DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.
11/04/2015			11/09/2015	WFX	PMAM1531355864

ABOVE THIS LINE FOR DIVISION USE ONLY

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

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

VGEU Injection Wells

- WFX
- ConocoPhillips Company
217817

[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

Application to expand authorized injection interval; for R-10020-B

[D] Other: Specify _____

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

Well
- VGEU #21
30-025-37857
+
10 wells

[A] ☐ Working, Royalty or Overriding Royalty Interest Owners

[B] ☐ Offset Operators, Leaseholders or Surface Owner

[C] ☒ Application is One Which Requires Published Legal Notice

Pool
- Vacuum; Glorieta
62160

[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.

Susan B. Maunder	Susan B. Maunder	Sr. Regulatory Specialist	10/22/15
Print or Type Name	Signature	Title	Date

Susan.B.Maunder@conocophillips.com
e-mail Address

ConocoPhillips

Susan B. Maunder
Sr. Regulatory Specialist
Phone: (281) 206-5281

ConocoPhillips Company
600 N. Dairy Ashford Road, Off P10-3096
Houston, TX 77079-1175

October 26, 2015

State of New Mexico
Oil Conservation Division
Attn: Mr. P. Goetze
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

APPLICATION TO AMEND EXISTING INJECTION APPROVAL TO INCLUDE THE FULL UNITIZED INTERVAL FOR VACUUM GLORIETA EAST UNIT WELLS

REF: ORDERS R-10017 AND R-10020-B

Dear Mr. Goetze,

ConocoPhillips Company is seeking administrative approval from the New Mexico Oil Conservation Division to amend an existing injection authorization (R-10020-B). Our proposal is to inject produced water into the entire unitized interval through existing wells in the unit mentioned above. Please refer to materials submitted in conjunction with Case No. 10845 for additional information.

You previously requested the following items be addressed within our application:

1. "Application should include a correlation for each of the wells being deepened showing that the new perforations will be within the Unitized Formation (with new e-logs or cross-sections utilizing data)." Cross sections are included in Geologic Data section.
2. Conduct a review to determine any changes to the Areas of Review since issuance of R-10020-B. The Area of Review for VGEU 19-34 experienced some changes which are included.
3. Notifications completed as required for a new application. Documentation is included.

Enclosed are the following documents in support of this request.

- Administrative Application Checklist
- New Mexico Form C-108
- Notification list from Landman, Cody Travis
- Copy of transmittal letter to interested parties

If you have questions regarding this request, I can be reached at 281-206-5281 or via email at Susan.B.Maunder@conocophillips.com.

Sincerely,

Susan B. Maunder

Susan B. Maunder
Senior Regulatory Specialist
ConocoPhillips Company

w/ Enclosures

STATE OF NEW MEXICO
ENERGY, MINERALS AND NATURAL
RESOURCES DEPARTMENT

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

FORM C-108
Revised June 10, 2003

APPLICATION FOR AUTHORIZATION TO INJECT

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

II. OPERATOR: ConocoPhillips Company
ADDRESS: 600 North Dairy Ashford Road, P10-3-3096; Houston, Texas 77079

CONTACT PARTY: Susan B. Maunder PHONE: 281-206-5281

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. **Expand Injection Interval for Vacuum Glorieta East Unit**

IV. Is this an expansion of an existing project? __X__ Yes _____ No
If yes, give the Division order number authorizing the project: R-10017 and R-10020-B

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. **See R-10020-B supporting application. Updated information on VGEU 19-34 (API 30-025-40738) is included.**

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. **Tabulation of data for VGEU 19-34 (API 30-025-40738) AOR is included.**

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. **See application submitted in support of R-10020-B**

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: Susan B. Maunder TITLE: Sr. Regulatory Specialist

SIGNATURE: Susan B. Maunder DATE: 10/22/15

E-MAIL ADDRESS: Susan B. Maunder@conocophillips.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: **See application submitted in support of R-10020-B. See also R-10017-B**

DISTRIBUTION: Original and one copy to Santa Fe with one copy to the appropriate District Office

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.

Proposed Injection Well Activity

Operator: ConocoPhillips Company
Lease: B-1576-3
Unit: Vacuum Glorieta East (VGEU)
Acreage/Location: 4,240 acres/ T17S R35E, Sections 26 - 34 and T18S R35E, Section 5

Brief Unit History:

Production in this area began in 1963. The VGEU has produced over 50 million barrels of oil and 50 billion cubic feet of gas since the early 1960's. Unitization occurred in 1993. The unit was approved for waterflood 1993. Previous injection authorizations were consolidated into one approval, R10020-B in 2013. There are 75 active wells which includes 11 injectors. Current production averages 980 BOPD, 240 MCFD and 27,500 BWPD. Current injection into 11 active injectors is 10,200 BWPD.

Injection Well Summary

					Surface		Bottom Hole	
WELLNAME	Well #	API Number	Deviated (Y/N)	LOCATION	XY SURF_LAT	XY SURF_LONG	XY BH_LAT	XY BH_LONG
VACUUM GLORIETA EAST UNIT Tract 2	21	3002537851	N	T: 17S R: 35E Sec. 32 Unit Letter A	32.79525	-103.4725	32.79525	-103.4725
VACUUM GLORIETA EAST UNIT Tract 2	22	3002537852	N	T: 17S R: 35E Sec. 32, Unit Letter G	32.79372	-103.47595	32.79372	-103.47595
VACUUM GLORIETA EAST UNIT Tract 5	3	3002520829	N	T: 17S R: 35E Sec. 29, Unit Letter O	32.79987	-103.47701	32.79987	-103.47701
VACUUM GLORIETA EAST UNIT Tract 17	12	3002520864	N	T: 17S R: 35E Sec. 31, Unit Letter I	32.78981	-103.49014	32.78981	-103.49014
VACUUM GLORIETA EAST UNIT Tract 19	5 33	3002540739	N	T: 17S R: 35E Sec. 32, Unit Letter M	32.78675	-103.4855806	32.78675	-103.4855806
VACUUM GLORIETA EAST UNIT Tract 19	6 34	3002540738	N	T: 17S R: 35E Sec. 32, Unit Letter K	32.7899639	-103.4807111	32.7899639	-103.4807111
VACUUM GLORIETA EAST UNIT Tract 25	7 2	3002520886	N	T: 17S R: 35E Sec. 32, Unit Letter C	32.79653	-103.48134	32.79653	-103.48134
VACUUM GLORIETA EAST UNIT Tract 25	8 32	3002540737	N	T: 17S R: 35E Sec. 32, Unit Letter E	32.7939611	-103.485636	32.7939611	-103.485636
VACUUM GLORIETA EAST UNIT Tract 37	9 3	3002520290	N	T: 17S R: 35E Sec. 31, Unit Letter G	32.79231	-103.49421	32.79231	-103.49421
VACUUM GLORIETA EAST UNIT Tract 37	10 31	3002540736	Y	T: 17S R: 35E Sec. 31, Unit Letter A	32.7960012	-103.4884588	32.7965426	-103.4902206
VACUUM GLORIETA EAST UNIT Tract 38	11 3	3002532368	N	T: 17S R: 35E Sec. 29, Unit Letter N	32.80173	-103.48343	32.80173	-103.48343

Current Status: Wells are currently injecting.

Proposed Activity:
ConocoPhillips Company is proposing to expand the allowable interval to include perforations existing at the time of R-10020-B issuance and new perforations within the approved unitized interval. The benefit will be consistent interval approval throughout the field. We are seeking authorization to inject into the unitized formations (Glorieta and Paddock) at depth range of 5838' to 6294'. No lease line injection wells are proposed at this time.

The documents supporting injection authorizations WFX-865 and R-10020-B are incorporated by reference. Updated documents are attached as specified.

Well Data (as requested by Form C-108, Sec. III): Attachment 1

Existing Approvals (as requested by Form C-108, Sec. IV): Included on C-108 form.

Maps (as requested by Form C-108, Sec. V):
Wells and leases within two miles (see maps supporting R-10020-B).
Attachment 2 – Wells within the 0.5 mile area of review for VGEU 19-34 (includes changes since 2013).

Tabulation of well data (as requested by Form C-108, Sec. VI):
Attachment 3 – Tabulation of well data for wells plugged since 2013 is attached (other wells refer to table supporting R-10020-B)
Attachment 4 – Well schematics for plugged wells since 2013

Injection Operations Description (as requested by Form C-108, Sec. VII):
1) Proposed average injection rate: less than 2500 BWPD
Proposed maximum injection rate: 3000 BWPD
2) System is closed.
3) Proposed maximum injection pressure: 1200 psi
4) Injection water will be a mix of produced water from Vacuum Glorieta East Unit wells and East Vacuum Grayburg San Andres Unit wells.
5) The wells will be utilized for enhanced recovery into producing formations.

Geologic Data (as requested by Form C-108, Sec. VIII):
Geologic data were included in R-10020-B supporting documents.
Requested correlative data is included in Attachment 5.

Stimulation Program (as requested by Form C-108, Sec. IX):
The wells will be periodically stimulated with various acid treatments for maintenance purposes as allowed in III.A.4.

Logging Data (as requested by Form C-108, Sec. X):
Any logging and test data collected while drilling and completing wells have been submitted in accordance with requirements.

Chemical Analysis of Water (as requested by Form C-108, Sec. XI):
Samples were referenced in your May 10, 2010 decision document involving WFX-865.
Additional samples were submitted in R-10020-B supporting documents.

Examination of geologic and engineering data (as requested by Form C-108, Sec. XII):
Geologist statement is included in supporting documentation for R-10020-B

Proof of Notice (as requested by Form C-108, Sec. XIII):
Attachment 6 contains a copy of the notorized newspaper publication and surface owner and working interest owner notifications.

Attachment 1

Injection Well Data Sheets for 11 Injectors

(includes updated injection interval)

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 02 #021 API#30-025-37851

WELL LOCATION: 1200' N & 525' E A 32 17S 35E

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ *or* _____ ft^3

Top of Cement: Surface Method Determined: _____

Intermediate Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 850 sacks sx. *or* _____ ft^3

Top of Cement: Surface Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1600 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: _____

Total Depth: 6345'

Injection Interval

5923' feet to 6415' feet

(Perforated or Open Hole; indicate which)

Side 2(30-025-37851)

INJECTION WELL DATA SHEET

Tubing Size: 2.875" Lining Material: TK-99, J-55, Internal Plastic Coated (IPC)

Type of Packer: 5.5" Nickel Plated Lock Set

Packer Setting Depth: 6006'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes ___X___ No

   If no, for what purpose was the well originally drilled? Well was a producer prior to conversion to injector.

2. Name of the Injection Formation: Glorieta, Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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. N/A

5. Give the name and depths of any oil and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 02 #022 API#30-025-37852

WELL LOCATION: 1765' N & 1585' E G 32 17S 35E

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"
Cemented with: 850 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____
Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
Cemented with: 1650 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: _____

Total Depth: 6350'

Injection Interval

5924' feet to 6413' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-37852)

Tubing Size: 2.875" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 5.5" Nickel Plated Lock Set

Packer Setting Depth: 6012'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes __X__ No

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

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 05 #03 API#30-025-20829

WELL LOCATION: 460' S & 1980' E O 29 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 800 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 6.625" Casing Size: 4.5"

Cemented with: 880 sacks *or* _____ ft^3

Top of Cement: 1392' Method Determined: _____

Total Depth: 6301'

Injection Interval

5959' feet to 6441' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-20829)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.5" Nickel Plated Lock Set

Packer Setting Depth: 5994'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes __X__ No

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

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 17 #02 API#30-025-20864

WELL LOCATION: 2080' S & 660' E I 31 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 900 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1800 sacks *or* _____ ft^3

Top of Cement: 1680' Method Determined: Temp. survey

Total Depth: 6300'

Injection Interval

5936' feet to 6389' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-20864)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 5.5" Nickel Plated Lock Set

Packer Setting Depth: 6035'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes __X__ No

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

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 19 #33 API#30-025-40739

WELL LOCATION: 968' S & 733' W M 32 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 1060 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1470 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Total Depth: 6391'

Injection Interval

5980' feet to 6395' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-40739)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 5.5" Nickel Plated Lock Set

Packer Setting Depth: 6059'

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

Additional Data

1. Is this a new well drilled for injection? X Yes _____ No (This well was drilled to be used as an injector in 2012)

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

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 19 #34 API#30-025-40738

WELL LOCATION: 2150' S & 2233' W K 32 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"
Cemented with: 900 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____
Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"
Cemented with: 1850 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Total Depth: 6415'

Injection Interval

5965 feet to 6398' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-40738)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 5.5" Nickel Plated Lock Set

Packer Setting Depth: 6049'

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

Additional Data

1. Is this a new well drilled for injection? X Yes _____ No (This well was drilled to be used as an injector in 2012)
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 25 #02 API#30-025-20886

WELL LOCATION: 760' N & 1980' W C 32 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 1050 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 4.5"

Cemented with: 870 sacks *or* _____ ft^3

Top of Cement: 2550' Method Determined: Temp. Survey

Total Depth: 6250'

Injection Interval

5945 feet to 6413' feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-20886)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.5" Nickel Plated Lock Set

Packer Setting Depth: 6060'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes ___X___No
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 25 #32 API#30-025-40737

WELL LOCATION: 1695' N & 723' W E 32 17S 35E

FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 900 sacks *or* _____ ft³

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1770 sacks *or* _____ ft³

Top of Cement: surface' Method Determined: circulated

Total Depth: 6400'

Injection Interval

5926 feet to 6405 feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-40737)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.5" Nickel Plated Lock Set

Packer Setting Depth: 5984'

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

Additional Data

1. Is this a new well drilled for injection? X Yes _____ No (This well was drilled as an injector in 2012.)
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

Corrected Data

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 37 #03 API#30-025-20290

WELL LOCATION: 2310' N & 1980' E G 31 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 11" Casing Size: 8.625"

Cemented with: 660 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 750 sacks *or* _____ ft^3

Top of Cement: 2735' Method Determined: Temp. Survey

Total Depth: 6900'

Injection Interval

5898 feet to 6351 feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-20290)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.5" Nickel Plated Lock Set

Packer Setting Depth: 6060'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes ___X___No
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 37 #31 API#30-025-40736

WELL LOCATION: 969' N & 153' E | A | 31 | 17S | 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 900 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1470 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Total Depth: 6433'

Injection Interval

5918 feet to 6394 feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-40736)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.5" Nickel Plated Lock Set

Packer Setting Depth: 5998'

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

Additional Data

1. Is this a new well drilled for injection? X Yes ___ No
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

Side 1

INJECTION WELL DATA SHEET

Corrected Data

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit Tract 38 #003 API#30-025-32368

WELL LOCATION: 1130' S & 1405' W N 29 17S 35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 850 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ sx. *or* _____ ft^3

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1430 sacks *or* _____ ft^3

Top of Cement: Surface Method Determined: circulated

Total Depth: 6300'

Injection Interval

5930 feet to 6407 feet

(Perforated or Open Hole; indicate which)

Side 2 (30-025-32368)

Tubing Size: 2.375" Lining Material: Internal Plastic Coated (IPC)

Type of Packer: 4.9" Nickel Plated Lock Set

Packer Setting Depth: 6042'

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

Additional Data

1. Is this a new well drilled for injection? ___ Yes ___X___No
   If no, for what purpose was the well originally drilled? _____

2. Name of the Injection Formation: Paddock

3. Name of Field or Pool (if applicable): Vacuum; Glorieta

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 and gas zones underlying or overlying the proposed injection zone in this area: Grayburg; San Andres; Yates

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 002-21W

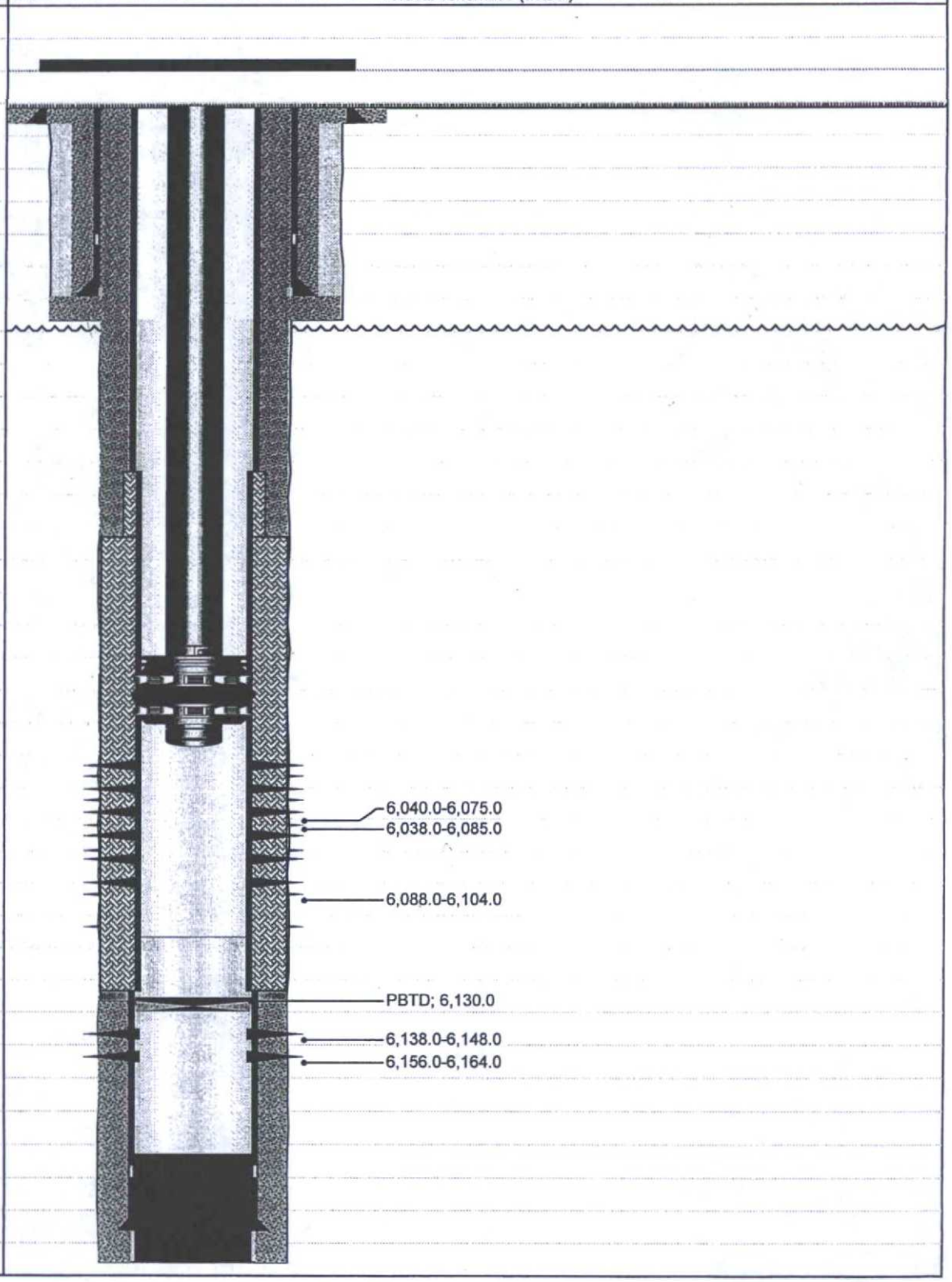
Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
TESTING	TEST-LOG-PROFILE		7/18/2011	7/26/2011

VERTICAL - Original Hole, 11/24/2015 3:32:57 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
-385.2		
0.0		
11.8		
87.9		
129.9		
1,506.2		
1,547.9		
1,579.4		
1,596.1		
4,260.5		
5,602.0		
5,670.9		
5,699.8		
5,756.9		
5,857.0		
5,874.3		
5,932.4		
5,938.3		
5,960.0		
5,998.0		
6,003.0		
6,005.9		
6,008.2		
6,040.7		
6,057.1		
6,075.1		
6,085.0		
6,103.3		
6,105.3		
6,110.9		
6,132.9		
6,148.0		
6,166.0		
6,167.7		
6,281.5		
6,286.1		
6,326.4		
6,336.6		



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 002-22W

Most Recent Job				
Jobs				
Job Category	**Primary Job Type**	**Secondary Job Type**	**Actual Start Date**	**End Date**
TESTING	TEST-LOG-PROFILE		7/18/2011	7/19/2011

VERTICAL - Original Hole, 11/24/2015 3:38:34 PM

MD (ftKB)	incl (°)	Vertical schematic (actual)
0.0		
10.2		
31.5		
60.0		
1,509.2		
1,540.7		
1,559.4		
1,578.1		
1,597.4		
1,606.0		
1,608.9		
4,302.5		
5,608.6		
5,924.2		
5,963.6		
6,008.9		
6,013.1		
6,030.5		
6,032.5		
6,082.7		6,042.0-6,092.0
6,085.0		
6,095.5		
6,106.0		PBTD; 6,105.0 -PERMANENT
6,111.9		6,112.0-6,114.0
6,117.1		6,117.0-6,119.0
6,122.0		6,122.0-6,124.0
6,134.5		
6,158.5		
6,233.9		
6,293.0		
6,295.9		
6,322.8		
6,337.9		
6,341.5		
6,350.1		

Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 005-03

Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
WELL INTERVENTION	REPAIR DOWNHOLE FAILU...		3/11/2015	3/13/2015

VERTICAL - MAIN HOLE, 11/24/2015 3:39:40 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
-3.0		
4.9		
19.0		
24.9		
29.9		
38.1		
50.9		
1,629.9		
2,815.9		
4,101.0		
5,571.9		
5,578.1		
5,912.1		
5,924.2		
5,982.6		
5,986.2		
5,992.1		
6,028.9		
6,100.1		PBTD; 6,100.0
6,121.7		
6,128.3		6,103.0-6,148.0
6,132.9		
6,157.2		
6,173.9		
6,180.1		
6,182.4		
6,187.7		
6,210.0		
6,212.6		
6,259.8		
6,300.9		

Report Printed: 11/24/2015

ConocoPhillips

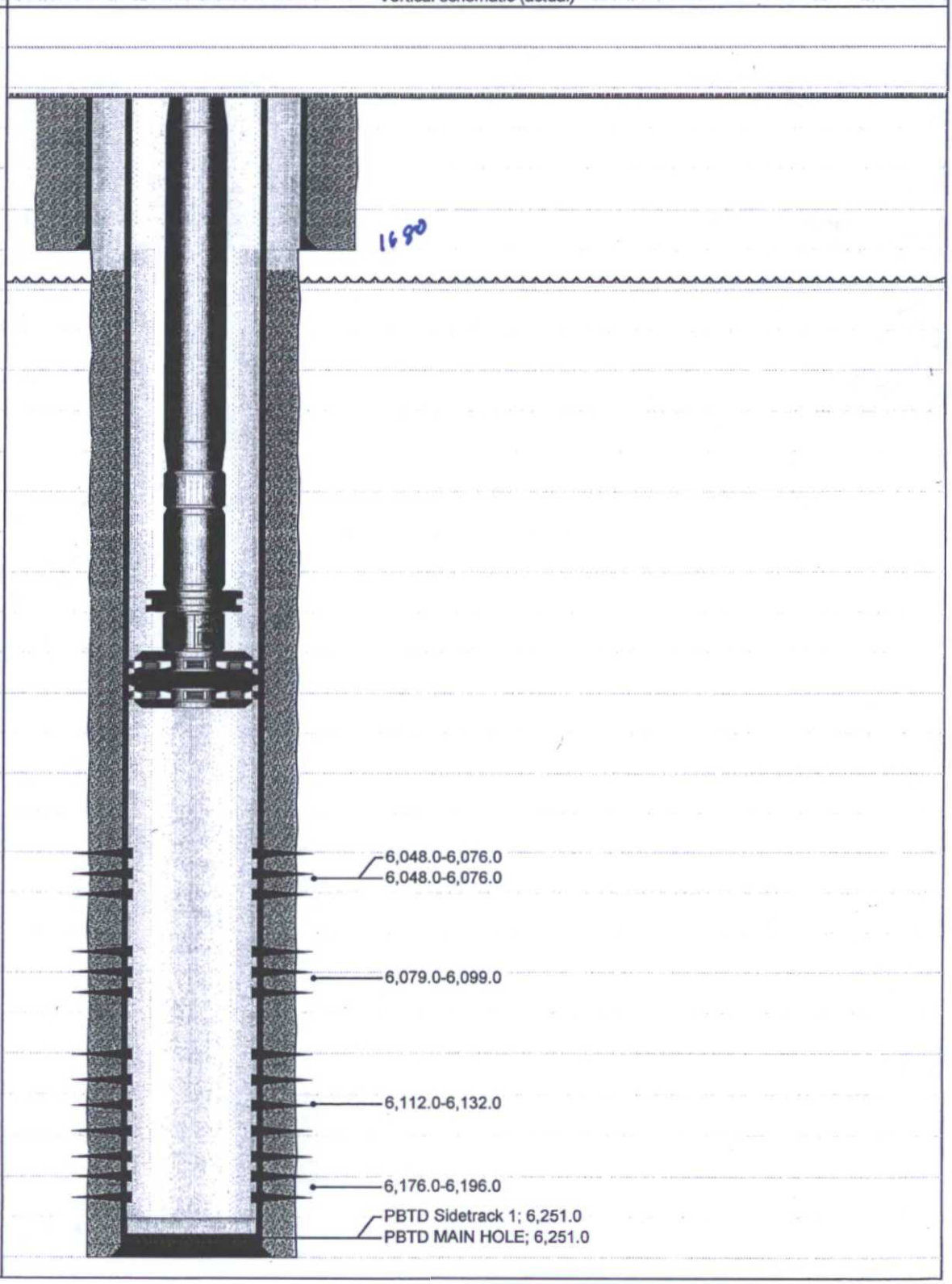
Schematic - Current

VACUUM GLORIETA EAST UNIT 017-02

Most Recent Job				
Jobs				
Job Category	**Primary Job Type**	**Secondary Job Type**	**Actual Start Date**	**End Date**
WELL INTERVENTION	ADD PAY		8/25/2015	9/9/2015

VERTICAL - MAIN HOLE, 11/24/2015 3:40:18 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
0.0		
10.8		
14.1		
29.9		
42.0		
1,571.9		
5,834.0		
5,904.9		
5,918.0		
5,921.9		
5,932.7		
5,942.9		
5,990.5		
6,004.3		
6,005.9		
6,006.9		
6,013.5		
6,023.9		
6,033.1		
6,040.0		
6,047.9		
6,076.1		
6,078.1		
6,085.0		
6,108.9		
6,111.9		
6,117.5		
6,128.0		
6,175.9		
6,223.1		
6,299.9		



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 019-33

Most Recent Job				
Jobs				
Job Category	**Primary Job Type**	**Secondary Job Type**	**Actual Start Date**	**End Date**
WELL INTERVENTION	DOWNHOLE DATA ACQUIS...		4/24/2013	4/24/2013

VERTICAL - Original Hole, 11/24/2015 3:40:52 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
13.5		
18.7		
62.3		
105.6		
808.7		
1,408.8		
1,477.4		
1,496.4		
1,536.4		
1,538.1		
1,550.9		
1,580.1		
2,694.9		
4,635.5		
5,025.3		
5,578.4		
5,770.7		
5,982.9		
5,989.2		
6,050.2		
6,054.1		
6,055.8		
6,062.3		
6,095.1		6,095.0-6,122.0
6,126.0		6,126.0-6,139.0
6,145.0		
6,198.2		
6,307.7		
6,343.5		
6,346.5		
6,378.6		
6,389.4		
6,423.9		

Report Printed: 11/24/2015

ConocoPhillips

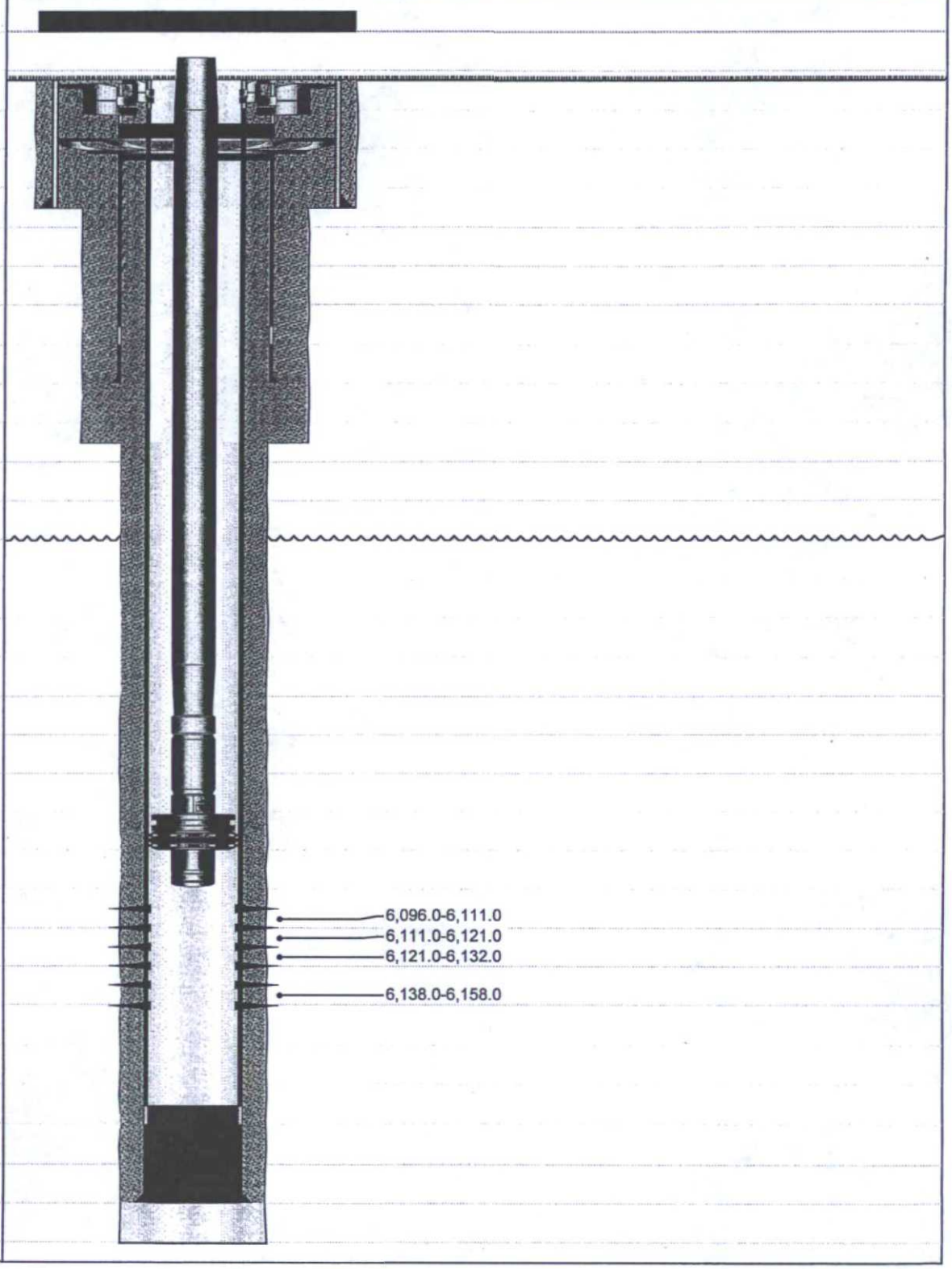
Schematic - Current

VACUUM GLORIETA EAST UNIT 019-34

Most Recent Job				
Jobs				
Job Category	**Primary Job Type**	**Secondary Job Type**	**Actual Start Date**	**End Date**
WELL INTERVENTION	DOWNHOLE DATA ACQUIS...		2/26/2014	2/26/2014

VERTICAL - Original Hole, 11/24/2015 3:41:27 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
0.0		
13.5		
15.4		
18.7		
59.4		
99.7		
873.7		
1,409.1		
1,484.6		
1,528.9		
1,544.0		
1,646.3		
1,673.2		
3,982.0		
4,065.9		
5,095.8		
5,822.2		
5,945.2		
5,982.3		
6,028.9		
6,047.9		
6,056.4		
6,061.0		
6,110.9		
6,131.9		
6,158.1		
6,304.5		
6,337.3		
6,356.3		
6,380.6		
6,397.0		
6,415.0		



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 025-02W

Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
TESTING	TEST-LOG-PROFILE		7/18/2011	7/20/2011

