDED FURTHER THAT, jurisdiction is retained by the Division for the entry of such further orders as may be necessary for the prevention of waste and/or protection of correlative rights or upon failure of the operator to conduct operations (1) to protect fresh water or (2) consistent with the requirements in this order, whereupon

the Division may, after notice and hearing, terminate the injection authority granted herein.

The injection authority granted herein shall terminate one year after the effective date of this order if the operator has not commenced injection operations, provided however, the Division, upon written request by the operator received prior to the one year deadline, may grant an extension thereof for good cause shown.

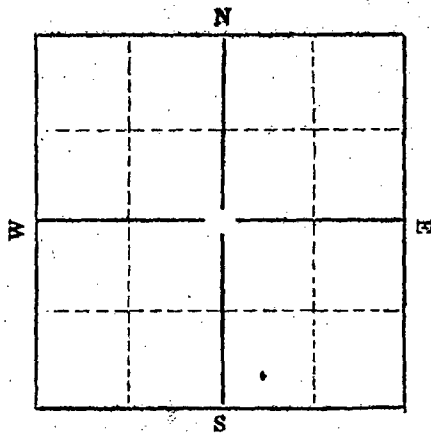


MARK E. FESMIRE, P.E.
Director

MEF/tw

cc: Oil Conservation Division – Artesia
Bureau of Land Management -- Carlsbad

SCOUT REPORT NEW MEXICO OIL CONSERVATION COMMISSION



AMOUNT CASING & CEMENTING RECORD

Size	Feet	Sax Cement
17"	745	145

Company GEORGE TOWNE Pool Bassett Dist. 9
 Farm Name Crosby Well No. 4
 Sec. 12 Twp. 20 Range 28 County Blair
 Feet from Line: N. 663 S. 2000 E. W.
 Elevation 2360 Method
 Contractor Land Government
 Spudded 6/10/48 Completed 7-11-48

ACID RECORD Gals.

	TA	TSA
	TX	TGI
	BX	TTu
	TY	TPenn
	TQ	TEll
	TG	TGr. W
		TGr.
Top Pay <u>871</u>		

TUBING RECORD

2" 880

PACKER

SHOOTING RECORD

No. of Quarts 30 From 871 To 77
 No. of Quarts From To
 S/ 0 871-77 S/ S/
 S/ S/ S/
 S/ S/ S/

Date	Location	Date
5-26-48		JUL 14 1948
MAY 31		T.D. 890 li
JUN 9		L.P.P. 30 B.P.P.
JUN 16	T.D. 745 Sand	
JUN 23	T.D. 883 li	
JUL 7 1948	T.D. 883 li	

Company or Operator George Turner Lease Crosby L. C. 063390
Address Carlsbad, N. M. 417 1st. Nat'l Bnk. Bldg., El Paso, Texas
(Local or Field Office) (Principal Place of Business)
Unit 0 Wells No 4 Sec. 12 T 20S R 23E Field Russell County Eddy
Kind of Lease U. S. Gov't Location of Tanks On lease
Transporter Artesia Pipe Line Co. Address of Transporter Artesia, N. M.
(Local or Field Office)
Artesia, N. M. Percent of oil to be transported 100 Other transporters author-
(Principal Place of Business)
ized to transport oil from this unit are None %
REMARKS:

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

Executed this the 13th day of July, 1948

George Turner
(Company or Operator)

By Ridge Turner
Title Owner & Operator

State of Texas
County of El Paso

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

Subscribed and sworn to before me, this the 11th day of August, 1945

Notary Public in and for El Paso County, Texas Bessie Kasech

Approved: AUG 17 1954 194

~~OIL CONSERVATION COMMISSION~~

By [Signature]

(See Instructions on Reverse Side)

OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

NO TRANSPORT OF OIL OR OIL PRODUCTS IS AUTHORIZED BY THIS PERMIT

INSTRUCTIONS

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

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

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

- (a) Operating ownership changes
- (b) The transporter is changed or
- (c) The permit is cancelled by the Commission

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

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

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

NEW MEXICO OIL CONSERVATION COMMISSION
Santa Fe, New Mexico

It is necessary that Form C-104 be approved before this form can be approved and an initial allowable be assigned to any completed Oil or Gas well. Submit this form in QUADRUPLICATE.

CERTIFICATE OF COMPLIANCE AND AUTHORIZATION
TO TRANSPORT OIL AND NATURAL GAS

Company or Operator Neil Wells Lease.....

Address.....
(Local or Field Office) (Principal Place of Business)

Unit 0, Well(s) No. 4, Sec. 12, T. 20, R. 28, Pool.....

County..... Kind of Lease:.....

If Oil well Location of Tanks.....

Authorized Transporter..... Address of Transporter.....

.....
(Local or Field Office) (Principal Place of Business)

Per cent of Oil or Natural Gas to be Transported..... Other Transporters authorized to transport Oil or Natural Gas

from this unit are.....

.....%

REASON FOR FILING: (Please check proper box)

NEW WELL..... ☐ CHANGE IN OWNERSHIP..... ☒

CHANGE IN TRANSPORTER..... ☐ OTHER (Explain under Remarks)..... ☐

REMARKS:

Geo Turner

The undersigned certifies that the Rules and Regulations of the Oil Conservation Commission have been complied with.

Executed this the..... day of..... 19.....

Approved 10/6..... 1952.....

OIL CONSERVATION COMMISSION

By.....

By..... Title.....

Title.....

INSTRUCTIONS

This form shall be executed and filed in QUADRUPLICATE with the District Office of the Oil Conservation Commission, covering each unit from which oil or gas is produced. A separate certificate shall be filed for each transporter authorized to transport oil or gas from a unit. After said certificate has been approved by the Oil Conservation Commission, one copy shall be forwarded to the transporter, one copy returned to the producer, and two copies retained by the Oil Conservation Commission.

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

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

- (a) Operating ownership changes
- (a) The transporter is changed or
- (c) The permit is cancelled by the Commission.

