HOLLAND&HART LLP

Adam G. Rankin
agrankin@hollandhart.com

February 5, 2013

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HAND-DELIVERY
Ms. Jami Bailey, Director
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South Saint Francis Drive
Santa Fe, New Mexico 87505

Case 14964

Re: 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.

Dear Ms. Bailey:

Enclosed in triplicate is the Application of ConocoPhillips Company, in the above-referenced case as well as a copy of the legal advertisement. ConocoPhillips Company requests that this matter be placed on the Hearing Examiner Docket scheduled for March 7, 2013.

Sincerely,

Adam G. Rankin

cc: Susan Maunder
Oil Conservation Division, District One Office, Hobbs, New Mexico

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

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.

CASE NO. 14964

APPLICATION

ConocoPhillips Company ("COP") through its attorneys, Holland and Hart LLP, makes application for an order re-authorizing a waterflood project in the Vacuum Glorieta East Unit, to be approved retroactively to first injection pursuant to NMSA 1978, Sections 70-2-6, -11, -12, and 19.15.26 NMAC, and for additional relief, as requested below. A copy of the complete C-108 application with all exhibits and attachments is attached hereto as Exhibit A. The proposed waterflood project ("Application") will result in the recovery of otherwise unrecoverable oil, thereby preventing waste. In support of its Application, COP states:

1. Order No. R-10017, dated November 16, 1993, approved statutory unitization of the Vacuum Glorieta East Unit, comprising some 4,239.80 acres, more or less, of State lands in Lea County, New Mexico:

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. Order No. R-10017 established the "Unitized Formation" as the stratigraphic interval 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 is defined for unitization purposes 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 a depth of 6,235 feet. *See* Order No. R-10017, Order ¶ 2.

3. Order No. R-10020, entered November 23, 1993, authorized COP to institute and operate a waterflood project in the Vacuum Glorieta East Unit by the injection of water into the Glorieta and Paddock formations of the Vacuum-Glorieta Pool, Lea County, New Mexico. *See* Order No. R-10020, Order ¶ 1.

4. Several subsequent administrative orders relate to the Vacuum Glorieta East Unit and Order No. R-10020. COP applied for and the Division issued Administrative Order SWD-937 on September 10, 2004. COP also filed several waterflood expansion requests that were administratively approved by the Division. *See, e.g.*, WFX-865, WFX-856, and WFX-884.

5. Order No. R-10020 expired, however, pursuant to 19.15.26.12(C)(1) NMAC.

6. Accordingly, this Application to re-authorize the Vacuum Glorieta East Unit waterflood project seeks an order that would supersede all previous orders relating to injection and waterflood operations in the Unit. Such re-authorization will allow for the establishment of uniform requirements throughout the Unit and a uniform baseline for future waterflood expansion.

7. COP seeks an order authorizing injection within the entire Unitized Formation, from a depth of 5,838 feet to a depth of 6,235 feet, as defined in Order No. R-10017.

8. COP seeks initial injection authorization retroactive to first injection for eleven wells, with a proposed maximum injection rate of approximately 3000 barrels of water per day, and a maximum injection pressure of 1200 pounds per square inch, as follows:

a. VGEU #02-021, API # 3002537851, Section 32, 1200 feet from the North line and 525 feet from the East line, injection interval 5926-6101 feet;

b. VGEU #02-022, API # 3002537852, Section 32, 1765 feet from the North line and 1585 feet from the East line, injection interval 5919-6017 feet;

c. VGEU #05-003, API # 3002520829, Section 29, 460 feet from the South line and 1980 feet from the East line, injection interval 5985-6122 feet;

d. VGEU #17-002, API # 3002520864, Section 31, 2080 feet from the South line and 660 feet from the East line, injection interval 6033-6251 feet;

e. VGEU #19-033, API # 3002540739, Section 32, 968 feet from the South line and 733 feet from the West line, injection interval 5980-6220 feet;

f. VGEU #19-034, API # 3002540738, Section 32, 2150 feet from the South line and 2233 feet from the West line, injection interval 5970-6170 feet;

g. VGEU #25-002, API # 3002520886, Section 32, 760 feet from the North line and and 1980 feet from the West line, injection interval 5961-6140 feet;

h. VGEU #25-032, API # 3002540737, Section 32, 1695 feet from the North line and 723 feet from the West line, injection interval 5934-6161 feet;

i. VGEU #37-003, API # 3002520290, Section 31, 2310 feet from the North line and 1980 feet from the East line, injection interval 5941-6095 feet;

j. VGEU #37-031, API # 3002540736, Section 31, 969 feet from the North line and 153 feet from the East line, injection interval 5928-6148 feet; and

k. VGEU #38-003, API # 3002532368, Section 29, 1130 feet from the South line and 1405 feet from the East line, injection interval 5958-6077 feet.

9. Pursuant to 19.15.26.8(G)(6) NMAC, COP seeks an exception from the hearing requirements for the drilling or conversion of additional wells for injection as necessary to develop or maintain thorough and efficient water flood injection for this project.

10. COP further seeks an order requiring that injection packers in all present and future injection wells in this waterflood project be set as close as practicably possible to the uppermost injection perforations or casing shoe, provided that the injection packer set point remains within the Unitized Formation, as defined by Order No. R-10017.

11. COP's proposed packer set point rule does not violate the Safe Drinking Water Act's Underground Injection Control Program requirements. *See, e.g.,* EPA 40 C.F.R. §§ 146.8, 146.22.

12. COP seeks to qualify this waterflood project for the recovered oil tax rate for enhanced oil recovery projects pursuant to the New Mexico Enhanced Oil Recovery Act. NMSA 1978, §§ 7-29A-1 to -5.

WHEREFORE, COP requests that this matter be set for hearing before an Examiner of the Oil Conservation Division on March 7, 2013, and, after notice and hearing as required by law, that the Division enter its order granting this Application.

Respectfully submitted,

HOLLAND & HART, LLP

By: _____

Michael H. Feldewert
Adam G. Rankin
Jeffrey M. Kendall
Post Office Box 2208
Santa Fe, New Mexico 87504
Telephone: (505) 988-4421
ATTORNEYS FOR CONOCOPHILLIPS COMPANY

CASE NO. _____: **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.** Applicant seeks an order for: (1) re-authorization of the Vacuum Glorieta East Unit waterflood project that supersedes all previous orders relating to injection and waterflood operations in the Unit; (2) injection authorization retroactive to first injection for eleven wells within the Unitized Formation, from a depth of 5,838 feet to a depth of 6,235 feet, as defined in Order No. R-10017; (3) exception from the hearing requirements for the drilling or conversion of additional wells for injection in the Unit; (4) allowance that injection packers in all present and future injection wells in this waterflood project be set as close as practicably possible to the uppermost injection perforations or casing shoe within the Unitized Formation; and (5) qualification for the recovered oil tax rate for enhanced oil recovery projects pursuant to the New Mexico Enhanced Oil Recovery Act. The Applicant proposes a maximum injection rate of 3000 barrels per day at a maximum injection pressure of 1,200 pounds per square inch. The proposed re-authorization will allow for the establishment of uniform requirements throughout the field and a uniform baseline for future waterflood expansion. Said area is located approximately 10 miles south of Lovington, New Mexico.

DATE IN	SUSPENSE	ENGINEER	LOGGED IN	TYPE	APP NO.

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

1220 South St. Francis Drive, Santa Fe, NM 87505

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

[B] Commingling - Storage - Measurement
☐ DHC ☐ CTB ☐ PLC ☐ PC ☐ OLS ☐ OLM

[C] Injection - Disposal - Pressure Increase - Enhanced Oil Recovery
☒ WFX ☐ PMX ☐ SWD ☐ IPI ☐ EOR ☐ PPR

[D] Other: Specify _____

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

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

[B] ☒ Offset Operators, Leaseholders or Surface Owner

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

[D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office

[E] ☒ For all of the above, Proof of Notification or Publication is Attached, and/or,

[F] ☐ Waivers are Attached

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

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

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

Susan B. Maunder	Susan B Maunder	Senior Regulatory Specialist	1/28/2013
Print or Type Name	Signature	Title	Date

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

ATTACHMENT A

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: P.O. Box 51810; Midland, Texas 79710-1810

CONTACT PARTY: Susan B. Maunder PHONE: 432-688-6913

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. Please see the enclosed summary titled, "Proposed Injection Well Activity"

IV. Is this an expansion of an existing project? X Yes ____ No Consolidation of approvals
If yes, give the Division order number authorizing the project: Administrative Order WFX-865

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. Attachment 2 and Attachment 3

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. Attachment 4 and Attachment 5

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. Attachment 6

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. WFX-865 and Attachment 7

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

XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. Attachment 8 and Attachment 9

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: Senior Regulatory Specialist

SIGNATURE: Susan B. Maunder DATE: 1/28/2013

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: WFX-865 4-1-2011

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

Side 2

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

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	2	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*	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*	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	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*	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	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*	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	3	3002532368	N	T: 17S R: 35E Sec. 29, Unit Letter N	32.80173	-103.48343	32.80173	-103.48343

*Indicates newly drilled well

Current Schedule: Place into service upon approval in 2013

Proposal Description:

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. There are 78 active wells which includes 11 injectors. Current production averages 980 BOPD, 240 MCFD and 27,500 BWPD. Current injection into 7 active injectors is 10,200 BWPD.

ConocoPhillips Company is proposing to reauthorize and consolidate all approvals for waterflood operations for this unit into one authorization. The benefit will be consistent requirements throughout the field and provide a uniform baseline for future waterflood expansion projects. We are seeking authorization to inject into the unitized formations (Glorieta and Paddock) at depth range of 5838' to 6235'. Injection currently occurs into the Paddock. No lease line injection wells are proposed at this time.

ConocoPhillips Company has drilled four (4) new injection wells in the Vacuum Glorieta East Unit. The newly drilled wells are to be replacement injection wells for previously approved injectors. The prior wells were approved for conversion in 2010. However, they were never

placed into service as injection wells. The new wells are to be utilized for enhanced recovery waterflood operations.

Enclosed in this application are the following supporting documents.

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

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

Maps (as requested by Form C-108, Sec. V):
Attachment 2 – Wells and leases within two miles.
Attachment 3 – Wells within the 0.5 mile area of review.

Tabulation of well data (as requested by Form C-108, Sec. VI):
Attachment 4 – Tabulation of well data
Attachment 5 – Well schematics for plugged wells

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 (at this time it is not proposed to have a higher that 0.2 psi/ft pressure limit)
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): Attachment 6
Information regarding underground sources of drinking water (USDW) is required in addition to the geologic information presented in Attachment 6 for each well. Underground sources of fresh water occur between 200' and 300' below surface. Any fresh water sources within the area of review are separated vertically from injection zone by approximately 5700'. There are no water wells within 300'. There are no known drinking water sources immediately below the injection interval.

Stimulation Program (as requested by Form C-108, Sec. IX):
Three of the newly drilled wells (VGEU 19-33, VGEU 19-34, and VGEU25-32) will be stimulated using an acid procedure. This procedure will involve approximately 20,000 gallons of 15% HCl solution. The remaining well (VGEU 37-31) will be stimulated using an acid frac procedure. This procedure will involve 20,000 gallons of gelled, 15% HCl.

Logging Data (as requested by Form C-108, Sec. X):
Any logging and test data collected while drilling and completing the newly drilled wells will be submitted to the state of New Mexico in accordance with requirements. These submissions will be provided in a timely manner under separate cover.

Chemical Analysis of Water (as requested by Form C-108, Sec. XI):
Fresh water samples were submitted in support of previous Administrative Orders governing waterflood activities at the Vacuum Glorieta East Unit. These samples were referenced in your May 10, 2010 decision document involving WFX-865.

Attachment 7 contains analyses of water that will be injected during this project.

Examination of geologic and engineering data (as requested by Form C-108, Sec. XII):

Geologic staff stated that: "We do not have any evidence that there is any hydrologic connection or open faults between the injection zone and the USDW."

Proof of Notice (as requested by Form C-108, Sec. XIII):
Attachment 8 contains a copy of the notorized newspaper publications.
Attachment 9 contains surface owner and working interest owner notifications.

Attachment 1
Vacuum Glorieta East Unit Injection Well Data

Well Numbers:

VGEU 02-21 – API # 30-025-37851
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 02-22 – API # 30-025-37852
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 05-03 – API # 30-025-20829
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 17-02 – API # 30-025-20864
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 19-33 – API # 30-025-40739
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 19-34 – API # 30-025-40738
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 25-02 – API # 30-025-20886
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 25-32 – API # 30-025-40737
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 37-03 – API # 30-025-20290
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 37-31 – API # 30-025-40736
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

VGEU 38-03 – API # 30-025-32368
- C-102 Plat
- Injection Well Data Sheet
- Injection Well Schematic
- Map showing 0.5 mile radius area of review

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number	2 Pool Code	3 Pool Name
30-025-37851	62160	Vacuum; Glorieta

4 Property Code	5 Property Name	6 Well Number
31257	Vacuum Glorieta East Unit	02-021

7 OGRID No.	8 Operator Name	9 Elevation
217817	ConocoPhillips Company	3954' GR

10 Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	32	17S	35E		1200'	North	525'	East	LEA

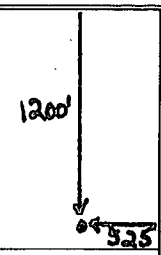
11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

12 Dedicated Acres	13 Joint or Infill	14 Consolidation Code	15 Order No.
40			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

16



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 12-11-12
Signature Date

Susan B. Maunder
Printed Name

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

18 SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit (VGEU) 002-21W API#30-025-37851

WELL LOCATION: 525' E and 1200' N UL A, Sec.32, T17S, R35E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 620sx lead and 230sx tail sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 1200sx lead and 500 tail slurry sx. *or* _____ ft³

Top of Cement: surface Method Determined: _____

Total Depth: 6345'TVD

Injection Interval

Perforated 5926' feet to 6101'

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2.375" Lining Material: internal Plastic coated (IPC)

Type of Packer: 5.5 x 2.75 carbide slips NP

Packer Setting Depth: 6006'

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 ; Glorieta

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

b

ConocoPhillips

Schematic - Current

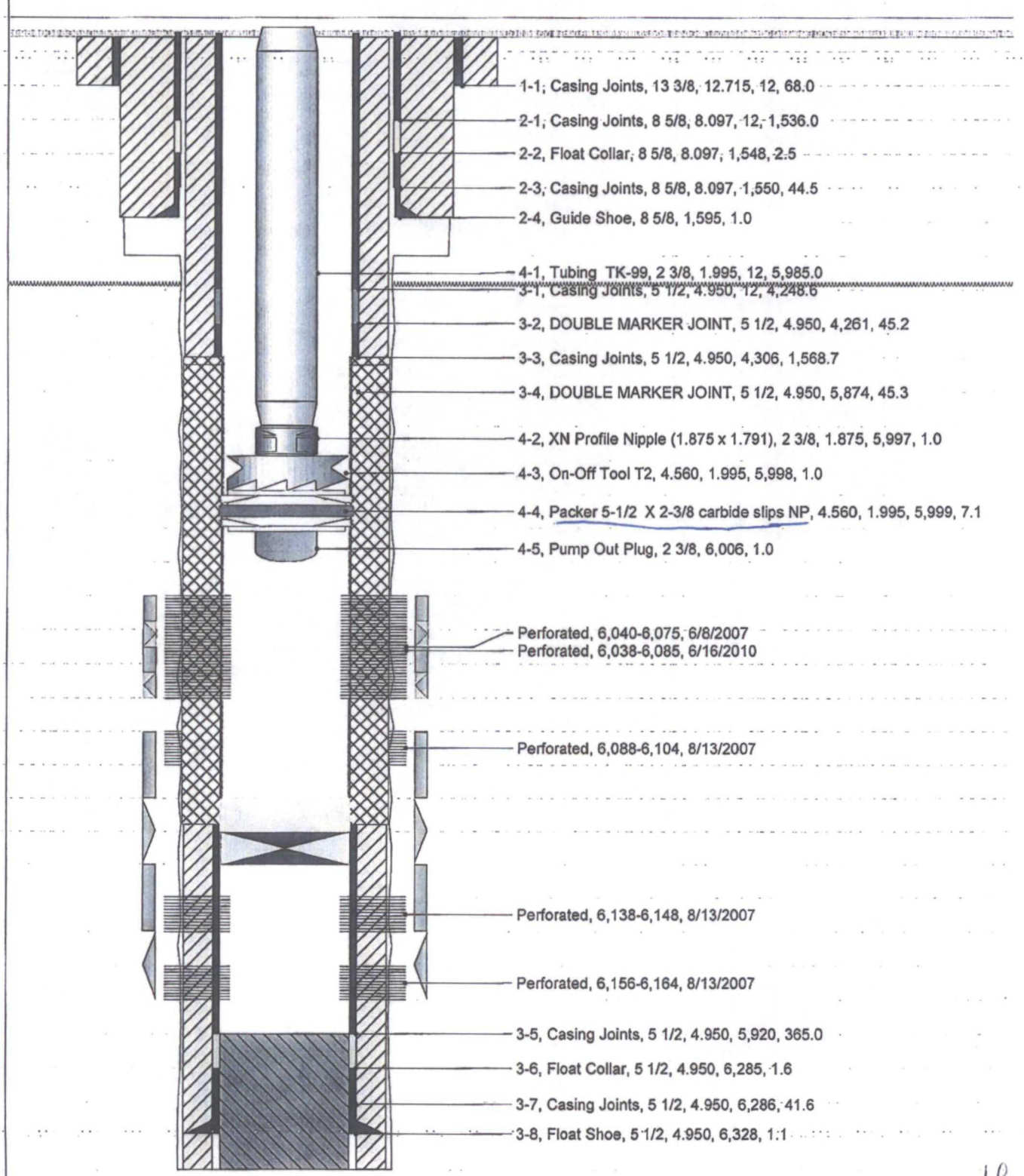
VACUUM GLORIETA EAST UNIT 002-21W

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002537851	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
4/16/2007	SEC:32;TWN:17 S;RNG:35 E	525.00	FEL	1,200.00	FNL