VERTICAL - MAIN HOLE, 11/24/2015 3:42:05 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
2.0		
9.8		
26.9		
1,798.9		
2,450.1		2,450.0-2,451.0
3,161.4		
3,970.1		
5,663.4		
5,763.5		
5,780.8		
5,867.5		
5,928.1		
5,952.4		
5,969.5		
5,998.0		
6,003.0		
6,023.9		
6,058.1		
6,063.0		
6,071.5		
6,086.9		6,080.0-6,138.0
6,121.4		6,080.0-6,158.0
6,126.0		
6,139.1		
6,150.9		
6,158.1		
6,169.0		
6,180.1		
6,193.9		
6,195.9		PBTD; 6,209.0
6,250.0		

Report Printed: 11/24/2015

ConocoPhillips

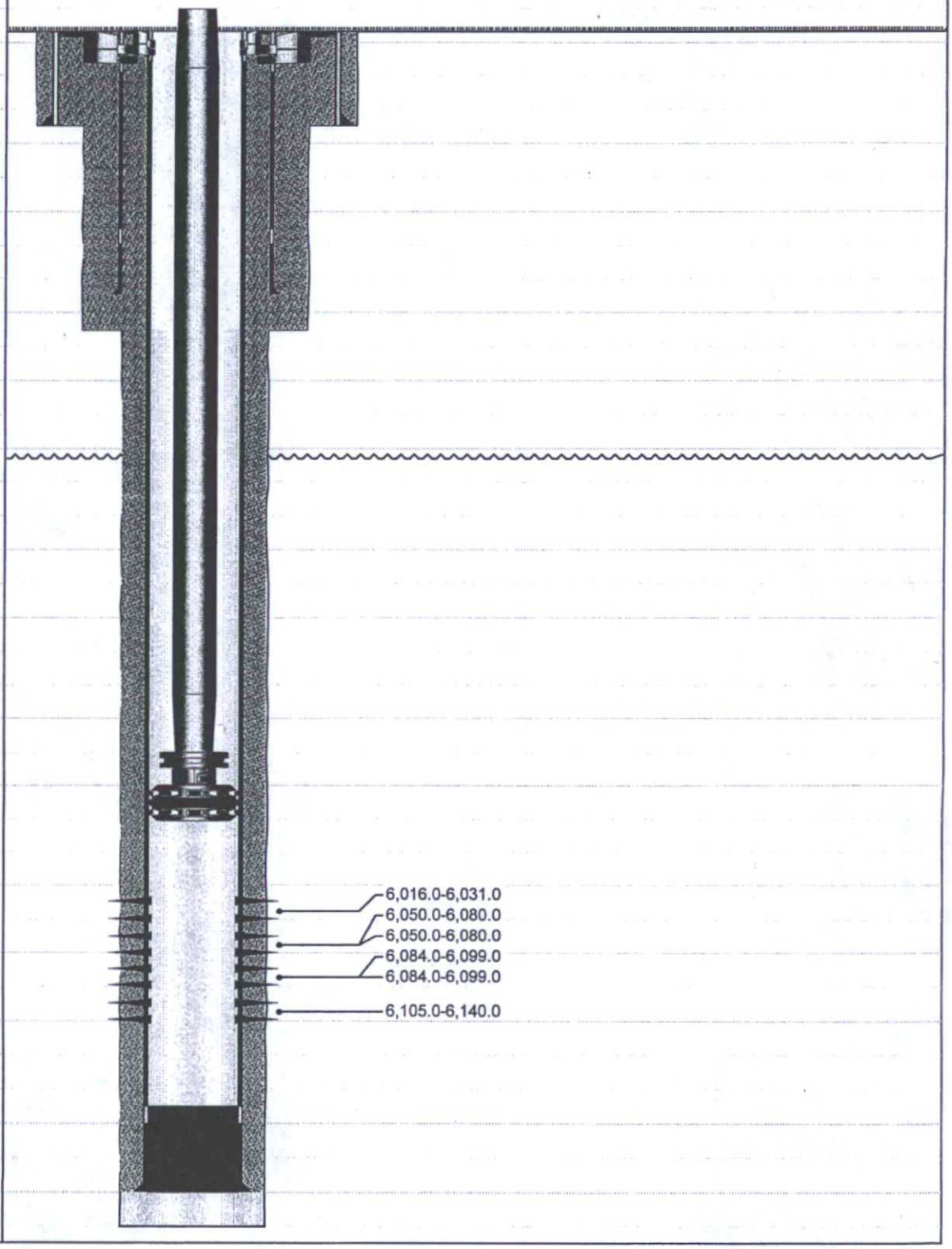
Schematic - Current

VACUUM GLORIETA EAST UNIT 025-32

Most Recent Job				
Jobs				
Job Category	**Primary Job Type**	**Secondary Job Type**	**Actual Start Date**	**End Date**
WELL INTERVENTION	ADD PAY		6/4/2015	6/16/2015

VERTICAL - Original Hole, 11/24/2015 3:43:12 PM

MD (ftKB)	Incl (°)	Vertical schematic (actual)
0.3		
13.8		
15.7		
61.4		
104.7		
795.9		
1,450.1		
1,530.2		
1,573.5		
1,585.6		
1,610.9		
1,637.8		
3,837.3		
3,943.2		
4,051.8		
4,723.8		
4,757.9		
4,792.3		
4,837.9		
4,979.0		
5,504.3		
5,904.2		
5,975.1		
5,976.7		
5,983.9		
5,989.2		
5,990.2		
6,030.8		
6,080.1		
6,099.1		
6,140.1		
6,290.7		
6,324.8		
6,336.3		
6,363.5		
6,379.6		
6,399.9		



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 037-03

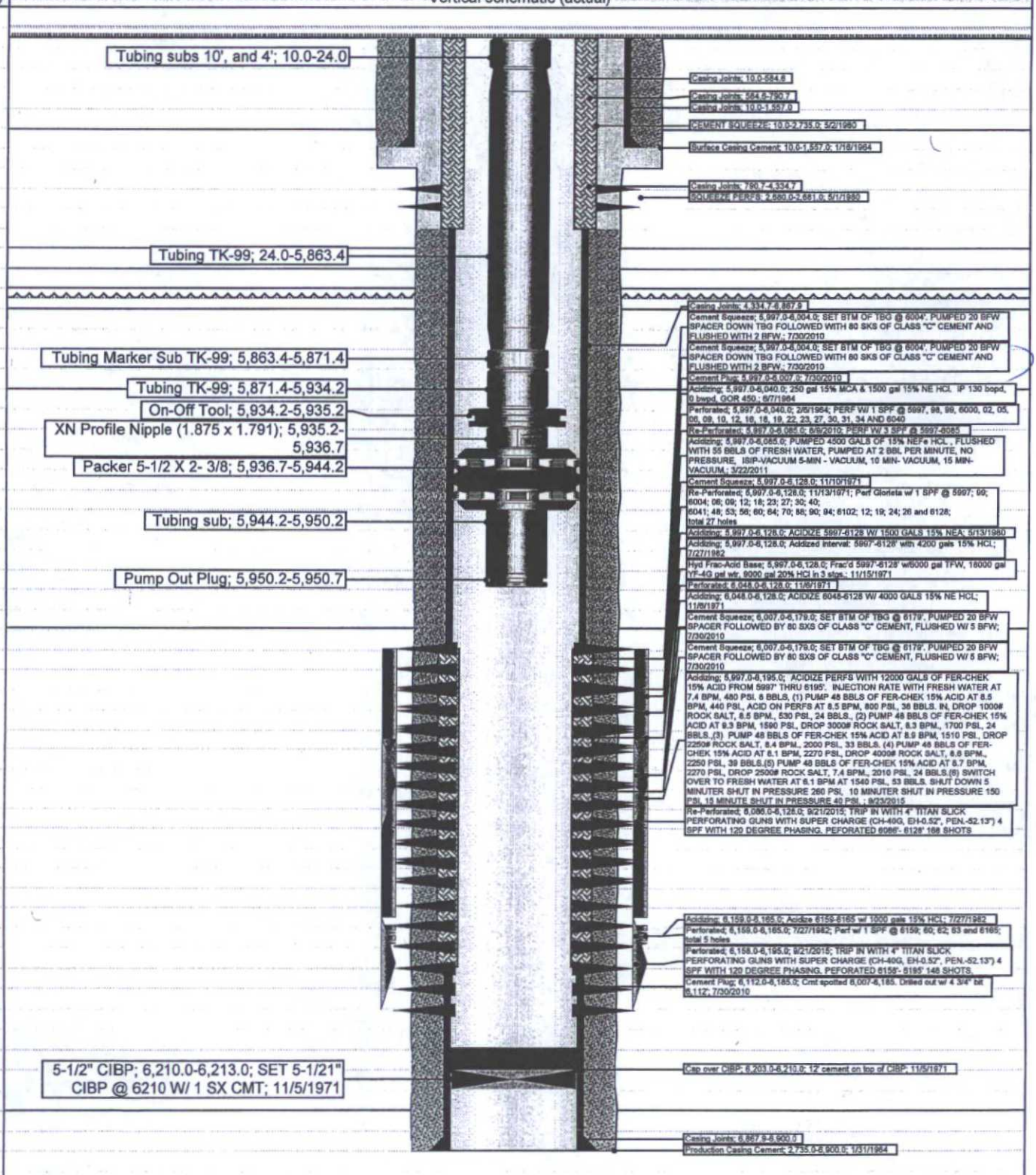
Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
WELL INTERVENTION	ADD PAY		9/14/2015	9/29/2015

VERTICAL - MAIN HOLE, 11/24/2015 3:46:01 PM

MD (ftKB) | Vertical schematic (actual)



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

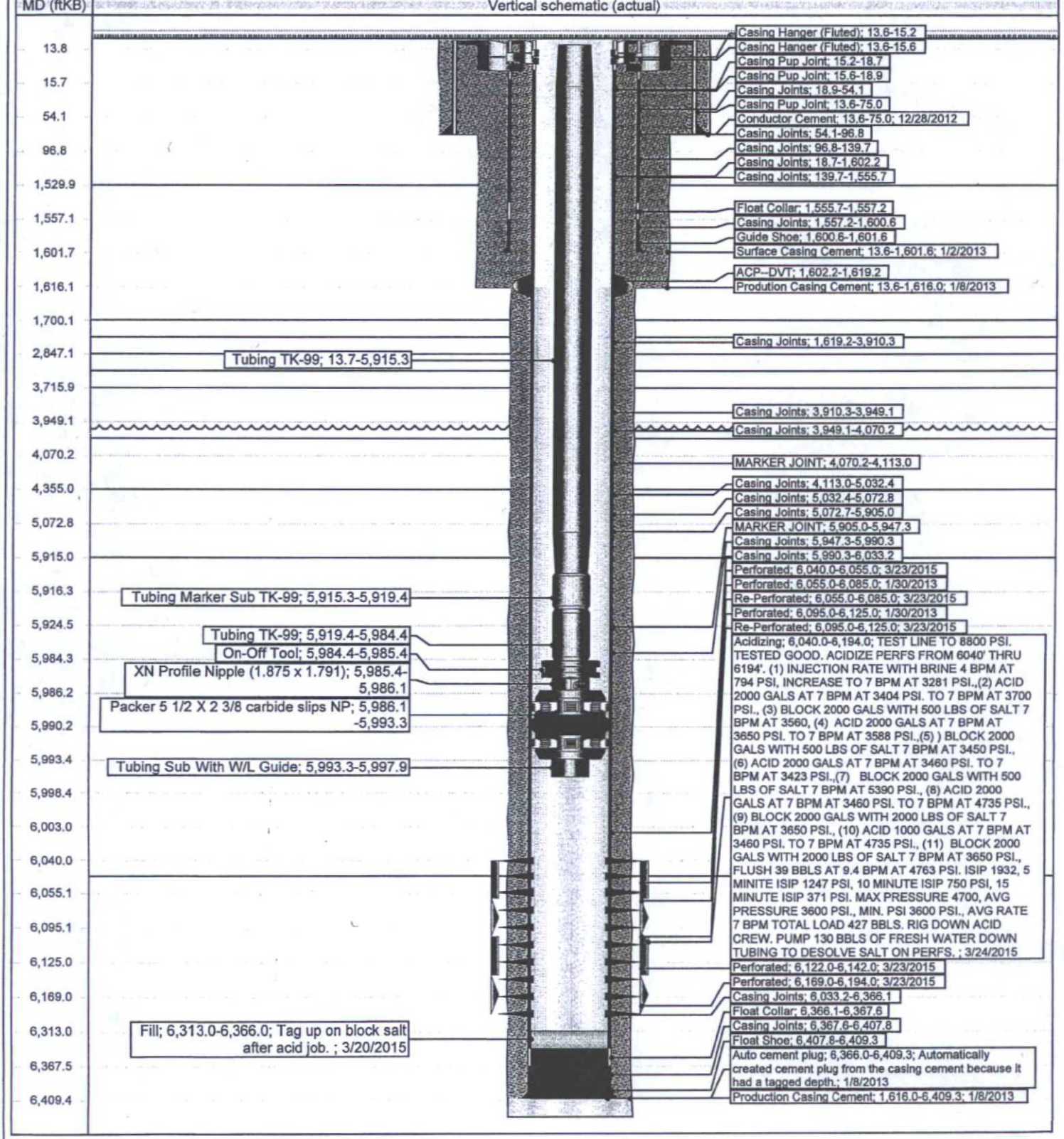
VACUUM GLORIETA EAST UNIT 037-31

Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
WELL INTERVENTION	ADD PAY		3/18/2015	3/27/2015

VERTICAL - Original Hole, 11/24/2015 3:47:15 PM



Report Printed: 11/24/2015

ConocoPhillips

Schematic - Current

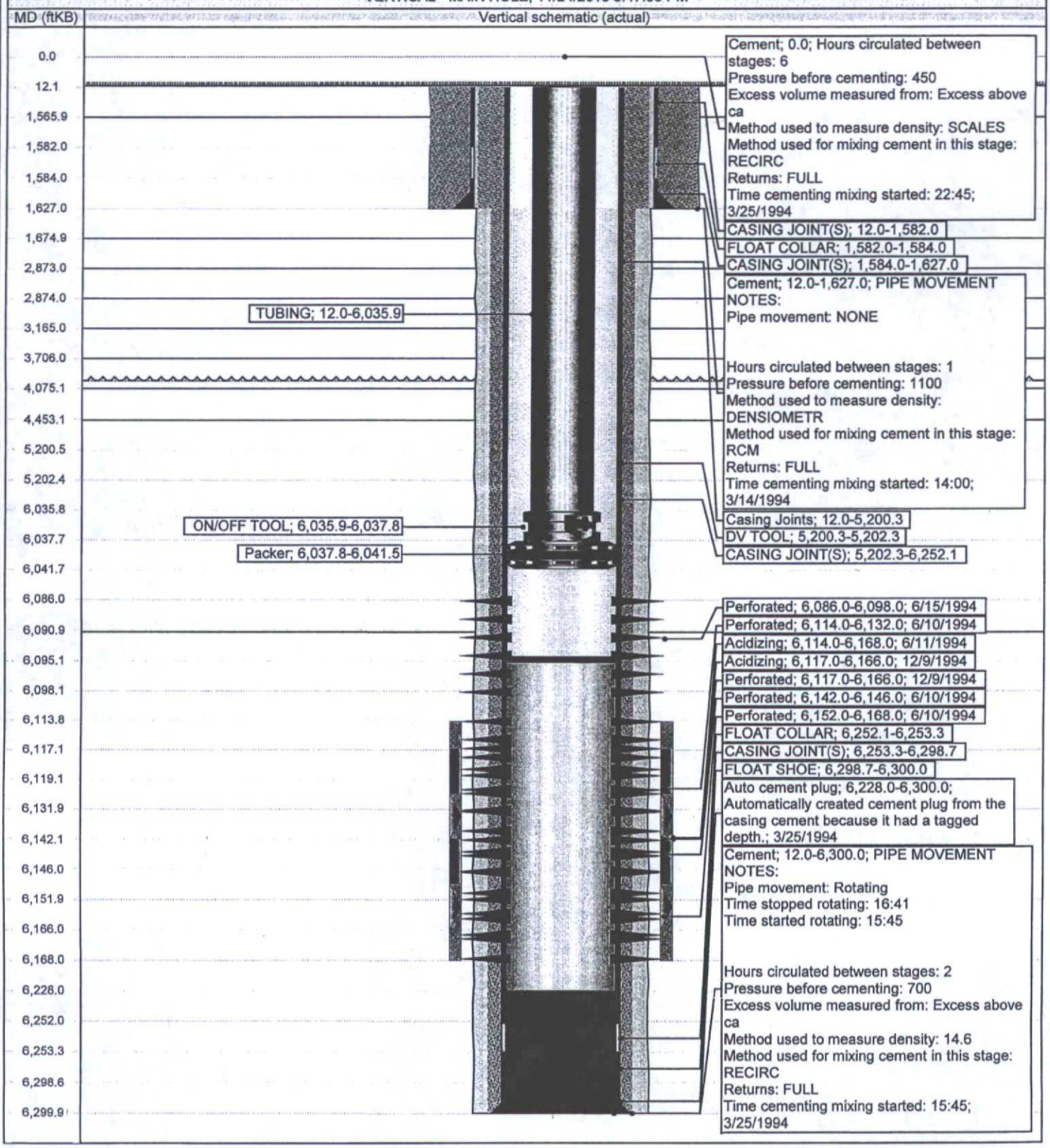
VACUUM GLORIETA EAST UNIT 038-03W

Most Recent Job

Jobs

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
TESTING	TEST-LOG-PROFILE		7/21/2011	8/2/2011

VERTICAL - MAIN HOLE, 11/24/2015 3:47:58 PM

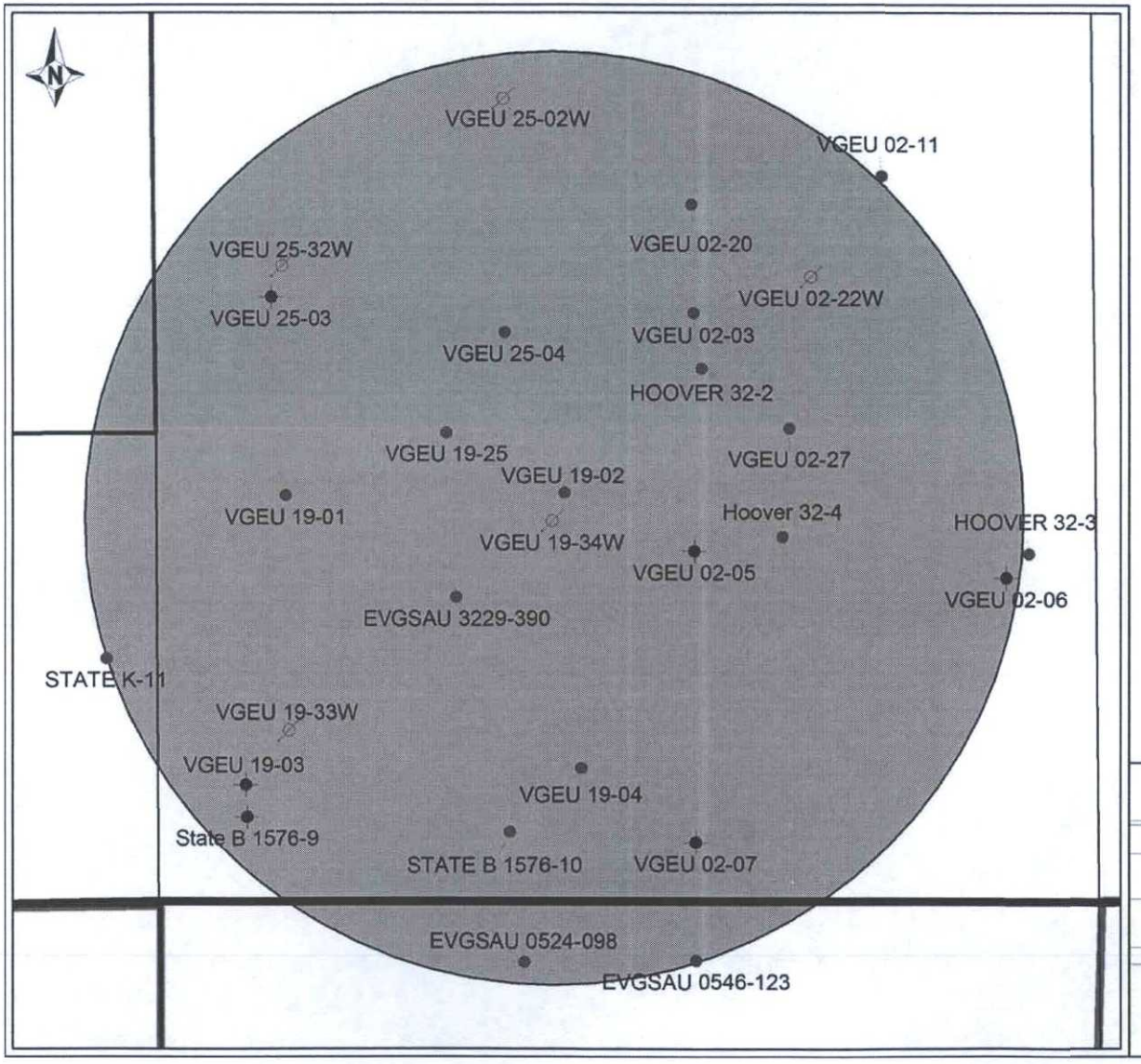


Report Printed: 11/24/2015

Attachment 2

Area of Review for VGEU 19-34 (API 30-025-40738)

Area of Review
as of 10-6-15



Wells Plugged after 2013 submittal:
VGEU 25-03
VGEU 19-03
VGEU 02-06

ConocoPhillips

Vacuum Glorieta East Unit 19-34

Lea County, New Mexico

0.5 Mile Radius Map

WELL SYMBOLS
Injection Well
Oil Well
Plugged and Abandoned

By: M. Trees - Geologist

0 500
FEET

Attachment 3

Tabulation of Well Data for VGEU 19-34 (API 30-025-40738)

Attachment 3
Tabulation of Well Data for VGEU 19-34
Updated October 2015

API / UWI	Legal WellName	Lease	Orig Spud Date	Measured Depth	Well Status	Surface Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref	Casing Description	Set Depth (ft KB)	String OD (in)	Operator	Prod/Inj Type	SKS CEMENT	CEMENT TOP	METHOD
3002538346	Vacuum Glorieta East Unit 00227	Vacuum Glorieta East Unit	4/30/2007	6326	Active	Sec. 32, T17S, R35E	2617	N	1725	E	Surface	1,596.00	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002538346	Vacuum Glorieta East Unit 00227	Vacuum Glorieta East Unit	4/30/2007	6326	Active	Sec. 32, T17S, R35E	2617	N	1725	E	Production	6,316.00	5 1/2	ConocoPhillips	Oil Production	1350	Surface	Circulated
300252084600	Vacuum Glorieta East Unit 01901	Vacuum Glorieta East Unit	8/14/1964	6200	Active	Sec. 32, T17S, R35E	2310	S	660	W	Surface	1550	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252084600	Vacuum Glorieta East Unit 01901	Vacuum Glorieta East Unit	8/14/1964	6200	Active	Sec. 32, T17S, R35E	2310	S	660	W	Production	6200	4 1/2	ConocoPhillips	Oil Production	1460	Unknown	Unknown
300252084500	Vacuum Glorieta East Unit 01902	Vacuum Glorieta East Unit	7/29/1964	6250	P&A	Sec. 32, T17S, R35E	2310	S	2310	W	Surface	1557	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252084500	Vacuum Glorieta East Unit 01902	Vacuum Glorieta East Unit	7/29/1964	6250	P&A	Sec. 32, T17S, R35E	2310	S	2310	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	1592	1605	Temp Survey
300252084700	Vacuum Glorieta East Unit 01903	Vacuum Glorieta East Unit	8/29/1964	6200	P&A	Sec. 32, T17S, R35E	660	S	500	W	Surface	1550	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252084700	Vacuum Glorieta East Unit 01903	Vacuum Glorieta East Unit	8/29/1964	6200	P&A	Sec. 32, T17S, R35E	660	S	500	W	Production	6200	4 1/2	ConocoPhillips	Oil Production	1532	Unknown	Unknown
300252084400	Vacuum Glorieta East Unit 01904	Vacuum Glorieta East Unit	7/10/1964	6250	Active	Sec. 32, T17S, R35E	760	S	2310	W	Surface	1590	8 5/8	ConocoPhillips	Oil Production	630	Surface	Circulated
300252084400	Vacuum Glorieta East Unit 01904	Vacuum Glorieta East Unit	7/10/1964	6250	Active	Sec. 32, T17S, R35E	760	S	2310	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	1320	Unknown	Unknown
3002538364	Vacuum Glorieta East Unit 01925	Vacuum Glorieta East Unit	5/31/2007	6310	Active	Sec.32, T17S, R35E	2634	N	1650	W	Surface	1,595.00	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002538364	Vacuum Glorieta East Unit 01925	Vacuum Glorieta East Unit	5/31/2007	6310	Active	Sec.32, T17S, R35E	2634	N	1650	W	Production	6,303.00	5 1/2	ConocoPhillips	Oil Production	1400	Surface	Circulated
300252088600	Vacuum Glorieta East Unit 02502	Vacuum Glorieta East Unit	8/24/1964	6250	Active	Sec. 32, T17S, R35E	760	N	1980	W	Surface	1598	8 5/8	ConocoPhillips	Oil Production	1050	Surface	Circulated
300252088600	Vacuum Glorieta East Unit 02502	Vacuum Glorieta East Unit	8/24/1964	6250	Active	Sec. 32, T17S, R35E	760	N	1980	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	870	2550	Temp Survey
300252088500	Vacuum Glorieta East Unit 02503	Vacuum Glorieta East Unit	7/8/1964	6266	P&A	Sec. 32, T17S, R35E	1880	N	660	W	Surface	1579	8 5/8	ConocoPhillips	Oil Production	1250	Surface	Circulated
300252088500	Vacuum Glorieta East Unit 02503	Vacuum Glorieta East Unit	7/8/1964	6266	P&A	Sec. 32, T17S, R35E	1880	N	660	W	Production	6264	4 1/2	ConocoPhillips	Oil Production	870	2500	Temp Survey
300252088400	Vacuum Glorieta East Unit 02504	Vacuum Glorieta East Unit	7/18/1964	6245	Active	Sec. 32, T17S, R35E	2080	N	1980	W	Surface	1644	8 5/8	ConocoPhillips	Oil Production	1250	Surface	Circulated
300252088400	Vacuum Glorieta East Unit 02504	Vacuum Glorieta East Unit	7/18/1964	6245	Active	Sec. 32, T17S, R35E	2080	N	1980	W	Production	6240	4 1/2	ConocoPhillips	Oil Production	870	2695	Temp Survey
	Total Number Wells within AOR	**26**																
	Total Number of P&A Wells	**4**																
	Total Number of TA Wells	**0**																

Attachment 3
Tabulation of Well Data for VGEU 19-34
Updated October 2015

API / UWI	Legal WellName	Lease	Orig Spud Date	Measured Depth	Well Status	Surface Location	N/S Dist (ft)	N/S Ref	E/W Dist (ft)	E/W Ref	Casing Description	Set Depth (ft KB)	String OD (in)	Operator	Prod/Inj Type	SKS CEMENT	CEMENT TOP	METHOD
3002533875	Hoover 32 03	Hoover 32	3/31/1997	8213	Active	Sec. 32, T17S, R35E	1950	S	380	E	Surface	1547	11 3/4	Chevron USA Inc	Oil Production	850	Surface	Circulated
3002533875	Hoover 32 03	Hoover 32	3/31/1997	8213	Active	Sec. 32, T17S, R35E	1950	S	380	E	Intermediate	3250	8 5/8	Chevron USA Inc	Oil Production	1000	Surface	Circulated
3002533875	Hoover 32 03	Hoover 32	3/31/1997	8213	Active	Sec. 32, T17S, R35E	1950	S	380	E	Production	8213	5 1/2	Chevron USA Inc	Oil Production	1250	4300	Estimated
3002540739	Vacuum Glorieta East Unit 19-033	Vacuum Glorieta East Unit	12/3/2012	6425	Active	Sec. 32, T17S, R35E	968	S	733	W	Surface	1537	8 5/8	ConocoPhillips	Injection	1060	Surface	Circulated
3002540739	Vacuum Glorieta East Unit 19-033	Vacuum Glorieta East Unit	12/3/2012	6425	Active	Sec. 32, T17S, R35E	968	S	733	W	Production	6391	5 1/2	ConocoPhillips	Injection	1470	Surface	Circulated
3002540738	Vacuum Glorieta East Unit 19-034	Vacuum Glorieta East Unit	12/14/2012	6415	Active	Sec. 32, T17S, R35E	2150	S	2233	W	Surface	1529	8 5/8	ConocoPhillips	Injection	900	Surface	Circulated
3002540738	Vacuum Glorieta East Unit 19-034	Vacuum Glorieta East Unit	12/14/2012	6415	Active	Sec. 32, T17S, R35E	2150	S	2233	W	Production	6397	5 1/2	ConocoPhillips	Injection	1850	Surface	Circulated
3002540737	Vacuum Glorieta East Unit 25-032	Vacuum Glorieta East Unit	12/22/2012	6400	Active	Sec. 32, T17S, R35E	1695	N	723	W	Surface	1574	8 5/8	ConocoPhillips	Injection	900	Surface	Circulated
3002540737	Vacuum Glorieta East Unit 25-032	Vacuum Glorieta East Unit	12/22/2012	6400	Active	Sec. 32, T17S, R35E	1695	N	723	W	Production	6380	5 1/2	ConocoPhillips	Injection	1770	Surface	Circulated
300252079200	East Vacuum GBSA Unit 0524098	EVGSAU	6/14/1964	6258	Active	Sec. 5, T18S, R35E	330	N	1980	W	Surface	1600	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252079200	East Vacuum GBSA Unit 0524098	EVGSAU	6/14/1964	6258	Active	Sec. 5, T18S, R35E	330	N	1980	W	Production	6255	4 1/2	ConocoPhillips	Oil Production	800	3000	Temp Survey
300252088700	East Vacuum GBSA Unit 0546123	EVGSAU	9/27/1964	6300	Active	Sec. 5, T18S, R35E	330	N	2310	E	Surface	1586	8 5/8	ConocoPhillips	Oil Production	1050	Surface	Circulated
300252088700	East Vacuum GBSA Unit 0546123	EVGSAU	9/27/1964	6300	Active	Sec. 5, T18S, R35E	330	N	2310	E	Production	6299	4 1/2	ConocoPhillips	Oil Production	870	2450	Temp Survey
300253254700	East Vacuum GBSA Unit 3229390	EVGSAU	6/27/1994	8150	Active	Sec. 32, T17S, R35E	1720	S	1700	W	Surface	1538	8 5/8	ConocoPhillips	Oil Production	760	Surface	Circulated
300253254700	East Vacuum GBSA Unit 3229390	EVGSAU	6/27/1994	8150	Active	Sec. 32, T17S, R35E	1720	S	1700	W	Production	8150	5 1/2	ConocoPhillips	Oil Production	1333	Surface	Circulated
300253382800	HOOVER 32 #002	HOOVER 32	3/7/1997	8200	Active	Sec. 32, T17S, R35E	2290	N	2205	E	Surface	1531	13 3/8	Chesapeake Operating	Oil Production	1225	Surface	Circulated
300253382800	HOOVER 32 #002	HOOVER 32	3/7/1997	8200	Active	Sec. 32, T17S, R35E	2290	N	2205	E	Intermediate	4806	8 5/8	Chesapeake Operating	Oil Production	1945	Unknown	Unknown
300253382800	HOOVER 32 #002	HOOVER 32	3/7/1997	8200	Active	Sec. 32, T17S, R35E	2290	N	2205	E	Production	8200	5 1/2	Chesapeake Operating	Oil Production	1050	Unknown	Unknown
300253384300	HOOVER 32 #004	HOOVER 32	4/24/1997	8204	Active	Sec. 32, T17S, R35E	2060	S	1760	E	Surface	1554	11 3/4	Chesapeake Operating	Oil Production	916	Surface	Circulated & 1"
300253384300	HOOVER 32 #004	HOOVER 32	4/24/1997	8204	Active	Sec. 32, T17S, R35E	2060	S	1760	E	Intermediate	3195	8 5/8	Chesapeake Operating	Oil Production	1000	Surface	Circulated
300253384300	HOOVER 32 #004	HOOVER 32	4/24/1997	8204	Active	Sec. 32, T17S, R35E	2060	S	1760	E	Production	8203	5 1/2	Chesapeake Operating	Oil Production	1730	3175	Temp Survey
300253251500	STATE B 1576 #009	STATE B 1576	5/23/1994	8150	P&A	Sec. 32, T17S, R35E	500	S	418	W	Surface	1522	8 5/8	BP America Prod. Co.	Oil Production	760	Surface	Circulated
300253251500	STATE B 1576 #009	STATE B 1576	5/23/1994	8150	P&A	Sec. 32, T17S, R35E	500	S	418	W	Production	8150	5 1/2	BP America Prod. Co.	Oil Production	1270	Surface	Circulated
300253251600	STATE B 1576 #010	STATE B 1576	6/10/1994	8150	Active	Sec. 32, T17S, R35E	402	S	1905	W	Surface	1532	8 5/8	BP America Prod. Co.	Oil Production	760	Surface	Circulated
300253251600	STATE B 1576 #010	STATE B 1576	6/10/1994	8150	Active	Sec. 32, T17S, R35E	402	S	1905	W	Production	8150	5 1/2	BP America Prod. Co.	Oil Production	1300	Surface	Circulated
300253243900	STATE K #011	STATE K	2/28/1994	8107	Active	Sec. 31, T17S, R35E	1400	S	360	E	Surface	1486	8 5/8	XTO Energy	Oil Production	450	Unknown	Unknown
300253243900	STATE K #011	STATE K	2/28/1994	8107	Active	Sec. 31, T17S, R35E	1400	S	360	E	Production	8107	5 1/2	XTO Energy	Oil Production	800	Unknown	Unknown
300252071600	Vacuum Glorieta East Unit 00203	Vacuum Glorieta East Unit	5/28/1964	6210	Active	Sec. 32 ,T17S, R35E	1980	N	2306	E	Surface	1557	8 5/8	ConocoPhillips	Oil Production	750	Surface	Circulated
300252071600	Vacuum Glorieta East Unit 00203	Vacuum Glorieta East Unit	5/28/1964	6210	Active	Sec. 32 ,T17S, R35E	1980	N	2306	E	Production	6210	4 1/2	ConocoPhillips	Oil Production	900	2613	Temp Survey
300252071300	Vacuum Glorieta East Unit 00205	Vacuum Glorieta East Unit	4/16/1964	6210	P&A	Sec. 32, T17S, R35E	1980	S	2307	E	Surface	1558	8 5/8	ConocoPhillips	Oil Production	825	Surface	Circulated
300252071300	Vacuum Glorieta East Unit 00205	Vacuum Glorieta East Unit	4/16/1964	6210	P&A	Sec. 32, T17S, R35E	1980	S	2307	E	Production	6210	4 1/2	ConocoPhillips	Oil Production	900	2600	Temp Survey
300252070900	Vacuum Glorieta East Unit 00206	Vacuum Glorieta East Unit	3/5/1964	6463	P&A	Sec. 32, T17S, R32E	1830	S	510	E	Surface	1523	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
300252070900	Vacuum Glorieta East Unit 00206	Vacuum Glorieta East Unit	3/5/1964	6463	P&A	Sec. 32, T17S, R32E	1830	S	510	E	Production	6445	4 1/2	ConocoPhillips	Oil Production	1060	2600	Temp Survey
300252071100	Vacuum Glorieta East Unit 00207	Vacuum Glorieta East Unit	4/1/1964	6205	P&A	Sec. 32, T17S, R35E	330	S	2308	E	Surface	1523	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
300252071100	Vacuum Glorieta East Unit 00207	Vacuum Glorieta East Unit	4/1/1964	6205	P&A	Sec. 32, T17S, R35E	330	S	2308	E	Production	6205	4 1/2	ConocoPhillips	Oil Production	900	2713	Temp Survey
3002537850	Vacuum Glorieta East Unit 00220	Vacuum Glorieta East Unit	3/19/2007	6350	Active	Sec. 32, T17S, R35E	1353	N	2260	E	Surface	1,635.00	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
3002537850	Vacuum Glorieta East Unit 00220	Vacuum Glorieta East Unit	3/19/2007	6350	Active	Sec. 32, T17S, R35E	1353	N	2260	E	Production	6,345.00	5 1/2	ConocoPhillips	Oil Production	1500	Surface	Circulated
3002537852	Vacuum Glorieta East Unit 00222	Vacuum Glorieta East Unit	4/2/2007	6350	Active	Sec. 32, T17S, R35E	1765	N	1585	E	Surface	1,606.00	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
3002537852	Vacuum Glorieta East Unit 00222	Vacuum Glorieta East Unit	4/2/2007	6350	Active	Sec. 32, T17S, R35E	1765	N	1585	E	Production	6,339.00	5 1/2	ConocoPhillips	Oil Production	1650	Surface	Circulated