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

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

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

NO. OF COPIES RECEIVED		5
DISTRIBUTION		
SANTA FE		1
FILE		1
U.S.G.S.		
LAND OFFICE		
TRANSPORTER	OIL	1
	GAS	
OPERATOR		2
PRORATION OFFICE		

NEW MEXICO OIL CONSERVATION COMMISSION
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

Form C-104
Supersedes Old C-104 and C-110
Effective 1-1-65

RECEIVED

I. Operator **Barber Oil Inc.** ✓ SEP 2 1965

Address **901 West Pierce Carlsbad, New Mexico** C. C. C. ARTEBIA, OFFICE

Reason(s) for filing (Check proper box)
 New Well ☐ Change in Transporter of:
 Recompletion ☐ Oil ☐ Dry Gas ☐
 Change in Ownership ☒ Casinghead Gas ☐ Condensate ☐

Change in Operating Ownership from **Neil H. Wills to Barber Oil Inc.**
From Wills C4 to Crosby Fed #4

If change of ownership give name and address of previous owner **Neil H. Wills Drawer 7 Carlsbad, New Mexico**

II. DESCRIPTION OF WELL AND LEASE

Lease Name **Crosby-Federal** Well No. **-4** Pool Name, including Formation **Russell Pool-Yates Sand** Kind of Lease **Federal** State, Federal or Fee

Location
 Unit Letter **0** : **663** Feet From The **South** Line and **2000** Feet From The **East**
 Line of Section **12** , Township **20S** Range **20E** , NMPM, **Sony** County

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil ☒ or Condensate ☐ **Barber Oil Inc.** Address (Give address to which approved copy of this form is to be sent)

Name of Authorized Transporter of Casinghead Gas ☐ or Dry Gas ☐ Address (Give address to which approved copy of this form is to be sent)

If well produces oil or liquids, give location of tanks **Inset** Unit **13** Sec **20S** R **20E** Is gas actually connected? **None** When

If this production is commingled with that from any other lease or pool, give commingling order number:

IV. COMPLETION DATA

Designate Type of Completion - (X)		Oil Well	Gas Well	New Well	Workover	Deepen	Plug Back	Same Res'v.	Diff. Res'v.
Date Spudded	Date Compl. Ready to Prod.	Total Depth		P.B.T.D.					
Pool	Name of Producing Formation	Top Oil/Gas Pay		Tubing Depth					
Perforations		Depth Casing Shoe							

TUBING, CASING, AND CEMENTING RECORD			
HOLE SIZE	CASING & TUBING SIZE	DEPTH SET	SACKS CEMENT

V. TEST DATA AND REQUEST FOR ALLOWABLE OIL WELL.

(Test must be after recovery of total volume of load oil and must be equal to or exceed top allowable for this depth or be for full 24 hours)

Date First New Oil Run To Tanks	Date of Test	Producing Method (Flow, pump, gas lift, etc.)	
Length of Test	Tubing Pressure	Casing Pressure	Choke Size
Actual Prod. During Test	Oil - Bbls.	Water - Bbls.	Gas - MCF

GAS WELL

Actual Prod. Test-MCF/D	Length of Test	Bbls. Condensate/MMCF	Gravity of Condensate
Testing Method (pilot, back pr.)	Tubing Pressure	Casing Pressure	Choke Size

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Commission have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

[Signature]
President
(Title)
8-20-65
(Date)

OIL CONSERVATION COMMISSION

APPROVED SEP 3 1965, 19
 BY *[Signature]*
 TITLE *[Signature]*

This form is to be filed in compliance with RULE 1104.
 If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.
 All sections of this form must be filled out completely for allowable on new and recompleted wells.
 Fill out Sections I, II, III, and VI only for changes of owner, well name or number, or transporter, or other such change of condition.
 Separate Forms C-104 must be filed for each pool in multiply completed wells.

c/sf

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

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 Form 9-331-C for such proposals.)

1. oil well ☒ gas well ☐ other ☐

2. NAME OF OPERATOR

Barber Oil, Inc.

3. ADDRESS OF OPERATOR

P.O. Box 1658 Carlsbad, NM 88220

4. LOCATION OF WELL (REPORT LOCATION CLEARLY. See space 17 below.)

AT SURFACE: 663' FSL & 2000' FEL UL-0

AT TOP PROD. INTERVAL:

AT TOTAL DEPTH:

16. CHECK APPROPRIATE BOX TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

REQUEST FOR APPROVAL TO:

TEST WATER SHUT-OFF ☐

FRACTURE TREAT ☐

SHOOT OR ACIDIZE ☐

REPAIR WELL ☒

PULL OR ALTER CASING ☐

MULTIPLE COMPLETE ☐

CHANGE ZONES ☐

ABANDON* ☐

SUBSEQUENT REPORT OF:

☐

☐

☐

☐

☐

☐

☐

☐

(other) Convert Injection Well to Production

5. LEASE

LC-050797

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

RECEIVED

7. UNIT AGREEMENT NAME

JAN 24 1983

8. FARM OR LEASE NAME

Crosby Federal O.C.D.

9. WELL NO.

4 ARTESIA, OFFICE

10. FIELD OR WILDCAT NAME

Russell-Yates

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

Sec. 12, T20S, R28E

12. COUNTY OR PARISH

Eddy

NM

14. API NO.

15. ELEVATIONS (SHOW DF, KDB, AND WD)

(NOTE: Report results of multiple completion or zone change on Form 9-330.)

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.)*

Run approximately 840' of 2 3/8" EUE tubing with 1 1/2" rod pump.

Work to begin as soon as possible.

RECEIVED

JAN 19 1983

OIL & GAS
MINERALS MGMT. SERVICE
ROSWELL, NEW MEXICO

Subsurface Safety Valve: Manu. and Type

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

SIGNED

TITLE President

DATE 1-17-83

APPROVED

(This space for Federal or State office use)

(Orig. Sgd.) PETER W. CHESTER

CONDITIONS OF APPROVAL, IF ANY:

TITLE

DATE

JAN 21 1983

FOR

JAMES A. GILLHAM
DISTRICT SUPERVISOR

*See Instructions on Reverse Side

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir
for FILLING ALONG FOR PERMIT (for such proposals)

LC-050797

U. S. INDIAN, ALLEGATION OF TRIBE NAME

UNIT AGREEMENT NAME

FARM OR LEASE NAME

Crosby Federal

WELL NO.