Well Config: VERTICAL - Original Hole, 12/18/2012 10:39:37 AM

Schematic - Actual



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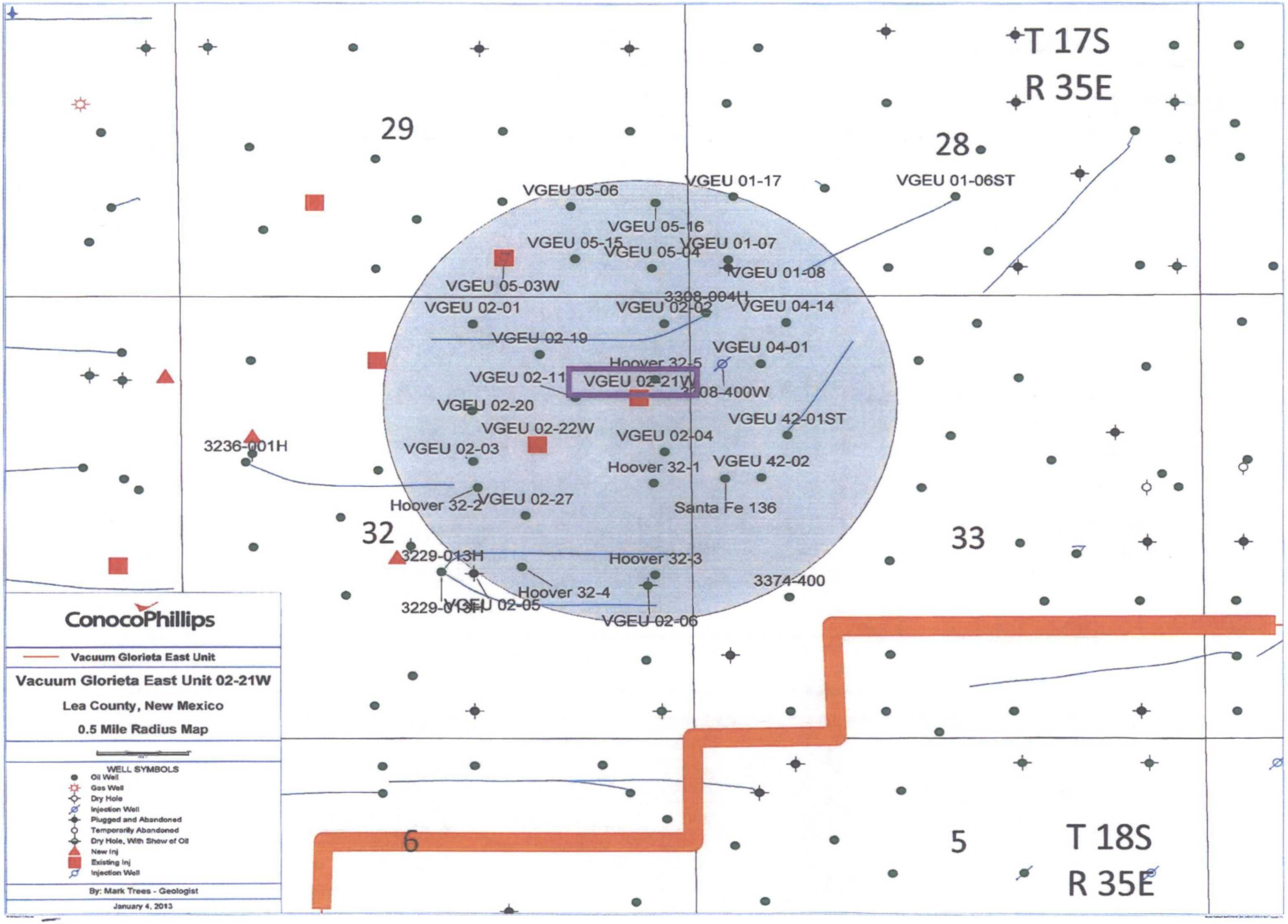

T 17S
R 35E
29
28
VGEU 01-17
VGEU 01-06ST
VGEU 05-06
VGEU 05-16
VGEU 05-15
VGEU 05-04
VGEU 01-07
VGEU 01-08
VGEU 05-03W
3308-004H
VGEU 02-01
VGEU 02-02
VGEU 04-14
VGEU 02-19
VGEU 04-01
Hoover 32-5
VGEU 02-11
VGEU 02-21W
08-400W
VGEU 02-20
VGEU 42-01ST
VGEU 02-22W
VGEU 02-04
3236-001H
VGEU 02-03
Hoover 32-1
VGEU 42-02
Hoover 32-2
VGEU 02-27
Santa Fe 136
32
33
3229-013H
Hoover 32-3
3374-400
Hoover 32-4
3229-013H
VGEU 02-05
VGEU 02-06
6
5
T 18S
R 35E
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 02-21W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

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

DISTRICT II
1301 W. Grand Avenue, Artesia, NM 88210

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

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Frances Dr.
Santa Fe, NM 87505

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	62160	Vacuum, Glorieta

Property Code	Property Name	Well Number
31257	VACUUM GLORIETA EAST UNIT	02-20

OGRID No.	Operator Name	Elevation
62160	CONOCOPHILLIPS	3963'

Surface Location

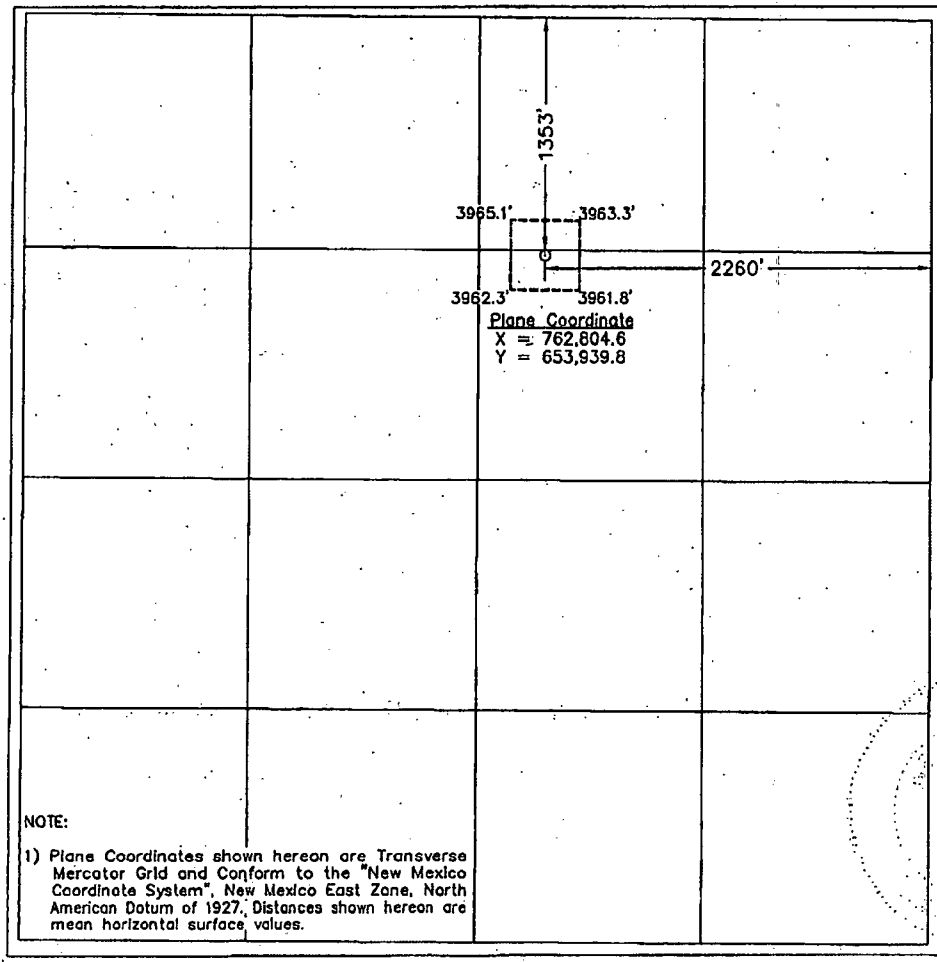
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	32	17 S	35 E		1353	NORTH	2260	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



NOTE:

1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1927. Distances shown hereon are mean horizontal surface values.

OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interestin the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Deborah Marberry 4/25/06
Signature Date

Deborah Marberry
Printed Name

SURVEYOR CERTIFICATION

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

April 18, 2006
Date of Survey

Signature & Seal of Professional Surveyor

LVA

W.O. Num. 2006-0287

Certificate No. MACON McDONALD 12185

12

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit 02-22 API#30-025-37852

WELL LOCATION: 1585' E and 1765' N UL G, Sec. 32, T17S, R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625

Cemented with: 620sx lead and 230sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Intermediate Casing

Hole Size: _____ Casing Size: _____

Cemented with: _____ *or* _____ ft³

Top of Cement: _____ Method Determined: _____

Production Casing

Hole Size: 7.875" Casing Size: 5.5"

Cemented with: 1150sx lead and 500sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6350' TVD

Injection Interval

Perforated: 5919' feet to 6017'

(Perforated or Open Hole; indicate which)

13

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5 x 2.75

Packer Setting Depth: 6012'

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 ; Glorieta

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

ConocoPhillips

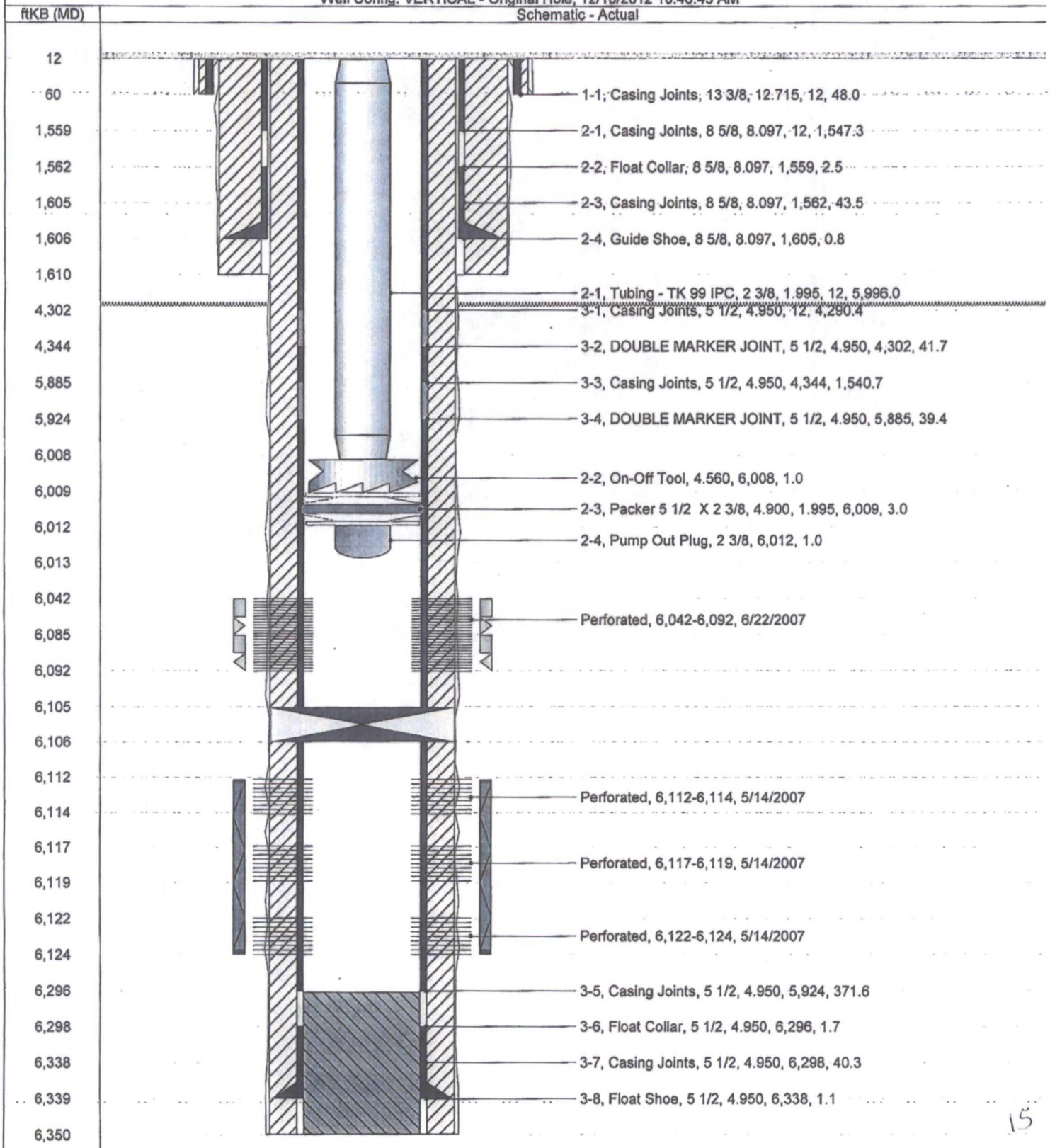
Schematic - Current

VACUUM GLORIETA EAST UNIT 02-22

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002537852	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
4/2/2007	SEC:32;TWN:17 S;RNG:35 E	1,585.00	FEL	1,765.00	FNL

Well Config: VERTICAL - Original Hole, 12/18/2012 10:46:43 AM



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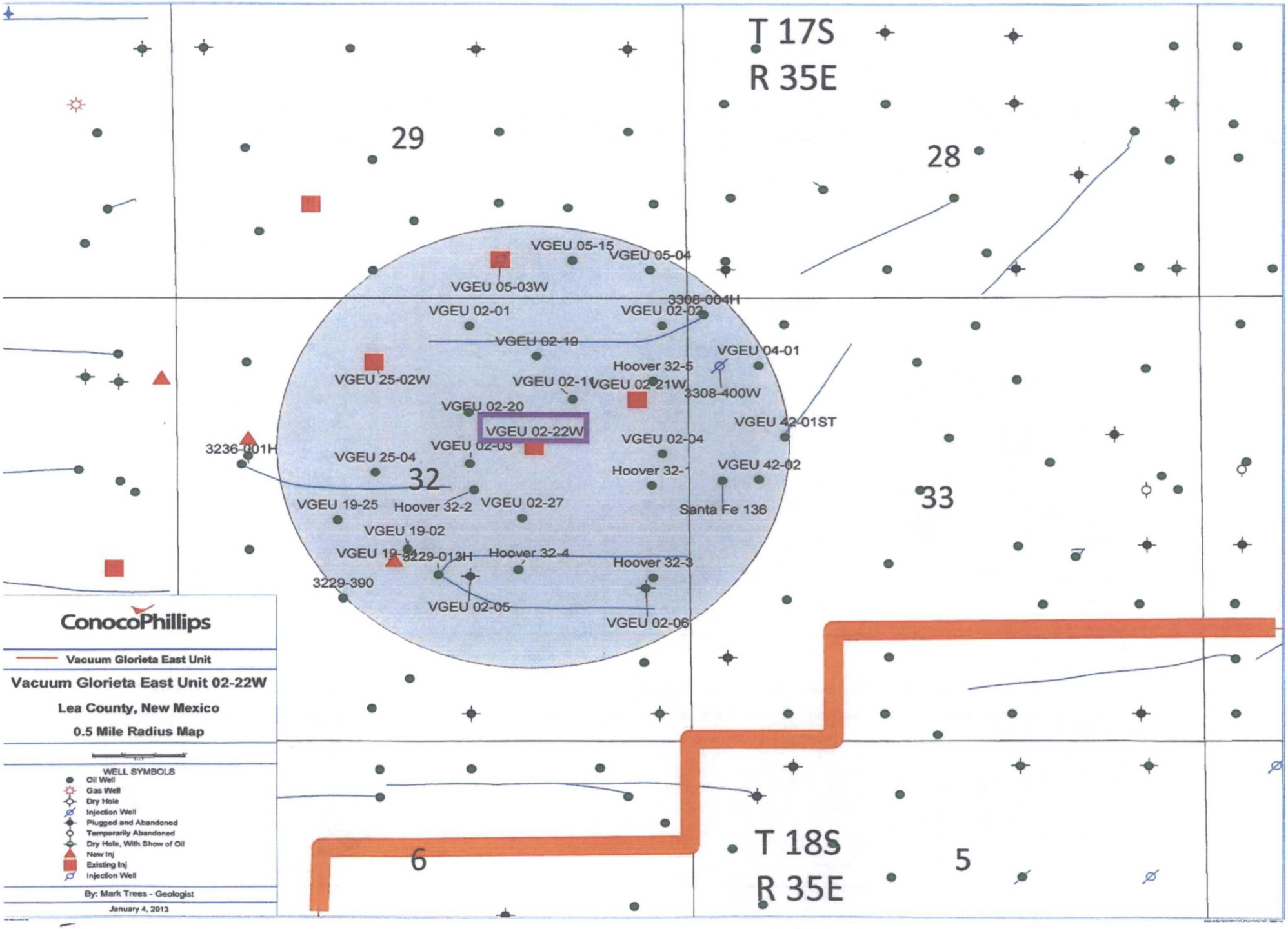
Report Printed: 12/18/2012


T 17S
R 35E
29
28
32
33
6
5
T 18S
R 35E
VGEU 05-15
VGEU 05-04
VGEU 05-03W
3308-004H
VGEU 02-01
VGEU 02-02
VGEU 02-19
VGEU 04-01
Hoover 32-5
VGEU 25-02W
VGEU 02-11
VGEU 02-21W
3308-400W
VGEU 02-20
VGEU 02-22W
VGEU 42-01ST
VGEU 02-04
3236-001H
VGEU 02-03
VGEU 25-04
Hoover 32-1
VGEU 42-02
VGEU 19-25
Hoover 32-2
VGEU 02-27
Santa Fe 136
VGEU 19-02
VGEU 19-3
3229-013H
Hoover 32-4
Hoover 32-3
3229-390
VGEU 02-05
VGEU 02-06
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 02-22W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-20829	62160	Vacuum; Glorieta

[4] Property Code	[5] Property Name	[6] Well Number
31257	Vacuum Glorieta East Unit	05-003

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	ConocoPhillips Company	3974' DF

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	29	17S	35E		460'	South	1980'	East	LEA

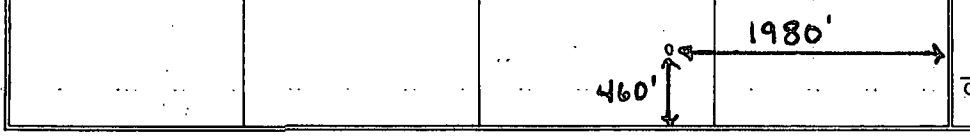
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 12-11-12
Signature Date

Susan B. Maunder
Printed Name

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

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

17

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit 005-03W API#30-025-20829

WELL LOCATION: 1980' E and 460' S UL O; Sec.29; T17S; R35E

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 sx sx. *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: 6.625" Casing Size: 4.50

Cemented with: 880 sx sx. *or* _____ ft³

Top of Cement: 1392' Method Determined: calculated

Total Depth: 6301'

Injection Interval

Perforated 5985' feet to 6122'

(Perforated or Open Hole; indicate which)

18

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2-3/8" Lining Material: IPC

Type of Packer: 4.5" x 2.375" Nickel Coated

Packer Setting Depth: 5988'