Attachment 4

Well Schematics for Recently Plugged Wells

MCBU Wellsite Schematic

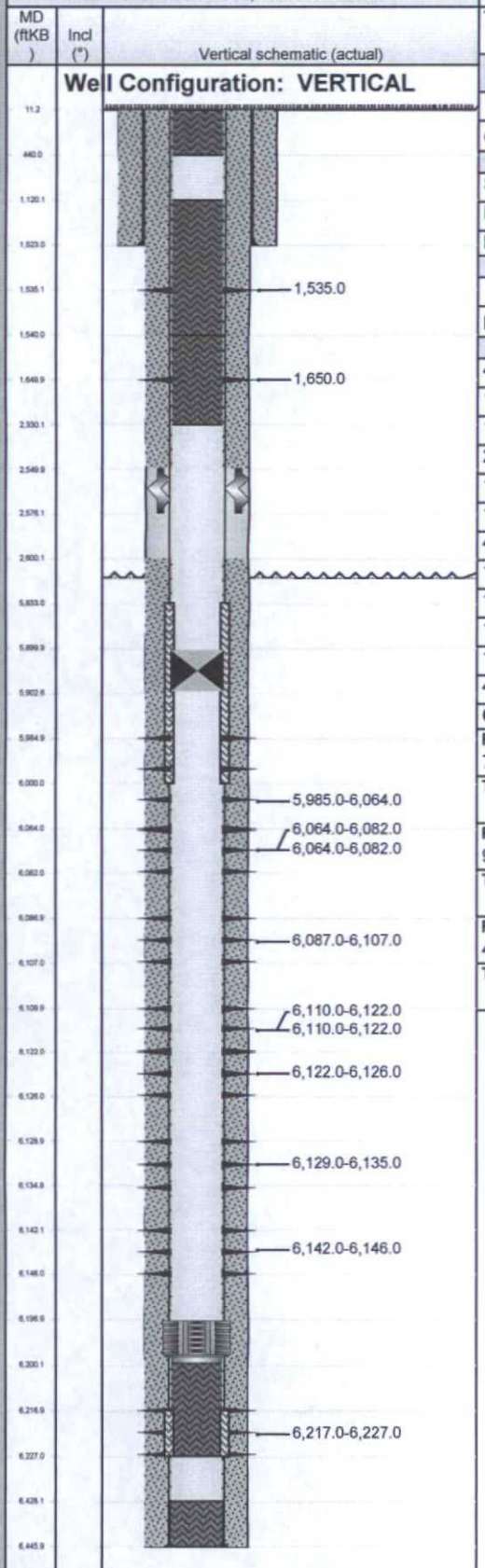
ConocoPhillips

VACUUM GLORIETA EAST UNIT 002-06

API / UWI	Surface Legal Location	Field Name	License No.	Well Configuration Type
300252070900	Section 32, T-17S, R-35E	VACUUM		VERTICAL

Ground Elevation (ft)	Orig KB/RT (ft)	KB-Grd (ft)	KB-CF (ft)	KB-TF (ft)	Other Elevation Label	Other Elevation (ft)
3,953.00	3,964.00	11.00	3,964.00	3,964.00		

VERTICAL - MAIN HOLE, 10/6/2015 1:06:13 PM



WELLHEADS

Type	Install Date

Des	Make	Model	MAOP (psi)	Top Ring Gasket	Bore Min (in)

CASING STRINGS

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Surface	8 5/8	24.00	J-55		1,523.0
Production	4 1/2	9.50	J-55	ST&C	6,446.0

PBTDs

Depth (ftKB)	KO MD (ftKB)	TD (max) (ftKB)

PERFORATIONS

Date	Top (ftKB)	Btm (ftKB)	Zone	Current Status
4/5/2011	1,535.0	1,535.0		
10/20/1982	1,650.0	1,650.0		Plugged
12/20/1988	5,985.0	6,064.0	GLORIETA, MAIN HOLE	Plugged
2/14/1970	6,064.0	6,082.0	GLORIETA, MAIN HOLE	Plugged
12/20/1988	6,064.0	6,082.0	GLORIETA, MAIN HOLE	Plugged
12/20/1988	6,087.0	6,107.0	GLORIETA, MAIN HOLE	Plugged
4/7/1964	6,110.0	6,122.0	PADDOCK, MAIN HOLE	Plugged
12/20/1988	6,110.0	6,122.0	GLORIETA, MAIN HOLE	Plugged
12/20/1988	6,122.0	6,126.0	GLORIETA, MAIN HOLE	Plugged
12/20/1988	6,129.0	6,135.0	GLORIETA, MAIN HOLE	Plugged
12/20/1988	6,142.0	6,146.0	GLORIETA, MAIN HOLE	Plugged
4/1/1964	6,217.0	6,227.0	PADDOCK, MAIN HOLE	Squeezed (6,217.0 - 6,227.0)

OTHER IN HOLE

Run Date	Description	OD (in)	ID (in)
7/1/2004	CIBP	4.09	
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
5,900.0	5,902.5		
Run Date	**Description**	**OD (in)**	**ID (in)**
9/28/2009	CI Retainer	4 1/2	
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
6,197.0	6,200.0		
Run Date	**Description**	**OD (in)**	**ID (in)**
4/1/2011	PARTED CASING	4 1/2	4.100
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
2,550.0	2,576.0		

Report Printed: 10/6/2015

ConocoPhillips

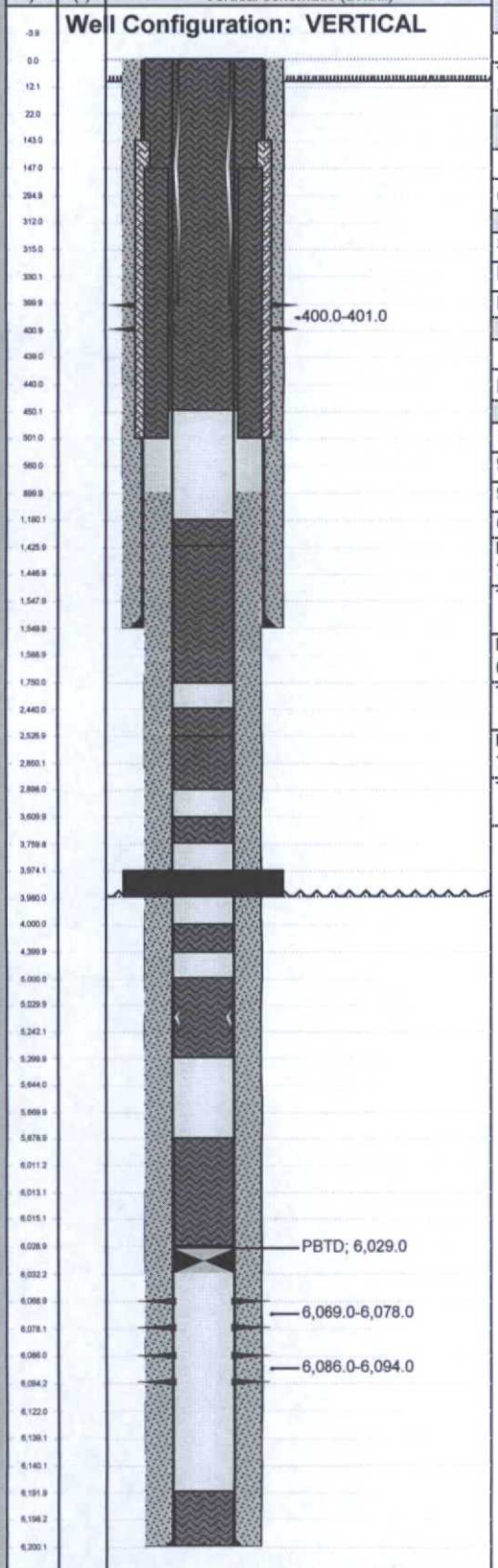
MCBU Wellsite Schematic

VACUUM GLORIETA EAST UNIT 019-03

API / UWI	Surface Legal Location	Field Name	License No.	Well Configuration Type
300252084700	Sec. 32, T-17S, R-35E	VACUUM		VERTICAL

Ground Elevation (ft)	Orig KB/RT (ft)	KB-Grd (ft)	KB-CF (ft)	KB-TF (ft)	Other Elevation Label	Other Elevation (ft)
3,970.00	3,980.00	10.00	3,980.00	3,980.00		

VERTICAL - MAIN HOLE, 10/6/2015 1:04:57 PM



WELLHEADS

Type	Install Date
CASING HEAD	5/27/2010

Des	Make	Model	MAOP (psi)	Top Ring Gasket	Bore Min (in)

Type	Install Date
PRODUCTION CSG HEAD	5/27/2010

Des	Make	Model	MAOP (psi)	Top Ring Gasket	Bore Min (in)

CASING STRINGS

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Surface	8 5/8	24.00	J-55		1,550.0
Production	4 1/2	9.50	J-55		6,200.0

PBTDs

Depth (ftKB)	KO MD (ftKB)	TD (max) (ftKB)
6,029.0		6,200.0

PERFORATIONS

Date	Top (ftKB)	Btm (ftKB)	Zone	Current Status
10/22/2004	400.0	401.0		
9/17/1964	6,069.0	6,078.0		
9/17/1964	6,086.0	6,094.0		

OTHER IN HOLE

Run Date	Description	OD (in)	ID (in)
7/6/2010	Retrievable Bridge Plug	4	0.000
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
6,029.0	6,032.0	Unknown	Unknown
Run Date	**Description**	**OD (in)**	**ID (in)**
6/16/2011	CASING LEAK	4	3.000
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
0.0	400.0	N/A	N/A
Run Date	**Description**	**OD (in)**	**ID (in)**
7/7/2011	CASING LEAK	4	3.000
Top Depth (ftKB)	**Bottom Depth (ftKB)**	**Make**	**Model**
5,030.0	5,242.0	N/A	N/A

Report Printed: 10/6/2015

ConocoPhillips

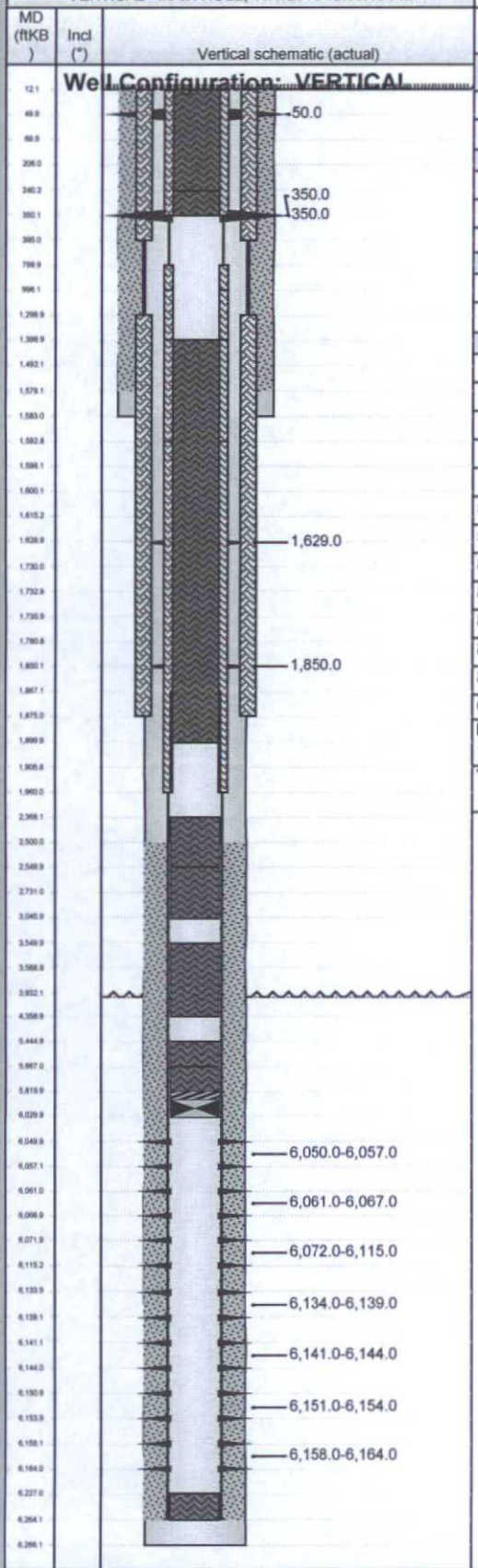
MCBU Wellsite Schematic

VACUUM GLORIETA EAST UNIT 025-03

API / UWI	Surface Legal Location	Field Name	License No.	Well Configuration Type
300252088500	Section 32, T-17S, R-35E	VACUUM		VERTICAL

Ground Elevation (ft)	Orig KB/RT (ft)	KB-Grd (ft)	KB-CF (ft)	KB-TF (ft)	Other Elevation Label	Other Elevation (ft)
3,967.00	3,979.00	12.00	3,979.00	3,979.00		

VERTICAL - MAIN HOLE, 10/6/2015 12:58:15 PM



WELLHEADS

Type	Install Date

Des	Make	Model	MAOP (psi)	Top Ring Gasket	Bore Min (in)

CASING STRINGS

Csg Des	OD (in)	Wt/Len (lb/ft)	Grade	Top Thread	Set Depth (ftKB)
Surface	8 5/8	32.00	J-55		1,579.0
Production1	4 1/2	9.50	J-55		6,264.0

PBTDs

Depth (ftKB)	KO MD (ftKB)	TD (max) (ftKB)

PERFORATIONS

Date	Top (ftKB)	Btm (ftKB)	Zone	Current Status
12/4/2003	50.0	50.0		Squeezed (1,850.0 - 1,851.0)
12/4/2003	350.0	350.0		Squeezed (1,850.0 - 1,851.0)
5/13/2013	350.0	350.0		
12/4/2003	1,629.0	1,629.0		Squeezed (1,850.0 - 1,851.0)
12/3/2003	1,850.0	1,850.0		Squeezed (1,850.0 - 1,851.0)
5/12/1965	6,050.0	6,057.0		Open - Flowing (6,050.0 - 6,05...
5/12/1965	6,061.0	6,067.0		Open - Flowing (6,061.0 - 6,06...
8/26/1964	6,072.0	6,115.0		Proposed Squeezed
8/2/1967	6,134.0	6,139.0		Proposed Squeezed
8/2/1967	6,141.0	6,144.0		Proposed Squeezed
8/2/1967	6,151.0	6,154.0		Proposed Squeezed
8/2/1967	6,158.0	6,164.0		Proposed Squeezed

OTHER IN HOLE

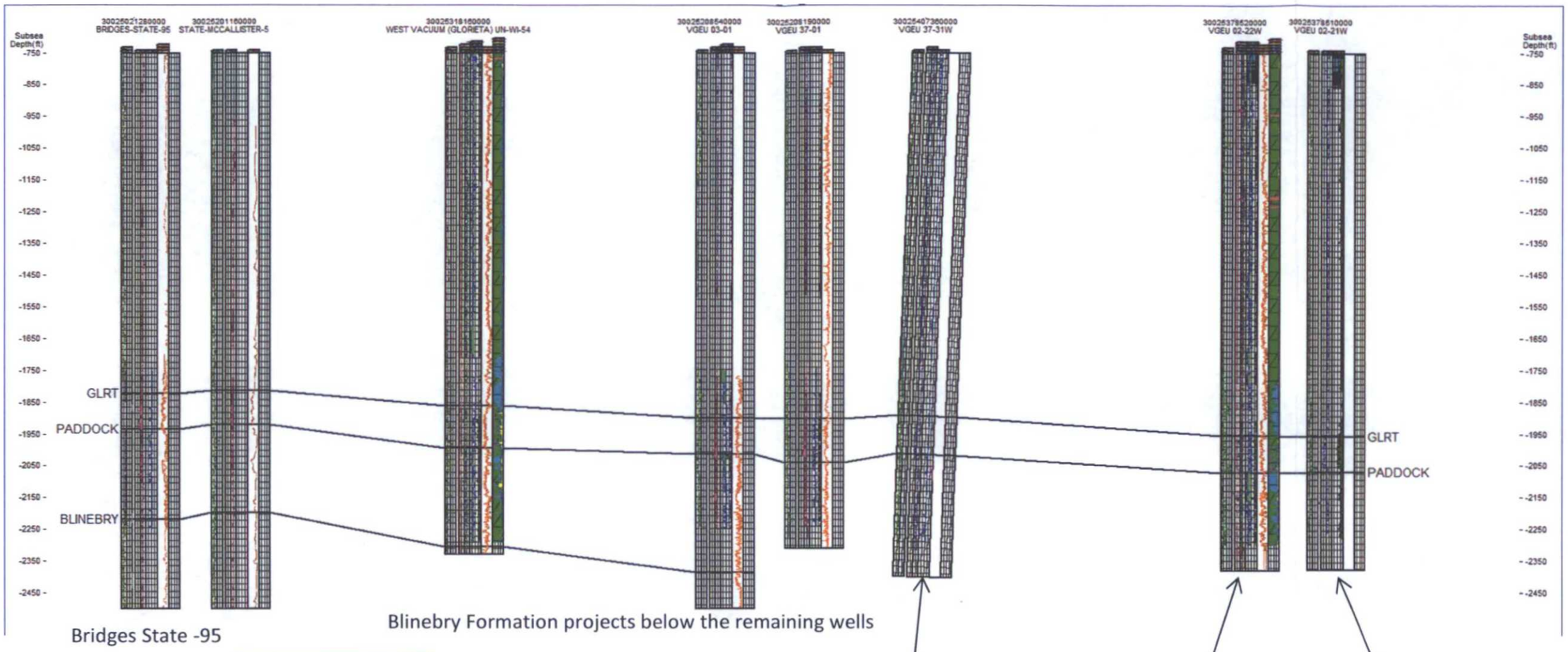
Run Date	Description	OD (in)	ID (in)
1/26/2001	Bridge Plug w/Cement...	4	

Top Depth (ftKB)	Bottom Depth (ftKB)	Make	Model
5,820.0	6,030.0		

Report Printed: 10/6/2015

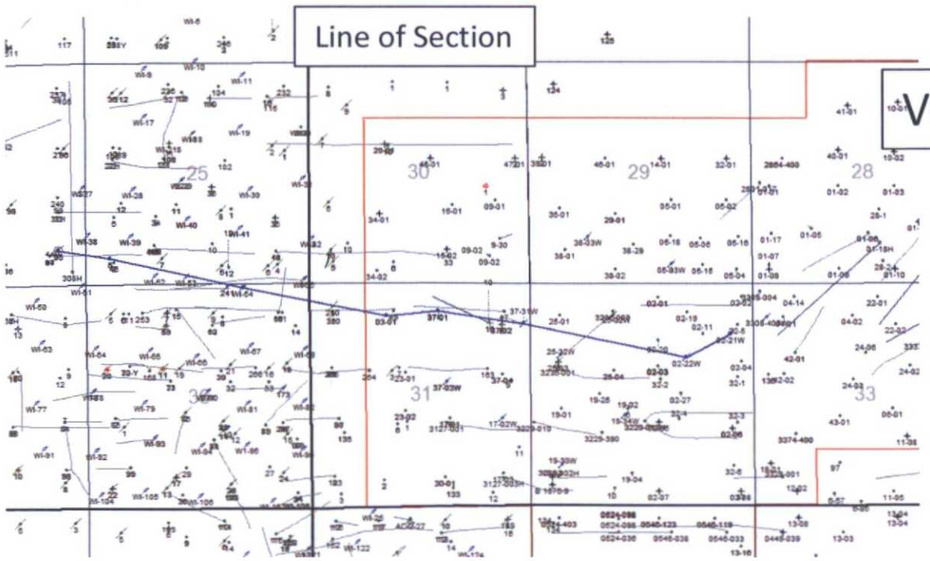
Attachment 5

Requested Geologic Data



Bridges State -95

Blinebry Formation projects below the remaining wells

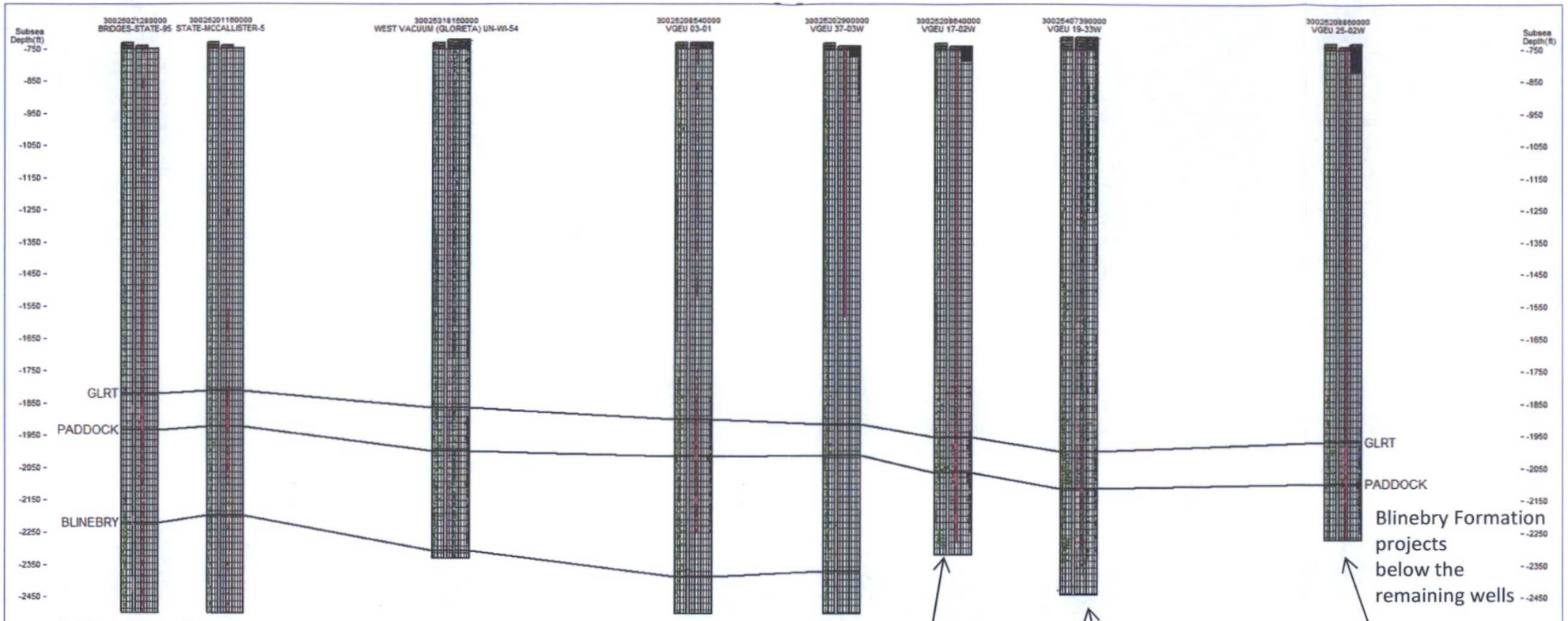


VGEU 37-31W

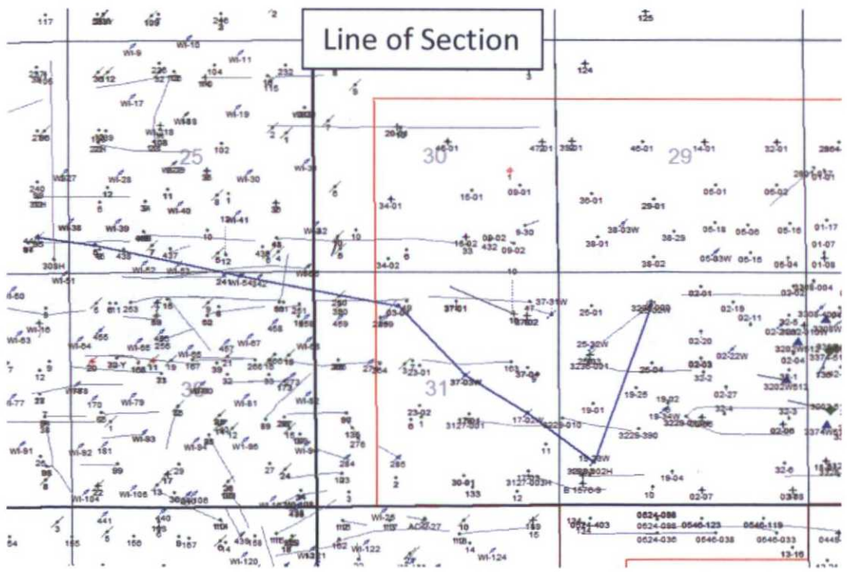
VGEU 02-22W | VGEU 02-21W

Vacuum Glorieta East Unit Boundary

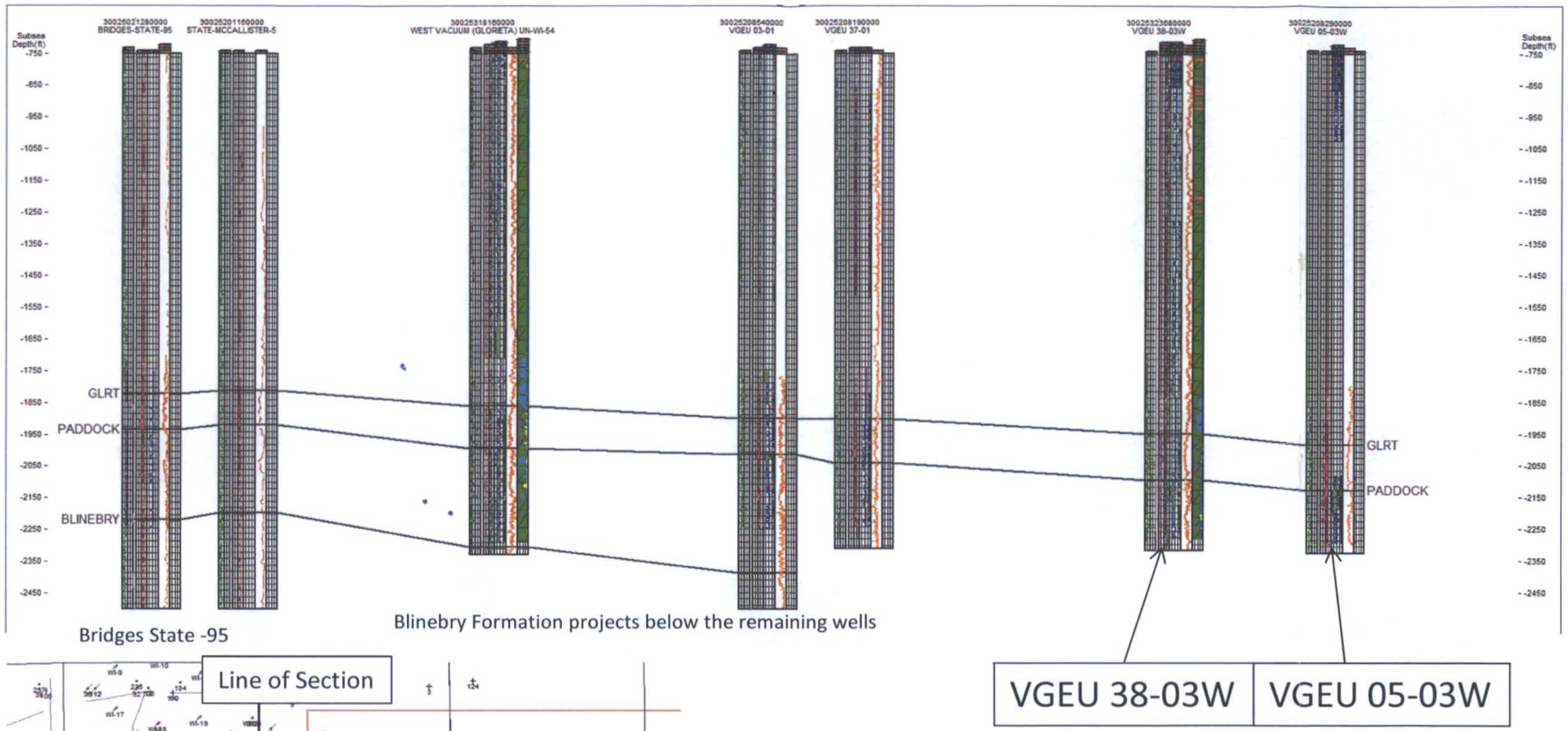
VGEU - "Unitized Formation" is defined as that stratigraphic interval underlying the Unit Area found between the top of the Glorieta Formation and the base of the Paddock Formation. The top of the Glorieta formation is defined as all points underlying the Unit Area correlative to the depth of 5,838 feet and the base of the Paddock Formation is defined as all points underlying the Unit Area correlative to the depth of 6,235 feet (Blinebry), both depths as identified on the Schlumberger Sonic Log for the Socony Mobil Bridges State Well No. 95, located in the SE/4 SE/4 (Unit P) of Section 26, T17S, R34E, NMPM, Lea County, New Mexico.