4

FIELD AND POOL OR WILDCAT

Russell-Yates

SEC., T., R., M., OR BLM, AND
SURVEY OR AREA

S12-T20S-R28E

COUNTY OR PARISH STATE

Eddy

NM

RECEIVED BY

OCT 20 1986

O. C. D.
ARTESIA, OFFICE

1. WELL TYPE: GAS, OIL, WATER, OTHER Injection Well

2. NAME OF OPERATOR

Timothy D. Collier

3. ADDRESS OF OPERATOR

P. O. Box 798, Artesia, New Mexico 88211-0798

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

663 FSL and 2000 FEL

14. PERMIT NO.

15. ELEVATIONS (Show whether OF, RT, GR, or O. C. D.)

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

NOTICE OF INTENTION TO:

8. SUBSEQUENT REPORT OF:

TEST WATER SHUT OFF

PLUG OR ALTER CASING

WATER SHUT OFF

REPAIRING WELL

FRACTURE TREAT

NEW TIE CONNECTION

FRACTURE TREATMENT

ALTERING CASING

SHOOT OR ACIDIZE

ABANDON*

SHOOTING OR ACIDIZING

ABANDONMENT*

REPAIR WELL

CHANGE PLANS

OTHER:

Change in Ownership

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

17. DESCRIBE PROPOSED OR COMPLETE OPERATION: (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 perti-
nent to this work.)*

Former operator: Barber Oil, Inc.
P. O. Box 1658
Carlsbad, New Mexico 88220

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

SIGNED

Timothy D. Collier

TITLE Operator

DATE 10-01-86

(This space for Federal or State office use)

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

DATE
ACCEPTED FOR RECORD
OCT 16 1986

*See Instructions on Reverse Side

Title 16 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.

CARLSBAD, NEW MEXICO

Fill out only Sections I, II, III, and VI for change of a well name, or number, or transporter, or other such change of record. Complete Sections I, II, III, and VI for each pool for each

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPLI
(Other instructions
verse side)

Budget Bureau No. 1004-01-05
Expires August 31, 1985

5. LEASE DESIGNATION AND SERIAL NO.
LC-050797

SUNDRY NOTICES AND REPORTS ON WELLS

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

1. OIL WELL ☐ GAS WELL ☒ OTHER ☐ Change of Operator NOV 10 '87

2. NAME OF OPERATOR

Collier Petroleum Corporation

O. C. D.

3. ADDRESS OF OPERATOR

ARTESIA, OFFICE

P.O. Box 3531, Midland, Texas 79702

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

Unit 0, 663' FSL, 2000' FEL

7. UNIT AGREEMENT NAME

8. FARM OR LEASE NAME

Crosby Federal

9. WELL NO.

4

10. FIELD AND POOL, OR WILDCAT

Russell - Yates

11. SEC., T., S., W., OR BLE. AND
SURVEY OR AREA

Sec. 12, T20S, R28E

14. PERMIT NO.

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

12. COUNTY OR PARISH 13. STATE

Eddy

NM

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

NOTICE OF INTENTION TO:

TEST WATER SHUT-OFF

FRACTURE TREAT

SHOOT OR ACIDIZE

REPAIR WELL

(Other) Change of Operator

PULL OR ALTER CASING

MULTIPLE COMPLETION

ABANDON*

CHANGE PLANE

WATER SHUT-OFF

FRACTURE TREATMENT

SHOOTING OR ACIDIZING

(Other)

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

REPAIRING WELL

ALTERING CASING

ABANDONMENT*

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.)

Change operator from Timothy D. Collier

to Collier Petroleum Corporation

effective September 1, 1987.

ACCEPTED FOR RECORD

SJS

U.S. DEPT. OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
ALBUQUERQUE, NEW MEXICO

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

SIGNED

Bonnie C. Custer

TITLE Agent

DATE October 27, 1987

(This space for Federal or State office use)

APPROVED BY

TITLE

DATE

CONDITIONS OF APPROVAL, IF ANY:

*See Instructions on Reverse Side

RECEIVED

OCT 19 '87

STATE OF NEW MEXICO
ENERGY AND MINERALS DEPARTMENT

NO. OF COPIES RECEIVED		
DISTRIBUTION		
SANTA FE		
FILE		
U.S.O.S.		
LAND OFFICE		
TRANSPORTER	OIL	
	GAS	
OPERATOR		
PRODUCTION OFFICE		

OIL CONSERVATION DIVISION

P. O. BOX 2088

SANTA FE, NEW MEXICO 87501

 Form C-104
 Revised 10-01-78
 Format 06-01-83
 Page 1
 O. C. D.
 ARTESIA, OFFICE
REQUEST FOR ALLOWABLE
AND
AUTHORIZATION TO TRANSPORT OIL AND NATURAL GAS

SE

I. Operator Collier Petroleum Corporation

Address P.O. Box 3531, Midland, Texas 79702

Reason(s) for filing (Check proper box)

☐ New Well ☐ Change in Transporter of: ☐ Oil ☐ Dry Gas

☐ Recompletion ☐ Casinthead Gas ☐ Condensate

☒ Change in Ownership

Other (Please explain) Change Operator from Barber Oil Inc. to Collier Petroleum Corp. effective 9-1-87.

If change of ownership give name and address of previous owner Timothy Collier Barber Oil Inc., 901 West Pierce, Carlsbad, NM

II. DESCRIPTION OF WELL AND LEASE

Lease Name <u>Crosby Federal</u>	Well No. <u>4</u>	Pool Name, including Formation <u>Russell-Yates</u>	Kind of Lease State, Federal or Fee <u>Federal</u>	Lease No. <u>LC-050797</u>
Location				
Unit Letter <u>0</u> : <u>663</u> Feet From The <u>South</u> Line and <u>2000</u> Feet From The <u>East</u>				
Line of Section <u>12</u> Township <u>20S</u> Range <u>28E</u> , NMPM, <u>Eddy</u> County				

III. DESIGNATION OF TRANSPORTER OF OIL AND NATURAL GAS

Name of Authorized Transporter of Oil <input type="checkbox"/> or Condensate <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
<u>Injector</u>				
Name of Authorized Transporter of Casinthead Gas <input type="checkbox"/> or Dry Gas <input type="checkbox"/>	Address (Give address to which approved copy of this form is to be sent)			
If well produces oil or liquids, give location of tanks.	Unit	Sec.	Twp.	Rgs.
Is gas actually connected?	When			
	<u>Part IV-3</u>		<u>11-6-87</u>	
	<u>day of month</u>			

If this production is commingled with that from any other lease or pool, give commingling order number: _____

NOTE: Complete Parts IV and V on reverse side if necessary.