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? production

2. Name of the Injection Formation: Paddock ; Glorieta

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

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ConocoPhillips

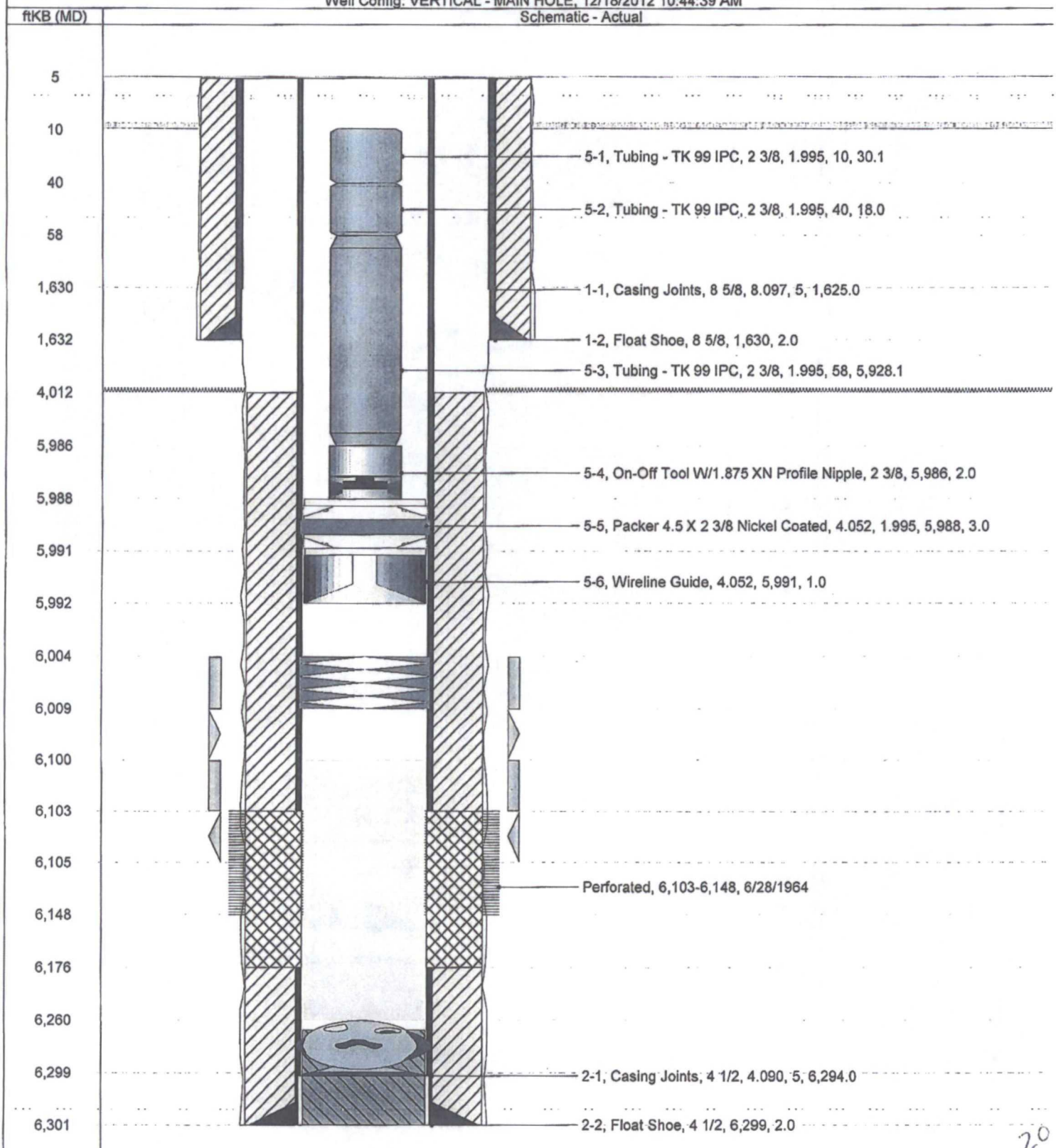
Schematic - Current

VACUUM GLORIETA EAST UNIT 005-03 W

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300252082900	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
6/7/1964		1,980.00	E	460.00	S

Well Config: VERTICAL - MAIN HOLE, 12/18/2012 10:44:39 AM



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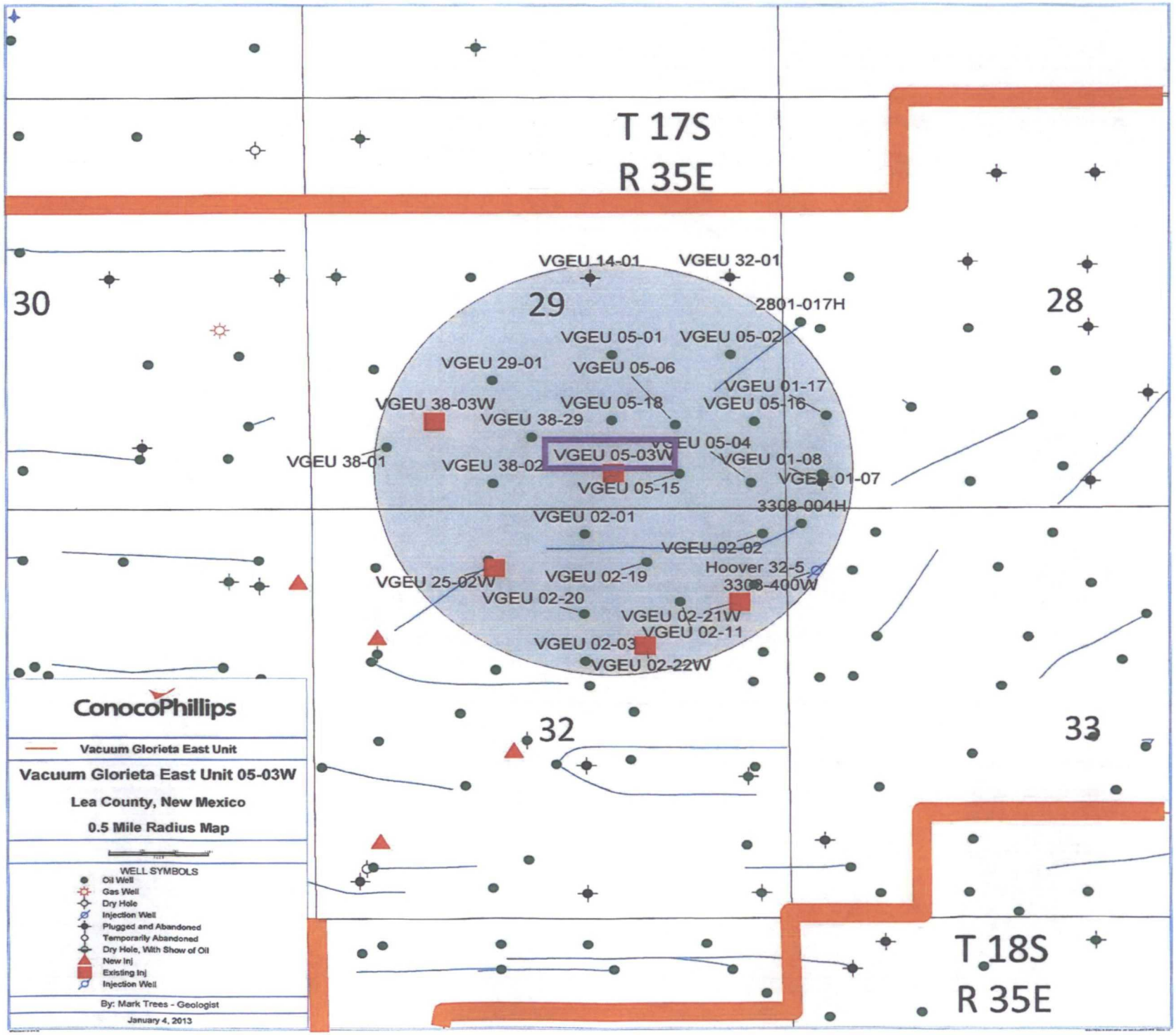
Report Printed: 12/18/2012


T 17S
R 35E
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32
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T 18S
R 35E
VGEU 14-01
VGEU 32-01
2801-017H
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VGEU 05-02
VGEU 29-01
VGEU 05-06
VGEU 01-17
VGEU 38-03W
VGEU 05-18
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VGEU 38-29
VGEU 05-04
VGEU 05-03W
VGEU 01-08
VGEU 38-01
VGEU 38-02
VGEU 05-15
VGEU 01-07
3308-004H
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VGEU 02-02
Hoover 32-5
VGEU 25-02W
VGEU 02-19
3308-400W
VGEU 02-20
VGEU 02-21W
VGEU 02-11
VGEU 02-03
VGEU 02-22W
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 05-03W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

12

District I
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Phone: (575) 393-6161 Fax: (575) 393-0720
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District IV
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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-20864	62160	VACUUM;GLORIETA

[4] Property Code	[5] Property Name	[6] Well Number
31257	VACUUM GLORIETA EAST UNIT TR. 17	002

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	3978

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
I	31	17	35E		2080	South	660	East	LEA

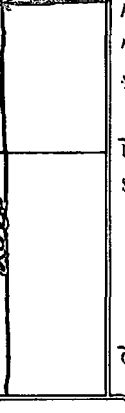
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 01/15/2013
Signature Date

Susan B. Maunder
Printed Name

susan.b.maunder@conocophillips.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

22

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 660' E and 2080' S UL I; Sec.31; T17S; R35E

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 sx. *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: 1800 sx. *or* _____ ft³

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

Total Depth: 6300' TVD

Injection Interval

Perforated 6033' feet to 6251'

(Perforated or Open Hole; indicate which)

23

Side 2

INJECTION WELL DATA SHEET

Tubing Size: 2.375" Lining Material: IPC

Type of Packer: 5.5" x 2.375"

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? production

2. Name of the Injection Formation: Paddock ; Glorieta

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

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

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

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ConocoPhillips

Schematic - Current

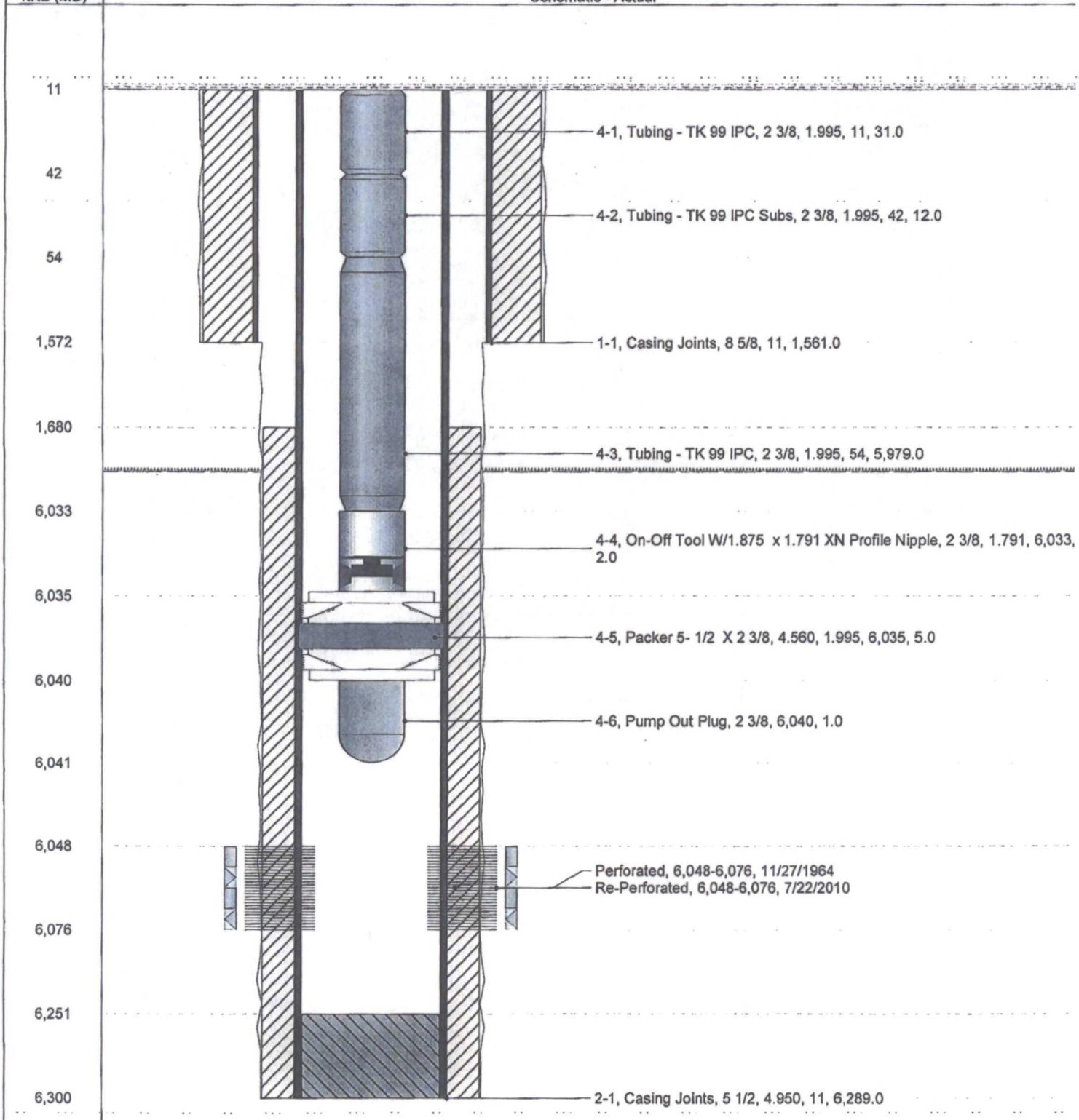
VACUUM GLORIETA EAST UNIT ··17-02

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002520864	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
11/5/1964	Sec. 31, T-17S, R-35E	660.00	E	2,080.00	S

Well Config: HORIZONTAL - Sidetrack 1, 12/18/2012 2:05:28 PM

Schematic - Actual



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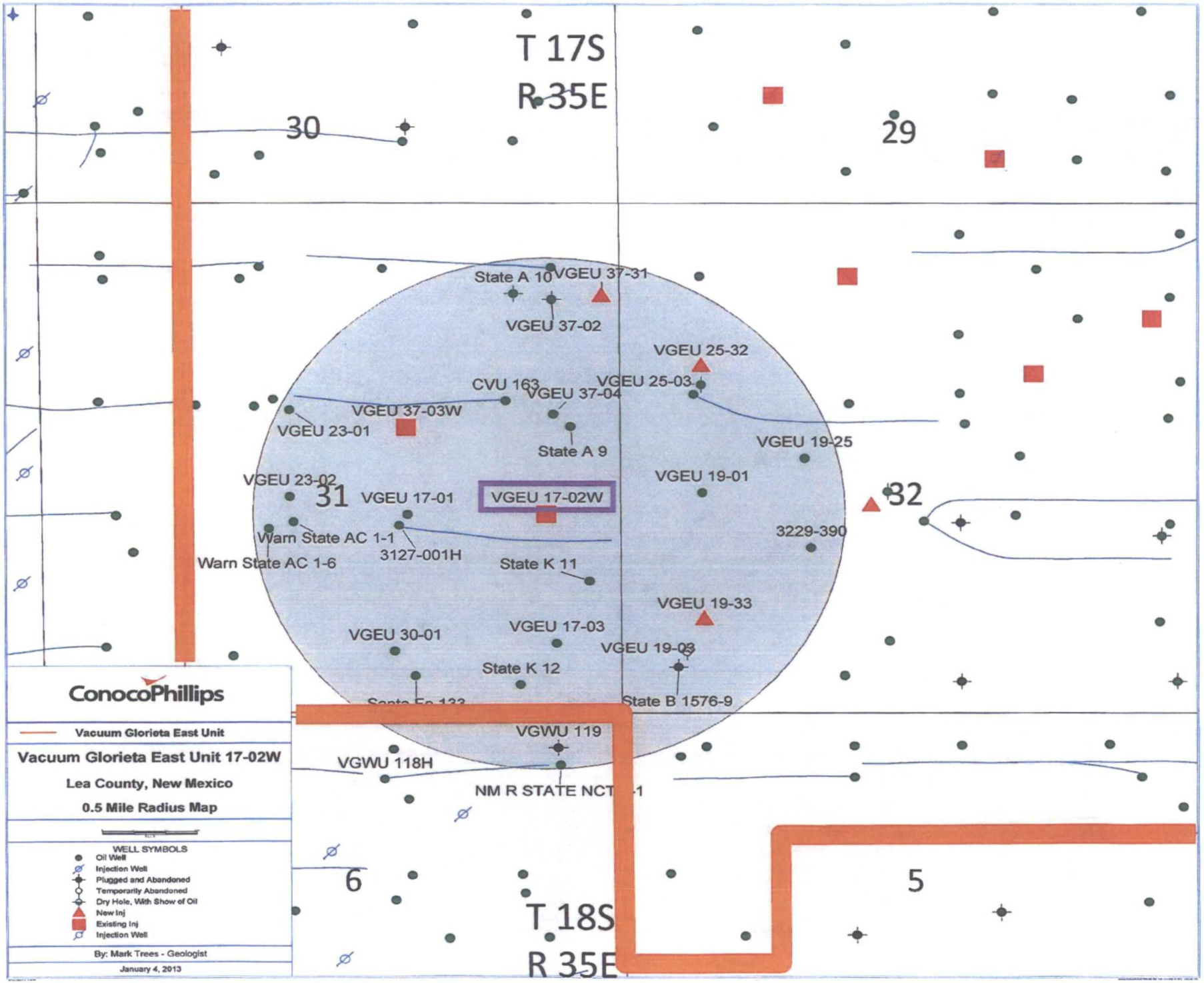
Report Printed: 12/18/2012


T 17S
R 35E
30
29
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32
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5
T 18S
R 35E
State A 10
VGEU 37-31
VGEU 37-02
VGEU 25-32
VGEU 25-03
CVU 163
VGEU 37-04
VGEU 37-03W
VGEU 23-01
State A 9
VGEU 19-25
VGEU 23-02
VGEU 17-01
VGEU 17-02W
VGEU 19-01
Warn State AC 1-1
3127-001H
Warn State AC 1-6
State K 11
3229-390
VGEU 19-33
VGEU 30-01
VGEU 17-03
VGEU 19-03
State K 12
State B 1576-9
VGWU 119
VGWU 118H
NM R STATE NCT -1
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 17-02W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

2b

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone (505) 334-6178 Fax: (505) 334-6170
DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax: (505) 476-3462

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-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	62160	Vacuum Glorieta

Property Code	Property Name	Well Number
31257	VACUUM GLORIETA EAST UNIT	19-33

OGRID No.	Operator Name	Elevation
217817	CONOCO PHILLIPS	3972'