Bridges State -95

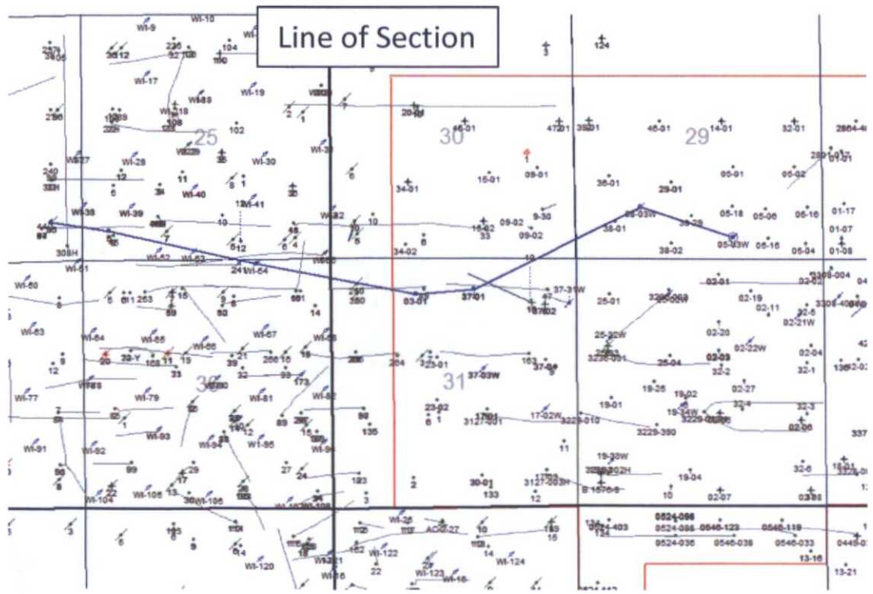


Vacuum Glorieta East Unit Boundary

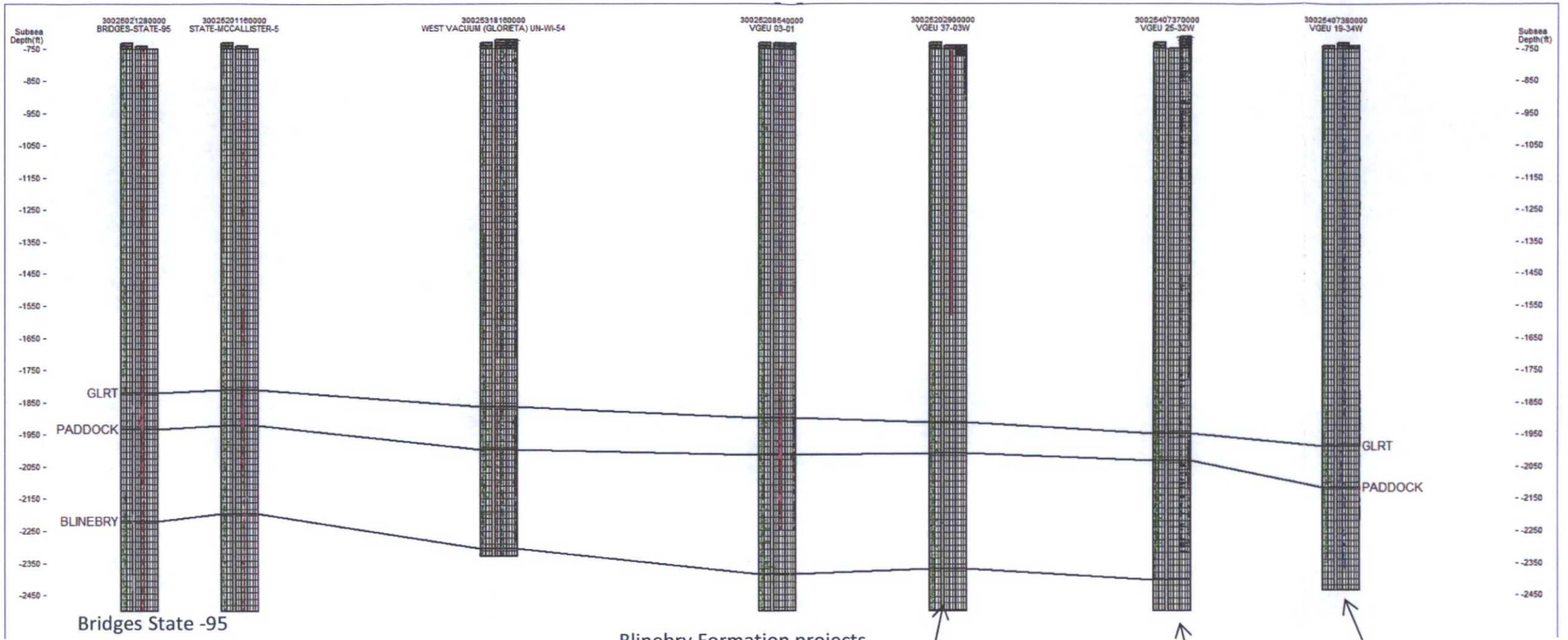


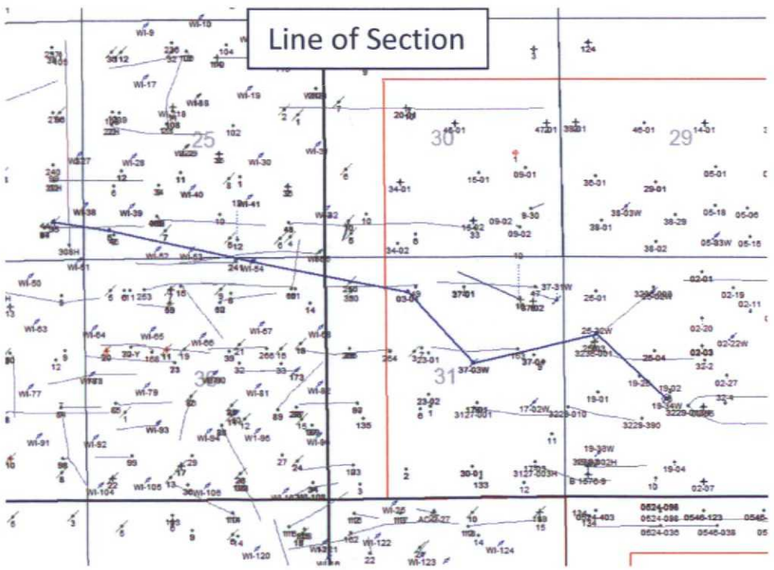
Bridges State -95

Blinebry Formation projects below the remaining wells



Vacuum Glorieta East Unit Boundary





Vacuum Glorieta East Unit Boundary

Attachment 6

Proof of Notice Documentation

Affidavit of Publication

STATE OF NEW MEXICO
COUNTY OF LEA

I, Todd Bailey, Editor of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, solemnly swear that the clipping attached hereto was published in the regular and entire issue of said newspaper, and not a supplement thereof for a period of 1 issue(s).

Beginning with the issue dated
October 08, 2015
and ending with the issue dated
October 08, 2015.

Editor

Sworn and subscribed to before me this
8th day of October 2015.

Business Manager

My commission expires
January 29, 2019
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-19

This newspaper is duly qualified to publish legal notices or advertisements within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said

LEGAL NOTICE
October 8, 2015

ConocoPhillips Company, 600 N. Dairy Ashford Road, P10-3-3096; Houston, TX 77079, Contact: Susan B. Maunder (281) 206-5281 is seeking administrative approval from the New Mexico Oil Conservation Division to expand the interval authorized to inject produced water into wells in the Vacuum Glorieta East Unit (VGEU), in the Vacuum; Glorieta Pool. The enhanced recovery authorization is R-10020-B.

The wells are all located in Township 17S, Range 35E, Lea County, NM:

VGEU #02-21, Sec. 32, 1200' FNL and 525' FEL, injection interval 5923 – 6415' MD;

VGEU #02-22, Sec. 32, 1765' FNL and 1585' FEL, injection interval 5924 – 6413' MD;

VGEU #05-03, Sec. 29, 460' FSL and 1980' FEL, injection interval 5959 – 6441' MD;

VGEU #17-02, Sec. 31, 2080' FSL and 660' FEL, injection interval 5936 – 6389' MD;

VGEU #19-33, Sec. 32, 968' FSL and 733' FWL, injection interval 5980 – 6395' MD;

VGEU #19-34, Sec. 32, 2150' FSL and 2233' FWL, injection interval 5965 – 6398' MD;

VGEU #25-02; Sec. 32, 760' FNL and 1980' FWL, injection interval 5945 – 6413' MD;

VGEU #25-32, Sec. 32, 1695' FNL and 723' FWL, injection interval 5926 – 6405' MD;

VGEU #37-03; Sec. 31, 2310' FNL and 1980' FEL, injection interval 5898 – 6351' MD;

VGEU #37-31, Sec. 31, 969' FNL and 153' FEL, injection interval 5918 – 6394' MD; and

VGEU #38-003, Sec. 29, 1130' FSL and 1405' FEL, injection interval 5930 – 6407' MD

The maximum injection rate will be about 3000 barrels of produced water per day. Maximum injection pressure will be 1200 psi at the surface for the wells mentioned above. Interested parties must file objections or request for hearing with the New Mexico Oil Conservation Division, 1220 South Saint Francis Drive; Santa Fe, New Mexico 87504 within 15 days of this notice.
#30386

67111011

00164367

SUSAN MAUNDER
CONOCOPHILLIPS (HOUSTON)
600 N. DAIRY ASHFORD ROAD
ATTN: P10-4-4054
HOUSTON, TX 77079

ConocoPhillips

ConocoPhillips Company
600 North Dairy Ashford
Houston, TX 77079-1175

October 26, 2015

VIA CERTIFIED RETURN RECEIPT

ATTACHED LIST OF INTERESTED PARTIES

SUBJECT: APPLICATION TO AMEND EXISTING INJECTION APPROVAL TO INCLUDE THE FULL UNITIZED INTERVAL FOR VACUUM GLORIETA EAST UNIT WELLS

REF: ORDER R-10020-B

Dear Sir or Madam:

ConocoPhillips Company is seeking administrative approval from the New Mexico Oil Conservation Division to amend an existing injection authorization (R-10020-B). Our proposal is to inject produced water into the full unitized interval through existing wells in the unit mentioned above. You are receiving this package because you have been identified as having, past or current, interest in acreage near the vicinity of our proposed activity.

The wells are located in Sections 29, 31 and 32, Township 17S, Range 35E, Lea County, NM.

According to Rule 701C the State of New Mexico, Oil Conservation Division, Engineering Bureau (1220 South St. Francis Drive, Santa Fe, NM 87505) can make a decision on our application after 15 days, if no objection is received.

If you have any questions regarding the enclosed application, I can be reached at the address above, phone number (281) 206-5281, or email Susan.B.Maunder@conocophillips.com.

Sincerely,

Susan B. Maunder

Susan B. Maunder
Senior Regulatory Specialist

Enclosures

NOTIFICATION LIST

Prepared 10/14/2015 by Cody Travers, Senior Landman

Offset Operators and Working Interest Owners

Mary Leonard Children's Trust
ATTN: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders & JIBs:
P. O. Box 2605 / TX1-1315
Fort Worth, TX 76113

Miranda Leonard Revocable Trust
ATTN: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders & JIBs:
P. O. Box 2605 / TX1-1315
Fort Worth, TX 76113

Martha Leonard Revocable Trust
ATTN: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders & JIBs:
P. O. Box 2605 / TX1-1315
Fort Worth, TX 76113

OBO Inc
C/O Lowell S. Dunn II
PO Box 22577
Hialeah, FL 33002-2577

ZPZ Delaware LLC
ATTN: Michelle Hanson
C/O Apache Corporation
303 Veterans Airpark Lane, STE 3000
Midland, TX 79705-4561

Betelgeuse Production
P. O. Box 1937
Frederickburg, TX 78624

Mary D. Fleming Walsh
ATTN: Gary F. Goble
500 West Seventh ST., STE 1007
Fort Worth, TX 76102

John R. Bryant
C/O John Thomas Bryant POA
P. O. Box 655
Addison, TX 75001

Stovall Energy LTD
P. O. Box 10
Graham, TX 76450

McRae Management Trust
P. O. Box 5401
Midland, TX 79704

Boyd Laughlin Management Trust
ATTN: Nicholas C. Taylor Succ. Trustee
214 W. Texas Ave, STE 1101
Midland, TX 79701-4600

Patricia Penrose Schieffer Test. TR.
ATTN: Bank of America, N.A., Agent
P. O. Box 2546
Fort Worth, TX 76113

Bright Hawk Burkard Venture
C/O Frost National Bank FAO
P. O. Box 79790
Houston, TX 77279-9790

Marathon Oil Company
Attn: Western US Land Supervisor
5555 San Felipe Street 34:03
Houston, TX 77056

Nancy Payne Stacks
1303 Lakeshore DR
Marble Falls, TX 78654

Magnum Hunter Production Inc
C/O Cimarex Energy
Attn: Outside Operated
202 S Cheyenne Ave Ste 1000
Tulsa, OK 74103-3001

Madelon L Bradshaw
2120 Ridgmar Blvd Suite 12
Fort Worth, TX 76116

XTO Energy
ATTN: Permian Land
810 Houston Street
Fort Worth, TX 76102

C.W. Seely
815 W 10th Street
Fort Worth, TX 76102

Davoil Inc.
PO Box 122269
Fort Worth, TX 76121-2269

AYCO Energy LLC
Suite 103
2909 Hillcraft Ave
Houston, TX 77057

Belva Dorcas Little
PO Box 279
Cross Plains, TX 76443

Rachel Kathleen Williams
2797 E Washington St
Stephenville, TX 76401

Cross Timbers Energy LLC
ATTN: Justin Neeley
400 W 7th ST
Fort Worth, TX 76102-4701

MCBee Operating Company LLC
ATTN: Deborah Draughon
4301 Westside Drive Suite 200
Dallas, TX 75209

Slash Exploration Limited Partnership
ATTN: Robert G. Armstrong
P. O. Box 1973
Roswell, NM 88202-1973

OXY USA WTP Limited Partnership
C/O Occidental Permian LTD.
5 Greenway Plaza, Suite 110
Houston, TX 77046

The Josephine Laughlin Living Trust
Josephine Laughlin Trustee
13505 McCall Ct NE
Albuquerque, NM 87123-1468

S.B.Street & Company
PO Box 206
Graham, TX 76450

Development Oil & Gas
PO Box 55809
Jackson, MS 39296-5809

Larry O Hulsey & Company
PO Box 1143
Graham, TX 76450

SW Holdings Inc
DBA Great Western Drilling Company
PO Box 1659
Midland, TX 79702

ELK Oil Company
C/O Joseph J. Kelly
P. O. Box 310
Roswell, NM 88202-0310

Ann McBee Buell
11241 Russwood Cir
Dallas, TX 75229-4326

W. D. McBee Enterprises LTD
P. O. Box 12864
Dallas, TX 75225-0864

Pear Resources
ATTN: Alan Byars
P. O. Box 11044
Midland, TX 79702-8044

David Evans
COG Operating LLC
600 West Illinois Avenue
Midland, Texas 79701

Surface Owner

State of New Mexico
Commissioner of Public Lands
P.O. Box 1148
Santa Fe, NM 87504-1148

Goetze, Phillip, EMNRD

From: Maunder, Susan B <Susan.B.Maunder@conocophillips.com>
Sent: Monday, November 23, 2015 10:19 AM
To: Goetze, Phillip, EMNRD
Subject: VGEU Injection Authorization Application 10-22-15
Attachments: first 11 pg of rec't cards.pdf; last 2 pg of rec't cards.pdf

Mr. Goetze,
Good morning or afternoon. Hopefully you're ready for the holiday. I'm attaching the returned receipts received thus far on the subject application. The majority of recipients received the package by early November. However, one recipient acknowledged the package on November 10th. I suspect our waiting period starts from that date.

We have not received cards back on a few, but our Land group explained that they have difficulty reaching those organizations., nor have we received the mailing back.

Our production and operations staff are anxious to complete work on these wells this year while there is still funding. We would appreciate your authorization to proceed soon.

Thank you for your time spent reviewing this request.

Susan B. Maunder
Senior Coordinator, Regulatory – MCBU
ConocoPhillips Company Lower 48
T: 281.206.5281 C: 432.269.4378 E: Susan.B.Maunder@conocophillips.com

CDG
Received courtesy
copy based on verbal
agreement in 2013
resulting from reauthorization
action.

They have not returned
the receipt.

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

State of New Mexico
State Land Office
Commission of Public Land
P.O. Box 1148
Santa Fe, NM 87504-1148

9590 9401 0003 5166 8510 28

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7481

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X

☐ Agent
☐ Addressee

B. Received by *(Printed Name)*

C. Date of Delivery
1103

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Stovall Energy LTD
P. O. Box 10
Graham, TX 76450

9590 9401 0003 5166 8510 42

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 6361

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Lila Clarke ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* LILA CLARKE C. Date of Delivery 10/30/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mary Leonard Children's Trust
Attn: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders and JIBs
P.O. Box 2605/ TX1-1315
Fort Worth, TX 76113

9590 9401 0003 5166 8510 35

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 6378

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X Robert Boley ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Robert Boley C. Date of Delivery OCT 29 2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

Agent

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Miranda Leonard Revocable Trust
Attn: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders and JIBs
P.O. Box 2605/ TX1-1315
Fort Worth, TX 76113

9590 9401 0003 5166 8510 59

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 6354

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* Robert Boley C. Date of Delivery OCT 29 2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

Agent

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Martha Leonard Revocable Trust
Attn: JPMorgan Chase Bank, N.A.
Correspondence, Division Orders and JIBs
P.O. Box 2605/ TX1-1315
Fort Worth, TX 76113

9590 9401 0003 5166 8510 80

2. Article Number (Transfer from service label)
7015 0640 0003 9546 6347

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Robert A. Roley ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery
OCT 2 9 2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

McRae Management Trust
P.O. Box 5401
Midland, TX 79704

9590 9401 0003 5166 8510 73

2. Article Number (Transfer from service label)
7015 0640 0003 9546 6330

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Cheryl Lindsey ☐ Agent ☐ Addressee

B. Received by (Printed Name) C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

OBO Inc.
c/o Lowell S. Dunn II
P.O. Box 22577
Hialeah, FL 33002-2577

9590 9401 0003 5166 8511 34

7015 0640 0003 9546 7221

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) [illegible] C. Date of Delivery 11/4/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☑ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Patricia Penrose Schieffer Test. TR.
Attn: Bank of America, N.A., Agent
P.O. Box 2546
Fort Worth, TX 76113

9590 9401 0003 5166 8510 97

2. Article Number (Transfer from service label)
7015 0640 0003 9546 6316

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) Gina Monday C. Date of Delivery 11 2 2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☑ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Bright Hawk Burkard Venture
c/o Frost National Bank FAO
P.O. Box 79790
Houston, TX 77279-9790

9590 9401 0003 5166 8511 03

2. Article Number (Transfer from service label)
7015 0640 0003 9546 6309

COMPLETE THIS SECTION ON DELIVERY

Signature
x [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) J. CARROLL C. Date of Delivery 11-10-2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Marathon Oil Company
Attn: Western US Land Supervisor
5555 San Felipe Street 34:03
Houston, TX 77056

9590 9401 0003 5166 8511 10

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7207

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) D Cuellar | C. Date of Delivery 11/2/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

ZPZ Delaware LLC
Attn: Michelle Hanson
c/o Apache Corporation
303 Veterans Airpark Lane, Suite 3000
Midland, TX 79705-4561

9590 9401 0003 5166 8511 41

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7238

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Robert Fora ☒ Agent ☐ Addressee

B. Received by (Printed Name) R-Fora | C. Date of Delivery 10-30-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Mary D. Fleming Walsh
Attn: Gary F Goble
500 West Seventh Street, Suite 1007
Fort Worth, TX 76102

9590 9401 0003 5166 8511 65

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 7252

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X C. Bailey ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

C BAILEY 10/29

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Via: Regular Mail
Nancy Payne Stacks
1303 Lakeshore Dr.
Marble Falls, TX 78654

9590 9401 0003 5166 8511 27

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 7214

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery

10-29-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Rece

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Magnum Hunter Production Inc.
c/o Cimarex Energy
Attn: Outside Operated
202 South Cheyenne Ave, Suite 1000
Tulsa, OK 74103-3001

9590 9401 0003 5166 8511 72

2. Article Number *(Transfer from service label)*

7015 0640 0003 9546 7269

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature

☐ Agent ☐ Addressee

B. Received by *(Printed Name)* JUSTIN WALLACE C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type

- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Madelon L Bradshaw
2120 Ridgmar Blvd, Suite 12
Fort Worth, TX 76116

9590 9401 0003 5166 8508 23

2. Article Number (Transfer from service label)

7015 0640 0003 9546 7283

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature X Terri Littlefield ☐ Agent ☐ Addressee

B. Received by (Printed Name) Terri Littlefield

C. Date of Delivery 10/29/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

John R. Bryant
c/o John Thomas Bryant POA
P.O. Box 655
Addison, TX 75001

9590 9401 0003 5166 8508 16

2. Article Number

7015 [

PS Form 381

COMPLETE THIS SECTION ON DELIVERY

A. Signature X Jane Ayers ☐ Agent ☐ Addressee

B. Received by (Printed Name) Jane Ayers

C. Date of Delivery 10/30/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for
...ation™
...ation
...y

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

XTO Energy
Attn: Permian Land
810 Houston Street
Fort Worth, TX 76102

9590 9401 0003 5166 8508 30

2. Article Number (Transfer from service label)

7015 0640 0003 9546 7290

PS Form 3811, April 2015 PSN 7530-02-000-9053

COMPLETE THIS SECTION ON DELIVERY

A. Signature X Jeanni' Cox ☐ Agent ☐ Addressee

B. Received by (Printed Name)

C. Date of Delivery OCT 29 2015

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

C.W. Seely
815 West 10th Street
Fort Worth, TX 76102

9590 9401 0003 5166 8508 54

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7313

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery
10/29/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Via: Regular Mail
The Josephine Laughlin Living Trust
Terri Laughlin McCaslin, Trustee
13505 McCall Ct. NE
Albuquerque, NM 87123

9590 9401 0003 5166 8508 47

2. Article Number (Transfer from service label)
7015 0640 0003 9546 730[illegible]

COMPLETE THIS SECTION ON DELIVERY

A. Signature
[signature] ☐ Agent ☒ Addressee

B. Received by (Printed Name) TERRI McCaslin | C. Date of Delivery 11/2/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

S.B. Street & Company
P.O. Box 206
Graham, TX 76450

9590 9401 0003 5166 8508 61

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7320

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) M Bryant | C. Date of Delivery 10/29/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☐ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Development Oil & Gas
P.O. Box 55809
Jackson, MS 39296-5809

9590 9401 0003 5166 8508 85

7015 0640 0003 9546 7344

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) WITHERS | C. Date of Delivery 10-30-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

$0.50

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

AYCO Energy LLC
Suite 103
2909 Hillcraft Ave
Houston, TX 77057

9590 9401 0003 5166 8508 92

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7351

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) | C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Belva Dorcas Little
P.O. Box 279
Cross Plains, TX 76443

9590 9401 0003 5166 8509 15

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7375

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X B. Little ☐ Agent ☒ Addressee

B. Received by (Printed Name) B. LITTLE
C. Date of Delivery 10/29/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Larry O Hulsey & Company
P.O. Box 1143
Graham, TX 76450

9590 9401 0003 5166 8509 08

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7368

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Larry O. Hulsey ☐ Agent ☐ Addressee

B. Received by (Printed Name)
C. Date of Delivery 10/30/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

SW Holdings Inc.
DBA Great Western Drilling Company
P.O. Box 1659
Midland, TX 79702

9590 9401 0003 5166 8509 22

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7382

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Eric Rucker ☐ Agent ☐ Addressee

B. Received by (Printed Name) Eric Rucker
C. Date of Delivery 11-3-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

Elk Oil Company
c/o Joseph J. Kelly
P.O. Box 310
Roswell, NM 88202-0310

9590 9401 0003 5166 8509 46

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7405

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Julie G. Baxley ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* JULIE G. BAXLEY C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

ROSWELL, NM OCT 31 2015 88201

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Rachel Kathleen Williams
2797 E Washington Street
Stephenville, TX 76401

9590 9401 0003 5166 8509 39

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7399

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X Rachel Williams ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* RACHEL WILLIAMS C. Date of Delivery 10/29/15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Cross Timbers Energy LLC
Attn: Justin Neeley
400 West 7th Street
Fort Worth, TX 76102-4701

9590 9401 0003 5166 8509 53

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7412

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* C. Date of Delivery 10-29-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☐ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

McBee Operating Company LLC
Attn: Deborah Draughon
4301 Westside Drive, Suite 200
Dallas, TX 75205

9590 9401 0003 5166 8509 60

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7429

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x Shirl Horm ☒ Agent ☐ Addressee

B. Received by *(Printed Name)* SHIRL HORM
C. Date of Delivery 11-2-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☒ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Ann McBee Buell
11241 Russwood Cir
Dallas, TX 75229-4326

9590 9401 0003 5166 8509 77

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7436

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x A. Buell ☐ Agent ☐ Addressee

B. Received by *(Printed Name)* A. Buell
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

USPS NORTHAVEN STATION DALLAS OCT 29 2015

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

W.D. McBee Enterprises LTD
P.O. Box 12864
Dallas, TX 75225-0864

9590 9401 0003 5166 8509 84

2. Article Number *(Transfer from service label)*
7015 0640 0003 9546 7443

COMPLETE THIS SECTION ON DELIVERY

A. Signature
x ☐ Agent ☐ Addressee

B. Received by *(Printed Name)*
C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
- ☐ Adult Signature
- ☐ Adult Signature Restricted Delivery
- ☒ Certified Mail®
- ☐ Certified Mail Restricted Delivery
- ☐ Collect on Delivery
- ☐ Collect on Delivery Restricted Delivery
- ☐ Insured Mail
- ☐ Insured Mail Restricted Delivery (over $500)
- ☐ Priority Mail Express®
- ☐ Registered Mail™
- ☐ Registered Mail Restricted Delivery
- ☒ Return Receipt for Merchandise
- ☐ Signature Confirmation™
- ☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Pear Resources
Attn: Alan Byars
P.O. Box 11044
Midland, TX 79702-8044

9590 9401 0003 5166 8509 91

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7450

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☑ Agent ☐ Addressee

B. Received by (Printed Name) JO ANN JACKSON C. Date of Delivery 11-3-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

Slash Exploration Limited Partnership
Attn: Robert G. Armstrong
P.O. Box 1973
Roswell, NM 88202-1973

9590 9401 0003 5166 8510 11

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7474

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) MARVA MAHAN C. Date of Delivery

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

SENDER: *COMPLETE THIS SECTION*

- Complete items 1, 2, and 3.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

OXY USA WTP Limited Partnership
c/o Occidental Permian LTD
5 Greenway Plaza, Suite 110
Houston, TX 77046

9590 9401 0003 5166 8510 04

2. Article Number (Transfer from service label)
7015 0640 0003 9546 7467

COMPLETE THIS SECTION ON DELIVERY

A. Signature
X [signature] ☐ Agent ☐ Addressee

B. Received by (Printed Name) C-ENRIQUEZ C. Date of Delivery 11-2-15

D. Is delivery address different from item 1? ☐ Yes
If YES, enter delivery address below: ☐ No

3. Service Type
☐ Adult Signature
☐ Adult Signature Restricted Delivery
☒ Certified Mail®
☐ Certified Mail Restricted Delivery
☐ Collect on Delivery
☐ Collect on Delivery Restricted Delivery
☐ Insured Mail
☐ Insured Mail Restricted Delivery (over $500)
☐ Priority Mail Express®
☐ Registered Mail™
☐ Registered Mail Restricted Delivery
☒ Return Receipt for Merchandise
☐ Signature Confirmation™
☐ Signature Confirmation Restricted Delivery

PS Form 3811, April 2015 PSN 7530-02-000-9053 Domestic Return Receipt

McMillan, Michael, EMNRD

From: Maunder, Susan B <Susan.B.Maunder@conocophillips.com>
Sent: Tuesday, November 24, 2015 3:02 PM
To: McMillan, Michael, EMNRD
Subject: VGEU Injection Authorization Questions
Attachments: VGEU Inj Well Schematics.pdf

Mr. McMillan,
Thank you for your call this afternoon. We were able to discuss ConocoPhillips Company's intent to authorize the entire unitized interval for injection so that we may deepen or move shallower as operating conditions warrant, as long as we have approved sundry notices for the work from District 1.

Attached please find the wellbore schematics for all 11 wells for your convenience, as well as being part of the earlier authorization in 2013.

Hope you have a good holiday. I will be out of the office for a few days, but can be reached via cellphone.

Thank you for your time spent reviewing our project.