VI. CERTIFICATE OF COMPLIANCE

I hereby certify that the rules and regulations of the Oil Conservation Division have been complied with and that the information given is true and complete to the best of my knowledge and belief.

Bonnie Attwater
 (Signature)

Agent
 (Title)

10-14-87
 (Date)

OIL CONSERVATION DIVISION

APPROVED NOV 03 1987, 19Original Signed By Mike WilliamsTITLE Oil & Gas Inspector

This form is to be filed in compliance with RULE 1104.

If this is a request for allowable for a newly drilled or deepened well, this form must be accompanied by a tabulation of the deviation tests taken on the well in accordance with RULE 111.

All sections of this form must be filled out completely for allowable on new and recompleted wells.

Fill out only Sections I, II, III, and VI for changes of owner, well name or number, or transporter, or other such change of condition.

Separate Forms C-104 must be filed for each pool in multiply completed wells.

Instructions on back

Submit to Appropriate District Office

5 Copies

Santa Fe, NM 87504-2088

PO Box 2089, Santa Fe, NM 87504-2089

☐ AMENDED REPORT CH_4

II. ¹⁰ Surface Location

11 Bottom Hole Location

III. Oil and Gas Transporters

RECEIVED
JUN 14 1965
OIL CON. DIV
DIST. 2

IV. Produced Water

DIST. 2

V. Well Completion Data

Post ID-3
5-10-96
chy ap -

VI. Well Test Data

"I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief.

OIL CONSERVATION DIVISION

SUPERVISOR, DISTRICT II

Printed name: READY OIL and GAS MANAGEMENT

Title:

Title:	AGENT
---------------	-------

Approval Date:

Date: FEBRUARY 1, 1995 Phone: (505) 887-5035

* If this is a change of operator fill in the OGRID number and name of the previous operator

Handwritten signature: Dudley D. Fox
Dudley D. Fox

Previous Operator Signature _____

Callier Pet. Corp.

Printed Name _____

Operator
Title

Title

16-50
Date

Date _____

Operator Ready Oil & Gas Mngt.
 Well Cresby Federal #4
 Unit 0 Section 12 Township 20 Range 28
 API # 30-015-02348

TOPS

Salado ~ 475'
Base Salt ~ 650'
Gares ~ 750'

← 60' Surface Plug

- * Contact OCD 24 hrs. prior to any work done.
- * Salt gel mud consisting of 10# brine with 25# of gel per barrel must be placed between each plug.
- * Install dry hole marker as per Rule 202.B.2
- * Plugs are to be set from point indicated up.
- * Plugs must not be less than 100' or 25 Sacks of cement, whichever is greater, unless specifically indicated.
- * Shoe and stub plugs will be 50' above and below shoe or stub and tagged.
- * Surface plug will be from 0' - 60'
- * Where plugs are required, cement must be placed inside and outside of all casing string(s) in the correct footage or sacks required, if no cement exists.
- * Plugs to be tagged will be indicated.

No Casing Records.
 Procedure may
 change.

← 475' Cement Plug Inside & Outside Casing. TAG Top of SALT Plug.

← Cement Plug from TD - 650'. Shoe Plug / Base SALT Plug. TAG.

MS

UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator
Ready Oil & Gas Mgt.

3a. Address
P.O. Box 381 Artesia, NM 88210

3b. Phone No. (include area code)
505 786-4114

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
1663 FSL, 2000 FEL S-12, Twp.-20S, R.-28E

5. Lease Serial No.
NMLC 050797

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.
CROSBY #4

9. API Well No.
30-015-02348

10. Field and Pool, or Exploratory Area
RUSSELL GATES

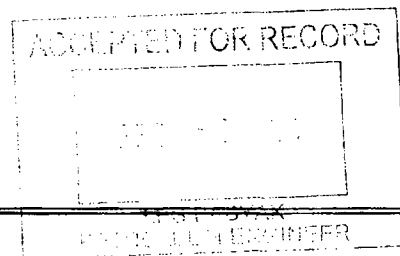
11. County or Parish, State
Eddy NM.

12. CHECK APPROPRIATE BOX(ES) 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"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Change well Name TO: RUSSELL USA #3



14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Title Old Nat

Signature

Date 2-01-03

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

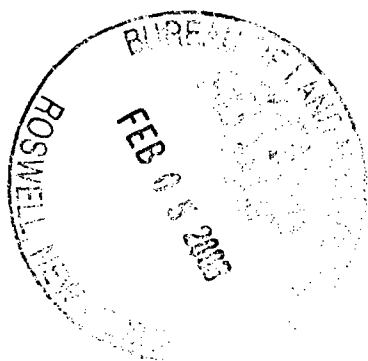
Approved by

Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office



District II
1301 W. Grand Ave., Artesia, NM 88210
Phone: (505) 748-1281 Fax: (505) 748-9720

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-145
Permit 49782

Change of Operator

Previous Operator Information

OGRID: 153653
Name: READY OIL & GAS
Address: PO BOX 381
Address:
City, State, Zip: ARTESIA, NM 88210381

New Operator Information

Effective Date: 3/26/2007

OGRID: 248192
Name: APOLLO ENERGY, L.P.
Address: 6363 Woodway
Address: Suite 1100
City, State, Zip: Houston, TX 77057

I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information on this form and the certified list of wells is true to the best of my knowledge and belief.

Previous Operator

Signature: Buddy DeLeon
Printed Name: Buddy DeLeon
Title: OWNER
Date: 3-28-07 Phone: 746-4716

New Operator

Signature: Tommy G. Wright
Printed Name: Tommy G. Wright
Title: Attorney-In-Fact
Date: 03/26/2007 Phone: (337) 502-5227

NMOCD Approval

Electronic Signature: Carmen Reno, District 2
Date: April 12, 2007

OCD-ARTESIA

Form 3160-5
(April 2004)UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

*Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.***SUBMIT IN TRIPLICATE- Other instructions on reverse side.**1 Type of Well
☒ Oil Well ☐ Gas Well ☐ Other2 Name of Operator
Apollo Energy, LP3a Address
4823 Ihles Road, Lake Charles, La3b Phone No (include area code)
337-502-5227

4 Location of Well (Footage, Sec, T, R, M, or Survey Description)

663' FSL & 2000' FEL Sec. 12-T20S-R28E

5 Lease Serial No
NMLC 050797

6 If Indian, Allotment or Trust Name

7 If Unit or CA/Agreement, Name and/or No

8 Well Name and No
Russell USA # 39 API Well No.
30-015-0234810 Field and Pool, or Exploratory Area
Russell-Yates11 County or Parish, State
Eddy County, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input checked="" type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13 Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recomplate in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

Install 4 1/2" J-55 casing to 890'.