Surface Location

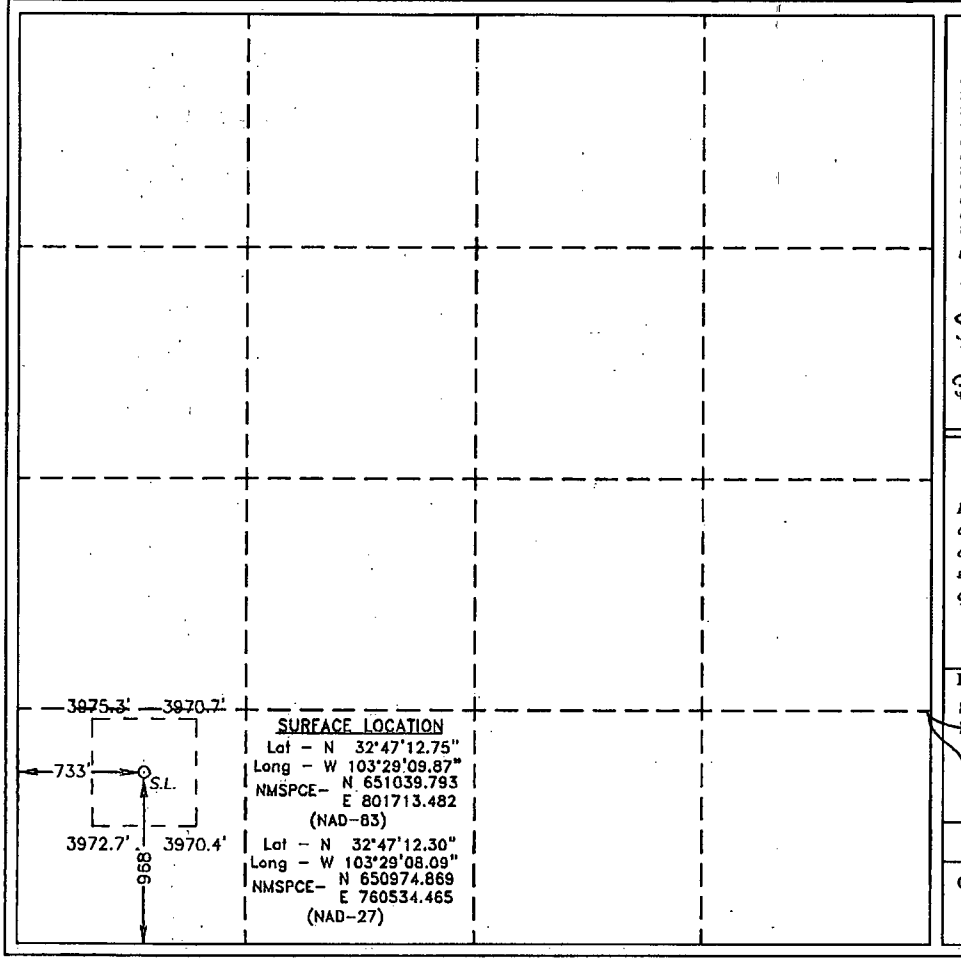
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
M	32	17 S	35 E		968	SOUTH	733	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder
Signature

Date 8/29/12

Susan B. Maunder
Printed Name

Susan.B.Maunder@conocophillips.com
Email Address

SURVEYOR CERTIFICATION

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

JULY 13, 2012

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

W.O. Num. 26932

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 26932

27

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 968' S and 733' W UL M; Sec. 32; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 700sx lead and 360sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 600sx lead and 500sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6425' TVD

Injection Interval

Perforated 5980' feet to 6220'

(Perforated or Open Hole; indicate which)

32

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5"x 2.375" carbide slips NP

Packer Setting Depth: 6058'

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 ; Glorieta

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

2

ConocoPhillips

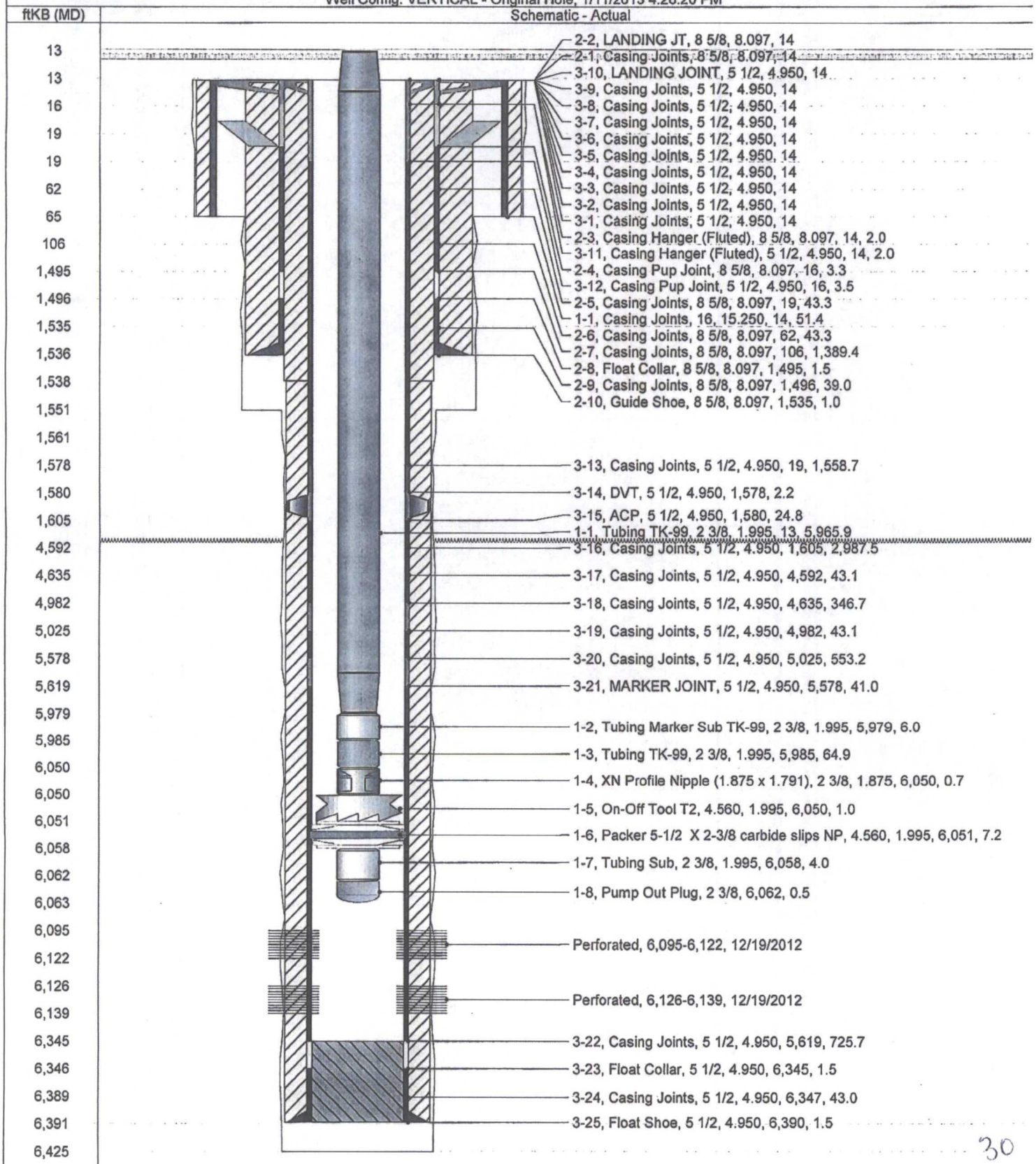
Schematic - Current

VACUUM GLORIETA EAST UNIT 019-33

Most Recent Job

Job Category	Primary Job Type	Secondary Job Type	Actual Start Date	End Date
COMPLETIONS	INITIAL COMPLETION		12/12/2012	12/22/2012

Well Config: VERTICAL - Original Hole, 1/11/2013 4:26:20 PM



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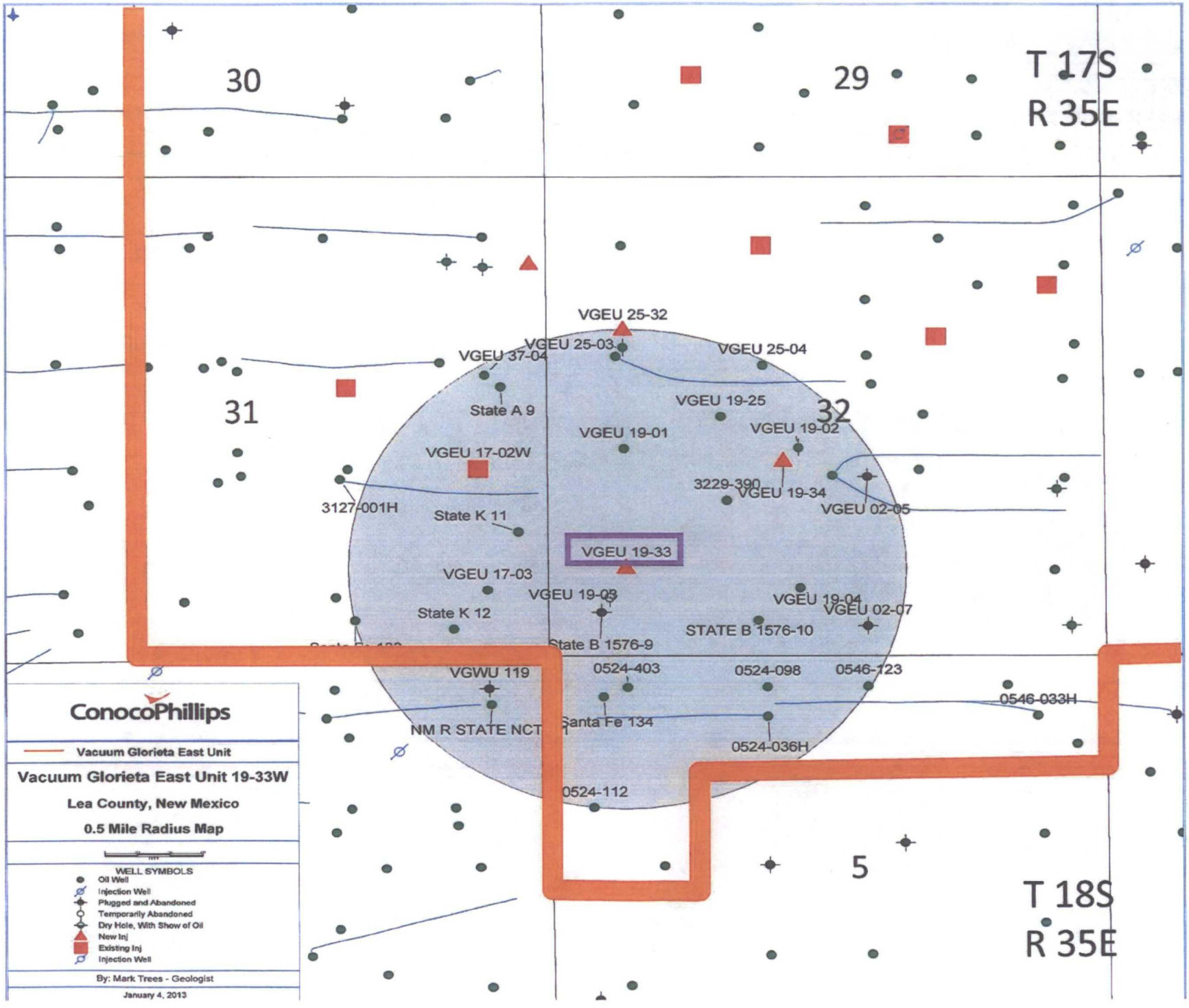
Report Printed: 1/11/2013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29
T 17S
R 35E
31
32
VGEU 25-32
VGEU 25-03
VGEU 25-04
VGEU 37-04
State A 9
VGEU 19-25
VGEU 19-01
VGEU 19-02
VGEU 17-02W
3229-390
VGEU 19-34
VGEU 02-05
3127-001H
State K 11
VGEU 19-33
VGEU 17-03
VGEU 19-03
VGEU 19-04
VGEU 02-07
State K 12
STATE B 1576-10
State B 1576-9
VGWU 119
0524-403
0524-098
0546-123
0546-033H
NM R STATE NCT
Santa Fe 134
0524-036H
0524-112
5
T 18S
R 35E
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 19-33W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

13

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Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION

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

Form C-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	62160	Vacuum Glorieta

Property Code	Property Name	Well Number
31257	VACUUM GLORIETA EAST UNIT	19-34

OGRID No.	Operator Name	Elevation
217817	CONOCO PHILLIPS	3967'

Surface Location

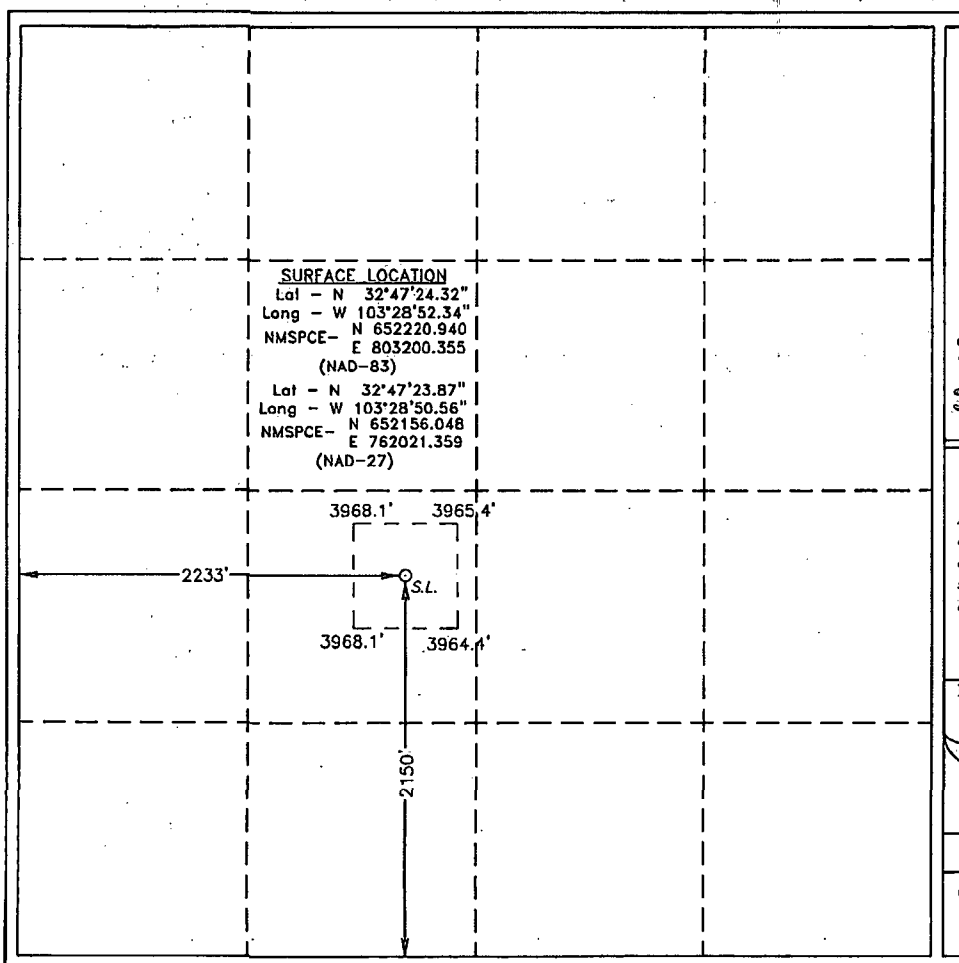
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	32	17 S	35 E		2150	SOUTH	2233	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 8/29/12
Signature Date

Susan B. Maunder
Printed Name

Susan.B.Maunder@conocophillips.com
Email Address

SURVEYOR CERTIFICATION

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

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL LAND SURVEYOR

Date Surveyed
Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 26933

32

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 2233' W and 2150' S UL K; Sec.32; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625

Cemented with: 600sx lead and 300sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 880sx lead and 600 tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6415' TVD

Injection Interval

Perforated 5970' feet to 6170'

(Perforated or Open Hole; indicate which)

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5 x 2.375 carbide slips NP

Packer Setting Depth: 6056'

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; Glorieta

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

ConocoPhillips

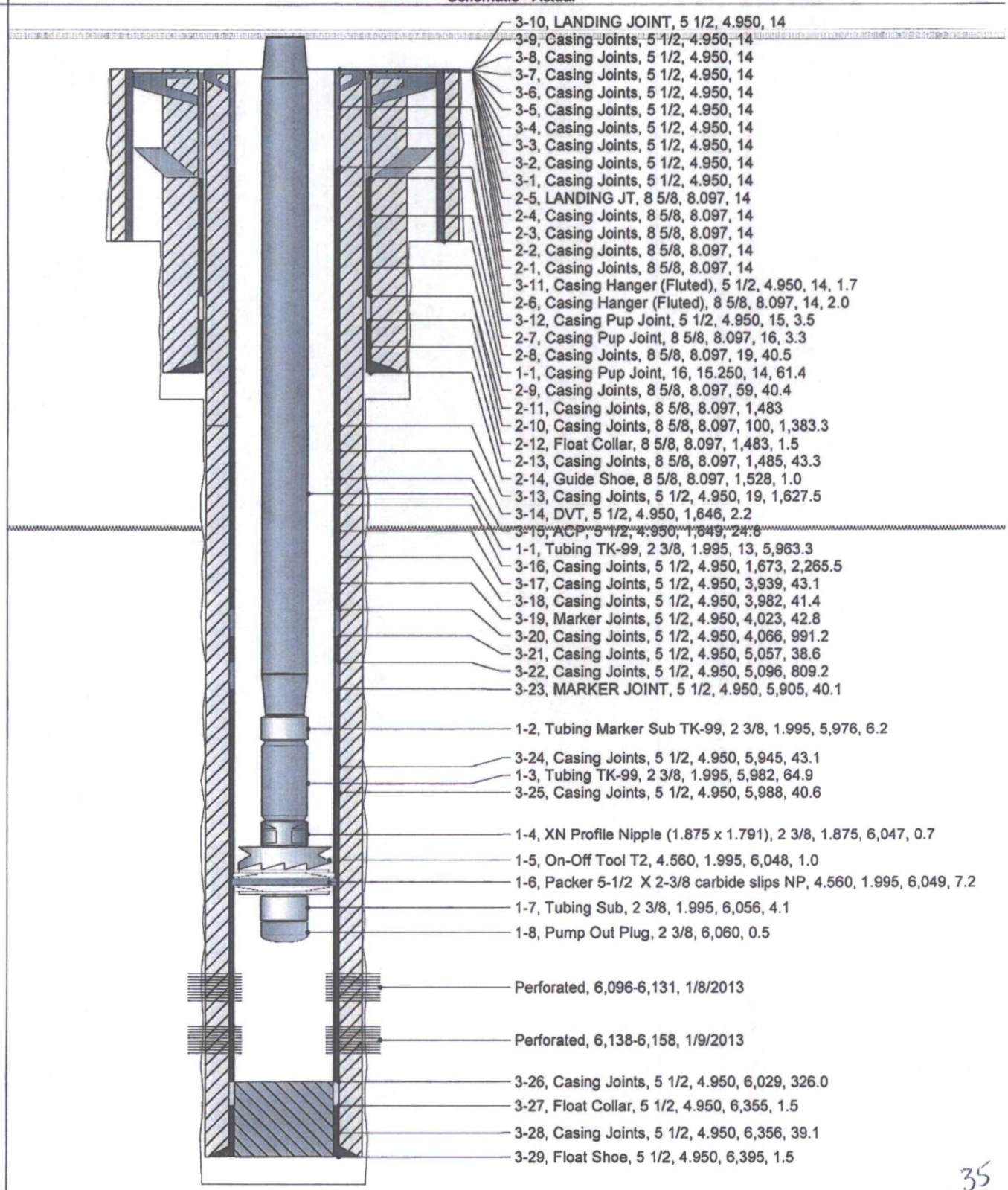
Schematic - Current

VACUUM GLORIETA EAST UNIT 019-34

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002540738	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
12/14/2012	Section 32, Township 17S, Range 35E	2,233.00	FWL	2,150.00	FSL