Susan B. Maunder
Senior Coordinator, Regulatory – MCBU
ConocoPhillips Company Lower 48
T: 281.206.5281 C: 432.269.4378 E: Susan.B.Maunder@conocophillips.com

Water Analysis Report

10/20/2009

Champion Technologies

Address:

Customer: Conoco Phillips
Attention: Kenny Kidd
CC: M. Baker, Corey Hodnett

Lease: EVGSAU
Formation:
Salesman: Mike Baker

Target Name: EVGSAU 2060-S01

Sample Point: EVGSAU 2060-S01

Sample Date: 10/09/2009 Test Date: 10/20/2009

Water Analysis(mg/L)

Calcium	64
Magnesium	29
Barium	
Strontium	
Sodium(calc.)	78
Bicarbonate Alkalinity	220
Sulfate	62
Chloride	145
Resistivity	10.7023

Appended Data(mg/L)

CO2	10
H2S	0
Iron	0
Oxygen	

Physical Properties

Ionic Strength(calc.	0.01
pH(calc.)	7.44
Temperature(°F)	90
Pressure(psia)	50
Density	8.33

Additional Data

Specific Gravity	1.00
Total Dissolved Solids(Mg/L)	598
Total Hardness(CaCO3 Eq Mg/	279

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

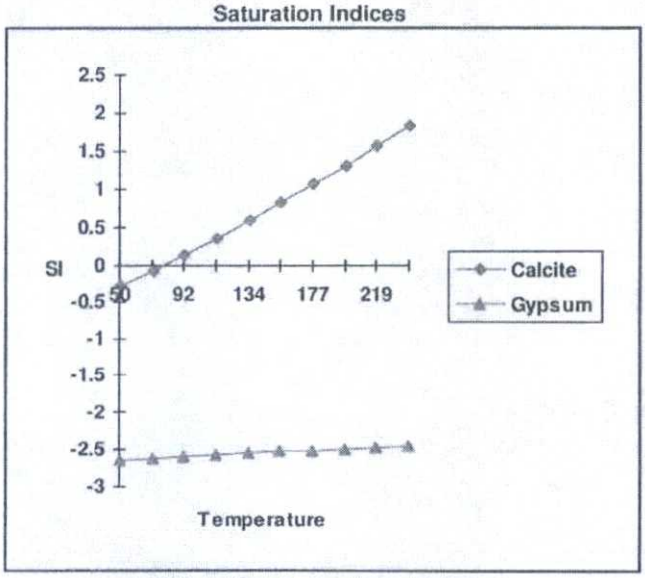
Calculation Method	Value
CO2 in Brine(mg/L)	10

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	0.11	7.00
Gypsum (Calcium Sulfate)	-2.59	
Hemihydrate (Calcium Sulfate)	-2.32	
Anhydrite (Calcium Sulfate)	-2.84	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-0.28	-0.08	0.13	0.35	0.58	0.82	1.06	1.31	1.57	1.84
Gypsum	-2.63	-2.61	-2.59	-2.57	-2.55	-2.53	-2.51	-2.49	-2.47	-2.46

Lab Tech.:

Water Analysis Report

10/20/2009

Champion Technologies

Address:

Customer: Conoco Phillips
Attention: Kenny Kidd
CC: M. Baker, Corey Hodnett

Lease: EVGSAU
Formation:
Salesman: Mike Baker

Target Name: EVGSAU 2864-S02 **Sample Point:** EVGSAU 2864-S02

Sample Date: 10/09/2009 **Test Date:** 10/20/2009

Water Analysis(mg/L)

Calcium	40
Magnesium	413
Barium	
Strontium	
Sodium(calc.)	
Bicarbonate Alkalinity	281
Sulfate	68
Chloride	121
Resistivity	

Appended Data(mg/L)

CO2	20
H2S	0
Iron	0
Oxygen	

Physical Properties

Ionic Strength(calc.	0.04
pH(calc.)	7.16
Temperature(°F)	90
Pressure(psia)	50
Density	

Additional Data

Specific Gravity		Dew Point	
Total Dissolved Solids(Mg/L)		Lead	
Total Hardness(CaCO3 Eq Mg/	1793	Zinc	

Calcite Calculation Information

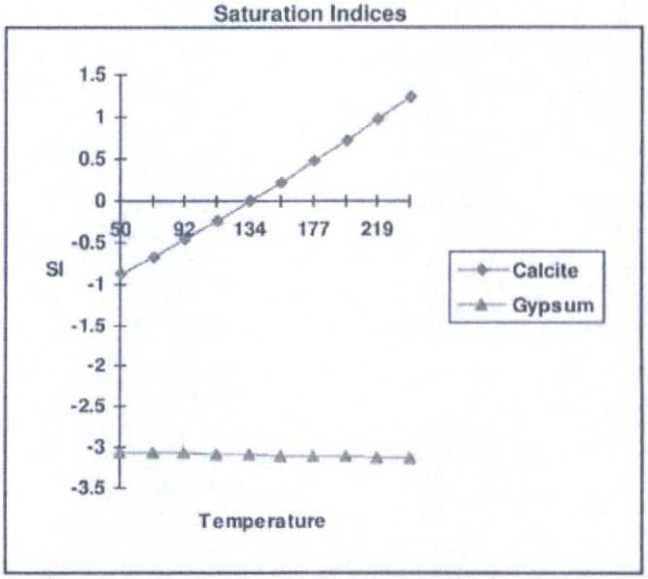
Calculation Method	Value
CO2 in Brine(mg/L)	20

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.48	
Gypsum (Calcium Sulfate)	-3.07	
Hemihydrate (Calcium Sulfate)	-2.84	
Anhydrite (Calcium Sulfate)	-3.32	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-0.88	-0.67	-0.46	-0.24	-0.01	0.22	0.47	0.72	0.98	1.24
Gypsum	-3.07	-3.07	-3.07	-3.08	-3.09	-3.10	-3.10	-3.11	-3.12	-3.13

Lab Tech.:

Water Analysis Report

10/20/2009

Champion Technologies

Address:

Customer: Conoco Phillips
Attention: Kenny Kidd
CC: M. Baker, Corey Hodnett

Lease: EVGSAU
Formation:
Salesman: Mike Baker

Target Name: EVGSAU 3202-S07

Sample Point: EVGSAU 3202-S07

Sample Date: 10/09/2009 Test Date: 10/20/2009

Water Analysis(mg/L)

Calcium	88
Magnesium	29
Barium	
Strontium	
Sodium(calc.)	111
Bicarbonate Alkalinity	281
Sulfate	25
Chloride	230
Resistivity	8.3770

Appended Data(mg/L)

CO2	40
H2S	17
Iron	0
Oxygen	

Physical Properties

Ionic Strength(calc.	0.02
pH(calc.)	5.67
Temperature(°F)	90
Pressure(psia)	50
Density	8.33

Additional Data

Specific Gravity	1.00
Total Dissolved Solids(Mg/L)	764
Total Hardness(CaCO3 Eq Mg/	339

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

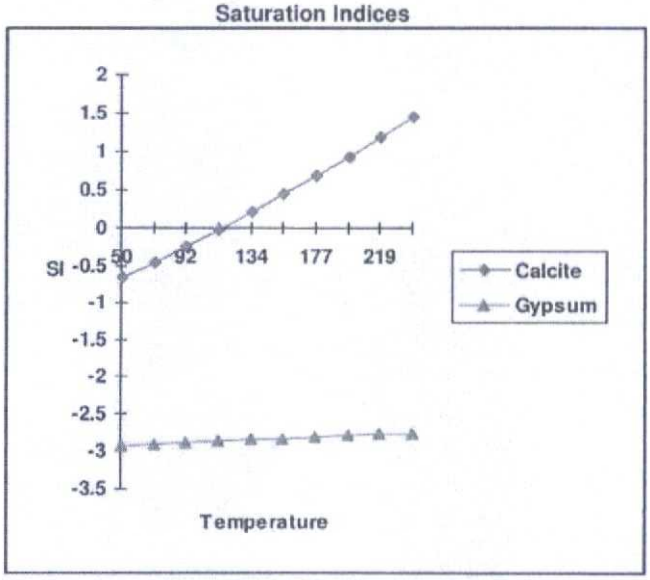
Calculation Method	Value
CO2 In Brine(mg/L)	40

Remarks:

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-0.27	
Gypsum (Calcium Sulfate)	-2.88	
Hemihydrate (Calcium Sulfate)	-2.63	
Anhydrite (Calcium Sulfate)	-3.13	
Barite (Barium Sulfate)		
Celestite (Strontium Sulfate)		

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-0.66	-0.46	-0.25	-0.03	0.20	0.44	0.68	0.93	1.19	1.46
Gypsum	-2.93	-2.90	-2.88	-2.86	-2.84	-2.82	-2.80	-2.78	-2.77	-2.75

Lab Tech.:

Exhibit # 1

Ezeanyim, Richard, EMNRD

From: Pecore, Doug W <Doug.W.Pecore@conocophillips.com>
Sent: Thursday, June 06, 2013 3:57 PM
To: Ezeanyim, Richard, EMNRD
Subject: Additional Information for VGEU C-108 ConocoPhillips
Attachments: Attach_3_VGEU2012_inj_permit_wells_csgcmt.xls; P&A Schematics Final for VGEU C-108 revised 6-6-13.pdf

Richard,

Here is a slightly revised well list for the 1/2 mile Area of Review. The well count is:

160 producers
20 P&A wells
2 TA wells
182 total wells

Through this well count research, I located 2 additional P&A wells that should have been included on the original submission. These are the VGEU 37-02 and the VGEU 15-02. These wellbore diagrams are included in the following updated attachment to Attachment #5:

Hopefully this will answer your latest question. Please call me if you have any questions.

Thanks

Doug Pecore
Staff Reservoir Engineer, Buckeye East Team
ConocoPhillips Co, Houston, TX
832-486-2145
Doug.W.Pecore@ConocoPhillips.com

Attachment 5
Vacuum Glorieta East Unit
Well Schematics of Plugged and Abandoned Wells

Well bore diagrams, for plugged and abandoned wells, included in this submittal are listed below.

Well Name and Number	API Number
New Mexico CG State 2 #1 (also known as VGEU 046 #1)	30-025-20957
VGEU 032-01	30-025-20799
VGEU 047-01	30-025-20958
EVGSAU 3236-002	30-025-02977
State B 1576 #009	30-025-32515
VGEU 002-05	30-025-20713
VGEU 019-02	30-025-20845
VGEU 019-03	30-025-20847
VGEU 025-03	30-025-20885
VGEU 001-08	30-025-20722
VGEU 002-06	30-025-20709
VGEU 014-01	30-025-20802
VGEU 026-01	30-025-20883
VGEU 039-01	30-025-02938
Warn State AC 1 #003	30-025-20748
Central Vacuum Unit #060	30-025-25707
Vacuum Glorieta West Unit #119	30-025-21108

The April 1, 2011 Application for Authorization to Inject included the following well bore diagrams that are near the area.

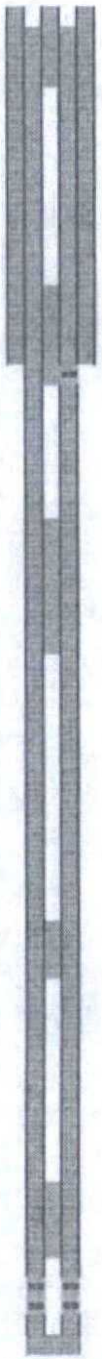
- East Vacuum GB-SA Unit 3202-002
- East Vacuum GB-SA Unit 3308-001
- East Vacuum GB-SA Unit 0449-002W
- East Vacuum GB-SA Unit 0449-039
- Hoover 32-6
- Vacuum Glorieta East Unit 018-01
- Vacuum Glorieta East Unit 037-04
- Vacuum Glorieta East Unit Ph4 19-026
- Warn State 1 #3 (API # 30-025-20748)
- Texaco Central Vacuum Unit #94

WELLBORE SKETCH

Date: June 4, 2013

RKB @ 3979'
DF @ 3978'
GL @ 3966'

Subarea : Buckeye
Lease & Well No. : Texaco NM "CG" State NCT-2 No. 1
Legal Description : 2310' FNL & 1750' FWL, Sec. 29, T17S, R35E. UL "F"
County : Lea State : New Mexico
Field : Vacuum Glorieta
Date Spudded : 7/27/64 Rig Released: 8/17/64
API Number : 30-025-20957
Status: Plug and Abandoned
State O&G Lease 811026



15" Hole

Spot 15 sx cmt 380' - Surf

Spot 10 sx cmt @ 1780' - 1344'
11-3/4" 42# @ 1879'
Cmt'd w/ 1,000 sx, circ
TOC @ Surface
Top Salt @ +/- 1778'
Perf @ 1690' - Sqz w/675 sx 1690-100'

Spot 15 sx cmt @ 3000' - 2391'

Base of Salt @ +/- 2730'

Spot 8 sx cmt @ 4600' - 4297'

Spot 10 sx cmt @ 6044' - 5638'

6151 6160 6165
6171 6177

7-7/8" Hole
2-7/8" 6.5# @ 6250'
Cmt'd w/ 1,000 sx
TOC @

PBTD: 6241'
TD: 6252'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
		Perforate w/ 2 JSPF @ 6151, 6160, 6165, 6171 and 6177'.						
6151-6177		Acetic Acid	500					
	7/13/61	Perf 2-7/8" Csg @ 1690'						
		Cement 11-3/4" x 2-7/8" Csg Annulus w/ 975 sx, did not circ.						
		TOC @ 100'						

1/26/95 - Subsequent Report of Plug and Abandonment:

1. Notify NMOCD prior to moving on well.
2. This well has 2-7/8" tub for production csg.
3. 1-25-95 TIH w/ 2-1/16" tub to 6044' Spot 10sx cmt. plug f/6044 to cal. TOC 5638'. Talked w/Jerry Sexton @ 9:30am 1-26-95 w/NMOCD he OK to spot plug w/NO tag required. Load csg. w/25# per bbl salt gel plug mud.
4. POH w/2-1/16" tub to 4600' Spot 8 cmt. plug f/4600' CAL TOC top 4297.
5. POH w/2-1/16" tub to 3000' Spot 15sx cmt. plug f/3000' CAL TOC 2391'.
6. POH w/2-1/16" tub to 1750' Spot 10sx cmt. plug f/1750' CAL TOC 1344'.
7. POH w/2-1/16" tub to 350' Spot 15sx cmt. plug f/350' to surface.
8. RD Pool WOrig & Pool plugging equip. Cut off wellhead; weld on cap & install dryhole marker.

Formation Tops:

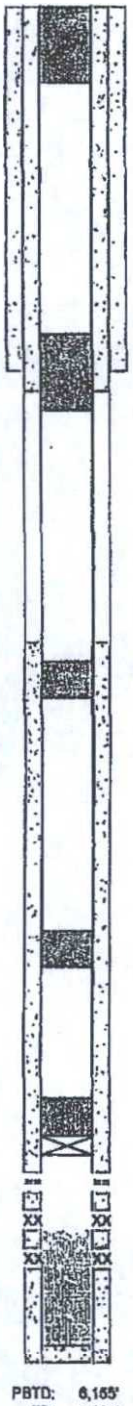
Anhydrite	1614'
Top Salt	1778'
Yates	
Seven Rivers	
Base Salt	2730'
Queen	3785'
Grayburg	
San Andres	4474'
Glorieta	6030'

PLUGGED WELLBORE SKETCH

ConocoPhillips Company -- Permian Basin Business Unit

Date: November 3, 2004

RKB @ 3,972'
DF @ 3,970'
GL @ 3,960'



40 sx C cmt 413' to surface

12-1/4" Hole

8-5/8" 24# J55 @ 1,685'
Cmt'd w/ 640 sx circ
25 sx C cmt 1,749 - 1,400', TAGGED
sqz'd 500 sx @ 1,700', circ. (08/31/80)
Top of Salt @ 1,728' (Est.)

TOC @ 2,600' (T.S.)

Base of Salt @ 2,900' (Est.)
25 sx C cmt 3,021 - 2,651'

25 sx C cmt 4,486 - 4,116'

7-7/8" Hole

25 sx C cmt 6,117 - 5,742'

Tagged CIBP @ 6,117' (set 08/18/04)

6,148' - 6,153' (Reperf'd)

6,148' - 6,153'
Hydromite Plug 6,155'-6,168'
6,158' - 6,168'

Hydromite Plug 6,189'-6,198'
Float Collar @ 6,190'

4-1/2" OD @ 6,225' w/ 600 sx
9.5# J-S 5741.74'
10.5# J-S 470.61'

PBTD: 6,155'
TD: 6,225'

Subarea : Buckeye
Lease & Well No. : VGEU No. 32-01
Legal Description : 2323' FNL & 660' FEL, Section 29, T-17-S, R-35-E
County : Lea State : New Mexico
Field : Vacuum (Glorieta)
Date Spudded : September 5, 1964 IPP: 9/24/64
API Number : 30-025-20799 176 BO, 2 BW, GOR 490
Status: PLUGGED 10/20/04
Drilled as Santa Fe No. 108

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	9/23/64	Perf Glorieta 6148'-6165' - 2 JSPF						
6148-6165	9/24/64	15% Acid	500		1900	900	2.0	2-3/5"
		Test: Flow 176 BO, 2 BW, GOR 490						
	8/20/75	Test: Pump 5 BO, 100 BSW, GOR 732						
	12/3/75	Plug back 6168-6166 w/1000# hydromite						
	12/4/75	Plug back 6166-6147 w/150# hydromite						
	12/5/75	Drilled and cleaned out hydromite f/6147-6155						
	12/8/75	Perf 6148'-6153' - 2 JSPF						
6148-6153	12/9/75	20% Acid	500					
		3% HCl	500	Unable to break formation				
6148-6153	12/10/75	28% NE HCl	500					
		3% HCl	500		6500	0	3.1	
	12/16/75	Test: Pmp 3 BO, 145 BSW, GOR 312						
	6/2/80	Repair casing leak - perf 1700' & sqz w/500 sx						
		Test: 2 BO, 0 BW, Gas TSTM						
6148-6153	7/1/80	15% NE HCl						
	7/9/80	Test: Pump 18 BO, 10 BSW, GOR 710						
	8/28/04	Casing leak - review indicates casing repair not justified						
	8/31/04	Prepare Application for Abandonment of Well						

ACTUAL PLUGS
TRIPLE N SERVICES INC MIDLAND TX

1) Tagged CIBP @ 6,117' (set 08/18/04)
2) 25 sx C cmt 6,117 - 5,742'
3) 25 sx C cmt 4,486 - 4,116'
4) 25 sx C cmt 3,021 - 2,651'
5) 25 sx C cmt 1,749 - 1,400', TAGGED
6) 40 sx C cmt 413' to surface

Formation Tops:

Yates	2,905'
Queen	3,766'
Grayburg	4,043'
San Andres	4,486'
Glorieta	6,015'

4-1/2" casing

9.5 #/ft	0.0912	ft3/ft
10.5 #/ft	0.0895	ft3/ft

WELLBORE SKETCH

Date: June 4, 2013

RKB @ 3986'
DF @ 3985'
GL @ 3975'

Subarea : Buckeye
Lease & Well No. : Texaco NM "CG" State NCT-1 No. 2
Legal Description : 2310' FNL & 400' FEL, Sec. 30, T17S, R35E
County : Lea State : New Mexico
Field : Vacuum Glorieta
Date Spudded : 6/5/64 Rig Released: 6/21/64
API Number : 30-025-20958
Status: Plug and Abandoned
State O&G Lease E-7585

Spot 10 sx cmt 15' - Surf
15" Hole
Spot 30 sx cmt @ 60' - 15' (TAGGED)

Spot 100 sx cmt @ 350' - 154'

11-3/4" 24# @ 1620'
Cmt'd w/ 1,000 sx, circ
TOC @ Surface
Top Salt @ +/- 1730'
Spot 100 sx cmt @ 1706' - 1479 (TAGGED)'

Cmt Retainer @ 2500' w/ 5 sx cmt on top

Base of Salt @ +/- 2825'
P&S @ 2900 - 2500' w/ 148 sx

Spot 5 sx cmt @ 4500' - 4297'

Spot 10 sx cmt @ 5932' - 5526'

6045 6074 6075 6083 6086
6111 6112 6114
6101 6103 6119
6142-6150 6155-6160

7-7/8" Hole
2-7/8" 6.5# @ 6250'
Cmt'd w/ 1200 sx
TOC @ Surf

PBTD: 6242'
TD: 6250'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	6/23/64	**Perforate 2-7/8" Csg w/ 2 JSPF @ 6101, 6103 and 6119**						
6101-6119	6/23/64	Acetic Acid	500					
6101-6119	11/25/70	15% Acid	3,000					
	4/7/71	**Perf 2-7/8" Csg w/ 2 JSPF @ 6142-6150 and 6155-6160**						
6142-6160	4/7/71	28% NEA Acid	3,000	15 BS				
	6/6/85	Perf 2-7/8" Csg w/ 2 JSPF @ 6045, 74, 75, 83, 86, 6111, 12 & 6114						
6045-6114	6/6/85	15% NEFE	40					

2/2/95 - Subsequent Report of Plug and Abandonment:

1. Notify NMOCD of intent to plug and abandon talked w/Jerry Sexton 1-27-95
2. This well has 2-7/8" tub for production csg.
3. TIH w/2-1/16" work string to 5932' CICR csg. w/ 25# per bbl salt gel w/10# brine. 1-30-95
4. 1-30-95 Spot 10sx cmt. f/5932-5526.
5. 1-30-95 Spot 5 sx cmt f/4500-4297.
6. 1-31-95 Perf @ 4s per/ft. @ 2900' Set CICR @ 2500 sq. 145sx below CICR; Shut in @ 900 PSI Cap cmt. rmt. w/5sx cmt.
7. 2-1-95 RUWL cut 2-7/8" csg. @ 1706; Spot 100sx cmt. @ 1706' WOC tag @ 1479
8. 2-1-95 Spot 100sx cmt. @ 350 CAL TOC 154'.
9. 2-1-95 Spot 30sx cmt. @ 60 to surface WOC & tag @ 15'.
10. 2-1-95 Spot 10sx cmt. @ 15 to surface.
11. 2-2-95 RD pulling unit & rmt equip. Dig out cellar cut off well head cap well & install dry hole marker.

Formation Tops:

Anhydrite	1600'
Top Salt	1730'
Base Salt	2825'
Yates	2870'
Seven Rivers	
Queen	3770'
Grayburg	
San Andres	4440'
Glorieta	5995'

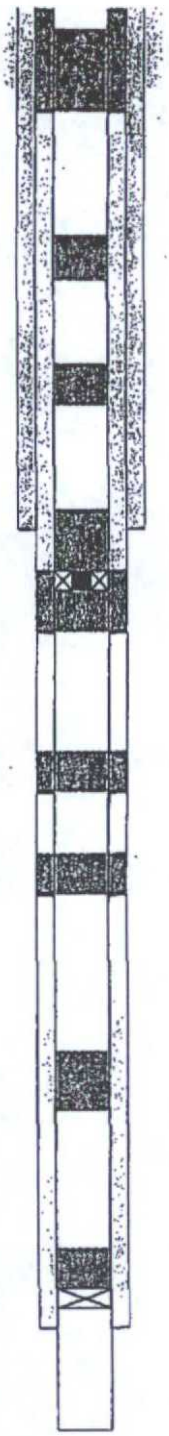
PLUGGED WELLBORE SKETCH

ConocoPhillips Company -- Permian Basin Business Unit

Date: April 12, 2005

RKB @ 3,980'
DF @
GL @ 3,970'

Subarea :	Buckeye
Lease & Well No. :	East Vacuum Grayburg San Andres Unit Tract 3236 #002
Legal Description :	660' FNL & 660' FWL, Sec. 32, T-17-S, R-35-E
County :	Lea State : New Mexico
Field :	Vacuum Grayburg San Andres
Spud Date :	November 10, 1938 IPP:
API Number :	30-025-02977
Status:	plugged April 11, 2005



17-1/2" hole

13-3/8" 48/54# K-55 @ 275' w/ 400 sx, circ.

Squeezed 150 sx C cmt under packer into existing perfs at 300'. WOC & tagged @ 34'.

12-1/4" hole

30 sx C cmt 884 - 684'

25 sx C cmt 1,350 - 1,200'

9-5/8" 36# @ 1,595', circulated w/ 615 sx

35 sx C cmt 1,711 - 1,504'

Set cmt retainer @ 1,711' and sqz'd 450 sx C cmt into existing perforations at 1,800'.

50 sx cmt squeezed 2,300 - 2,200' pumped 04/02/02

50 sx cmt squeezed 2,850 - 2,650' pumped 03/02/02

TOC @ 3,230' calc.

25 sx cmt 3,700 - 3,520' (balanced) pumped 03/02/02

8-3/4" hole

35 sx cmt 4,112 - 3,900' (balanced)
CIBP @ 4,112' (set 03/02/02)

7" 24# K-55 @ 4,203' cmt'd w/ 146 sx, TOC @ 3,230' calc.

6-1/4" openhole to 4,651'

PBTD: 4,651'
TD: 4,651'

TRIPLE N SERVICES INC. MIDLAND, TX

FINAL PLUGGING

1) Tagged cmt @ 91'. Drilled/cleaned out cement & retainers to 1,877'. Ran CBL 1,700' to surface.
2) Set cmt retainer @ 1,711' and squeezed 450 sx C cmt into existing perforations at 1,800'.
3) Pumped 35 sx C cmt 1,711 - 1,504'
4) Pumped 25 sx C cmt 1,350 - 1,200'
5) Pumped 30 sx C cmt 884 - 684'
6) Squeezed 150 sx C cmt under packer into existing perfs at 300'. WOC & tagged @ 34'.
7) Squeezed 10 sx C cmt into 7 x 9-5/8" annulus, SICP 1,200#
8) SI 04/13/05 per NMOCD for 30-day observation prior to cutting off wellhead & installing dryhole marker.

Formation Tops:

Chinle	220'
Rustler	1,520'
Yates	2,800'
Queen	3,670'
Grayburg	4,010'
San Andres	4,290'

C:\Jim Data\Client Files\CONOCO\Wellbore Diagrams\Vacuum Field\EVGSAU 3236 #0002 WBDs.xls

M. Navarrete
5/3/2005

bp

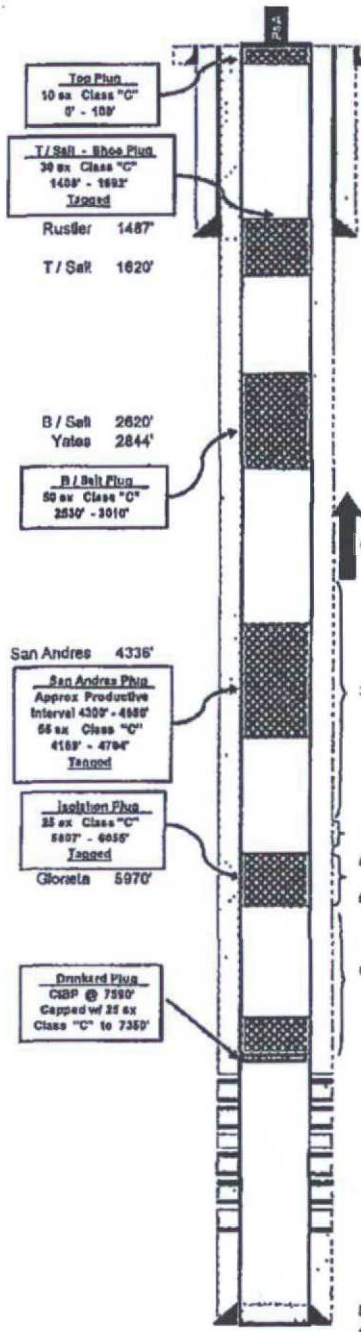
State "B" 1576 #9
Vacuum (Drinkard)

API No. 30 - 025 - 32815

500' FSL & 418' FWL
Section 32 - T17S - R35E
Lea County, New Mexico

Final P&A
May 20, 2008

RKB 13'
GL 3961'



		Event Date
16" conductor @ 40' w/ RM	Spud	6/23/94
	RR	6/10/94
8 5/8" 24# J-55 STC @ 1522' Cmt'd w/ 760 sx, circ to surface		5/25/94
0' - 3988' Lost 15 psi in 10 minutes		1/24/07
		1/24/07
3988' - 5810' Lost 100 psi in 5 minutes		1/24/07
5800' - 5955' tested to 500 psi, OK		
5907' - 5940' Lost 600 psi in 1 minute		1/24/07
5940' - 6005' Lost 100 psi in 5 minutes		
6008' - 7587' tested to 500 psi, OK		1/24/07
Drinkard Completion: 7634' - 7641', 7648' - 7649', 7684' - 7693', 7706' - 7730', 7741' - 7761', 7766' - 7824', 7839' - 7853', 7866 - 7872', 7878' - 7880', 7888'		Completed June through August, 1994
5 1/2" 15.5# J-55 LTC @ 8150' Cmt'd w/ 1050 sx "H" (11.6 ppg, 3.15 yield) & 220 sx "H" (16.4 ppg, 1.07 yield) Cmt circ'd to surface		3/31/00

DCD 5/21/08

CURRENT SCHEMATIC

ConocoPhillips

VACUUM GLORIETA EAST UNIT 002-05

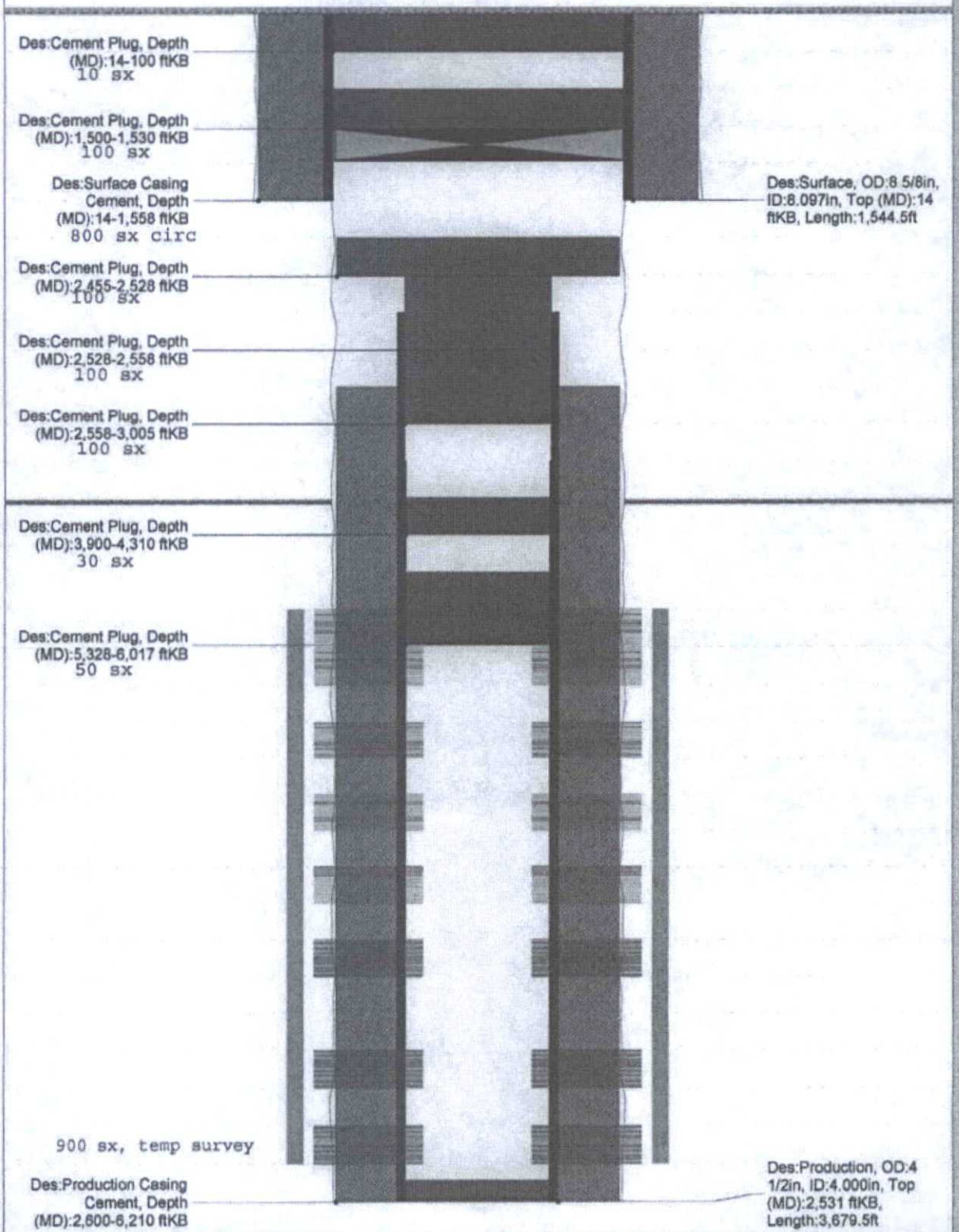
District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300252071300	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref
4/16/1964	SEC. 32, T17S, R35E	2,307.00	E	1,980.00	S

Well Config: VERTICAL - Original Hole, 6/4/2013 3:53:54 PM

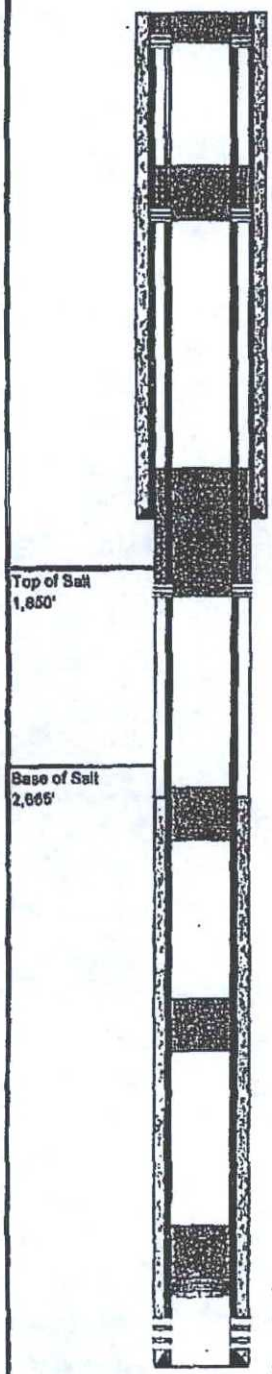
Schematic - Actual

ftKB (MD)
13
100
1,500
1,530
1,532
1,558
2,455
2,528
2,531
2,558
2,600
3,005
3,210
3,900
4,310
5,328
6,016
6,017
6,024
6,030
6,034
6,038
6,042
6,061
6,065
6,096
6,106
6,108
6,112
6,122
6,132
6,148
6,210



Report Printed: 6/4/2013

ConocoPhillips Inc. | ***Plugged Wellbore*** | **Vacuum Glorieta E. Unit #02-7**



Field Name:	Vacuum Glorieta		
County:	Lea	**Well Type:**	SI producer
State:	New Mexico	**Depth:**	6,205
RRC District:		**Drilling Commenced:**	April 1, 1964
Section:	32	**Drilling Completed:**	April 14, 1964
Block:		**Date Well Plugged:**	December 8, 2003
Survey:	T-17-S; R-35-E	**Longitude:**	
Unit Letter O, 330 FSL & 2,308 FEL		**Latitude:**	
		Freshwater Depths:	
API #:	30-025-20711		
Lease or ID:	B-2956		

Casing

Description	Size (inches)	Depth (feet)	TOC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	8-5/8"	1,523	surface	850	12-1/4"
Production:	4-1/2"	6,192	2,713	900	7-7/8"

Existing Plugs

	Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)
1	CIBP set 07/25/01	6,070	6,070	—	CIBP
2	class C cement, balanced	5,707	6,070	25	33
3	class C cement, balanced	4,158	4,521	25	33
4	class C cement, balanced	2,437	2,800	25	33
5	class C cement, perf & sqz'd	1,473 (tag'd)	1,850	100	132
6	class C cement, perf & sqz'd	233 (tag'd)	350	25	33
7	class C cement, perf & sqz'd	surface	60	20	26

Perforations

Formation	Top (feet)	Depth (feet)
Glorieta	6,121	6,143

Formations

Name	Top of Formation
Top of Salt	1,650
Base of Salt	2,665

Comments

MIRU plugging crew 12/04/03. Tagged CIBP set 7/25/01 @ 6,070'.