Circulate 211 sacks of Class C cement to surface.

**DENIED. OPERATOR DOES NOT HAVE
INJECTION AUTHORITY FOR THIS WELL.
RT-NMOC
11/19/09**

14 I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Thomas G. Wright

Title Vice-President

Signature

Date

11/5/09

THIS SPACE FOR FEDERAL OR STATE OF

ACCEPTED FOR RECORD	
Approved by	Date
Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.	NOV 17 2009 s/ Dustin Winkler
Title	Office
BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE	

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Instructions on page 2)

Warnell, Terry G, EMNRD

To: Thomas Wright
Subject: RE: WFX Application for Russell USA Well No. 3

Thank you Sir

Your proposed injection well looks good
I'm more concerned about the
Marathon, Mewbourne and Yates wells
Please copy me on your notices to them and
provide me with well sketches of each well
Marathon 30-015-30828 Yates Federal Well No. 18
Mewbourne 30-015-34362 Derringer 18 Federal Well No. 1
Yates Petroleum 30-015-34362 Williamson BC Well No. 4
We need to make sure they are all protected over the Yates Field Sand interval

Thank you

Terry

From: Thomas Wright [mailto:TommyW@doreenergy.com]
Sent: Tuesday, November 24, 2009 6:56 AM
To: Warnell, Terry G, EMNRD
Cc: Greg Hall
Subject: RE: WFX Application for Russell USA Well No. 3

Mr. Warnell,
I am attaching the completion report with a wellbore schematic for your files. Please advise if I need to file anything else.
Thanks,

Thomas G. Wright, CPL
Apollo Energy, LP
4823 Ihles Road
Lake Charles, La 70605
337-502-5227-Office
337-540-1243-Cell
tommyw@doreenergy.com

From: Warnell, Terry G, EMNRD [mailto:TerryG.Warnell@state.nm.us]
Sent: Friday, November 20, 2009 5:11 PM
To: Thomas Wright
Cc: Ezeanyim, Richard, EMNRD; Inge, Richard, EMNRD
Subject: WFX Application for Russell USA Well No. 3

Dear Mr. Wright:

I received your application and have a few questions.

The API number on your CBL log and well sketch is 30-015-02377
Which is the API number for USA Well No. 28
Am I looking at data for Well No. 3 or No. 28?
Please clarify

Also wondering if you noticed mineral rights owner and operators outside the unit boundary within ½ mile?
Looks to me like Yates, Marathon and Mewbourne need to be noticed.

Your application checklist has NSL checked.
Did you mean to do that?

Thanks,

Terry G. Warnell
New Mexico Oil Conservation Division
1220 South St. Francis
Santa Fe, NM 87505
505-476-3466

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Confidentiality Notice: This e-mail, including all attachments is for the sole use of the intended recipient(s) and may contain confidential and privileged information. Any unauthorized review, use, disclosure or distribution is prohibited unless specifically provided under the New Mexico Inspection of Public Records Act. If you are not the intended recipient, please contact the sender and destroy all copies of this message.
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R 28 E

OXY
Thunderbolt
Nordstrand

11 12
14 13

Oil Conservation Division
Case No. 2
Exhibit No. 2

Oxy Yates Fed. #7

OXY Yates 13 Fed No. 16

Government AC No. 2

SOUTH
BATTERY

Indigo Federal No. 1

Wills Federal 10 y

LC 050797
lease Boundary 2
(203-28E)

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

RUSSELL POOL

S FEDERAL

30-015-02348

Eddy

County, NM

Township _____ Range _____

Township _____ Range _____

Township Sec 12 30S Range 28E

Township _____ Range _____

Form 104—(Four on Township)

6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36
6	5	4	3	2	1	6	5	4	3	2	1
7	8	9	10	11	12	7	8	9	10	11	12
18	17	16	15	14	13	18	17	16	15	14	13
19	20	21	22	23	24	19	20	21	22	23	24
30	29	28	27	26	25	30	29	28	27	26	25
31	32	33	34	35	36	31	32	33	34	35	36

- (1) 30-015-72049 Yates Nat Corp Williamson BC #4
- (2) 30-015-30828 marathon Yates Federal #18
- (3) 30-015-34362 Macbourn Durvinger 18 Fed #1

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240

DISTRICT II
811 South First, Artesia, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Artec, NM 87410

DISTRICT IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised March 17, 1999

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 73320	Pool Name East Burton Flat Morrow
Property Code	Property Name DERRINGER 18 FEDERAL	Well Number 1
OGED No. 14744	Operator Name MEWBOURNE OIL COMPANY	Elevation 3261

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	18	20-S	29-E		660'	NORTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 3.30	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Kristi Green</i> Signature Kristi Green Printed Name Hobbs Regulatory Title 8/22/05 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>AUGUST 15, 2005 Date Surveyed GARY L. JONES Signature & Seal of Professional Surveyor 7977 Certificate No. 7977 BASIN SURVEYS</p>
--	--

DISTRICT I
P.O. Box 1980, Hobbs, NM 88241-1980

DISTRICT II
P.O. Drawer DD, Artesia, NM 88211-0719

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
P.O. BOX 2088, SANTA FE, N.M. 87504-2088

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised February 10, 1994
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

P.O. Box 2088
Santa Fe, New Mexico 87504-2088

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 73320	Pool Name Burton Flat Area Meadow East
Property Code	Property Name YATES FEDERAL	Well Number 18
OGRID No. 14021	Operator Name MARATHON OIL COMPANY	Elevation 3253

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	18	20 S	29 E		660	SOUTH	1980	WEST	EDDY

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320 - W/2	Joint or Infill	Consolidation Code	Order No.						