Well Config: VERTICAL - Original Hole, 1/22/2013 6:42:27 AM



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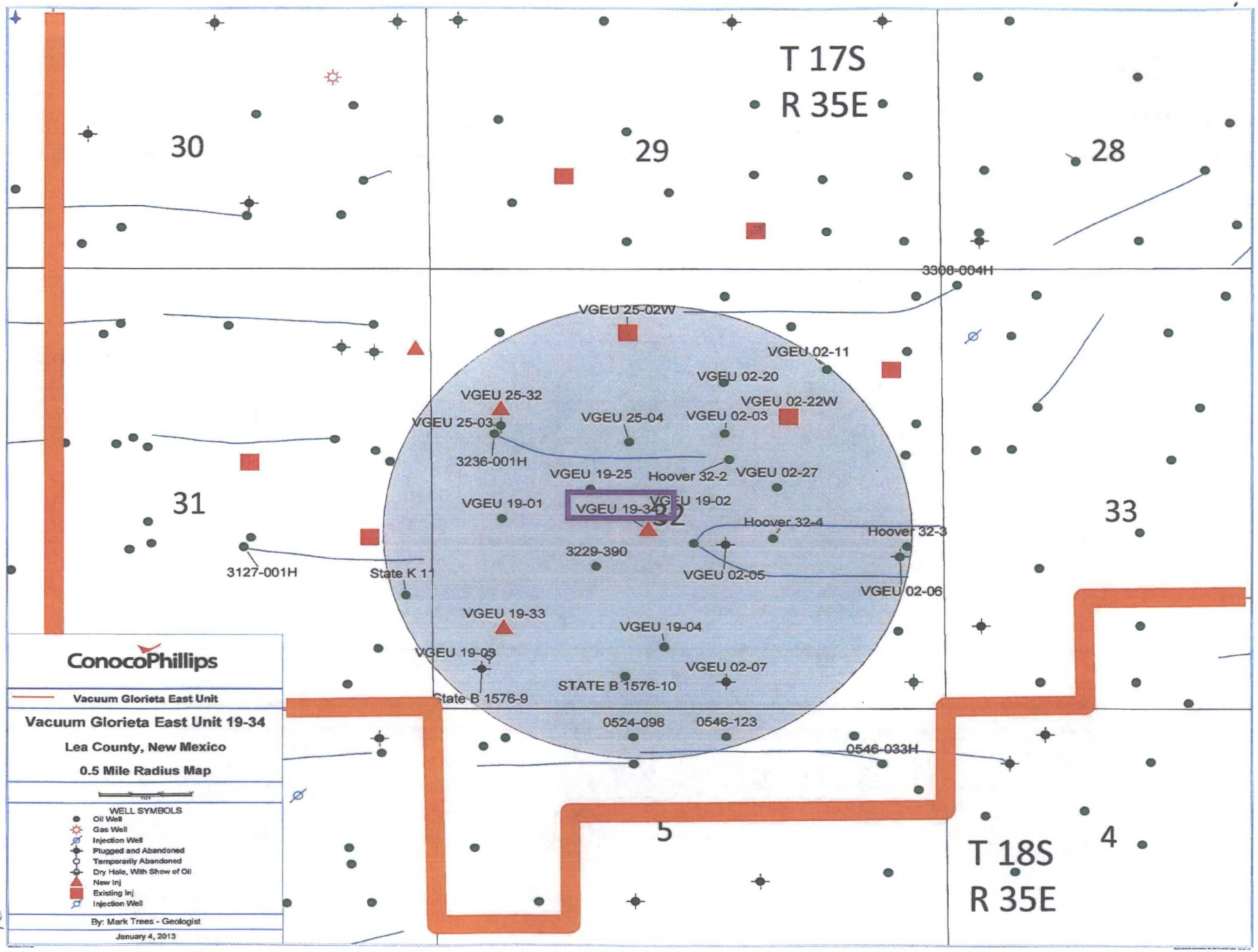
Report Printed: 1/22/2013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T 18S
R 35E
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VGEU 02-20
VGEU 25-32
VGEU 02-22W
VGEU 25-03
VGEU 25-04
VGEU 02-03
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VGEU 19-25
Hoover 32-2
VGEU 02-27
VGEU 19-01
VGEU 19-34
VGEU 19-02
Hoover 32-4
Hoover 32-3
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VGEU 02-06
VGEU 19-33
VGEU 19-04
VGEU 19-03
VGEU 02-07
STATE B 1576-10
State B 1576-9
0524-098
0546-123
0546-033H
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 19-34
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

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Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-20886	62160	VACUUM;GLORIRTA

[4] Property Code	[5] Property Name	[6] Well Number
31257	VACUUM GLORIETA EAST UNIT TR. 25	02

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	3966

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	32	17	35		760	N	1980	W	LEA

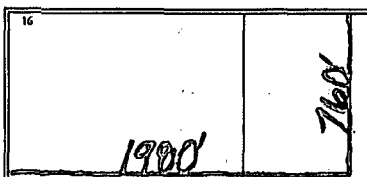
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 01/16/2013
Signature Date

Susan B. Maunder
Printed Name

susan.b.maunder@conocophillips.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 1980' W and 760' N UL C; Sec.32; T17S; R35E

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 sx. *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: 4.5"

Cemented with: 870 sx. *or* _____ ft³

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

Total Depth: 6250'

Injection Interval

Perforated 5961' feet to 6140'

(Perforated or Open Hole; indicate which)

38

INJECTION WELL DATA SHEET

Tubing Size: 2.375" Lining Material: IPC

Type of Packer: 4.50" x 2.375"

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? production

2. Name of the Injection Formation: Paddock ; Glorieta

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

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

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

ConocoPhillips

Schematic - Current

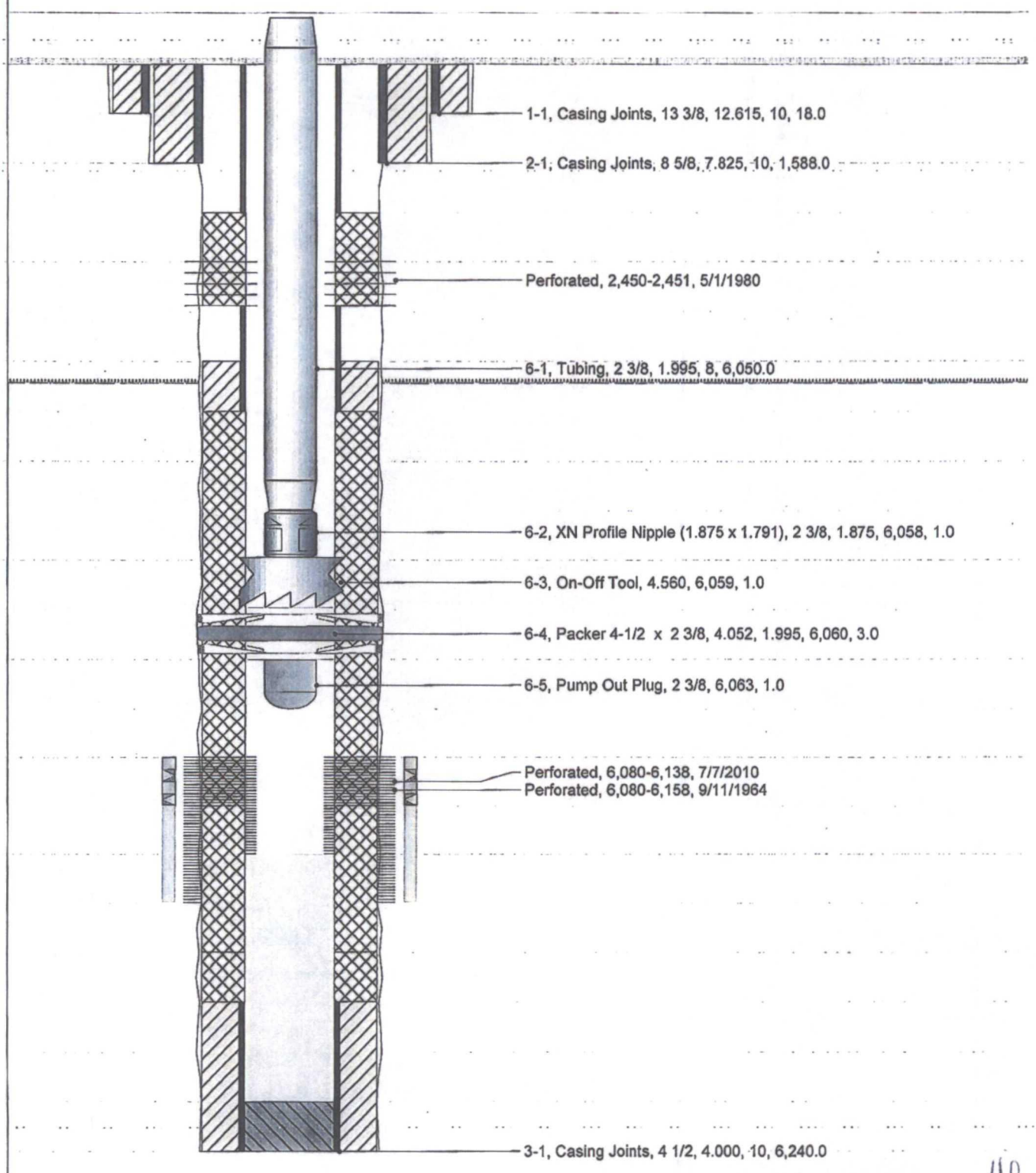
VACUUM GLORIETA EAST UNIT 25-02

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300252088600	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
8/24/1964	Section 32, T-17S, R-35E	1,980.00	W	760.00	N

Well Config: VERTICAL - MAIN HOLE, 12/18/2012 10:41:36 AM

Schematic - Actual



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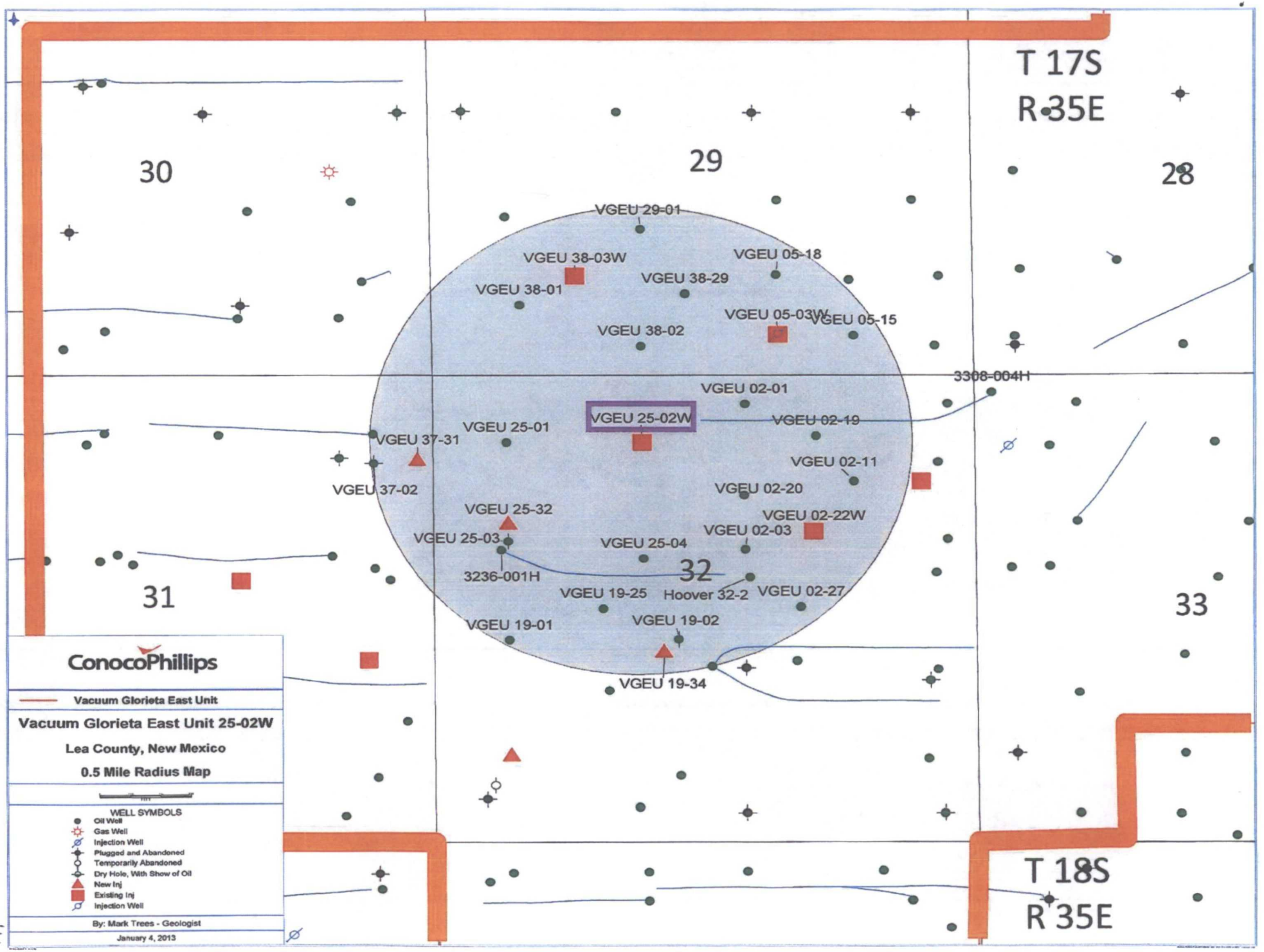
Report Printed: 12/18/2012


T 17S
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VGEU 29-01
VGEU 38-03W
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VGEU 38-29
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VGEU 05-03W
VGEU 05-15
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VGEU 02-20
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VGEU 02-22W
VGEU 02-03
VGEU 25-03
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3236-001H
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VGEU 19-25
Hoover 32-2
VGEU 02-27
33
VGEU 19-01
VGEU 19-02
VGEU 19-34
T 18S
R 35E
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 25-02W
Lea County, New Mexico
0.5 Mile Radius Map
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Oil Well
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By: Mark Trees - Geologist
January 4, 2013

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Revised August 1, 2011

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	62120	Vacuum Glorieta

Property Code	Property Name	Well Number
31257	VACUUM GLORIETA EAST UNIT	25-32

OGRID No.	Operator Name	Elevation
217817	CONOCO PHILLIPS	3968'

Surface Location

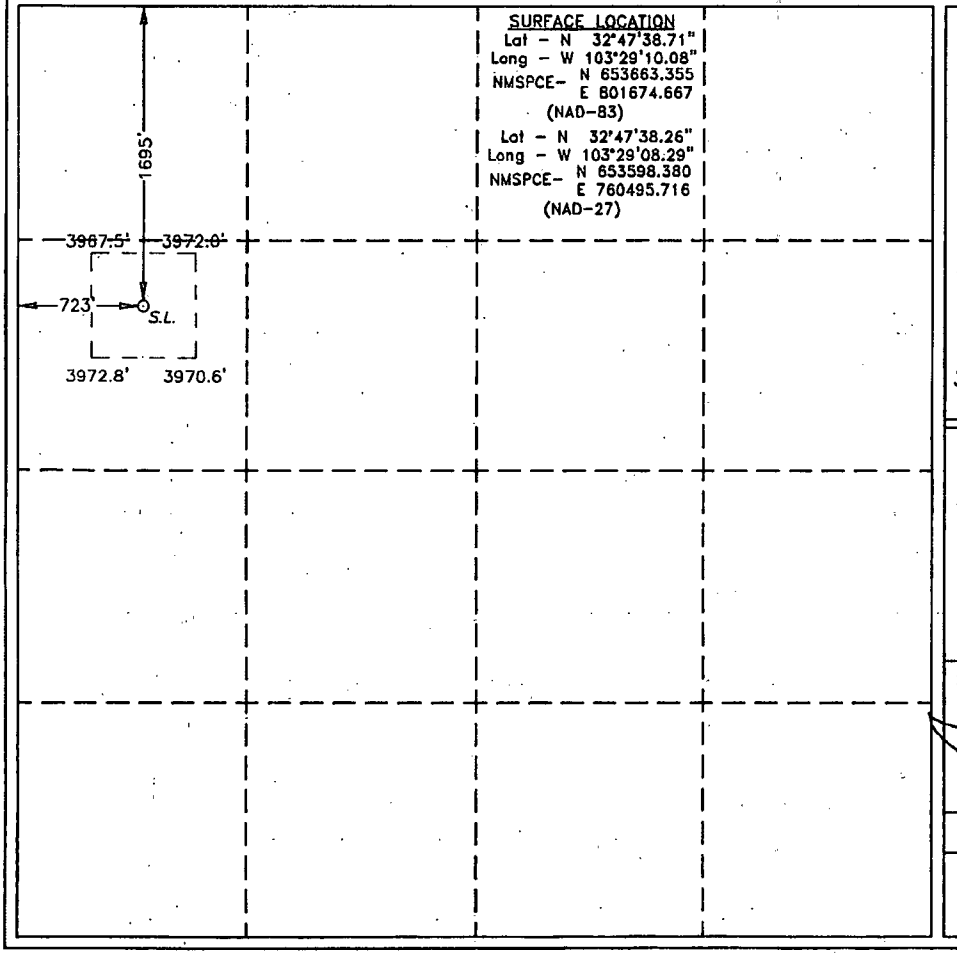
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	17 S	35 E		1695	NORTH	723	WEST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 8/29/12
Signature Date

Susan B. Maunder
Printed Name

Susan.B.Maunder@conocophillips.com
Email Address

SURVEYOR CERTIFICATION

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

GARY L. JONES
NEW MEXICO
REGISTERED PROFESSIONAL LAND SURVEYOR
26934

Date Surveyed
Signature & Seal of Professional Surveyor

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 26934

42

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 723' W and 1695' N UL E Sec.32; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 600sx lead and 300sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 880slead and 600sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6400' TVD

Injection Interval

Perforated 5934' feet to 6161'

(Perforated or Open Hole; indicate which)

43

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5 x 2.375 carbide slips NP

Packer Setting Depth: 5985'