Prepared By:	Jim Newman
Date:	December 19, 2003

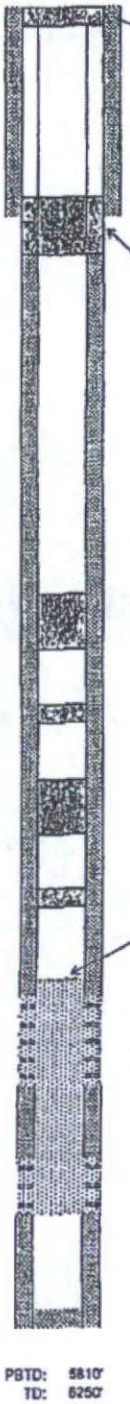
TRIPLE N SERVICES INC. MIDLAND, TX

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

Date: Nov. 27, 2012

RKB @
DF @
GL @ 3954'

Subarea :	Buckeye
Lease & Well No. :	VGEU No. 19-02
Legal Description :	2310' FSL & 2310' FWL, Section 32, T-17-S, R-35-E
County :	Lea State : New Mexico
Field :	Vacuum Glorieta (Paddock)
Date Spudded :	July 29, 1964 Rig Released:
API Number :	30-025-20945
Status:	



11" Hole
P&S 25sx cmt @ 60'-3'

Float Collar @

8-5/8" OD @ 1557'
24#, J-55
Cmt'd w/700 sx, circ
TOC @ Surface
P&S 60sx cmt @ 1600'-1560' - Tag
TOC @ 1605' for 4-1/2" csg

Spot 35sx cmt @ 3100'-2881' - Tag

Spot 20sx cmt @ 3670'-3500'

Spot 35sx cmt @ 4400'-4000' - Tag

Spot 20sx cmt @ 4900'-4800' (Casing leaks)

Tag TOC

CEMENT PLUG @ 5810'-6130'
Glorieta
5985-5987
5992'-5996'
6002'-6012' 6015-6019
6022'-6032'
6048'-6052'

Paddock
6070-6130
6074'-6087' 6094-6101
6120'-6130' -- 11 holes (8/83)

Float Collar @

7-7/8" Hole

4-1/2" OD @ 6250'
10.5# & 9.5#
Cmt'd w/1592 sx
TOC @ 1605' (T.S.)

PBTD: 5810'
TD: 6250'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	8/15/64	Perf Paddock 6074-6087 and 6094-6101 (40 shots)						
6074-6101	8/18/64	Acid	500		2200	1200	2.1	
	8/16/64	test: 237 BO, GOR 568						
	9/16/70	Hot oil down casing						
	11/10/70	Run paraffin knife						
	5/27/78	Cellard dug out to top surface pipe. Cement to top of pipe. Piped Bradenhad to GL w/2" and stenciled valve SURF.						
	8/16/83	Perf 6120-6130 - 11 holes						
6074-6130	8/17/83	15% HCl	5,500	1250# RS	3800	Vac	6.3	
	8/19/83	Perf Glorieta 5992'-6052' -- 37 holes						
5992-6052	8/22/83	15% HCl NEFE	4,300	50 BS	3000	Vac	3.7	
5992-6052	8/25/83	15% NE & SA-2	4,500	74 BS	3500		5.0	
	12/30/83	Tag fill @ 6150'						
5992-6130	1/3/84	acate solvent and inhibitor						
	5/7/84	Run casing integrity test, 500# held OK. GIH w/2-3/8" tbg, SN @ 6132', anchor @ 5879'. GIH w/pmp & rods						
	7/03	Shut-in						
	8/30/05	Tag CIBP @ 5892'; spot 20 sx cmt						
	9/1/05	Spot 25 sx cmt @ 2722; tag @ 2374'						
	9/1/05	Perf @ 1607'						
	9/2/05	TIH OE to 1653; spot 25 sx; tag @ 1300'						
	9/2/05	Spot 10 sx surface plug 30'-surf						
	6/17/10	Drill out cmt 5839'; drill out CIBP @ 5839' and chase to 6150'						
	6/24/10	Spot 75 sx cmt across perfs @ 6130-5992'						
	6/28/10	Tag @ 6120'; spot 75 sx across perfs 5992-6120						
	7/1/10	Tag cmt @ 5395; drill out to 6130'						
	7/2/10	Spot 50 sx Cl C 6150-5345; tag @ 5422						
	7/13/10	Tag @ 5422'; drill out to 6150'						
	7/15/10	Perf @ 5985-5987 & 6070-6130						
	10/18/10	Isolate casing leak @ 4840-4872						
	10/21/10	Pmp 70 sx Class C 6130-5810' (Tagged)						

Top of Salt @ 1600'

Base of Salt @ 2799'

Formation Tops:

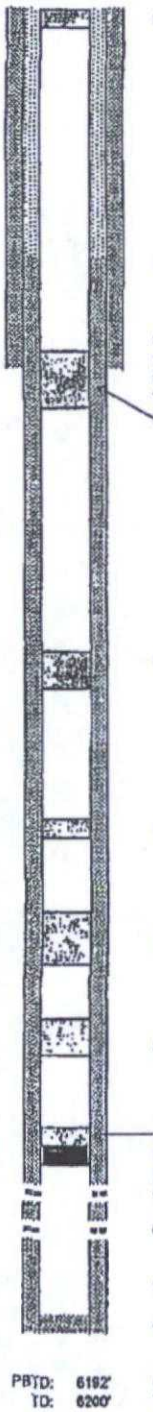
Yates	2781'
Seven Rivers	
Queen	3670'
Grayburg	5945'
San Andres	
Paddock	6057'

84

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

Date: November 27, 2012

RKB @ ____
DF @ ____
GL @ 3970'



Spot 10sx cmt @ 60'-3'

TOC 8-1/2" Csg @ 900' (TS)

8-5/8" OD @ 1550'
24#, J-55
Cmt w/700 sx, circ
TOC @ Surface

Spot 25sx cmt @ 1750'-1600' - TAG

Spot 25sx cmt @ 2850'-2550' - TAG

Spot 25sx cmt @ 3760'-3610'

Spot 30sx cmt @ 4460'-4000' - TAG

Spot 25sx cmt @ 5300'-5000'

Spot 25sx cmt @ 6029'-5879'
RBP @ 6029' (TAG)
Paddock
6061' - 6078' - 2 SPF

6088' - 6094' - 2 SPF

7-7/8" Hole

4-1/2" OD @ 6200'
10.5# J-55 660'
9.5# J-55 5540'

PBTD: 6192'
TD: 6200'

C,t w/1332 sx
TOC @ 800' (T.S.)

Subarea : Buckeye
Lease & Well No. : VGEU No. 19-03
Legal Description : 660' FSL & 500' FWL, Section 32, T-17-S, R-35-E
County : Lea State : New Mexico
Field : Vacuum (Glorieta)
Date Spudded : August 28, 1964 IPP:
API Number : 30-025-20847
Status: Temporarily Abandoned
Drilled as State "B" 1576 No. 8

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	9/17/64	Perf Paddock 6069-6078 & 6086-6094						
6069-6094	9/17/64	15% CMA	500		3400	2000	2.5	2-3/8"
	9/17/64	Potential 218 BO, GOR 1120						
6069-6094	2/3/66	15% NEFE CMA	1,000		1600	1000	2.1	2-3/8"
	5/27/76	Cellar dug out to top of 8-5/8", cmt to top of pipe. Piped bradenhead to ground level w/2" and stenciled valve SURF. Work done per NMOCD letter dated 4/28/76.						
	2/9/83	COP						
	12/1/93	Change in lease name and number effective						
	5/11/94	Press test casing to 500#, OK.						
	8/04	Encounter casing leak, temporarily abandon well						
	8/11/04	Further technical review has determined that wellbore has no additional potential.						
	8/23/04	Prepare Application for Abandonment of Well						
	10/21/04	Set 4-1/2" CIBP @ 6011'; pmp 25 sx cmt; TOC @ 5644'						
	10/22/04	Pmp 25 sx C cmt 2898-2627						
		Pmp 30 sx C cmt 1588-1144; tag cmt @ 1180'						
		Perf @ 400'; circ 100 sx C cmt to surface						
	6/15/10	Drill out cement to 3999'						
	6/17/10	Spot 10 sx cmt 439'-295'						
	6/21/10	Drill out cement to 440'						
	6/23/10	Spot 10 sx cmt from 439' to 295'; tag @ 330'						
	7/1/10	Drill out cement and CIBP's to 5971'; TIH to 6147'						
	7/7/10	Test casing; leak from 5030-5242						
	7/7/10	RBP @ 6029'; w/2 sx sand on top						
	7/8/10	Pmp 25 sx C cmt from 501'-143'						
	7/12/10	Drill out cement						

Formation Tops:

Yates	2800'
Queen	3710'
Glorieta	5987'
Paddock	6064'

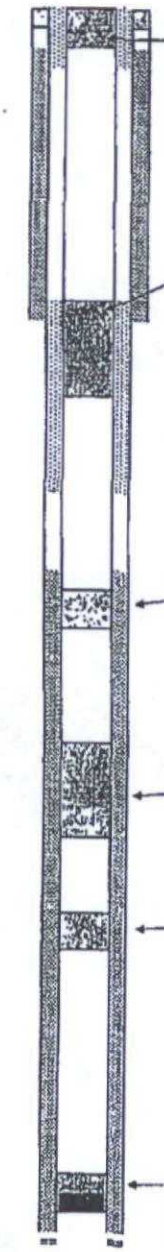
85

WELLBORE SKETCH
ConocoPhillips Company -- Lower 48 - Mid-Continent BU / Permian Operations

Date: July 31, 2012

RKB @ 3978'
DF @ 3978'
GL @ 3967'

Subarea : Buckeye
Lease & Well No. : Vacuum Glorieta East Unit, Tract 25, Well 003
Legal Description : 1880' FNL & 660' FWL, Sec. 32, T17S, R35E, Lit. "E"
County : Lea State : New Mexico
Field : Vacuum (Glorieta)
Date Spudded : 8/7/64 Rig Released: 8/24/64
API Number : 30-025-20885
Status:
Drilled as Standard Oil State 3-32-E Lease or ID: B-1638-1



Perf @ 50'; circ 20 sx 50'-surf
12-1/4" Hole
Spot 30 sx cmt @ 60'-Surface
Perf @ 350'; sqz 25 sx 350-250; tag @ 240'

Spot 40 sx cmt @ 1900'-1465'; TAG
8-5/8" 32# J-55 ST&C @ 1579'
Cmt'd w/ 1250 sx, circ 400 sx
TOC @ Surface
Sqz 150 sx @ 1615'
Perf @ 1629'; sqz 60 sx 1629-1529; tag @ 1492'
Sqz 25 sx @ 1700'
Sqz 120 sx @ 1708'
Sqz 1781' w/ 180 sx
Perf @ 1850'; sqz 40 sx 1850-1750; tag @ 1736'
Sqz 40 sx 1875-1300

Sqz 25 sx @ 1950'

TOC 4-1/2" Csg @ 2500' (T.S.)
Spot 35 sx cmt @ 3046'-2662' - Tag
Base of Salt @ 2702'

Spot 30 sx cmt @ 3982-3632'

Spot 20sx cmt @ 4359'-4209'

Spot 25 sx cmt on CIBP @ 6030-6667'
4-1/2" CIBP @ 6030'
Paddock
6050-6067 6081-6087
6072-6115
6134-6139 6141-6144
6151-6154 6158-6164

7-7/8" Hole
4-1/2" 9.5# @ 6264'
Cmt'd w/ 870 sx, no circ
TOC @ 2500' (T.S.)

PBTD @ 6030'
TD @ 6268'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	8/26/64	Perf 6072-6115 w/ 1 TJPF						
6072-6115	8/27/64	Acid	1,000		2650	2200	3.3	
	5/12/65	Perf w/ 1 TJPF @ 6050-6057 & 6081-6087						
6050-6115	5/13/65	15% Retarded Acid	3,000	60 BS	3250	2575	3.7	
	8/2/67	Perf w/ 2 CJPF @ 6134-6139, 6141-6144, 6151-6154 & 6158-6164						
6134-6164	8/3/67	15% DS-30 Acid	1,000		1900	0	3.4	
6050-6164	3/22/73	20% Acid	6,000					
6050-6164	2/10/81	20% NE HCl	3,000					
	1/29/01	Set CIBP @ 6030'						
	12/3/0	Tag CIBP @ 6030'; pmp 25 sx Cl C cmt 6030-5667'						
		Pmp 25 sx Cl C cmt 3932-3569						
		Pmp 25 sx Cl C cmt 2731-2368						
		Perf @ 1850' & Sqz 40 sx Cl C cmt 1850-1750; tag cmt @ 1736'						
	12/4/03	Perf @ 1629'; sqz 60 sx Cl C cmt 1629-1529'; tag cmt @ 1492'						
		Perf @ 350'; sqz 25 sx Cl C cmt 350-250; tag cmt @ 240'						
		Perf @ 50'; circ 20 sx Cl C cmt 50' to surface						
	6/8/10	Drill out cement plugs w/ 3 7/8" bit to 6030'; top of CIBP						
		Run csg inspection log; holes in casing @ 1846-1847; 1615; 1313; 356 and 60.5'						
	7/13/10	Sqz 40 sx Class C Neat cmt 1875-1300'; tag cmt @ 1543'						
	7/15/10	Drill out cmt to 1875'						
	7/19/10	Set Pkr @ 1781'; sqz 50 sx Cl C Neat						
	7/21/10	Set pkr @ 1781'; sqz 60 sx Cl C Neat						
	7/23/10	Set pkr @ 1781'; sqz 70 sx Cl C Neat						
	7/27/10	Drill cmt from 998-1905'						
	7/28/10	Set 4-1/2" CIBP @ 1600'						
	10/22/10	Drill out CIBP						
	10/25/10	Set CIBP @ 1730';						
	10/27/10	Sqz holes @ 1615'; sqz 150 sx Cl C						
	10/28/10	Drill out cement and CIBP						
	11/1/10	Sqz 25 sx Cl C Neat @ 1950'						
	11/4/10	Sqz 25 sx @ 1700'						
	11/8/10	Set pkr @ 1708'; sqz 120 sx Cl C Neat						
	11/17/10	Mill over fish from 1456-1641'						
	12/2/10	Recovered packer; drill cmt from 1657-1988'						

Formation Tops:

Rustler	1515'	Penrose	
Salado / Top Salt	1650'	Grayburg	3932'
Tansill / Base Salt	2702'	San Andres	4309'
Yates	2828'	Glorieta	5942'
Seven Rivers	2996'	Paddock	6011'
Queen	3682'		

ConocoPhillips

Schematic - Current

VACUUM GLORIETA EAST UNIT 001-08

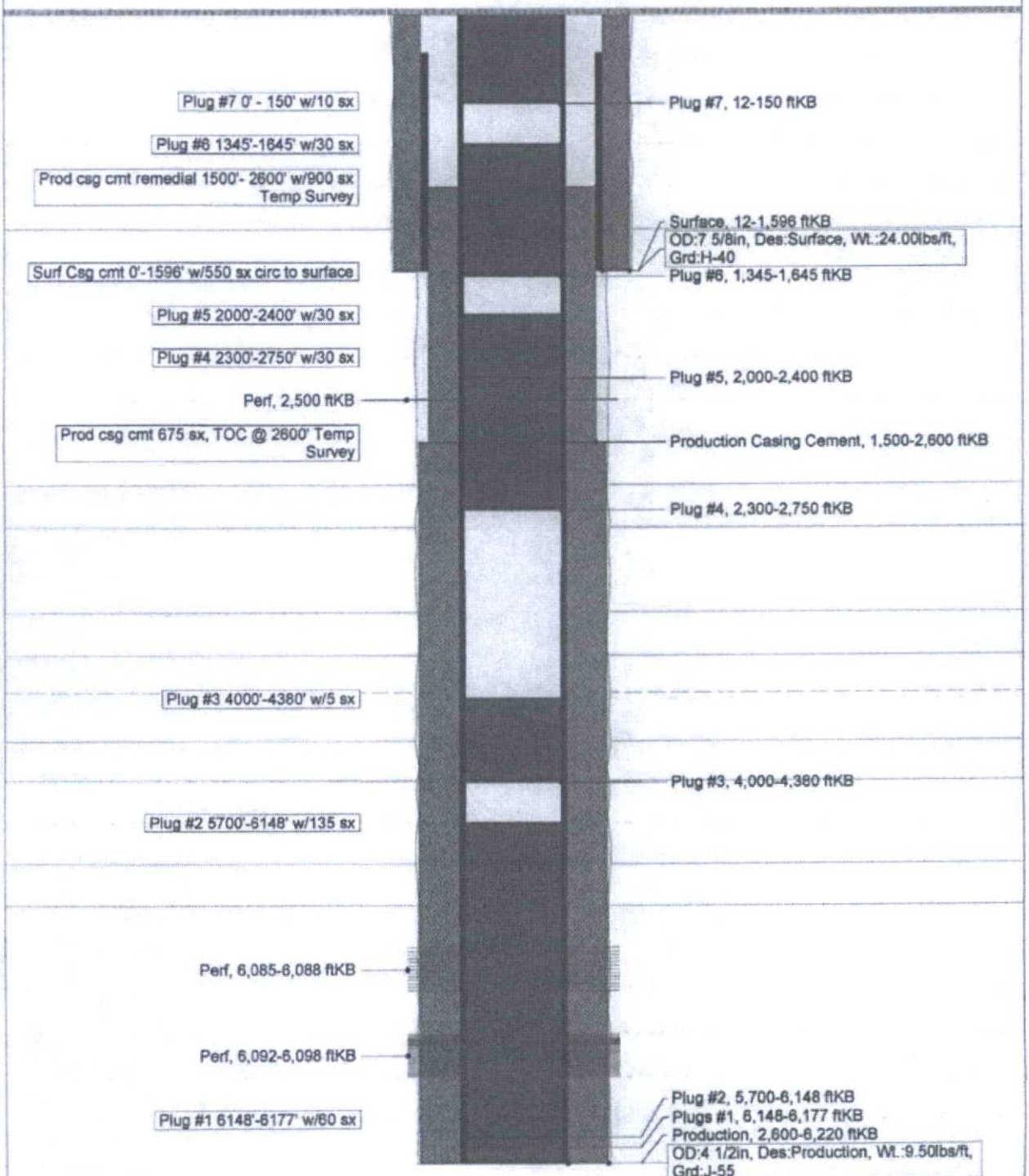
District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300252072200	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
5/29/1964	Sec. 28, T-17-S, R-35-E	330.00	W	330.00	S

Well Config: VERTICAL - MAIN, 6/4/2013 2:20:36 PM

Schematic - Actual

ftKB (MD)	Incl
12	
13	
75	
1,345	
1,500	
1,550	
1,596	
2,000	
2,300	
2,500	
2,600	
2,658	
2,812	
3,012	
3,043	
3,686	
4,000	
4,044	
4,332	
5,700	
5,933	
6,050	
6,085	
6,088	
6,092	
6,098	
6,100	
6,220	



Report Printed: 6/4/2013

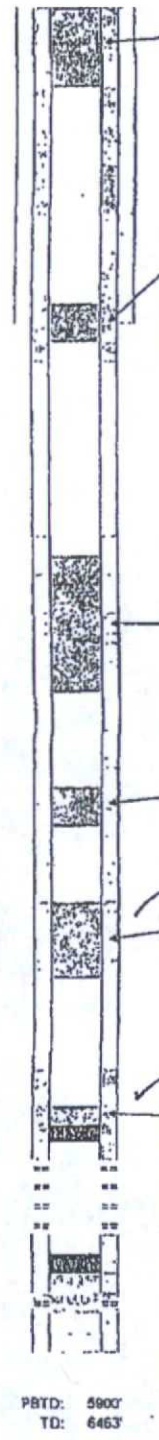
WELLBORE SKETCH

ConocoPhillips Company - Lower 48 - Mid-Continent BU / Permian Operations

Date: Feb. 11, 2011

RKB @ 3984'
DF @ 3963'
GL @ 3953'

Subares : Buckeye
Lease & Well No. : Vacuum Glorieta East Unit, Tract 2 Well No. 8
Legal Description : 1830' FSL & 510' FEL, Sec. 32, T17S, R35E, UL "I"
County : Lea State : New Mexico
Field : Vacuum Glorieta
Date Spudded : 3/5/64 Rig Released: 3/31/64
API Number : 30-025-20709
Status:
Drilled as Humble New Mexico State K No. 18 State Lease No. A-1320



Amended 3478-3648 ECG 3-14-11

RECEIVED
MAR 14 2011
HOBBSOCD

Stimulation History:

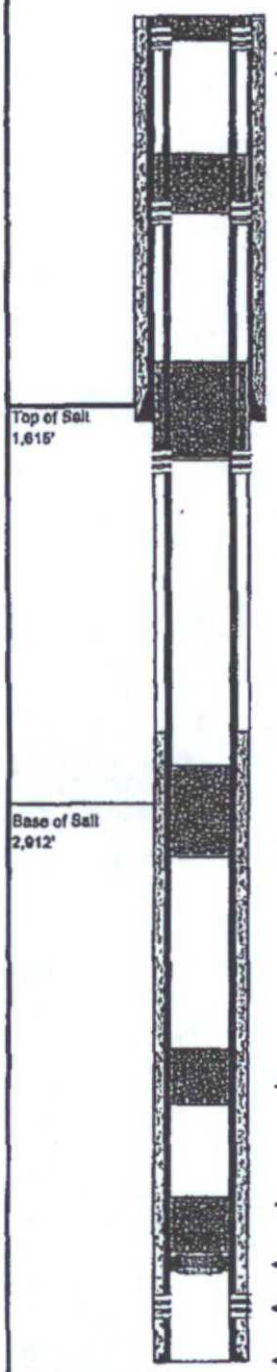
Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	4/3/64	Perforate 6217-6227 w/ 1 SPF						
6217-6227	4/4/64	15% Regular NE Acid	2,000		2000			
	4/6/64	*Set CI Retainer @ 6197'; sqz perfs 6217-6227 w/ 100 sx Incor-Neat cmt*						
	4/7/64	Perforate w/ 1SPF @ 6110-6122						
6110-6122	4/8/64	15% Regular NE Acid	2,000		2000			
6110-6122	4/9/64	15% Regular NE Acid	5,000		3800			
6110-6122	12/14/66	15% NE Acid	3,000		500	Vac	4.3	
	2/14/70	Perforate w/ 1 SPF @ 6064-6082						
	10/20/82	*Set BP @ 3000'; perf holes @ 1650'; set cmt retainer @ 1580'; sqz 500 sx Cl C cmt to surf; pmpd 110 sx into backside of pipe; drill out retainer & cmt; tst sqz 1000 psi, OK*						
6064-6122	10/25/82	15% HCl	2,500	BS	550	Vac	4.5	
6064-6122	11/24/86	15% HCl	2,500					
	12/14/88	*Bad casing @ 5933-6000'; sqz w/ 175 sx cmt*						
	12/20/88	Perforate w/ 1 SPF @ 5985-6064, 6087-6107, 6122-6126, 6129-6135, 6142-6146. Re-perforate w/ 2 SPF @ 6064-6082 & 6110-6122						
5985-6122	12/20/88	15% HCl	15,000	30000# RS	#		300	4.4
	7/30/04	*Set 4-1/2" CIBP @ 5900'; circ pkr fluid, TA'd*						
		Approval of Temporary Abandonment Expires 8/19/2011						
	6/21/10	Unable to get good pressure tests; set down @ 2475'						

Formation Tops:

Rustler	1518'
Tansill	2722'
Yates	2812'
Seven Rivers	3048'
Queen	3595'
Grayburg	4040'
San Andres	4360'
Glorieta	5983'
Paddock	6106'
Blinebry	6408'

ConocoPhillips

Plugged Wellbore — Vacuum Glor E. Unit 14 #01



Field Name:	Vacuum Glorieta		
County:	Lea	Well Type:	Oil
State:	New Mexico	Depth:	6,245
RRC District:		Drilling Commenced:	November 7, 1964
Section:	29	Drilling Completed:	November 20, 1964
Block:		Date Well Plugged:	January 8, 2004
Survey:	T-17-S; R-35-E	Longitude:	
Unit Letter G		Latittude:	
2,323 FNL & 2,213 FEL		Freshwater Depths:	
API #:	30-025-20802		
Lease or ID:	B-1501		

Casing

Description	Size (inches)	Depth (feet)	TOC (feet)	Cement (sacks)	Hole Size (inches)
Surface:	8-5/8"	1,651	Surface	590	12-1/4"
Production:	4-1/2"	6,245	2,500	800	7-7/8"
			by TS		

Existing Plugs

	Description	Top (feet)	Depth (feet)	Volume (sacks)	Volume (cu ft)
1	CIBP, set 12/09/03	6,036	6,038		
2	Cement	5,666	6,036	25	33
3	Cement	4,039	4,409	25	33
4	Cement	2,642	3,012	25	33
5	Cement, perf & sqz, packer	1,485 (tag'd)	1,701	60	79
6	Cement, perf & sqz, packer	235 (tag'd)	400	35	46
7	Cement, perf & sqz	surface	50	20	26

Perforations

Formation	Top (feet)	Depth (feet)	
Glorieta	6,152	6,174	

Formations

Name	Top of Formation	
Top of Salt	1,615	
Base of Salt	2,912	

Comments

CIBP @ 6,036' set 12/09/03

Prepared By:	Jim Newman
Date:	January 12, 2004

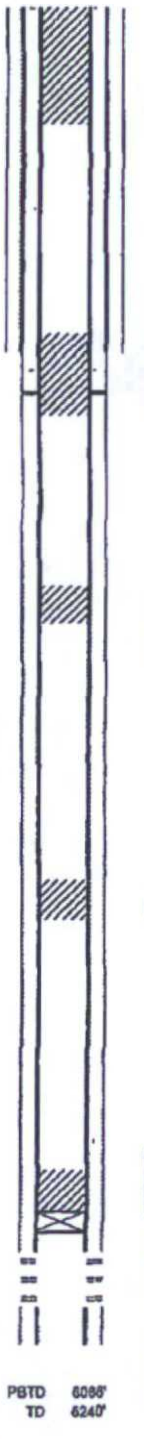
TRIPLE N SERVICES INC. MIDLAND, TX

PLUGGED WELLBORE SKETCH

ConocoPhillips Company -- Permian Basin Business Unit

Date December 15, 2008

RKB @ 3947'
DF @ 3946'
GL @ 3935'



Subarea	Buckeye
Lease & Well No	Vacuum Glorieta East Unit, Tract 26 Well No 1
Legal Description	990' FNL & 330' FWL, Sec 27, T-17-S, R-35-E, UL "D"
County	Lea State New Mexico
Field	Vacuum Glorieta
Date Spudded	6/25/64 Rig Released 7/17/64
API Number	30-025-20883
Status	Plugged 12/11/08

Circulated 40 sx C cmt 400' to surface

Drilled as State 6-27 No. 8 State O&G Lse No. B-1838-1

12¼" hole

8-5/8" 32# & 24# @ 1627'
Cmt'd w/ 1,250 sx lead cmt, TOC 200' by T S
cmt'd to surface w/ 200 sx cmt via 1" tubing
Casing Leak @ 1700' - Sqz'd w/700 sx
Top Salt @ ~ 1776'

25 sx C cmt 1,825 - 1,280' WOC TAGGED

Perforated csg @ 1,775'; unable to establish injection rate

TOC 4-1/2" Csg @ 2780' (T.S)

Base of Salt @ ~2,800'

25 sx C cmt 2,900 - 2,639'

25 sx C cmt 4,342 - 3,981'

Circulated plugging mud

Tagged PBTD @ 6,086'

4-1/2" CIBP @ 6088'

Glorieta
6132' - 6144'
6148' - 6156'
6168' - 6172'

7-7/8" Hole
4-1/2" @ 5# J-55 @ 6237'
Cmt'd w/870 sx cement
TOC @ 2780' (T S)

PBTD 6086'
TD 6240'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
	7/21/64	Perforate 6132'-6172', 1 JSPF (select fire)						
6132-6172	7/23/64	Acid IPF 82 BO, 0 BW	1,000		2700	2200		
6132-6172	12/17/70	15% NE HCl	2,000					
	8/28/81	*Perforate 4 squeeze holes @ 1760'; squeeze w/700 sacks circulate 250 sacks cement to surface.*						
	1/25/94	*Run MIT, held OK*						
	6/8/01	*Set 4-1/2" CIBP @ 6088'*						
		Temporarily Abandon						

BASIC

Plugs set 12/04/08 thru 12/11/08

1) Tagged PBTD @ 6,088, circulated plugging mud
2) *25 sx C cmt 6,086 - 5,725'*
3) 25 sx C cmt 4,342 - 3,981'
4) 25 sx C cmt 2,900 - 2,539'
5) 25 sx C cmt 1,825 - 1,280' WOC TAGGED
6) Circulated 40 sx C cmt 400' to surface

30	396	-434 016
25	330	-361 68
25	6086	5724.32
25	4342	3980.32
25	2900	2638.32

Capacities

4½" 9 50# csg	10 960	ft/ft3	0 0912	ft3/ft
8⅝" 24# csg	2 797	ft/ft3	0 3575	ft3/ft
7⅞" openhole	2 957	ft/ft3	0 3382	ft3/ft
12¼" openhole	1 222	ft/ft3	0 8185	ft3/ft

Formation Tops:

Rustler	1630'
Top Salt	1776'
Yates	2902'
Seven Rivers	3065'
Base Salt	
Queen	3729'
Greyburg	
San Andres	4342'
Glorieta	6001'
Paddock	6132'

VGEU 26-01 WBDs xls

Chris Blanton
12/16/2008

CURRENT SCHEMATIC

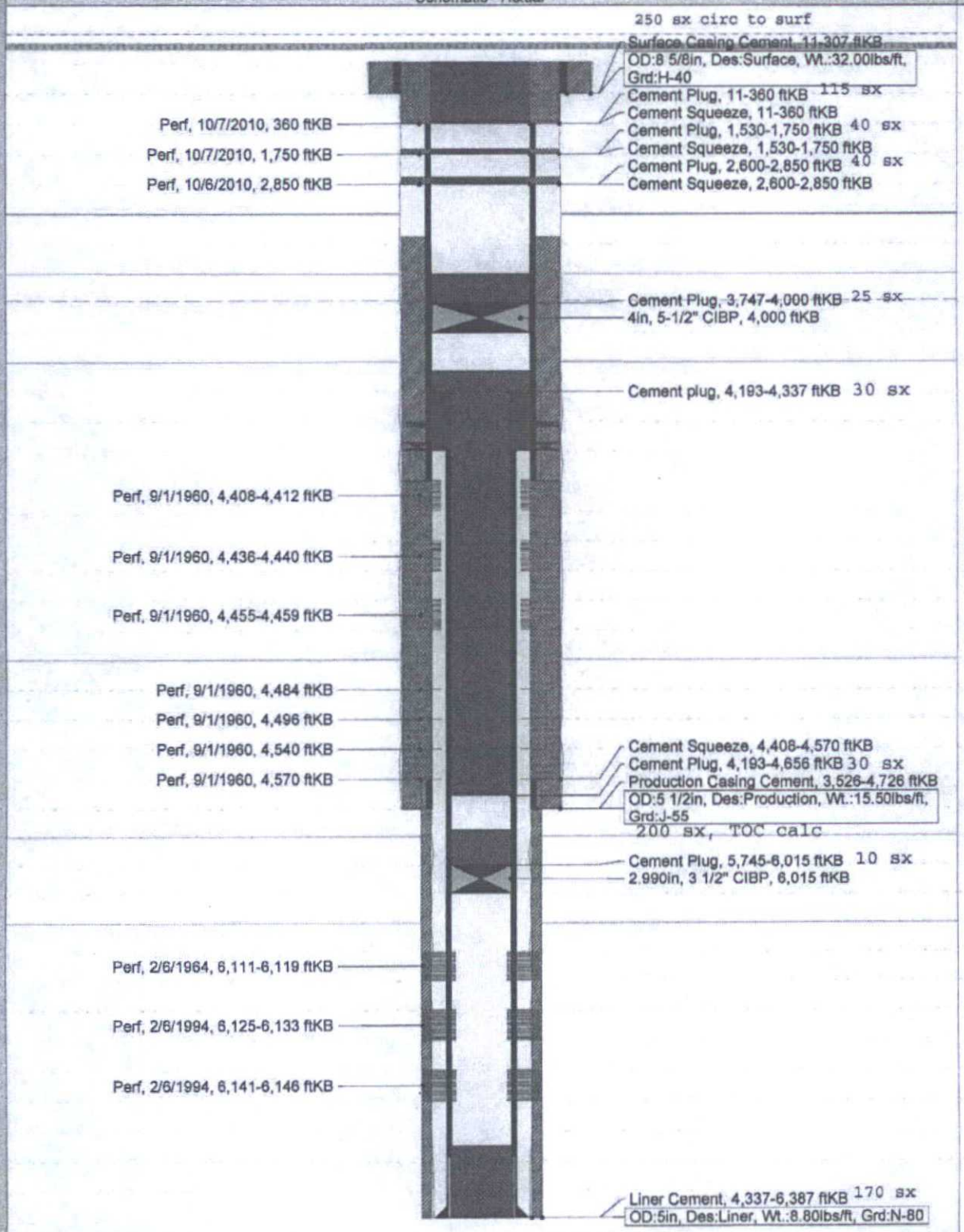
ConocoPhillips

VACUUM GLORIETA EAST UNIT 039-01

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300250293800	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	E/W Dist (ft)	E/W Ref	N/S Dist (ft)	N/S Ref
7/28/1960	Sec. 29, T-17S, R-35E	330.00	W	2,310.00	N

Well Config: VERTICAL - MAIN HOLE, 6/4/2013 4:34:01 PM



Report Printed: 6/4/2013

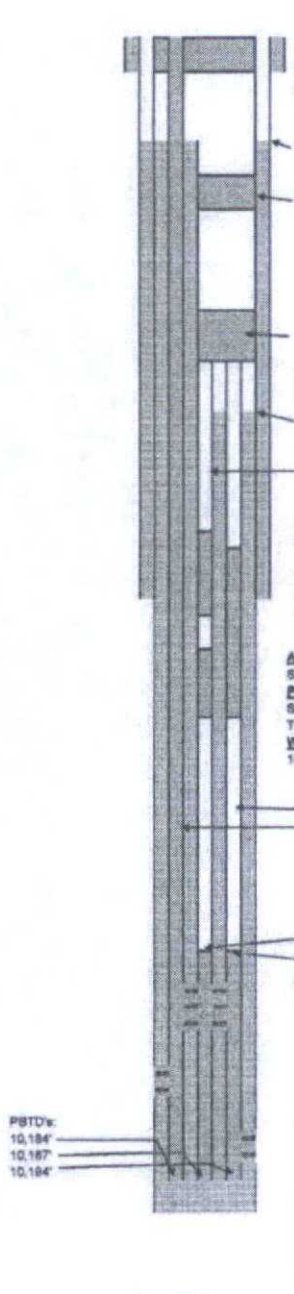
WELLBORE SKETCH

Created using publicly available data from the NM OCD website.