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

<p>LOT 1</p> <p>32.21 ACRES LOT 2</p> <p>320 AC.</p> <p>32.70 ACRES LOT 3</p> <p>33.20 ACRES LOT 4 33.69 ACRES</p> <p>1980'</p> <p>660'</p> <p>SEE DETAIL</p> <p>DETAIL</p> <p>3258.1'</p> <p>3254.0'</p> <p>3251.7'</p> <p>3252.8'</p> <p>640 AC. LEASE BOUNDARY</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p> Signature</p> <p>R. J. Longmire Printed Name</p> <p>Drilling Superintendent Title</p> <p>10/8/99 Date</p> <p>SURVEYOR CERTIFICATION</p> <p>I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.</p> <p>SEPTEMBER 30, 1999</p> <p>Date Surveyed _____ DC</p> <p> Signature of Gary E. Eidsen Professional Surveyor</p> <p> Professional Surveyor</p> <p>Certification No. RONALD J. EIDSON 3239 GARY EIDSON 12641 RONALD 12185</p>
---	--

NEW MEXICO OIL CONSERVATION COMMISSION
WELL LOCATION AND ACREAGE DEDICATION PLAT

Form C-102
Supersedes C-128
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

Operator YATES PETROLEUM CORP.			Lease WILLIAMSON BC		Well No. 4
Unit Letter K	Section 7	Township 20S	Range 29E	County Eddy	
Actual Footage Location of Well: 1980 feet from the South line and 1980 feet from the West line					
Ground Level Elev. 3270	Producing Formation Morrow		Pool Undesignated (Barton Flat)	Dedicated Acreage: 302.98 AC Acres	

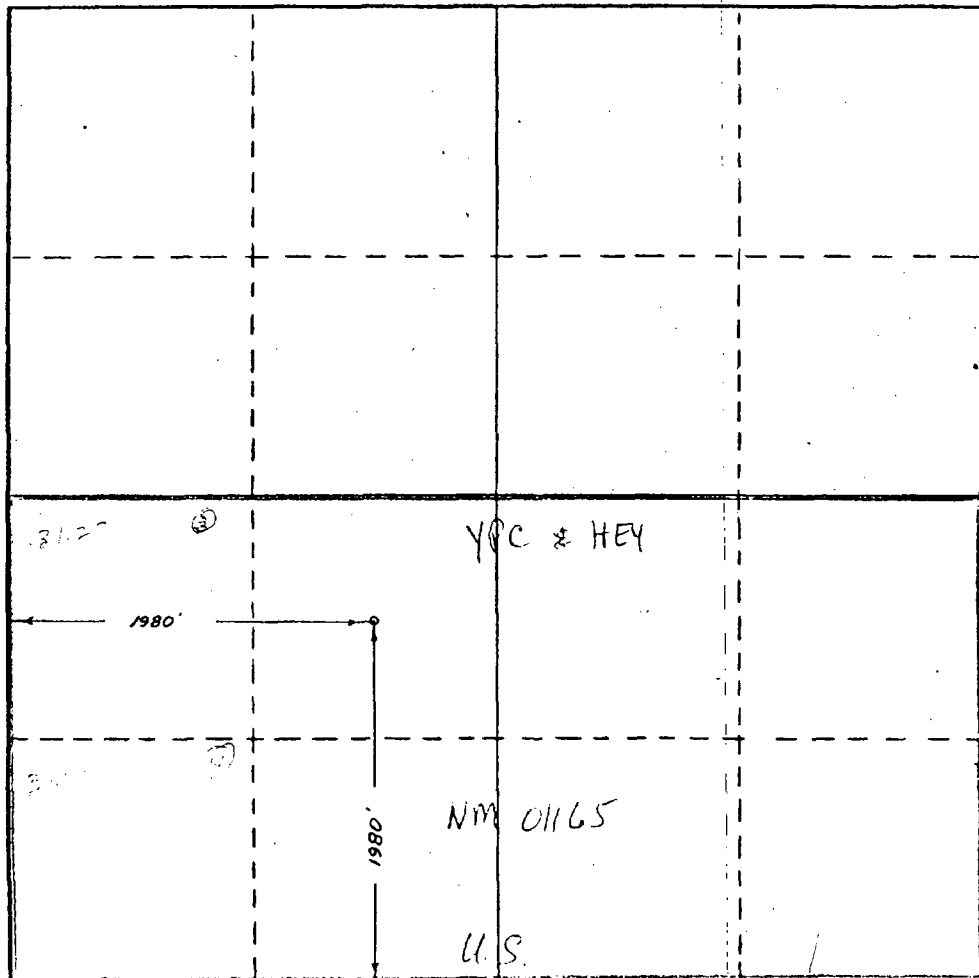
1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation _____

If answer is "no," list the owners and tract descriptions which have actually been consolidated (Use reverse side of this form if necessary.) _____

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.

RECEIVED
JAN 20 1977
U.S. GEOLOGICAL SURVEY
ARTESIA, NEW MEXICO



CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

Edwin H. Wadsworth
Name

Position
Engineer

Company
Yates Petroleum Corp

Date
1-17-77

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief.

Date Surveyed
1/8/77

Registered Professional Engineer and/or Land Surveyor

Edwin H. Wadsworth
Certificate No. *3610*

Warnell, Terry G, EMNRD

From: Thomas Wright [TommyW@doreenergy.com]
Sent: Thursday, December 03, 2009 2:46 PM
To: Warnell, Terry G, EMNRD
Subject: FW: Attached Image
Attachments: 2589_0001.pdf

Mr. Warnell,

Attached are the three well bore schematics you requested. Notice has been sent to the three operators you requested. Hard copies and notice of mailings are being sent.

Please advise if you need any additional information.

Thanks,

Thomas G. Wright, CPL
Apollo Energy, LP
4823 Ihles Road
Lake Charles, La 70605
337-502-5227-Office
337-540-1243-Cell
tommyw@doreenergy.com

From: canon@doreenergy.com [mailto:canon@doreenergy.com]
Sent: Thursday, December 03, 2009 2:57 PM
To: Thomas Wright
Subject: Attached Image

This inbound email has been scanned for malicious software and transmitted safely to you using Webroot Email Security.