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 ; Glorieta

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

ConocoPhillips

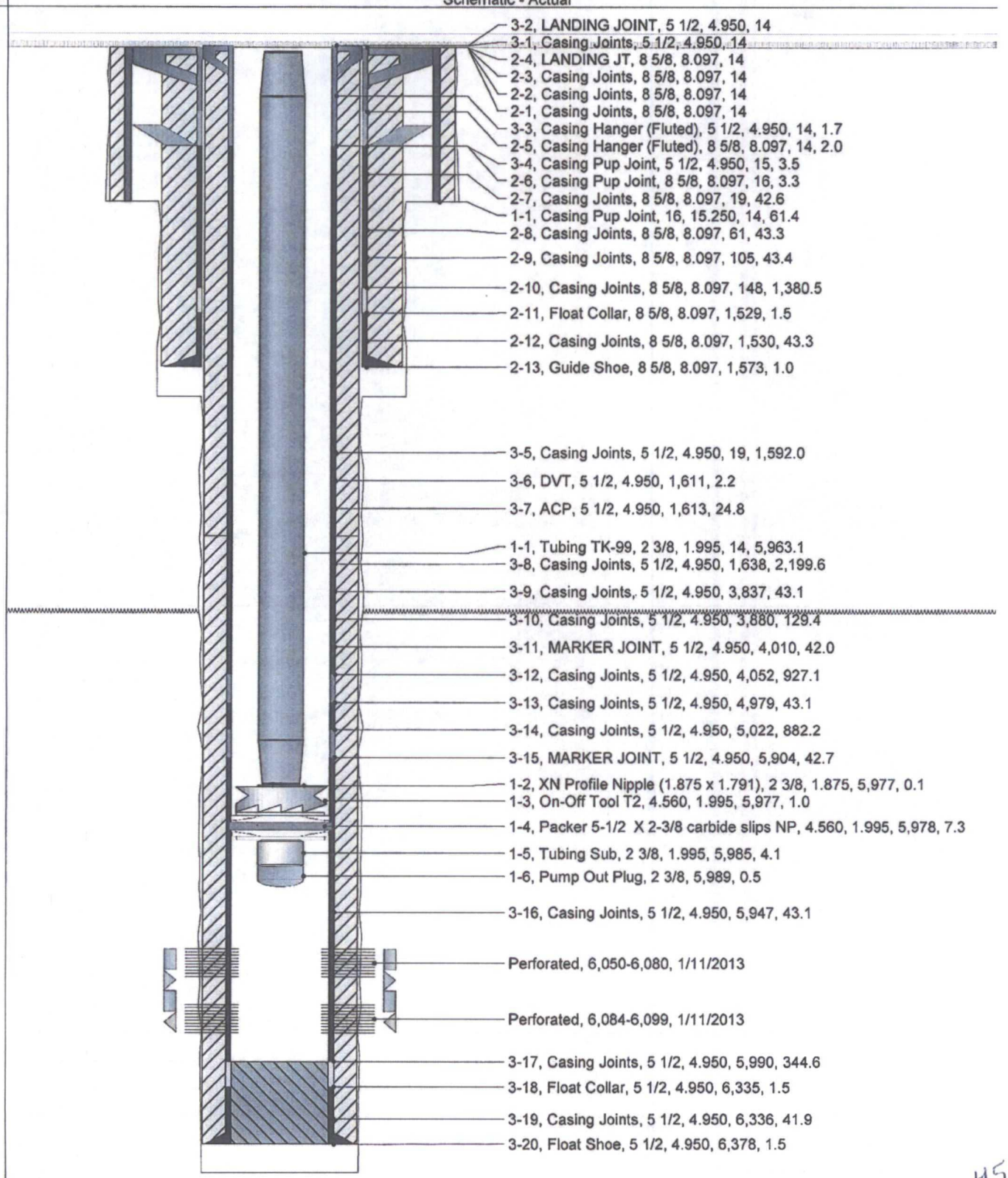
Schematic - Current

VACUUM GLORIETA EAST UNIT 025-32

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002540737	LEA	NEW MEXICO

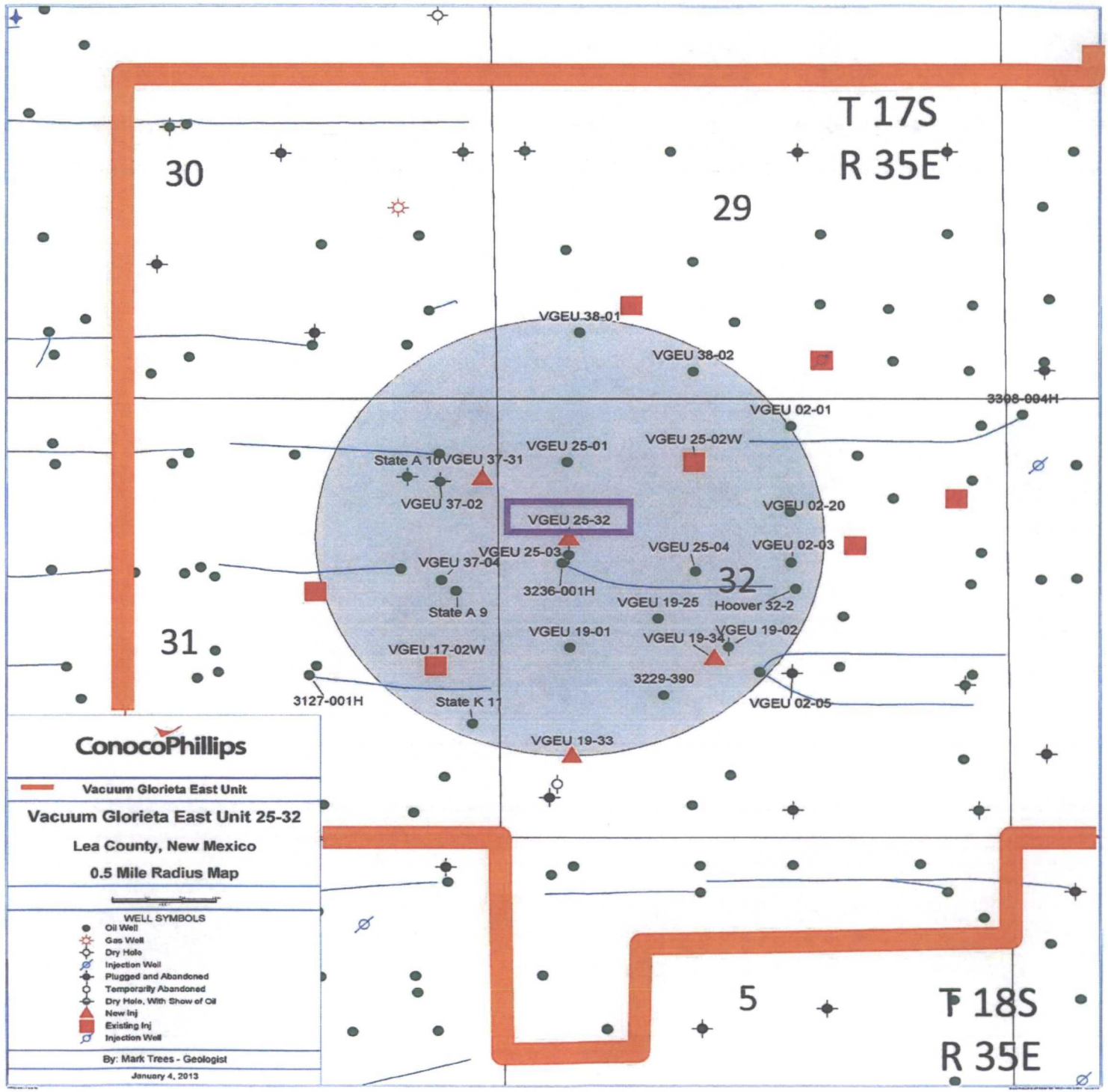
Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
12/23/2012	Section 32, Township 17S, Range 35E	723.00	FWL	1,695.00	FNL

Well Config: VERTICAL - Original Hole, 1/22/2013 6:31:17 AM



45

Report Printed: 1/22/2013


T 17S
R 35E
30
29
31
32
5
T 18S
R 35E
VGEU 38-01
VGEU 38-02
3308-004H
VGEU 02-01
VGEU 25-01
VGEU 25-02W
State A 10
VGEU 37-31
VGEU 37-02
VGEU 25-32
VGEU 02-20
VGEU 25-03
VGEU 25-04
VGEU 02-03
VGEU 37-04
3236-001H
VGEU 19-25
Hoover 32-2
State A 9
VGEU 19-01
VGEU 19-34
VGEU 19-02
VGEU 17-02W
3229-390
3127-001H
State K 11
VGEU 02-05
VGEU 19-33
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 25-32
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 4, 2013

District I
1625 N. French Dr., Hobbs, NM 88240
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Phone: (505) 334-6178 Fax: (505) 334-6170
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-20886	62160	VACUUM;GLORIRTA

[4] Property Code	[5] Property Name	[6] Well Number
31257	VACUUM GLORIETA EAST UNIT TR. 37	03

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	CONOCOPHILLIPS COMPANY	3976

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	31	17	35		2310	N	1980	E	LEA

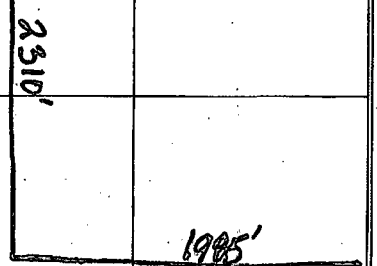
[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]



[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 01/16/2013
Signature Date

Susan B. Maunder
Printed Name

susan.b.maunder@conocophillips.com
E-mail Address

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

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

WELL LOCATION: 1980' E and 2310' N UL G; Sec.31; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 17.25" Casing Size: 13.375"

Cemented with: 660sx sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 7580sx sx. *or* _____ ft³

Top of Cement: 2735' Method Determined: _____

Total Depth: 7716' TVD

Injection Interval

Perforated 5941' feet to 6095'

(Perforated or Open Hole; indicate which)

sh

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5 x 2.375

Packer Setting Depth: 5949'

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 ; Glorieta

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

ConocoPhillips

Schematic - Current

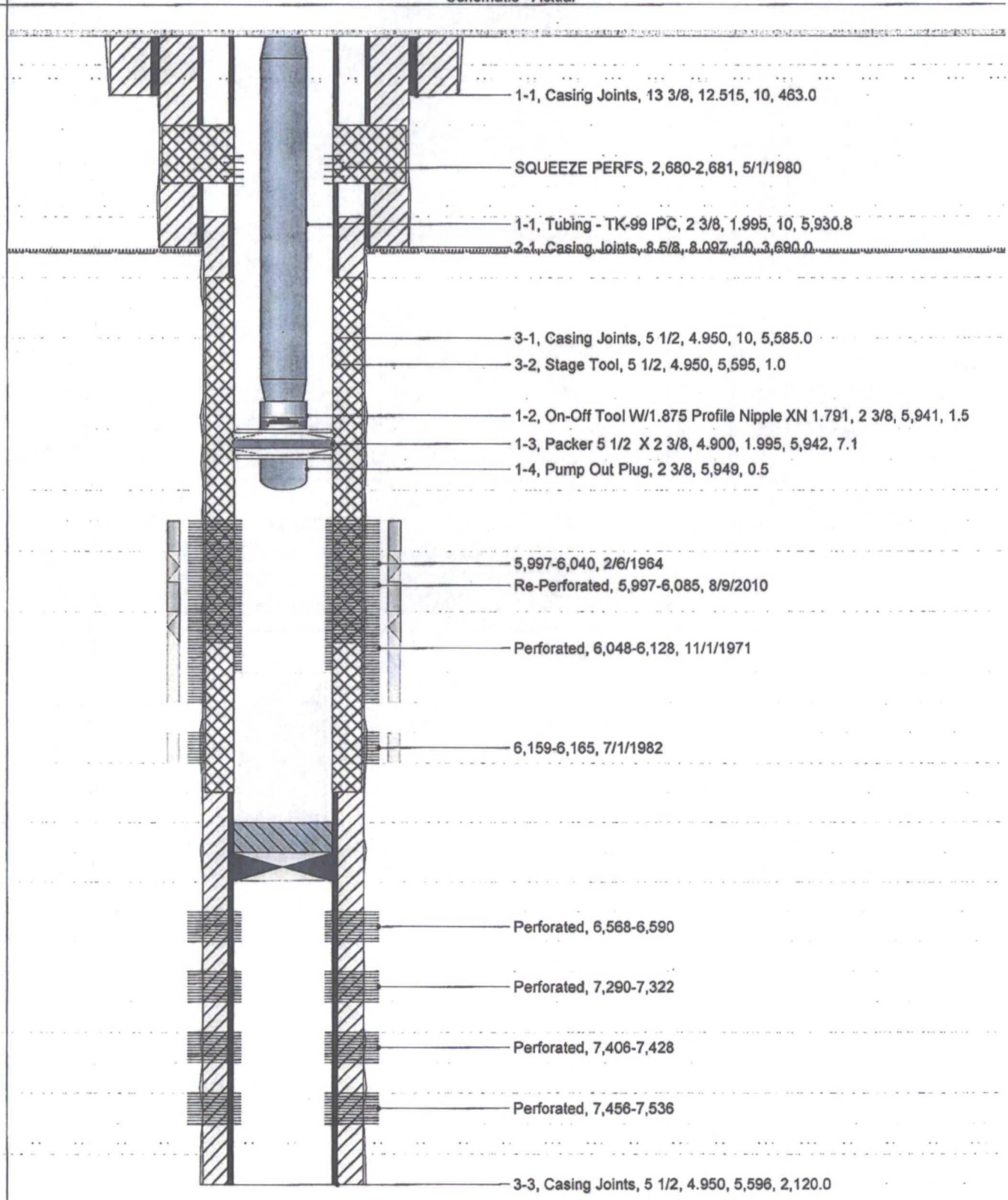
VACUUM GLORIETA EAST UNIT 37-03

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300252029000	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
1/14/1964	Section 31, T-17S, R-35E	1,980.00	E	2,310.00	N

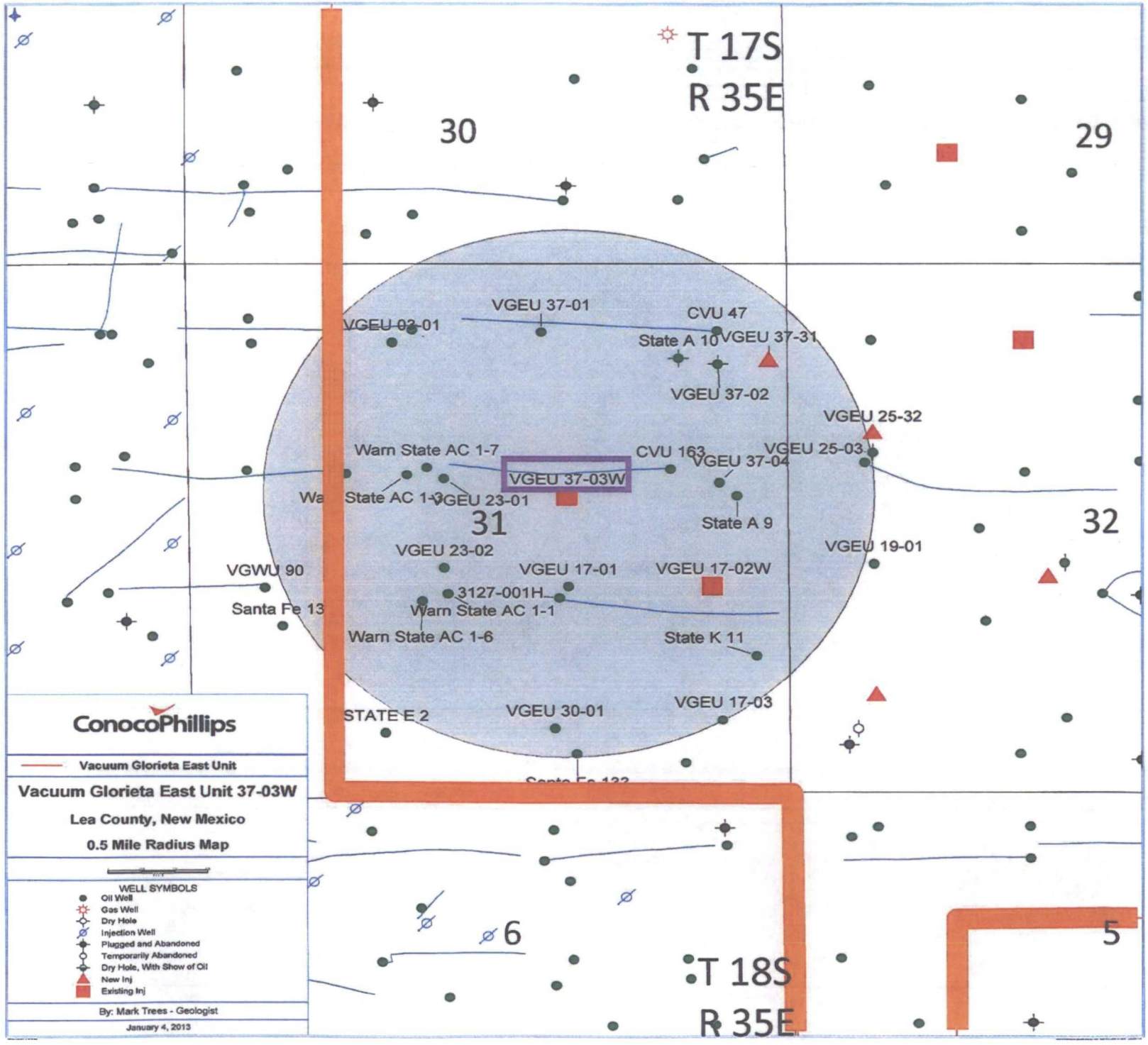
Well Config: VERTICAL - MAIN HOLE, 12/18/2012 2:06:38 PM

Schematic - Actual



Report Printed: 12/18/2012

50


T 17S
R 35E
30
29
31
32
VGEU 37-01
VGEU 03-01
CVU 47
State A 10
VGEU 37-31
VGEU 37-02
VGEU 25-32
Warn State AC 1-7
CVU 163
VGEU 25-03
VGEU 37-04
VGEU 37-03W
State AC 1-3
VGEU 23-01
State A 9
VGEU 19-01
VGEU 23-02
VGWU 90
VGEU 17-01
VGEU 17-02W
3127-001H
Santa Fe 13
Warn State AC 1-1
Warn State AC 1-6
State K 11
STATE E 2
VGEU 30-01
VGEU 17-03
6
5
T 18S
R 35E
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 37-03W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
By: Mark Trees - Geologist
January 4, 2013

DISTRICT I
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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-102
Revised August 1, 2011

Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
	62160	Vacuum Glorieta

Property Code	Property Name	Well Number
31257	VACUUM GLORIETA EAST UNIT	37-31

OGRID No.	Operator Name	Elevation
217817	CONOCO PHILLIPS	3975'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	17 S	35 E		969	NORTH	153	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	31	17 S	35 E		810	NORTH	623	EAST	LEA

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

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

LOT 1

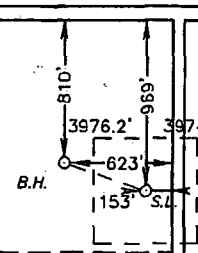
LOT 2

LOT 3

LOT 4

SURFACE LOCATION
Lat - N 32°47'46.02"
Long - W 103°29'20.36"
NMSPCE- N 654395.284
E 800790.985
(NAD-83)
Lat - N 32°47'45.58"
Long - W 103°29'18.58"
NMSPCE- N 654330.263
E 759612.057
(NAD-27)