RKB @ 3555'
DF @ 3554'
GL @ 3544'

Date: Feb. 1, 2013

Marathon
Lease & Well No.: Warn State A/C 1 #3
Legal Description: 2060' FNL & 1908 FWL, Sec. 31, T-17-S, R35-E, UL "F"
County: Lea State: New Mexico
Field: N. Vac. Abo/Vac. Upper Penn/Wolfcamp
Date Spudded: 5/4/64 Rig Released:
API Number: 30-025-30748
Status:
State O&G Lse



TD: 10,301'

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down

04/27/82 MI Triple N rig #24 and plugging equipment.

04/29/82 Notified OCD, Paul Kautz. RU cementer on Wolfcamp and pumped 70 bbls, ½ BPM @ 1,400 psi. Final rate 2 BPM @ 800 psi, SI on vacuum. No communication to Abo or Penn strings. RU on Abo string, pumped 60 bbls 3 BPM @ 250 psi, on vacuum. No communication to Wolfcamp or Penn, or 9-5/8". Squeezed 330 sx C cmt down Wolfcamp string, displacing w/ 3 bbls, on vacuum.

04/30/82 RU cementer on Wolfcamp, and pumped 2 bbls, caught pressure, then 1 BPM @ 550 psi, pumped total of 9 bbls. Squeezed 35 sx C cmt down Wolfcamp string, locked up at 1,500 psi. PU 1 jt 1.90" tubing and washed out top of Wolfcamp string. RU on Abo string, loaded hole w/ 40 bbls and pressured up to 1,200 psi, no rate. RU on Penn string, loaded hole w/ 36 bbls and pressured up to 1,200 psi, no rate. RIH w/ wireline on Abo string, tagged PBTD @ 8,230'. RIH w/ wireline on Penn string, tagged PBTD @ 8,350'. Notified OCD, Paul Kautz. NU BOP on Abo casing and RIH w/ 1.90" tubing to 5,901'. RU cementer and pumped 10 sx C cmt 5,901 - 5,494'. POOH w/ tbg to 5,085' and pumped 10 sx C cmt, POOH w/ tbg and SI well, SDFN.

05/01/82 RIH w/ wireline on Abo string, tagged cmt @ 4,521'. RU on Penn casing. RIH w/ 1.90" tubing to 5,901'. RU cementer and pumped 10 sx C cmt 5,901 - 5,494'. POOH w/ tbg and WOC.

05/02/01 E.L. Gonzales w/ OCD on location. Tagged cmt on Penn string @ 4,622'. Switched casings, Penn free @ 2,706', Abo free @ 3,054'. Cut Penn casing @ 2,864', casing free. Cut Abo casing @ 2,804', not free. POOH w/ Penn casing (Penn). Worked Abo casing, not free. Cut Abo casing @ 2,795', POOH. Circulated hole w/ mud and pumped 65 sx C cmt @ 2,795'.

05/03/82 E.L. Gonzales w/ OCD on location. Tagged cmt @ 2,594'. Finished circulating hole w/ mud and POOH to 1,550', pumped 65 sx C cmt 1,550 - 1,358' per EL Gonzales, no need to tag. Pumped 150 sx C cmt 410' to surface. RDMO.

05/14/82 Cut off wellhead and installed dry hole marker, cut off anchors, back-filled cellar and pit.

Formation Tops:

Top Salt	2500'		
Yates	2793'	Paddock	6018'
Seven Rivers	3496'	Blinebry	6583'
Queen	3702'	Abo	7977'
Grayburg	4049'	Wolfcamp	9371'
San Andres	4340'	Lwr Wolfcamp	9965'
Glorieta	5699'	Penn	10,069'

WELLBORE SKETCH
Created using publicly available data from the NMOCD website

RKB @ 3991'
DF @ 3990'
GL @ 3979'

Lease & Well No.: Central Vacuum Unit #060
Legal Description: 1310' FNL & 2535' FWL, Sec. 31, T17S, R35E, Unit Letter C
County: Lea State: New Mexico
Field: Vacuum (Grayburg-San Andres)
Date Spudded: 11/30/77
API Number: 30-025-25707
Status: P&A'd 2/25/2005

12-1/4" Hole

8-5/8" 24#, K-55 @ 386'
Cmt'd w/400 sx, circ to surface
TOC @ Surface

Csg Leak 511' - 1200' -- Sqz'd

Pmp 108 sx 1314'-surface

Pmp 40 sx 2265'-2600'

Pmp 20 sx 3445'-3745'

Top of plug @ 4013'

Top of fish @ 4048' 2-3/8" Duo-Line Tbg, pl 4048-4548 (500 ft)

Perfs
4396' - 4712'

7-7/8" Hole
4-1/2" 10.6# K-55 @ 4800'
Cmt'd w/2270 sx circ to surface

PBTD: 4740'
TD: 4800'

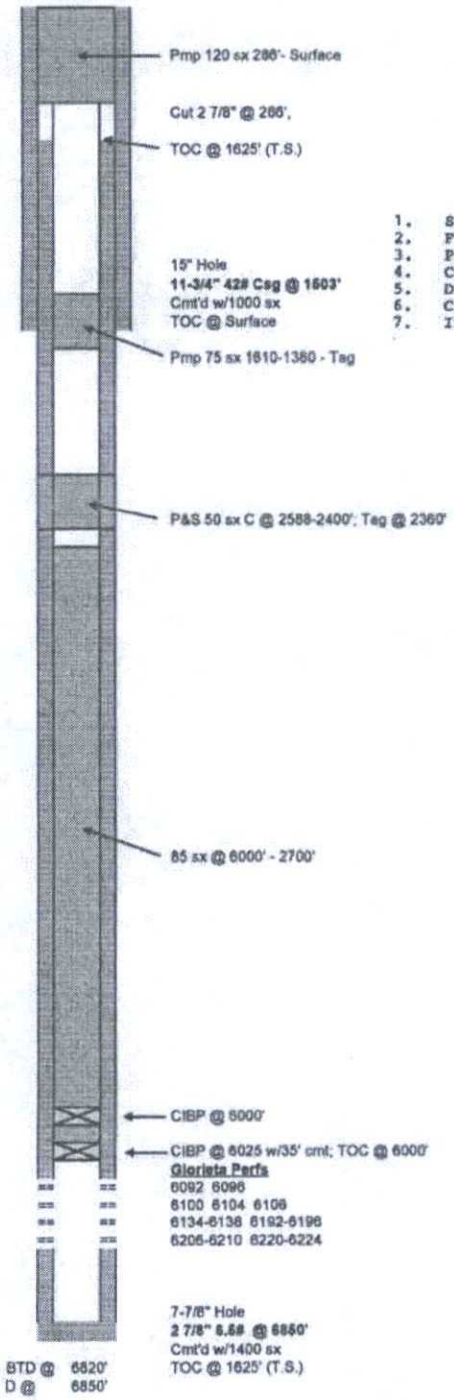
Formation Tops:
Grayburg 4170'
San Andres 4356'

WELLBORE SKETCH
Created using publicly available data from the NM OCD website.

Feb. 1, 2013

RKB @
DF @ 3984.0'
GL @

Texaco Exploration & Production Inc
Lease & Well No. : Vacuum Glorieta West Unit 119
Legal Description : 330' FNL & 660' FEL, Sec. 6, T-18-S, R-35-E
County : Lea State : New Mexico
Field : Vacuum (Glorieta)
Date Spudded : 9/11/64 Rig Released: 9/29/64
API Number : 30-025-21108
Status: P&A'd 8/14/2000



1. Set 2 7/8" CIBP @ 6000'
2. Fill 2 7/8" csg w/cmt 6000'-2700' w/85 sx
3. Perf 6 holes @ 2588', squeeze w/50 sx cmt 2588'-2400' Tag @ 2360'
4. Cut @ 1610' unable to pull squeeze w/75 sx Tag @ 1380'
5. Displace hole w/salt gel mud 9.5# brine w/25# of gel per BBL
6. Cut 2 7/8" csg @ 286' circ cmt 286' to surf w/ 120 sx cmt
7. Install dry hole marker - 8/14/00

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 01919 POD2		L	LE	1	1	2	29	17S	35E	642410	3631507*	209	55	154
L 03873		L	LE	3	2	1	31	17S	35E	640421	3629674*	230	88	142
L 03874		L	LE	3	1	2	31	17S	35E	640823	3629678*	229	90	139
L 03875		L	LE	3	3	4	30	17S	35E	640818	3630082*	147		
L 03875 POD6		L	LE		3	4	30	17S	35E	640919	3630183*	140	104	36
L 03875 POD7		L	LE		3	4	30	17S	35E	640919	3630183*	140	104	36
L 03875 POD8		L	LE		3	4	30	17S	35E	640919	3630183*	140	104	36
L 03875 S	R	L	LE		3	4	30	17S	35E	640919	3630183*	120	96	24
L 03875 S2	R	L	LE			2	31	17S	35E	641131	3629576*	120	95	25
L 03875 S3	R	L	LE		3	4	30	17S	35E	640919	3630183*	120	95	25
L 03875 S4		L	LE			2	31	17S	35E	641131	3629576*	120		
L 03876		L	LE	3	3	4	30	17S	35E	640818	3630082*	141		
L 03992		L	LE	3	2	2	28	17S	35E	644426	3631327*	125	65	60
L 04066		L	LE		4	2	30	17S	35E	641309	3630994*	116	70	46
L 04247 POD5		L	LE		1	3	31	17S	35E	640156	3628964*	235	95	140
L 04247 POD6		L	LE	2	1	3	31	17S	35E	640255	3629063*	232	117	115
L 04247 POD7		L	LE	3	3	1	31	17S	35E	640049	3628750		240	
L 04490		L	LE		4	2	30	17S	35E	641309	3630994*	110	70	40
L 04578		L	LE				33	17S	35E	643962	3629198*	126	60	66
L 04586		L	LE	3	3	4	33	17S	35E	644065	3628502*	125	50	75
L 04633		L	LE		2	4	33	17S	35E	644564	3629010*	130	65	65
L 04829 S		L	LE		3	4	32	17S	35E	642554	3628586*	198	85	113
L 04829 S3		L	LE	1	3	1	28	17S	35E	643222	3631111*	215	70	145
L 04829 S4		L	LE		2	3	29	17S	35E	642121	3630598*	200	90	110
L 04829 S5		L	LE		3	1	33	17S	35E	643347	3629400*	220	90	130
L 04880		L	LE		2	3	33	17S	35E	643757	3629002*	145	90	55

***UTM location was derived from PLSS - see Help**

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	Code	POD Sub-basin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 05362		L	LE	3	4	4	28	17S	35E	644444	3630117*	140	80	60
L 05392		L	LE		1	3	30	17S	35E	640132	3630579*	145	80	65
L 05744		L	LE	3	3	2	30	17S	35E	640806	3630889*	122	75	47
L 05834	R	L	LE	2	2	4	33	17S	35E	644663	3629109*	160	70	90
L 05834 POD5		L	LE	2	2	4	33	17S	35E	644663	3629109*	234	65	169
L 06357 S		L	LE		1	1	30	17S	35E	640119	3631386*	163	85	78
L 06357 S2		L	LE	3	1	1	30	17S	35E	640018	3631285*	230	130	100
L 07481		L	LE		3	3	30	17S	35E	640138	3630176*	145	105	40
L 07481 S		L	LE		3	3	30	17S	35E	640138	3630176*	200	80	120
L 07481 S	R	L	LE		3	3	30	17S	35E	640138	3630176*	200	80	120
L 13804 POD1		L	LE	2	2	1	31	17S	35E	640572	3629790	157	157	0
L 13804 POD2		L	LE	2	2	1	31	17S	35E	640532	3629826	130	115	15

Average Depth to Water: **91 feet**

Minimum Depth: **50 feet**

Maximum Depth: **240 feet**

Record Count: 38

PLSS Search:

Section(s): 28-33 Township: 17S Range: 35E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Sub-basin	Code	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02348	L		LE				06	18S	35E	640791	3627548*	215	105	110
L 04206	L		LE		3	4	04	18S	35E	644194	3626992*	125	50	75
L 04250	L		LE				05	18S	35E	642378	3627565*	112	60	52
L 04498	L		LE		3	1	04	18S	35E	643373	3627790*	128	70	58
L 04591	L		LE		4	2	05	18S	35E	642970	3627785*	130	75	55
L 04631	L		LE	2	1	1	04	18S	35E	643465	3628292*	140	60	80
L 04664	L		LE		2	3	05	18S	35E	642171	3627371*	140	70	70
L 04796	L		LE	4	4	3	06	18S	35E	640667	3626847*	150	95	55
L 04931	L		LE		1	2	05	18S	35E	642561	3628183*	237	70	167
L 05411	L		LE		3	4	06	18S	35E	640970	3626952*	120	60	60
L 05523	L		LE	3	3	2	06	18S	35E	640855	3627660*	147	85	62
L 07119	L		LE	1	1	1	06	18S	35E	640068	3628255*	233	95	138
L 07119 S	L		LE	1	2	1	06	18S	35E	640445	3628259*	233	95	138
L 10337	L		LE	4	1	1	06	18S	35E	640268	3628055*	190	100	90
L 13041 POD1	L		LE		2	2	06	18S	35E	641152	3628026	130		
L 13041 POD2	L		LE		2	2	06	18S	35E	641152	3628026	140		
L 13041 POD3	L		LE		2	2	06	18S	35E	641152	3628026	140		
L 13041 POD4	L		LE		2	2	06	18S	35E	641152	3628026	140		

Average Depth to Water: **77 feet**

Minimum Depth: **50 feet**

Maximum Depth: **105 feet**

Record Count: 18

PLSS Search:

Section(s): 4-6 Township: 18S Range: 35E

***UTM location was derived from PLSS - see Help**

New Mexico Office of the State Engineer
Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced, O=orphaned, C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)
(quarters are smallest to largest)

(NAD83 UTM in meters)

(In feet)

POD Number	POD Code	Sub-basin	County	Q 64	Q 16	Q 4	Sec	Twn	Rng	X	Y	Depth Well	Depth Water	Water Column
L 02217		L	LE	2	4		25	17S	34E	639730	3630571*	120	75	45
L 02308		L	LE		4	4	25	17S	34E	639736	3630168*	130	76	54
L 02724 S4		L	LE	3	3	3	36	17S	34E	638451	3628429*	230	140	90
L 04520		L	LE	3	1	2	25	17S	34E	639215	3631268*	180		
L 05003		L	LE			1	36	17S	34E	638742	3629538*	135	105	30
L 05025		L	LE		3	3	25	17S	34E	638530	3630143*	157	95	62
L 05106		L	LE		1	3	25	17S	34E	638524	3630547*	150	95	55
L 05288		L	LE		4	4	36	17S	34E	639760	3628552*	231	90	141
L 05288	R	L	LE		4	4	36	17S	34E	639760	3628552*	231	90	141
L 05843		L	LE			3	36	17S	34E	638753	3628731*		240	
L 06030		L	LE		3	3	36	17S	34E	638552	3628530*	230	102	128

Average Depth to Water: **110 feet**

Minimum Depth: **75 feet**

Maximum Depth: **240 feet**

Record Count: 11

PLSS Search:

Section(s): 25, 36 Township: 17S Range: 34E

***UTM location was derived from PLSS - see Help**

I/N

C-108 Review Checklist: Received 11/01/2015 Add. Request: ______ Reply Date: ______ Suspended: ______ [Ver 15]

ORDER TYPE: (WFX) / PMX / SWD Number: ______ Order Date: 7-10-2013 Legacy Permits/Orders: R-10020-B

Well No. 21 Well Name(s): Vacuum Glorieta East unit

API: 30-0 25-37851 Spud Date: 4/17/2007 New or Old: N (*UIC Class II Primacy 03/07/1982*)

Footages 1353FNL 2260FEL Lot ___ or Unit G Sec 32 Tsp 17S Rge 35E County Lea

General Location: 5 miles South/ Maljamar Pool: Vacuum; Glorieta Pool No.: 62160

BLM 100K Map: Hobbs Operator: Conoco Phillips OGRID: 217817 Contact: Susan Maunder

COMPLIANCE RULE 5.9: Total Wells: 4545 Inactive: 4 Fincl Assur: Y Compl. Order? N/A **IS 5.9 OK?** Y Date: 12-1-2015

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or **RE-ENTER:** Before Conv. ◯ After Conv. ◉ Logs in Imaging: Y

Planned Rehab Work to Well: * R-10020-B allows for unitized interval from 5923-6415 Base Glor→base of Paddock

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __**Surface**	17½/13⅜	80	Stage Tool	1200	Surface/Visual
Planned__or Existing __ **Interm/Prod**	12¼/8⅝	1595		1200	Surface/Visual
Planned__or Existing __**Interm/Prod**	7⅞/5½	6325		500	Surface/Visual
Planned__or Existing __ **Prod/Liner**					
Planned__or Existing __ **Liner**					
Planned__or (Existing) __ * **OH** / (**PERF**)	6088 thru [illegible]4		Inj Length 492		

Injection Lithostratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops
Adjacent Unit: Litho. Struc. Por.			
Confining Unit: Litho. Struc. Por.			
Proposed Inj Interval TOP:			
Proposed Inj Interval BOTTOM:			
Confining Unit: Litho. Struc. Por.			
Adjacent Unit: Litho. Struc. Por.			

Completion/Operation Details:

Drilled TD 6345 PBTD 6328

NEW TD ______ NEW PBTD ______

NEW Open Hole ◯ or NEW Perfs ◯

Tubing Size 2⅞ in. Inter Coated? Y

Proposed Packer Depth 6035 ft

Min. Packer Depth 5823 (100-ft limit) *

Proposed Max. Surface Press. 1200 psi

Admin. Inj. Press. 1181 (0.2 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P N/A Noticed? ___ **BLM Sec Ord** ◯ **WIPP** ◯ *Noticed?* ___ **Salt/Salado** T: ___ B: ___ **NW: Cliff House fm** ___

FRESH WATER: Aquifer Quaternary Max Depth 240 **HYDRO AFFIRM STATEMENT By Qualified Person** ◯

NMOSE Basin: Lea **CAPITAN REEF:** thru adj (NA) **No. Wells within 1-Mile Radius?** ___ FW Analysis

Disposal Fluid: Formation Source(s) Produced water Analysis? Y On Lease ◯ Operator Only ◯ or Commercial ◉

Disposal Int: Inject Rate (Avg/Max BWPD): 2500/3000 Protectable Waters? ___ Source: ___ System: Closed or Open

HC Potential: Producing Interval? Y Formerly Producing? ___ Method: Logs/DST/P&A/Other ___ 2-Mile Radius Pool Map ◯

AOR Wells: 1/2-M Radius Map? Y Well List? ✓ June 6, 2013 →162 wells Total No. Wells Penetrating Interval: ___ Horizontals? ___

Penetrating Wells: No. Active Wells 30 ✓ Num Repairs? ___ on which well(s)? ___ Diagrams? ___

June 6, 2013 20 P&A

Penetrating Wells: No. P&A Wells 4 ✓ Num Repairs? ___ on which well(s)? ___ Diagrams? ___

NOTICE: Newspaper Date 10-28-2015 Mineral Owner NMSLO Surface Owner NMSLO N. Date 11/03

RULE 26.7(A): Identified Tracts? ___ Affected Persons: Marathon, Apache, Cross Timbers, N. Date 10/29

Order Conditions: Issues: Change in AOR for VGEU 19-34

Add Order Cond: ______

II /

C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: ________ **SUPPLEMENTAL PAGE** ____ **of** ____

Relevant Hearing Order(s): ____________

MULTIPLE WELL APPLICATION: 2 **of** 11 **Well No.** 22 **Well Name(s):** UGEU Tract 2

API : 30-0 25-37852 Spud Date: 4/2/2007 New or Old: N (*UIC Class II Primacy 03/07/1982*)

Footages 1353FNL 2260FEL Lot___ or Unit G Sec 32 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ○ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ○ or RE-ENTER: Before Conv. ○ After Conv. ○ Logs in Imaging: Y

Planned Rehab Work to Well: ____________

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing _Surface	17½/13⅜	48	Stage Tool	200	Surface/Visual
Planned__or Existing __ Interm/Prod	12¼/8⅝	1610		850	
Planned__or Existing __Interm/Prod	7⅞/5½	6339		1652	
Planned__or Existing __ Prod/Liner					
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5924-6413		Inj Length 489	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6350 PBTD 6297 NEW TD ______ NEW PBTD ______

NEW Open Hole ○ or NEW Perfs ✓ Tubing Size 2⅜ in. Coated? Y Prop. Packer Depth 6009 ft Min. Depth 5932 (100-ft limit)

Proposed Max. Surface Press. 1200 **psi Admin. Inj. Press.** 1181 **(0.2 psi per ft) ANY AREA IPI APPROVAL:** ______

Specific Requirement(s) for Well: ____________

MULTIPLE WELL APPLICATION: 3 **of** 11 **Well No.** 5 **Well Name(s):** UGEU Tract 5

API : 30-0 25-20829 Spud Date: 6-7-64 New or Old: O (*UIC Class II Primacy 03/07/1982*)

Footages 460FSL 1980FEL Lot___ or Unit O Sec 29 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ○ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ○ or RE-ENTER: Before Conv. ○ After Conv. ✓ Logs in Imaging: Y

Planned Rehab Work to Well: ____________

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing _Surface	10¾/8⅝	1632	Stage Tool	800	Surface/Visual
Planned__or Existing __ Interm/Prod	6⅝/4½	6301		880	Surface/Visual
Planned__or Existing __Interm/Prod		6309			3000
Planned__or Existing __ Prod/Liner		2815			Surface
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5959/6441		Inj Length 482	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6309 PBTD 6100 NEW TD ______ NEW PBTD ______

NEW Open Hole ○ or NEW Perfs ✓ Tubing Size 2⅜ in. Coated? Y Prop. Packer Depth 5943 ft Min. Depth 5893 (100-ft limit)

Proposed Max. Surface Press. 1200 **psi Admin. Inj. Press.** 1181 **(0.2 psi per ft) ANY AREA IPI APPROVAL:** ______

Specific Requirement(s) for Well: ____________

III

C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: ________ **SUPPLEMENTAL PAGE** ____ of ____

Relevant Hearing Order(s): ____________________

MULTIPLE WELL APPLICATION: 3 of 11 **Well No.** 2 **Well Name(s):** VGEU TRACT 17

API : 30-0 25-20864 Spud Date: 11-5-64 New or Old: O (*UIC Class II Primacy 03/07/1982*)

Footages 2080 FSL 660 FEL Lot____ or Unit I Sec 31 Tsp 17S Rge 35E County Lee

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◉ Logs in Imaging: Y

Planned Rehab Work to Well: ____________________

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __Surface	12 1/4 / 8 5/8	1572		400	Surface / Visual
Planned__or Existing __ Interm/Prod	7 7/8 / 5 1/2	1680 ~~6300~~ 6300		1800	1680 / TS
Planned__or Existing __Interm/Prod		1680		3000	1680
Planned__or Existing __ Prod/Liner		1680			Surface
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5936/6389		Inj Length 453	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6300 PBTD 6251 NEW TD ________ NEW PBTD ________

NEW Open Hole ◯ or NEW Perfs ◉ Tubing Size 2 3/8 in. Coated? Y Prop. Packer Depth 6025 ft Min. Depth ______ (100-ft limit)

Proposed Max. Surface Press. 1200 **psi Admin. Inj. Press.** 1181 **(0.2 psi per ft) ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: ____________________

MULTIPLE WELL APPLICATION: 4 of 11 **Well No.** 34 **Well Name(s):** VGEU TRACT 15

API : 30-0 25-40738 Spud Date: 12/13/12 New or Old: N (*UIC Class II Primacy 03/07/1982*)

Footages 2150 FSL 2333 FWL Lot____ or Unit K Sec 32 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◉ Logs in Imaging: ____

Planned Rehab Work to Well: ____________________

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __Surface	12 1/4 / 8 5/8	1528		900	Surface / Visual
Planned__or Existing __ Interm/Prod	7 7/8 / 5 1/2	6415		1850	Surface / Visual
Planned__or Existing __Interm/Prod					
Planned__or Existing __ Prod/Liner					
Planned__or Existing __ Liner					
Planned__or Existing __ OH / PERF	5465/6398		Inj Length 933	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6415 PBTD 6386 NEW TD ________ NEW PBTD ________

NEW Open Hole ◯ or NEW Perfs ◉ Tubing Size 2 7/8 in. Coated? Y Prop. Packer Depth ______ ft Min. Depth ______ (100-ft limit)

Proposed Max. Surface Press. 1200 **psi Admin. Inj. Press.** 1181 **(0.2 psi per ft) ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: ____________________

C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: _____ **SUPPLEMENTAL PAGE** ____ of ____

Relevant Hearing Order(s): _____

MULTIPLE WELL APPLICATION: 6 of 11 **Well No.** 2 **Well Name(s):** VGEU TRACT 25

API : 30-0 25-20886 Spud Date: 8-24-64 New or Old: O (*UIC Class II Primacy 03/07/1982*)

Footages 760 FNL 1480 FWL Lot ___ or Unit C Sec 32 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ✓ Logs in Imaging: W

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	12 1/4 / 8 5/8	1600		1050	Surface/Visual
Planned __or Existing __ **Interm/Prod**	7 7/8 / 4 1/2	6250		890	2250 / TS
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Prod/Liner**					
Planned __or Existing __ **Liner**					
Planned __or Existing __ **OH / PERF**	5945 / 6413		Inj Length	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6250 PBTD 6209 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯ Tubing Size 2 3/4 in. Coated? Y Prop. Packer Depth 6064 ft Min. Depth 5845 (100-ft limit)

Proposed Max. Surface Press. 1200 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** _____

Specific Requirement(s) for Well: _____

MULTIPLE WELL APPLICATION: 7 of 11 **Well No.** 32 **Well Name(s):** VGEU TRACT 25

API : 30-0 25-40737 Spud Date: 12/22/2012 New or Old: N (*UIC Class II Primacy 03/07/1982*)

Footages 1645 FNL 723 FWL Lot ___ or Unit E Sec 32 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◯ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ **Surface**	12 1/4 / 8 5/8	1584		900	Surface/Visual
Planned __or Existing __ **Interm/Prod**	7 7/8 / 5 1/2	6400		1770	Surface/Visual
Planned __or Existing __ **Interm/Prod**					
Planned __or Existing __ **Prod/Liner**					
Planned __or Existing __ **Liner**					
Planned __or Existing __ **OH / PERF**	5926-6405		Inj Length 479	*Hydrologic Information and AOR Well Summary on Coversheet*	

Completion/Operation Details: Drilled TD 6400 PBTD 6336 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ✓ Tubing Size ___ in. Coated? ___ Prop. Packer Depth _____ ft Min. Depth _____ (100-ft limit)

Proposed Max. Surface Press. 1200 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** R-10026-B

Specific Requirement(s) for Well: _____

C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: _____ **SUPPLEMENTAL PAGE** ____ of ____

Relevant Hearing Order(s): _____

MULTIPLE WELL APPLICATION: 8 of 11 **Well No.** 3 **Well Name(s):** V-G-E-G TRACT 37

API : 30-0 25-20290 Spud Date: 1-14-64 New or Old: O (UIC Class II Primacy 03/07/1982)

Footages 2310 FNL 1980 FEL Lot ___ or Unit G Sec 31 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◯ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ Surface	11"/ 8 5/8	1557		660	Surface/circ
Planned __or Existing __ Interm/Prod	7 7/8/5 1/2	6400		750	2735/TS
Planned __or Existing __ Interm/Prod		2810		2150	2680/2641
Planned __or Existing __ Prod/Liner					Perf & Surface
Planned __or Existing __ Liner					
Planned __or Existing __ OH / PERF	5854-6314		Inj Length 459	Hydrologic Information and AOR Well Summary on Coversheet	

Completion/Operation Details: Drilled TD 6400 PBTD 6210 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯ Tubing Size 2 3/8 in. Coated? Y Prop. Packer Depth _____ ft Min. Depth _____ (100-ft limit)

Proposed Max. Surface Press. 120 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: _____

MULTIPLE WELL APPLICATION: 9 of 11 **Well No.** 31 **Well Name(s):** V-G-E-G TRACT 37

API : 30-0 25-40736 Spud Date: 12/31/12 New or Old: N (UIC Class II Primacy 03/07/1982)

Footages 964 FNL 153 FEL Lot ___ or Unit A Sec 31 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◯ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __ Surface	12 1/4/8 5/8	1603		900	Surface/circ
Planned __or Existing __ Interm/Prod	7 7/8/5 1/2	6463		1470	Surface/circ
Planned __or Existing __ Interm/Prod					
Planned __or Existing __ Prod/Liner					
Planned __or Existing __ Liner					
Planned __or Existing __ OH / PERF	5914-6354		Inj Length 476	Hydrologic Information and AOR Well Summary on Coversheet	

Completion/Operation Details: Drilled TD 6433 PBTD 6366 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯ Tubing Size 2 3/8 in. Coated? Y Prop. Packer Depth 5818 ft Min. Depth 5818 (100-ft limit)

Proposed Max. Surface Press. 1200 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: _____

VI

C-108 Review Checklist: Area Order

Supplemental Checklist for Multiple Well Application

ORDER TYPE: WFX / PMX Number: _____ **SUPPLEMENTAL PAGE** ____ of ____

Relevant Hearing Order(s): _____

MULTIPLE WELL APPLICATION: 10 of 11 **Well No.** 3 **Well Name(s):** VGEU TRACT 38

API : 30-0 25-32368 Spud Date: 3-11-94 New or Old: N (*UIC Class II Primacy 03/07/1982*)

Footages 1130 FSL 1485 FWL Lot ___ or Unit N Sec 29 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◯ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __Surface	12¼/8⅝	1627		850	Surface/Visual
Planned__or Existing __Interm/Prod	7⅞/5½	6800		1430	Surface/Visual
Planned__or Existing __Interm/Prod					
Planned__or Existing __Prod/Liner					
Planned__or Existing __Liner					
Planned__or Existing __OH / PERF	5430/6407		Inj Length 477		*Hydrologic Information and AOR Well Summary on Coversheet*

Completion/Operation Details: Drilled TD 6300 PBTD 6248 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ✓ Tubing Size 2 IPC in. Coated? Y Prop. Packer Depth _____ ft Min. Depth _____ (100-ft limit)

Proposed Max. Surface Press. 1200 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: _____

MULTIPLE WELL APPLICATION: 11 of 11 **Well No.** 34 **Well Name(s):** VGEU TRACT 19

API : 30-0 25-40738 Spud Date: _____ New or Old: _____ (*UIC Class II Primacy 03/07/1982*)

Footages 2150 FSL 2233 FWL Lot ___ or Unit K Sec 32 Tsp 17S Rge 35E County Lea

WELL FILE REVIEWED ◯ Current Status: Injector

WELL DIAGRAMS: NEW: Proposed ◯ or RE-ENTER: Before Conv. ◯ After Conv. ◯ Logs in Imaging: Y

Planned Rehab Work to Well: _____

Well Construction Details	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned __or Existing __Surface	12¼/8⅝	1545		900	Surface/Visual
Planned__or Existing __Interm/Prod	7⅞/5½	6396	1649	1850	Surface/Visual
Planned__or Existing __Interm/Prod					
Planned__or Existing __Prod/Liner					
Planned__or Existing __Liner					
Planned__or Existing __OH / PERF	5965/6348		Inj Length 383		*Hydrologic Information and AOR Well Summary on Coversheet*

Completion/Operation Details: Drilled TD 6415 PBTD 6252 NEW TD _____ NEW PBTD _____

NEW Open Hole ◯ or NEW Perfs ◯ Tubing Size 2 IPC in. Coated? Y Prop. Packer Depth _____ ft Min. Depth _____ (100-ft limit)

Proposed Max. Surface Press. 1200 psi **Admin. Inj. Press.** 1181 (0.2 psi per ft) **ANY AREA IPI APPROVAL:** R-10020-B

Specific Requirement(s) for Well: _____

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. 10845
ORDER NO. R-10017

APPLICATION OF PHILLIPS PETROLEUM COMPANY FOR A UNIT AGREEMENT, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This cause came on for hearing at 8:15 a.m. on October 7, 1993, at Santa Fe, New Mexico, before Examiner David R. Catanach.