WELL NAME: Williamson BC No. 4

FIELD:

LOCATION: 1,890' FSL & 1980' FWL Sec 7-20S-29E

Eddy County NM

GL: 3,270' ZERO: KB: 3,285'

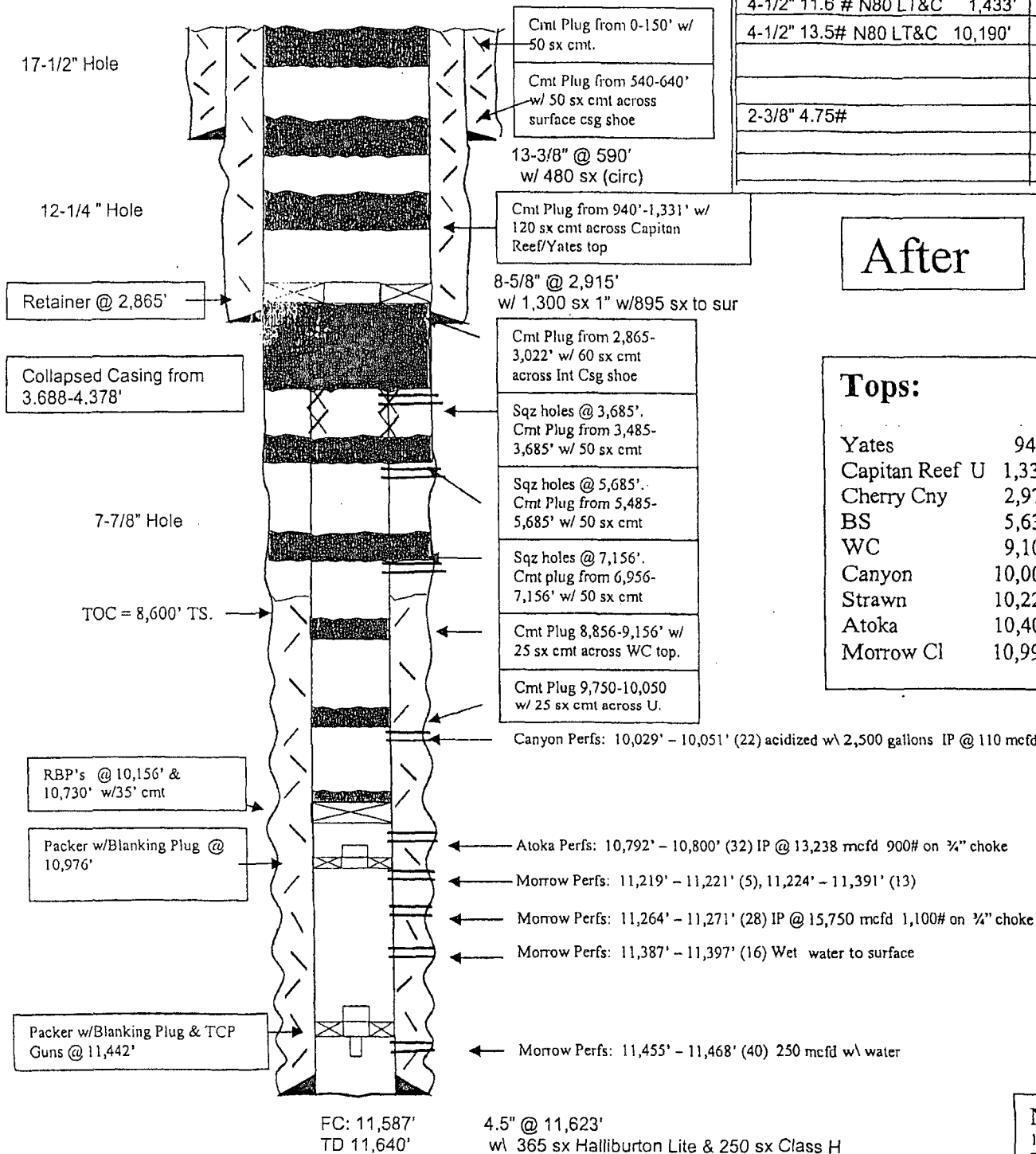
SPUD DATE: 06-29-77 COMPLETION DATE: 10-15-77

COMMENTS: API # 30-015-22049

A note dated 5-5-87 indicated casing leaks below 2,674' down to 8,022' annulus would not hold pressure.

CASING PROGRAM

13-3/8" 61# K-55 ST&C	590'
8-5/8" 32 & 24# J-55 ST&C	2,915'
4-1/2" 11.6 # N80 LT&C	1,433'
4-1/2" 13.5# N80 LT&C	10,190'
2-3/8" 4.75#	



After

Tops:

Yates	940'
Capitan Reef U	1,331'
Cherry Cny	2,972'
BS	5,635'
WC	9,106'
Canyon	10,002'
Strawn	10,226'
Atoka	10,406'
Morrow Cl	10,990'

Not to Scale

11/28/06
DC/M.Hill

Form OMB No. 1004-0137

KB: 3261.0'

DF: 3261.0'

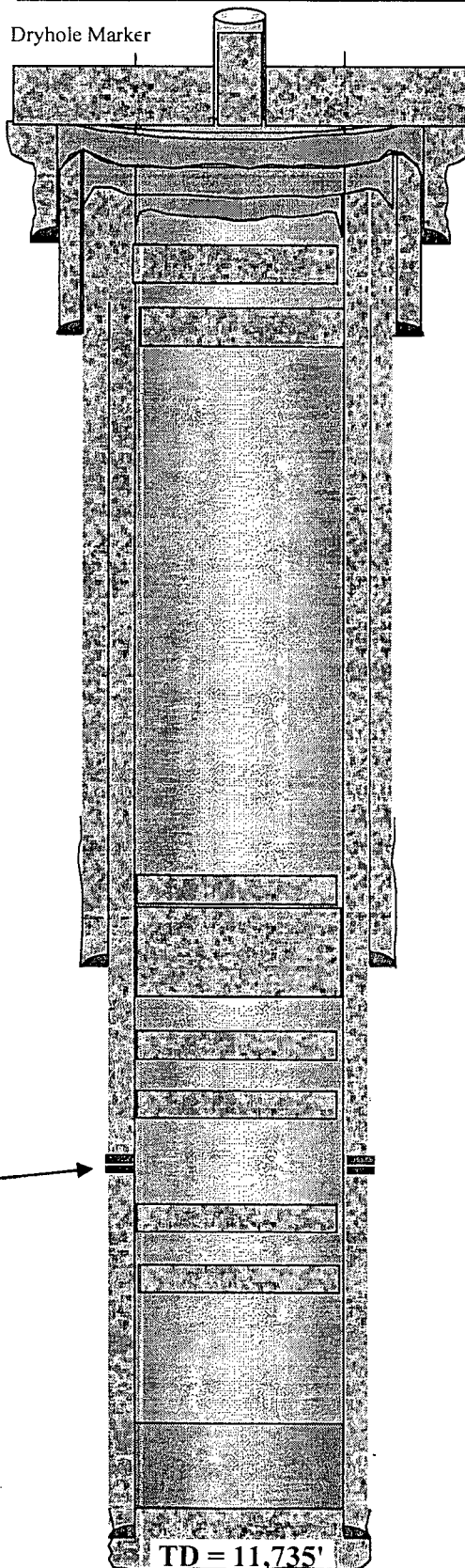
GL: 3261.0'