BOTTOM HOLE LOCATION
Lat - N 32°47'47.61"
Long - W 103°29'25.87"
NMSPCE- N 654552.021
E 800319.528
(NAD-83)
Lat - N 32°47'47.17"
Long - W 103°29'24.09"
NMSPCE- N 654487.0
E 759140.6
(NAD-27)



OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 8/29/12
Signature Date

Susan B. Maunder
Printed Name

Susan.B.Maunder@conocophillips.com
Email Address

SURVEYOR CERTIFICATION

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

Date Surveyed

Signature & Seal of Professional Surveyor

GARY L. JONES
NEW MEXICO
7977
REGISTERED PROFESSIONAL SURVEYOR

Certificate No. Gary L. Jones 7977

BASIN SURVEYS 26931

52

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit 037-31 API#30-025-40736

WELL LOCATION: 153' E and 969' N UL A; Sec.31; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 600sx lead and 300sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 600sx lead and 300sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6433'

Injection Interval

Perforated 5928' feet to 6148'

(Perforated or Open Hole; indicate which)

53

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 5.5" x 2.375" Weatherford Arrow Set (proposed)

Packer Setting Depth: 6029' TVD (proposed)

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 ; Glorieta

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

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

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

hS

ConocoPhillips

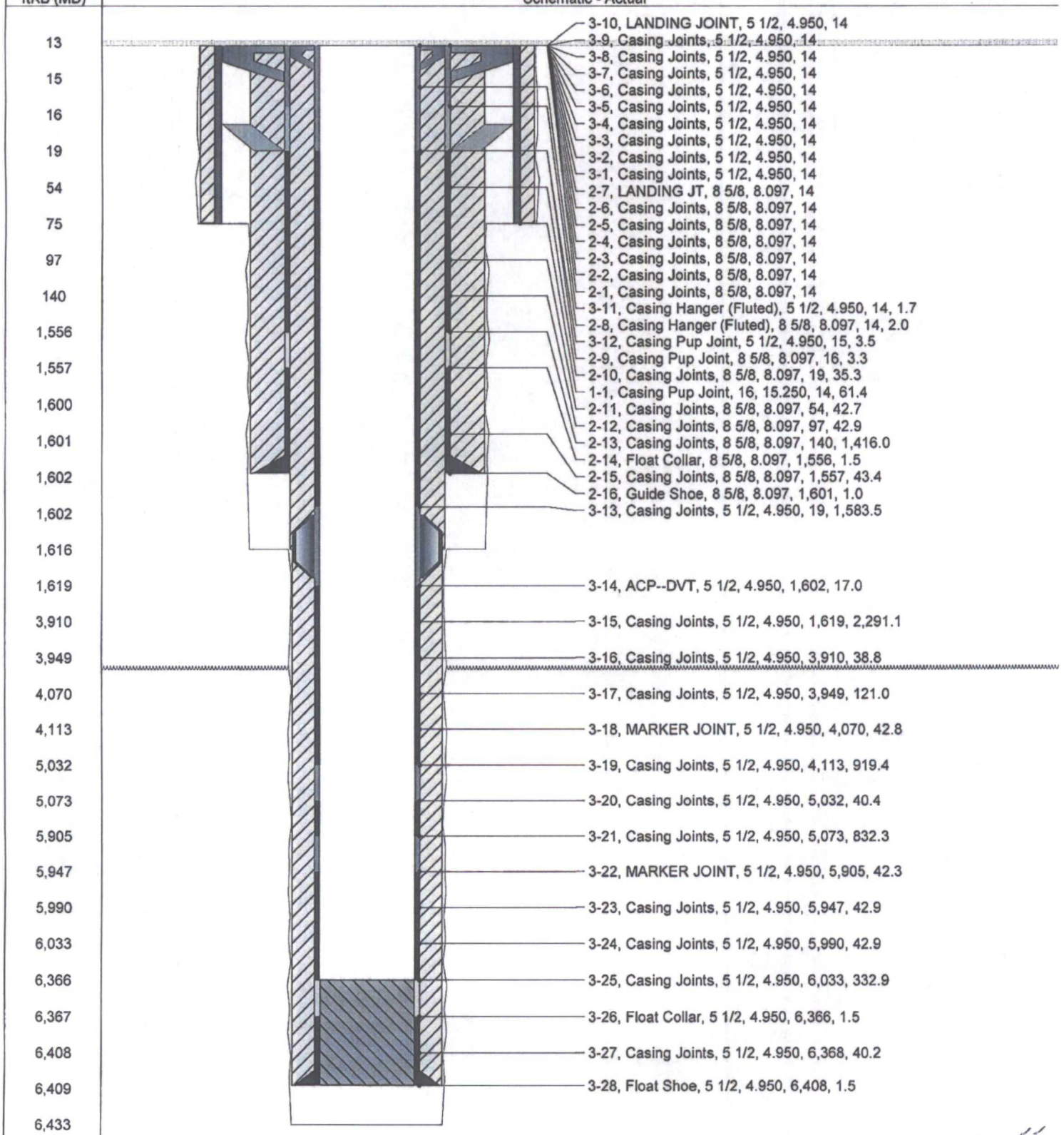
Schematic - Current

VACUUM GLORIETA EAST UNIT 037-31

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	3002540736	LEA	NEW MEXICO

Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
1/1/2013	Section 31, Township 17S, Range 35E	153.00	FEL	969.00	FNL

Well Config: VERTICAL - Original Hole, 1/22/2013 6:28:40 AM



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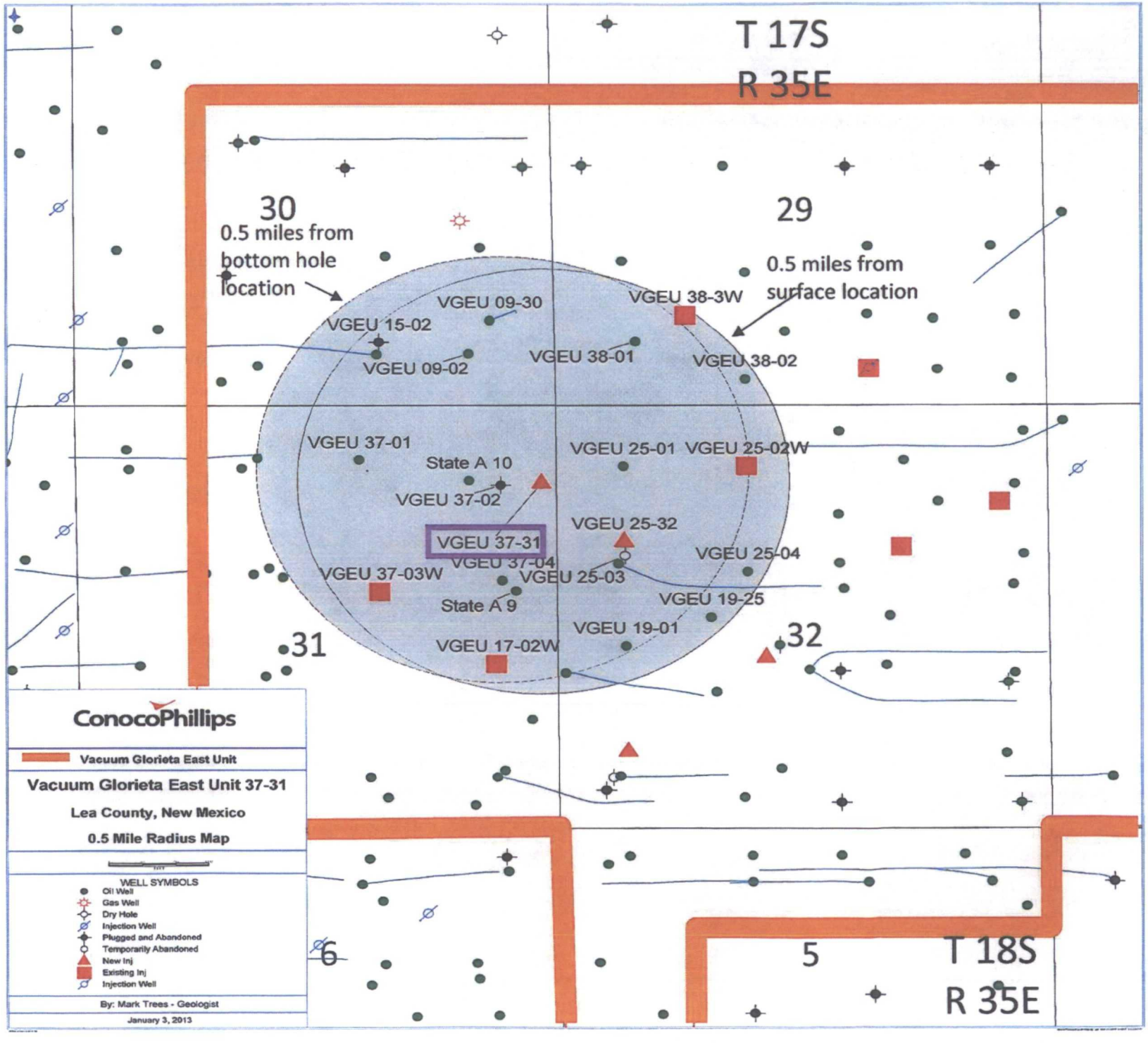
Report Printed: 1/22/2013


T 17S
R 35E
30
0.5 miles from bottom hole location
29
0.5 miles from surface location
VGEU 09-30
VGEU 38-3W
VGEU 15-02
VGEU 09-02
VGEU 38-01
VGEU 38-02
VGEU 37-01
VGEU 25-01
VGEU 25-02W
State A 10
VGEU 37-02
VGEU 25-32
VGEU 37-31
VGEU 37-04
VGEU 25-04
VGEU 37-03W
VGEU 25-03
State A 9
VGEU 19-25
VGEU 19-01
31
VGEU 17-02W
32
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 37-31
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 3, 2013
6
5
T 18S
R 35E

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OIL CONSERVATION DIVISION
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Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

[1] API Number	[2] Pool Code	[3] Pool Name
30-025-32368	96106	Glorieta

[4] Property Code	[5] Property Name	[6] Well Number
31257	Vacuum Glorieta East Unit	38-003

[7] OGRID No.	[8] Operator Name	[9] Elevation
217817	ConocoPhillips Company	3973' GL

[10] Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	29	17S	35E		1130'	South	1405'	West	LEA

[11] Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

[12] Dedicated Acres	[13] Joint or Infill	[14] Consolidation Code	[15] Order No.
40			

No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

[16]

1405'

1130'

[17] OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Susan B. Maunder 12-11-12
Signature Date

Susan. B Maunder
Printed Name

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

[18] SURVEYOR CERTIFICATION

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

Date of Survey

Signature and Seal of Professional Surveyor:

Certificate Number

Side 1

INJECTION WELL DATA SHEET

OPERATOR: ConocoPhillips Company

WELL NAME & NUMBER: Vacuum Glorieta East Unit 038-03W API#30-025-32368

WELL LOCATION: 1405' W and 1130' S UL N; Sec.29; T17S; R35E

FOOTAGE LOCATION | UNIT LETTER | SECTION | TOWNSHIP | RANGE

WELLBORE SCHEMATIC

WELL CONSTRUCTION DATA

Surface Casing

Hole Size: 12.25" Casing Size: 8.625"

Cemented with: 650sx lead and 200 tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

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: 100sx lead and 314sx tail slurry sx. *or* _____ ft³

Top of Cement: Surface Method Determined: _____

Total Depth: 6300' TVD

Injection Interval

Perforated 5958' feet to 6077'

(Perforated or Open Hole; indicate which)

58

Side 2

INJECTION WELL DATA SHEET

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

Type of Packer: 4.90" x 2.875" Baker Lock Set Packer

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 ; Glorieta

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

59

ConocoPhillips

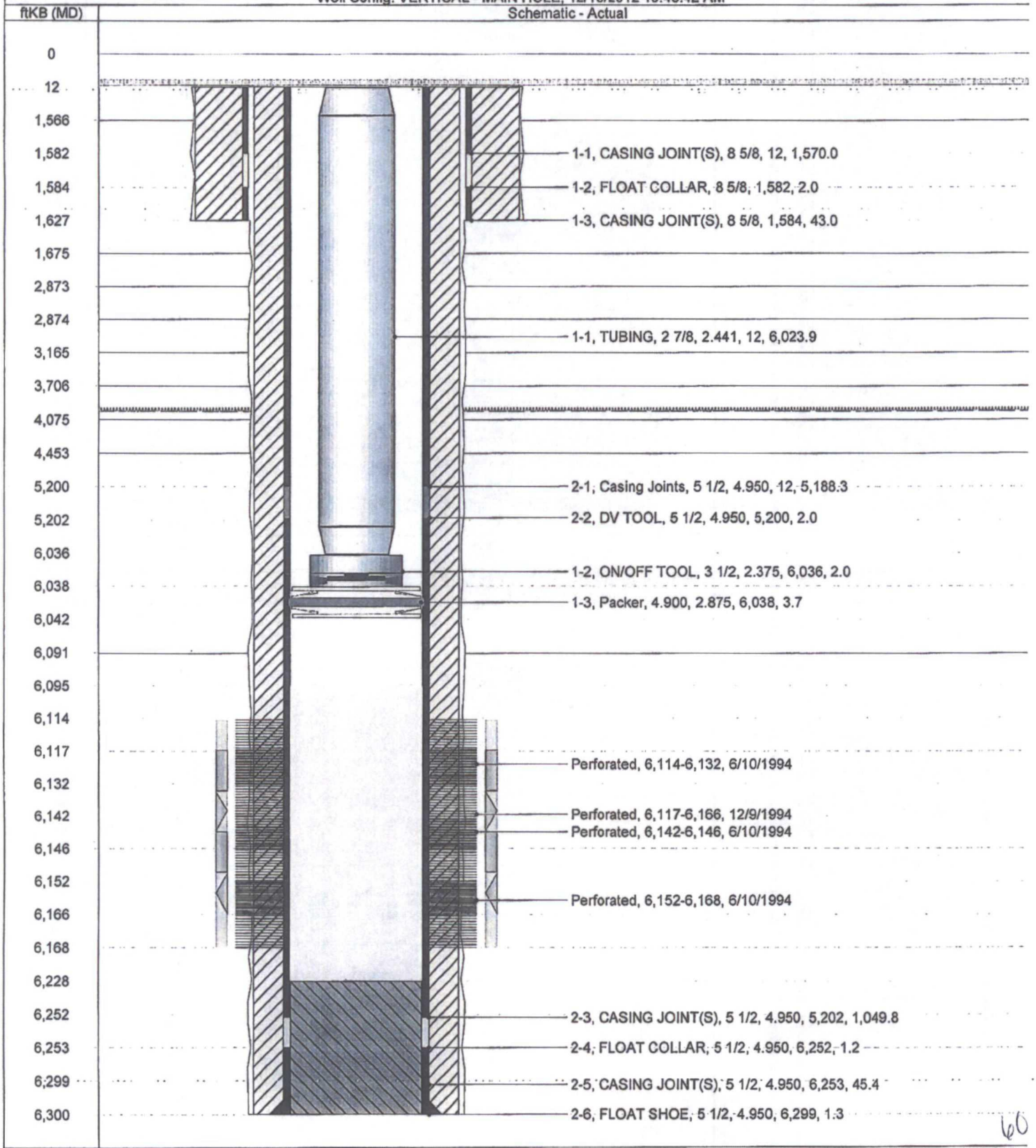
Schematic - Current

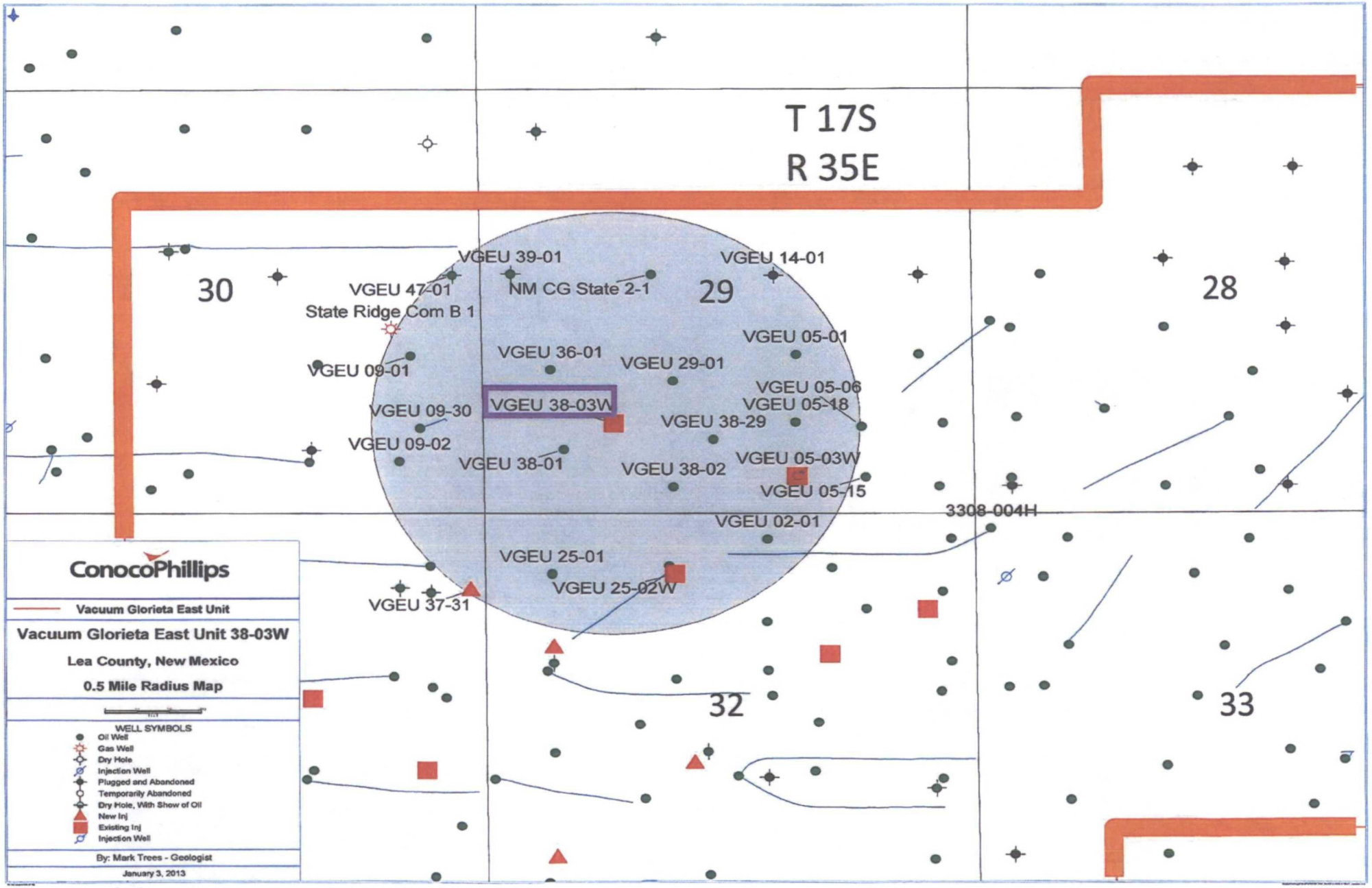
VACUUM GLORIETA EAST UNIT 038-03W

District	Field Name	API / UWI	County	State/Province
PERMIAN	VACUUM	300253236800	LEA	NEW MEXICO