NOW, on this 16th day of November, 1993, the Division Director, having considered the testimony, the record and the recommendations of the Examiner, and being fully advised in the premises,

FINDS THAT:

(1) Due public notice having been given as required by law, the Division has jurisdiction of this cause and the subject matter thereof.

(2) Division Case Nos. 10845 and 10846 were consolidated at the time of the hearing for the purpose of testimony.

(3) The applicant, Phillips Petroleum Company, seeks approval of the Vacuum Glorieta East Unit Agreement for an area comprising some 4,239.80 acres, more or less, of State lands in Lea County, New Mexico, described as follows and hereinafter referred to as the "Unit Area":

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 26: N/2 NW/4, SW/4 NW/4, NW/4 SW/4
Section 27: All
Section 28: E/2, SW/4, S/2 NW/4, NE/4 NW/4
Section 29: S/2, S/2 N/2
Section 30: SE/4, S/2 NE/4, E/2 SW/4, SE/4 NW/4
Section 31: E/2, E/2 W/2
Section 32: All
Section 33: N/2, N/2 S/2, SW/4 SW/4
Section 34: W/2 NW/4, NE/4 NW/4, NW/4 SW/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 5: N/2 N/2 (Lots 1, 2, 3 and 4), SW/4 NW/4

(4) Within the Vacuum Glorieta East Unit, the applicant proposes to initiate secondary recovery operations in the Vacuum-Glorieta Pool (being the subject of companion Case No. 10846).

(5) The "Unitized Formation", as described within the Vacuum Glorieta East Unit Agreement, should comprise the stratigraphic interval underlying the Unit Area found between the top of the Glorieta formation to the base of the Paddock formation in the Vacuum-Glorieta Pool. The top of the Glorieta formation for unitization purposes is defined as all points underlying the Unit Area correlative to the depth of 5,838 feet and the base of the Paddock Formation is defined as all points underlying the Unit Area correlative to the depth of 6,235 feet, both depths as identified on the Schlumberger Sonic Log for the Socony Mobil Bridges State Well No 95, located in the SE/4 SE/4 (Unit P) of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(6) Applicant has obtained preliminary approval of the Vacuum Glorieta East Unit from the Commissioner of Public Lands for the State of New Mexico.

(7) No interested party appeared and objected to the proposed unit agreement.

(8) All plans of development and operation, and creations, expansions or contractions of participating areas, or expansions or contractions of the Unit Area should be submitted to the Director of the Division for approval.

(9) Approval of the proposed unit agreement should promote the prevention of waste and protection of correlative rights within the Unit Area.

IT IS THEREFORE ORDERED THAT:

(1) The application of Phillips Petroleum Company for approval of the Vacuum Glorieta East Unit Agreement and Unit Area, comprising some 4,239.80 acres, more or less, of State lands in Lea County, New Mexico, and described as follows, for the purpose of initiating a secondary recovery project, is hereby approved.

TOWNSHIP 17 SOUTH, RANGE 35 EAST, NMPM
Section 26: N/2 NW/4, SW/4 NW/4, NW/4 SW/4
Section 27: All
Section 28: E/2, SW/4, S/2 NW/4, NE/4 NW/4
Section 29: S/2, S/2 N/2
Section 30: SE/4, S/2 NE/4, E/2 SW/4, SE/4 NW/4

Section 31: E/2, E/2 W/2
Section 32: All
Section 33: N/2, N/2 S/2, SW/4 SW/4
Section 34: W/2 NW/4, NE/4 NW/4, NW/4 SW/4

TOWNSHIP 18 SOUTH, RANGE 35 EAST, NMPM
Section 5: N/2 N/2 (Lots 1, 2, 3 and 4), SW/4 NW/4

(2) The "Unitized Formation" shall comprise the stratigraphic interval underlying the Unit Area found between the top of the Glorieta formation to the base of the Paddock formation in the Vacuum-Glorieta Pool. The top of the Glorieta formation for unitization purposes is defined as all points underlying the Unit Area correlative to the depth of 5,838 feet and the base of the Paddock Formation is defined as all points underlying the Unit Area correlative to the depth of 6,235 feet, both depths as identified on the Schlumberger Sonic Log for the Socony Mobil Bridges State Well No 95, located in the SE/4 SE/4 (Unit P) of Section 26, Township 17 South, Range 34 East, NMPM, Lea County, New Mexico.

(3) The Vacuum Glorieta East Unit Agreement and the Vacuum Glorieta East Unit Operating Agreement, which were submitted to the Division at the time of the hearing and made a part of the record in this case, are hereby incorporated by reference into this order.

(4) The plan contained in said unit agreement for the development and operation of the unit area is hereby approved in principle as a proper conservation measure; provided however, notwithstanding any of the provisions contained in said unit agreement, this approval shall not be considered as waiving or relinquishing, in any manner, any right, duty or obligation which is now, or may hereafter be, vested in the Division to supervise and control operations for the unit and production of oil and gas therefrom.

(5) The unit operator shall file with the Division an executed original or executed counterpart of the unit agreement within 30 days after the effective date thereof; in the event of subsequent joinder by any other party or expansion or contraction of the unit area, the unit operator shall file with the Division, within 30 days thereafter, counterparts of the unit agreement reflecting the subscription of those interests having joined or ratified.

(6) All plans of development and operation, all unit participating areas and expansions or contractions of the unit area, shall be submitted to the Director of the Oil Conservation Division for approval.

(7) This order shall become effective upon the approval of said unit agreement by the Commissioner of Public Lands for the State of New Mexico; this order shall terminate ipso facto upon the termination of said unit agreement; and the last unit operator shall notify the Division immediately in writing of such termination.

(8) Jurisdiction of this cause 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

for William J. LeMay

WILLIAM J. LEMAY
Director

S E A L

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. 14964
ORDER NO. R-10020-B

APPLICATION OF CONOCOPHILLIPS COMPANY FOR RE-AUTHORIZATION OF THE VACUUM GLORIETA EAST UNIT WATERFLOOD PROJECT AND TO QUALIFY SAID PROJECT FOR THE RECOVERED OIL TAX RATE PURSUANT TO THE NEW MEXICO ENHANCED OIL RECOVERY ACT, LEA COUNTY, NEW MEXICO.

ORDER OF THE DIVISION

BY THE DIVISION:

This case came on for hearing at 8:15 a.m. on March 7, 2013, at Santa Fe, New Mexico, before Examiners David K. Brooks and Richard I. Ezeanyim.

NOW, on this 10th day of June, 2013, 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, ConocoPhillips Company ("Applicant") seeks retroactive approval of an existing waterflood project in the Glorieta and Paddock formations [Vacuum-Glorieta Pool (Pool Code 62160)] within Unit Area described below, in Lea County, New Mexico:

Township 17 South, Range 35 East, NMPM
Section 26: N/2 of NW/4, SW/4 of NW/4, NW/4 of SW/4
Section 27: All
Section 28: E/2, E/2 and SW/4 of NW/4, SW/4
Section 29: S/2 of N/2, S/2
Section 30: E/2, E2 of W/2
Section 31: E/2, E2 of W/2

Section 32: All
Section 33: N/2, N/2 of S/2, SW/4 of SW/4
Section 34: N/2 & SW/4 of NW/4, NW/4 of SW/4

Township 18 South, Range 35 East, NMPM
Section 5: Lots 1-4 (N/2 of N/2), SW/4 of NW/4

(3) A voluntary unit comprising the above-described Unit Area was approved by Order No. R-10017, issued in Case No. 10845 on November 16, 1993, and designated the Vacuum Glorieta East Unit (hereinafter called "the Unit"). A waterflood project within the Unit was approved by Order No. R-10020, issued in Case No. 10846 on November 23, 1993. Additional injection wells in the Unit were authorized by Administrative Orders Nos. WFX-856, WFX-865, WFX 884 and SWD-937. However, injection was not commenced into any of the permitted wells until September, 2005. This application was filed because of concern that injection authority had lapsed due to the lengthy time interval from initial authorization until commencement of injection.

(4) Applicant has seven wells presently injecting in the Unit, for which Applicant seeks permitting retroactive to date of first injection, as follows:

Well Name & No.	**API No.**	**UL-S-T-R**	**Footages**	**Perforated Interval**
Vacuum Glorieta East Unit Tract 2 Well No. 21	30-025-37851	A-32-17S-35E	1200 FNL 525 FEL	5926-6101
Vacuum Glorieta East Unit Tract 2 Well No. 22	30-025-37852	G-32-17S-35E	1765 FNL 1585 FEL	5919-6017
Vacuum Glorieta East Unit Tract 5 Well No. 3	30-025-20829	O-29-17S-35E	460FSL 1980 FEL	5985-6122
Vacuum Glorieta East Unit Tract 17 Well No. 2	30-025-20864	I-31-17S-35E	2080 FSL 660 FEL	6033-6251
Vacuum Glorieta East Unit Tract 25 Well No. 2	30-025-20886	C-32-17S-35E	760 FNL 1980 FWL	5961-6140
Vacuum Glorieta East Unit Tract 37 Well No. 3	30-025-20290	G-31-17S-35E	2310 FNL 1980 FEL	5941-6095
Vacuum Glorieta East Unit Tract 38 Well No. 3	30-025-32368	N-29-17S-35E	1130 FSL 1405 FEL	5958-6077

(5) In addition to seeking re-authorization for the seven existing injectors, Applicant seeks approval of four proposed new injection wells for the Unit, as follows:

Well Name & No.	API No.	UL-S-T-R	Footages	Perforated Interval
Vacuum Glorieta East Unit Tract 19 Well No. 33	30-025-40739	M-32-17S-35E	968 FSL 733 FWL	5980-6220
Vacuum Glorieta East Unit Tract 19 Well No. 34	30-025-40738	K-32-17S-35E	2150 FSL 2233 FWL	5970-6170
Vacuum Glorieta East Unit Tract 25 Well No. 32	30-025-40737	E-32-17S-35E	1695 FNL 723 FWL	5934-6161
Vacuum Glorieta East Unit Tract 37 Well No. 31	30-025-40736	A-31-17S-35E	969 FNL 153 FEL	5928-6148

(6) In addition to seeking approval for the above-described injection wells, Applicant seeks:

(a) authority to set tubing in packers "within the Unitized Formation, and as close as practical to the highest perforation," in lieu of the customary requirement that such packers be set "within 100 feet of the highest perforation";

(b) provision for authorization of additional injection wells in the Unit by administrative order, without the necessity of a hearing; and

(c) certification of the Vacuum Glorieta East Waterflood Project pursuant to Enhanced Oil Recovery Act, NMSA 1978 Sections 7-29A-1 through 7-29A-5, as amended.

(7) At the hearing, Applicant presented land and engineering testimony and exhibits to the effect that:

(a) The Unit Area described in Finding Paragraph (2) above is all State of New Mexico mineral land and has been voluntarily unitized by agreement of all owners of interests in the oil and gas in and under said lands. The Unit Agreement was approved by the Division in Order No. R-10017.

(b) The Unitized Interval, as defined in the Unit Agreement, corresponds to the Glorieta and Paddock formations, at the depth range from 5838 to 6235 feet below the surface.

(c) There are currently 68 producing wells in the Unit Area, and 11 injection wells. The 11 injection wells include the seven wells described in Finding Paragraph (4) above, which were authorized for injection by previous orders, and four wells, described in Finding Paragraph (5) above, which were recently drilled for the purpose of injection, but are currently awaiting approval.

(d) The wells authorized for injection by prior orders, other than the seven wells described in Finding Paragraph (4), have either been converted to production or plugged and abandoned.

(e) Current production from the Unit Area is approximately 980 barrels of oil per day and 250 mcf of gas per day.

(f) This reservoir is a solution gas drive reservoir with some assistance from water influx from the south and east. There is no naturally occurring water drive in the western part of the Unit Area where the waterflood project will be focused.

(g) Original bottomhole pressure in this reservoir was approximately 2200 psi. Current pressure is approximately 1300 psi, with bubble pressure point being approximately 1331 psi. Average porosity is approximately 10%, and average permeability is approximately four miledarcies.

(h) In the western part of the Unit Area, current bottomhole pressures are extremely low, in the vicinity of 100 to 300 psi. Thus there is a need for waterflooding to increase pressures in these wells.

(i) Based on positive response to waterflooding in the adjacent Vacuum Glorieta West Unit, operated by Chevron, Applicant projects an additional 7.85 million barrels of oil can be recovered from the Unit Area by waterflooding.

(j) The proposed four new injectors are in the lowest pressured area and are considered critical to the viability of this project.

(k) No fluid movement is expected out of the Unit Area. All of the present and proposed injectors are ringed by producing wells, and there are no lease-line injectors.

(l) The Ogallala fresh water formation is present in the area above 300 feet below the surface. However, all of the wells in the area are adequately cased to prevent communication with any fresh water formation. Casing in the injection wells is set into the salt section.

(m) Upward movement of water from the injection formation to fresh water is precluded by more than 5,000 feet of intervening strata, including a 1500-foot thick salt section. All available geologic information has been scrutinized, and there is no evidence of any fault or fracture that could allow upward movement of fluids out of the injection formation.

(n) The wells in the one-half mile Area of Review ("AOR") surrounding each of the existing and proposed injectors are adequately cased and

cemented to prevent any of these wells serving as a conduit for movement of fluids out of the injection formation. No remedial work is needed on any of these wells.

(o) Certain AOR wells of concern were identified on Exhibit B to Order No. R-10020 ("the Exhibit B wells"). The concerns as to three of those wells were subsequently resolved, as acknowledged by the Division in a letter dated December 9, 1993.

(p) The top of cement in the NM AB State Well No. 4 (one of the Exhibit B wells) has been re-calculated to be 5909 feet below the surface, above the permitted injection interval in any of the existing or proposed injectors.

(q) The remaining Exhibit B wells have been properly plugged.

(r) Capital costs of the waterflood project incurred to date amount to approximately $10.8 million. Total project costs over projected 20-year project life are estimated at $81.4 million.

(s) Additional production due to enhanced recovery is conservatively estimated at 6.7 million barrels of oil, which at $80 per barrel, would produce additional revenues of $536 million.

(8) Concho Resources, Inc. and COG Operating LLC appeared at the hearing through counsel but did not present evidence and did not oppose the application.

The Division concludes that:

(9) The proposed waterflood project within the Unit is feasible and will, in reasonable probability, result in production of additional hydrocarbons that would not otherwise be produced.

(10) The operator should squeeze all perforations not utilized in the waterflood operations in the seven existing wells that were converted to injection wells.

(11) The operator should run a cement bond log (CBL) or temperature survey (TS) on the following wells to determine the actual top of cement in these wells:

Vacuum Glorieta East Unit (VEGU) Well No. 005-03W (API No. 30-025-20829)
Vacuum Glorieta East Unit (VEGU) Well No. 017-02W (API No. 30-025-20864)
Vacuum Glorieta East Unit (VEGU) Well No. 025-02W (API No. 30-025-20886)
Vacuum Glorieta East Unit (VEGU) Well No. 037-03W (API No. 30-025-20290)

The operator should report the results of the CBL and TS to the Engineering Bureau in the Santa Fe Office of the Oil Conservation Division.

(12) There are a total of 182 wells in the area of review (AOR) surrounding the 11 injection wells. Of these wells, 20 are plugged and abandoned, and two are temporarily abandoned, while 160 are active.

(13) All of the wells located in the one-half mile area of review ("AOR") surrounding each of the existing and proposed injection wells appear to be adequately cased, cemented, and/or plugged, so that none of them will become a conduit for the escape of injected fluid from the permitted injection formation. Accordingly no remedial work on wells in the AOR need be required.

(14) Applicant should be authorized to inject fluids at a surface injection pressure not to exceed 1184 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.

(15) The proposed waterflood project will prevent waste, and will not impair correlative rights, contaminate any underground source of drinking water, or harm public health or the environment.

(16) Accordingly, the proposed project should be approved, and named the Vacuum East Glorieta Waterflood Project.

(17) Because there is sufficient formation thickness in the Glorieta within the Unit above the existing and proposed injection formation, setting of injection tubing in packers more than 100 feet above the highest perforation, so long as such packers are set within the Unitized Formation, and as close as practical to the highest perforation, will not cause migration of the injected fluids out of the injection zone, and should be authorized where necessary.

(18) The Division Director should be authorized to permit additional injection wells within the Unit by administrative order, without the necessity for a hearing, in the absence of objection.

(19) The evidence establishes that the Vacuum East Glorieta Waterflood Project meets all the criteria for certification by the Division as a qualified "Enhanced Oil Recovery (EOR) Project" pursuant to the Enhanced Oil Recovery Act. The certified project area should consist of the entire Vacuum East Glorieta Unit Area, subject to contraction as herein below provided.

IT IS THEREFORE ORDERED THAT:

(1) Pursuant to the application of ConocoPhillips Company (OGRID 217817) the Vacuum East Glorieta Waterflood Project is hereby re-authorized. The project area shall consist of the lands described in Finding Paragraph (2) of this order, and the Unitized Formation shall consist of the Glorieta and Paddock formations, as more specifically defined in the Vacuum East Glorieta Unit Agreement, approved by Order No. R-10017, within the project area.

(2) ConocoPhillips Company (OGRID 217817) is designated operator of the project. The term "Operator" in this Order shall include ConocoPhillips Company or any successor operator.

(3) Operator is authorized to inject produced water into the Unitized Formation through the wells described in Finding Paragraphs (4) and (5) of this order, within the perforated interval identified for each well in said paragraphs. For the wells identified in Finding Paragraph (4), the authority hereby granted shall apply retroactively to the date of first injection into each such well.

(4) The operator shall squeeze all perforations not utilized in the waterflood operations in the seven existing wells that were converted to injection wells as described in Finding Paragraph (4).

(5) The operator shall run a cement bond log (CBL) or temperature survey (TS) on the following wells to determine the actual top of cement in these wells:

Vacuum Glorieta East Unit (VEGU) Well No. 005-03W (API No. 30-025-20829)
Vacuum Glorieta East Unit (VEGU) Well No. 017-02W (API No. 30-025-20864)
Vacuum Glorieta East Unit (VEGU) Well No. 025-02W (API No. 30-025-20886)
Vacuum Glorieta East Unit (VEGU) Well No. 037-03W (API No. 30-025-20290)

The operator shall report the results of the CBL and TS to the Engineering Bureau in the Santa Fe Office of the Oil Conservation Division.

(6) 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.

(7) Injection shall be accomplished through plastic-lined steel tubing installed in a packer set in the casing below the top of the Injection Formation and within 100 feet of, or as close as practical to, 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.

(8) If the Operator finds it necessary to set the injection packer in any well farther than 100 feet uphole from the uppermost injection perforation, the Operator shall file Form C-103 with the Division's Hobbs District Office setting forth the packer setting depth and explaining the reasons why it is not practical to set the packer within 100 feet of the uppermost perforation. No packer shall be set outside the unitized interval.

(9) Each of the new injection wells described in Finding Paragraph (5) shall pass a mechanical integrity test prior to initial commencement of injection. Each injection well in the project shall pass a mechanical integrity test at least every five years, and prior to resumption of injection each time the injection packer is unseated. All testing procedures and schedules shall conform to the requirements of Division Rule

19.15.26.11.A NMAC. The Division Director retains the right to require at any time wireline verification of completion and packer setting depths.

(10) Each injection well shall be equipped with a pressure control device or acceptable substitute that will limit the surface injection pressure to no more than 1184 psi.

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

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

(13) Operator shall provide written notice of the date of commencement of injection into each well to the Division's Hobbs District Office.

(14) Operator shall immediately notify the supervisor of the Division's Hobbs 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 or abandoned well within one-half mile of any injection well, and shall take all steps as may be timely and necessary to correct such failure or leakage.

(15) The project shall be governed by applicable provisions of Division Rules 19.15.26.8 through 26.15 NMAC. Operator shall submit monthly reports of the injection operations on Division Form C-115, in accordance with Division Rules 19.15.26.13 and 19.15.7.28 NMAC.

(16) In accordance with Division Rule 19.15.26.12.C NMAC, the injection authority granted herein shall terminate, if after injection commences, any continuous period of one year elapses during which no reported injection occurs into any permitted injection well in the project; provided, however, the Division, upon written request by Operator filed prior to the expiration of the one-year period of non-injection, may grant an extension for good cause.

(17) Operator shall provide written notice to the Division upon permanent cessation of injection into the Project.

(18) This order does not relieve Operator of responsibility should its operations cause any actual damage or threat of damage to protectable fresh water, human health or the environment; nor does it relieve 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) Order No. R-10020, and Administrative Orders WFX-856, WFX-865, WFX-884 and SWD-937, are hereby rescinded insofar as they purport to authorize injection into any well in the Unit other than the injection wells specifically authorized herein.

(21) The Vacuum Glorieta East Waterflood Project is hereby certified to the New Mexico Taxation and Revenue Department as an "Enhanced Oil Recovery Project" pursuant to the "Enhanced Oil Recovery Act."

(22) The area to be affected by the enhanced oil recovery project shall consist of the area within the Vacuum Glorieta East Unit; provided, the area and/or the producing wells eligible for the enhanced oil recovery (EOR) tax rate may be contracted or expanded based upon the evidence presented by the Operator in its demonstration of a positive production response.

(23) At such time as a positive production response occurs, and within five years from the date the project was certified to the New Mexico Taxation and Revenue Department, the Operator must apply to the Division for certification of a "positive production response." This application for "positive production response" shall identify the area benefiting from enhanced oil recovery operations and the specific wells eligible for the EOR tax rate.

(24) The Division may review the application administratively or set it for hearing. Based upon the evidence presented, the Division will certify to the New Mexico Taxation and Revenue Department those wells that are eligible for the EOR tax rate.

(25) The injection authority granted under this order is not transferable except upon Division approval. The Division may require the Operator to demonstrate mechanical integrity of any injection well that will be transferred prior to approving transfer of authority to inject.

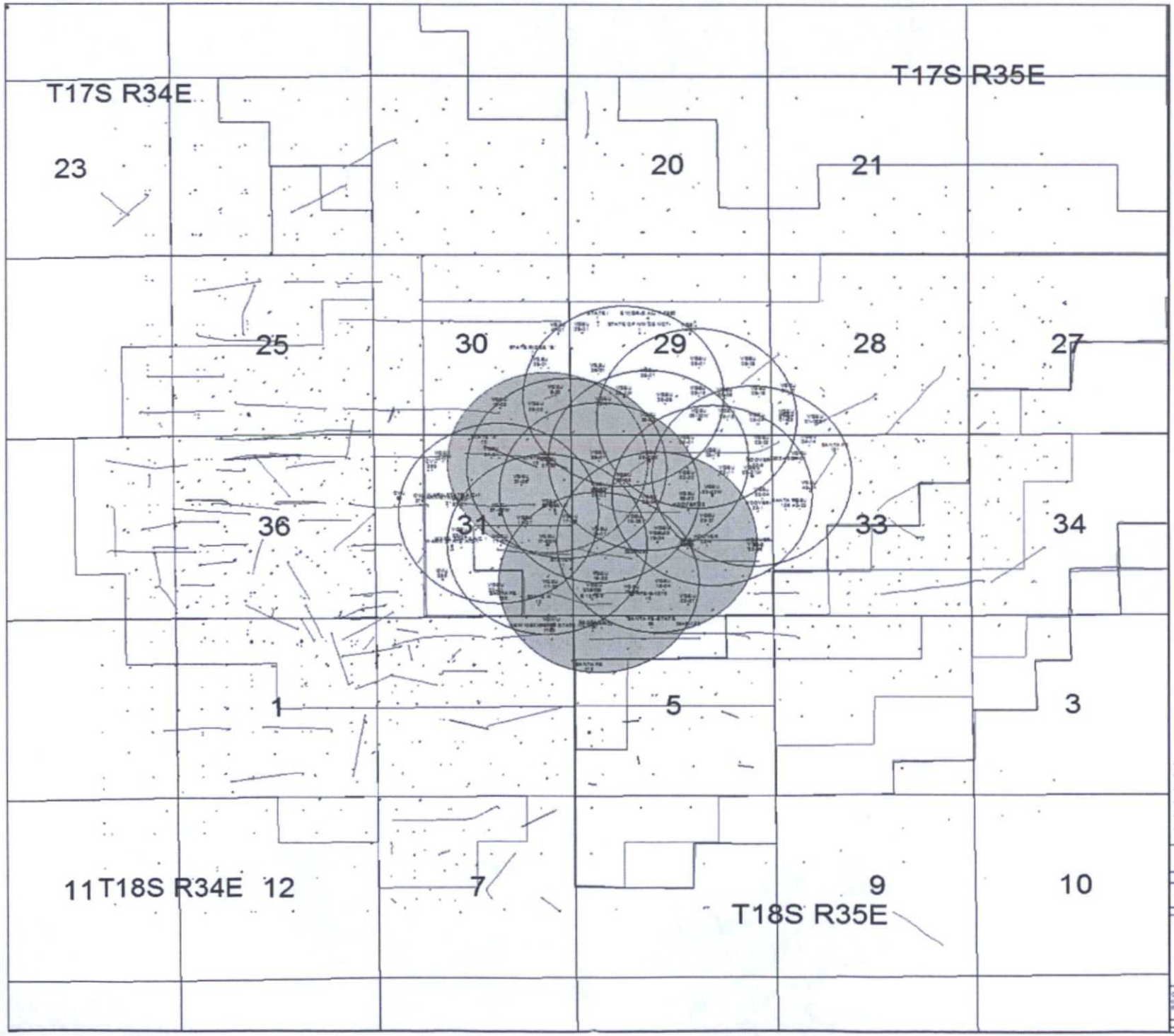
(26) Jurisdiction of this case is retained for the entry of such further orders as the Division may deem necessary.

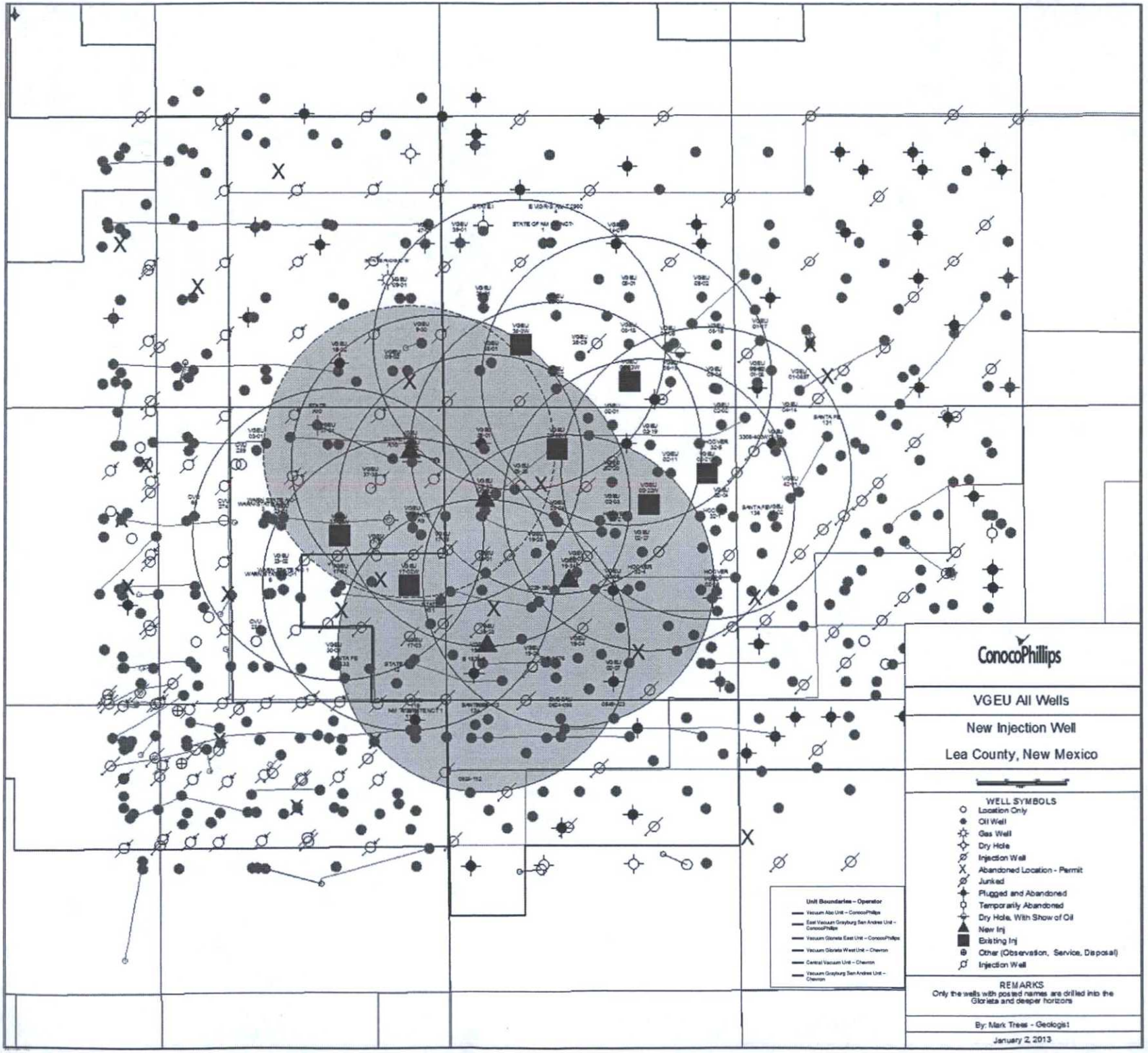
DONE at Santa Fe, New Mexico, on the day and year hereinabove designated.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION

JAMI BAILEY
Director

SEAL


T17S R34E
T17S R35E
23
20
21
25
30
29
28
27
36
31
33
34
1
5
3
11T18S R34E
12
7
9
10
T18S R35E


ConocoPhillips
VGEU All Wells
New Injection Well
Lea County, New Mexico
WELL SYMBOLS
Location Only
Oil Well
Gas Well
Dry Hole
Injection Well
Abandoned Location - Permit
Junked
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Other (Observation, Service, Disposal)
Injection Well
Unit Boundaries – Operator
Vacuum Abo Unit – ConocoPhillips
East Vacuum Grayburg San Andres Unit – ConocoPhillips
Vacuum Glorieta East Unit – ConocoPhillips
Vacuum Glorieta West Unit – Chevron
Central Vacuum Unit – Chevron
Vacuum Grayburg San Andres Unit – Chevron
REMARKS
Only the wells with posted names are drilled into the Glorieta and deeper horizons
By: Mark Trees - Geologist
January 2, 2013