Datum: 0.0' above GL

Marathon Yates Federal #18
Burton Flats Morrow Field

Greg Hall 12/2009
API No 30-015-30828

660' FSL & 1980' FWL
Sec 18-T20S-R29E
Eddy County, TX



Plug #8 - 20 sx Class C to Surface -
Cut casing 3' below GL & install dry
hole marker

13 3/8" 48# H-40 & 54.5# K55
surface casing at 1255 feet

Cemented with 550 sx Halliburton
Premium Plus + 0.25 # flocel and
tailed with 250 sx Halliburton
Premium + 2% CaCl₂

5 1/2" TOC @ surface

Cemented with 740 sx Halliburton
Light Premium Plus + 0.3% CFR-3,
0.2% Econolite + 6 #/sx Salt and
tailed with 250 sx Halliburton
Premium Plus _ 0.2% Econolite

9 5/8" 36# K-55 @ 3200

Open Stage Collar - Cement with 1105
sx Halliburton 50/50 Premium Poz +
0.6% HALAD-9 + 2.0% Gel + 3.0
#/sk KCl + 5.0% Microbond - cement
to surface

Stage collar @ 9000

Cemented with 725 sx Modified Super
H + 0.4% CFR-3 + 5 #/sx Gilsonite +
0.5% Halad-344 + 1 #/sx salt + 0.2%
HR-7 and tailed with Intefill Premium
Plus + 0.25#/sx Flocele + 3.0#/sk
Gilsonite + 0.2% HALAD-322

5 1/2" 17# & 20# L-80 @ 11500

20" H-40 94 #/ft @ 350'

Cemented with 850 sx Premium Plus
+ 2% CaCl₂ + 1/4 # Flocel to surface

Plug #7 - spot 38 sx Class C @ 425

Plug #6 - spot 38 sx Class C @ 1298

Spot 50 sx Class C - tag @ 3099

Plug #5 - spotted 56 sx Class C 3274 -
3174. Tag plug @ 3254

Plug #4 - 56 sx Class H 5950 - 5800

Plug #3 - 56 sx Class H 7960 - 7810

Plug #2 - 56 sx Class H 9450 - 9350

Plug #1 - 75 sx Cls H 10800 - 10600

TD = 11,735'

Form OMB No. 1004-0137

KB: 3261.0'

DF: 3261.0'

GL: 3261.0'

Datum: 0.0' above GL

Derringer 18 Federal #1
East Burton Flat Morrow Field

Greg Hall 12/2009

API No 30-015-34362

660' FSL & 1980' FWL

Sec 18-T20S-R29E

Eddy County, TX

20 K-55 98 #/ft @ 397'
Cemented with 600 sx Class C to
surface

13 3/8" 54.5# K55 surface casing at
1101 feet - cemented with 1050 sx
Class C to surface

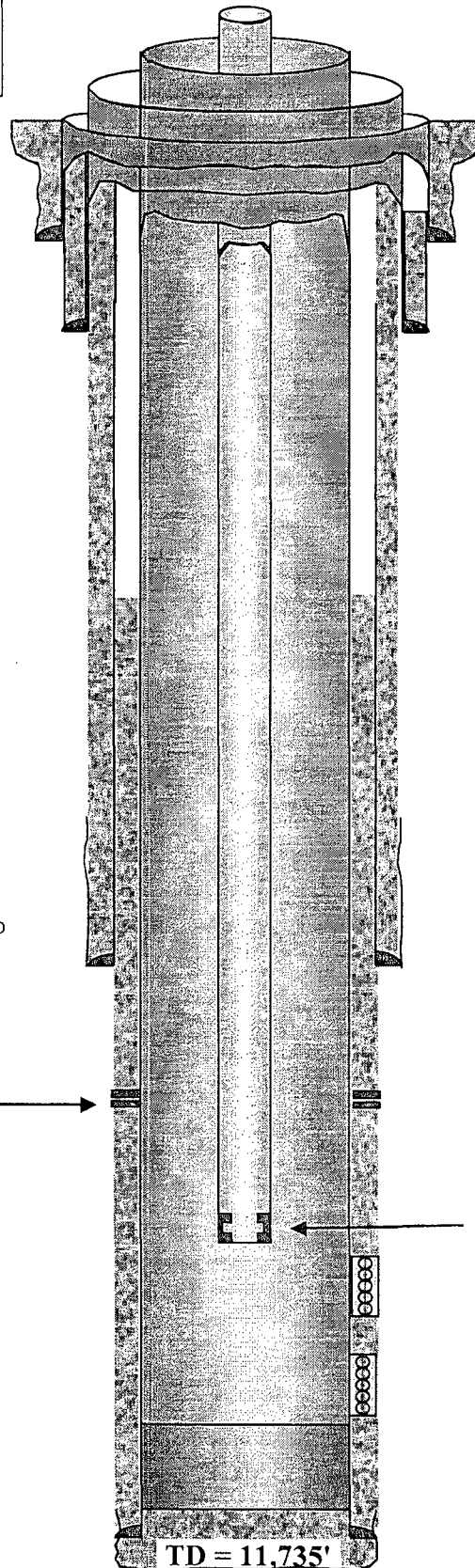
TOC @ 1956'

9 5/8" 40# K-55 @ 3112 and
cemented with 1330 sx Class H & C to
surface

DV Tool @ 8002

5 1/2" 17# N80 @ 1175 cemented
with 1st stage - 1100 sx Class H &
2nd Stage - 1400 sx Class H

PBTD = 11681



2 7/8th tubing set @ 11,182'

Morrow 11264 - 11364

Morrow 11590 - 11602

TD = 11,735'