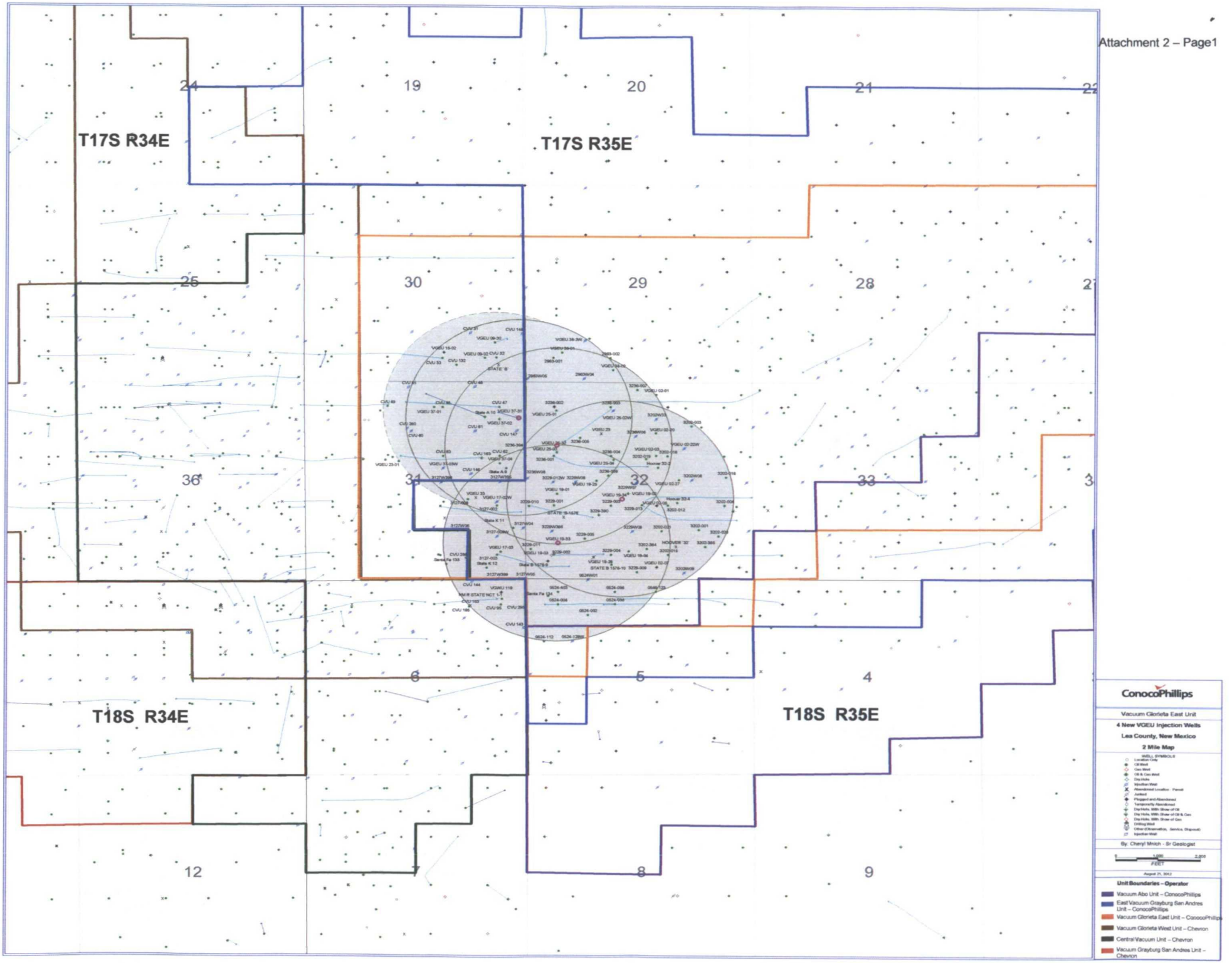
Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
3/11/1994	Sec. 29, T-17S, R-35E	1,405.00	W	1,130.00	S

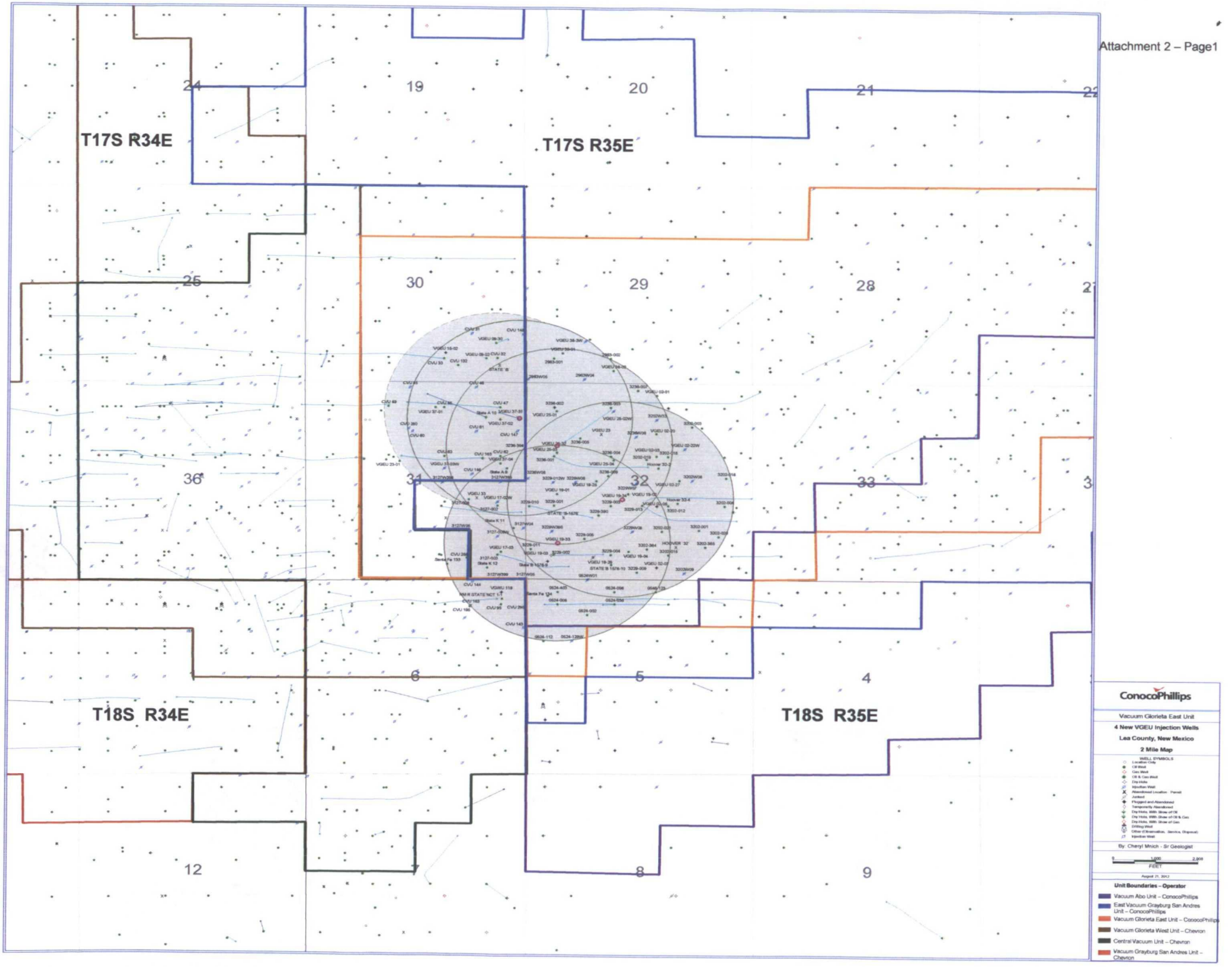
Well Config: VERTICAL - MAIN HOLE, 12/18/2012 10:43:42 AM




T 17S
R 35E
30
29
28
32
33
VGEU 39-01
VGEU 14-01
VGEU 47-01
State Ridge Com B 1
NM CG State 2-1
VGEU 05-01
VGEU 36-01
VGEU 09-01
VGEU 29-01
VGEU 05-06
VGEU 09-30
VGEU 38-03W
VGEU 05-18
VGEU 38-29
VGEU 09-02
VGEU 38-01
VGEU 38-02
VGEU 05-03W
VGEU 05-15
3308-004H
VGEU 02-01
VGEU 25-01
VGEU 25-02W
VGEU 37-31
ConocoPhillips
Vacuum Glorieta East Unit
Vacuum Glorieta East Unit 38-03W
Lea County, New Mexico
0.5 Mile Radius Map
WELL SYMBOLS
Oil Well
Gas Well
Dry Hole
Injection Well
Plugged and Abandoned
Temporarily Abandoned
Dry Hole, With Show of Oil
New Inj
Existing Inj
Injection Well
By: Mark Trees - Geologist
January 3, 2013

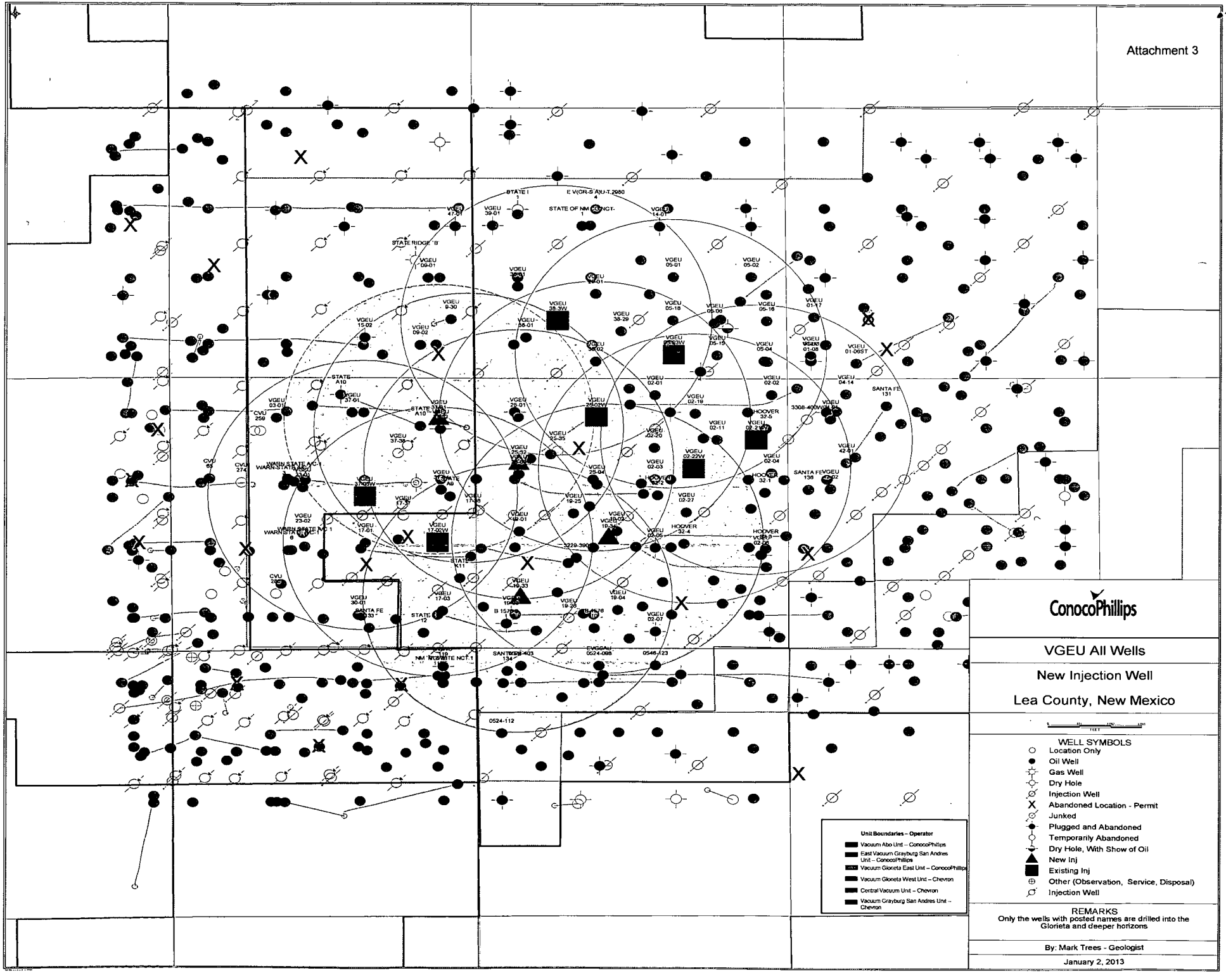
Attachment 2
Vacuum Glorieta East Unit - Maps


T17S R34E
T17S R35E
T18S R34E
T18S R35E
24
19
20
21
25
30
29
28
36
31
32
33
6
5
4
12
7
8
9
ConocoPhillips
Vacuum Glorieta East Unit
4 New VGEU Injection Wells
Lea County, New Mexico
2 Mile Map
By: Cheryl Mnich - Sr Geologist
August 21, 2012
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

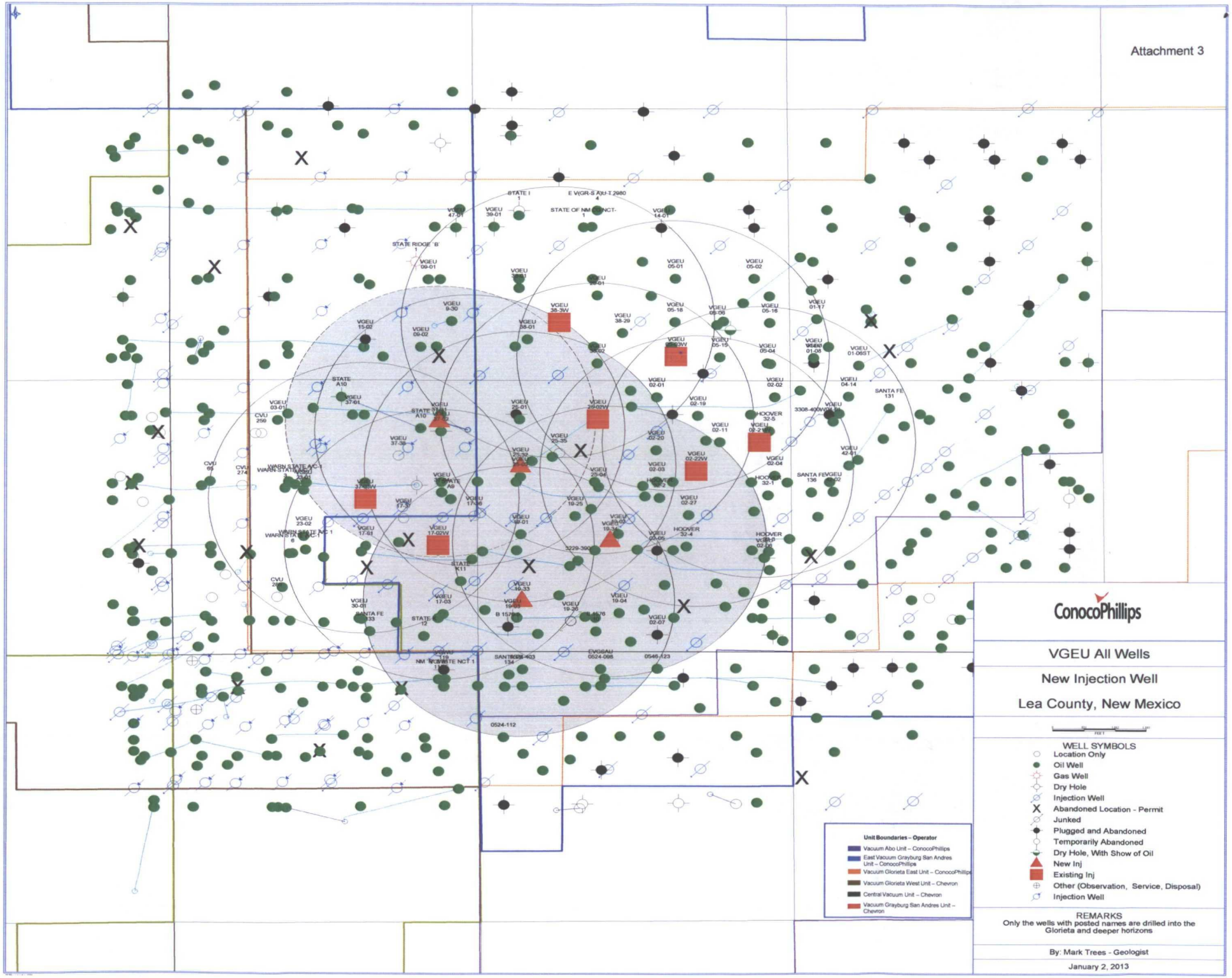

T17S R34E
T17S R35E
T18S R34E
T18S R35E
24
19
20
21
25
30
29
28
36
31
32
33
6
5
4
12
7
8
9
ConocoPhillips
Vacuum Glorieta East Unit
4 New VGEU Injection Wells
Lea County, New Mexico
2 Mile Map
WELL SYMBOLS
By: Cheryl Mnich - Sr Geologist
0
1,000
2,000
FEET
August 21, 2012
Unit Boundaries – Operator
Vacuum 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

Attachment 3
Vacuum Glorieta East Unit – Map of Wells

Attachment 3



Attachment 3



Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
3002503054	East Vacuum GBSA Unit 0524 003	EVGSAU	8/23/1938	4650	Active	Sec. 05, T18S, R35E	1980	N	660	W	Surface	1524	9 5/8	ConocoPhillips	Oil Production	875	Surface	Circulated
3002503054	East Vacuum GBSA Unit 0524 003	EVGSAU	8/23/1938	4650	Active	Sec. 05, T18S, R35E	1980	N	660	W	Production	4144	7	ConocoPhillips	Oil Production	400	1330	Calculated
3002520793	East Vacuum GBSA Unit 0524 403	EVGSAU	7/6/1964	6250	Active	Sec. 05, T18S, R35E	330	N	660	W	Surface	1595	8 5/8	ConocoPhillips	Oil Production	870	Surface	Circulated
3002520793	East Vacuum GBSA Unit 0524 403	EVGSAU	7/6/1964	6250	Active	Sec. 05, T18S, R35E	330	N	660	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	950	2900	Circulated
3002503057	East Vacuum GBSA Unit 0546 033H	EVGSAU	10/6/1939	4640	Active	Sec. 05, T18S, R35E	660	N	660	E	Surface	1562	9 5/8	ConocoPhillips	Oil Production	1000	Surface	Circulated
3002503057	East Vacuum GBSA Unit 0546 033H	EVGSAU	10/6/1939	4640	Active	Sec. 05, T18S, R35E	660	N	660	E	Production	4123	7	ConocoPhillips	Oil Production	450	2700	CBL
3002526655	East Vacuum GBSA Unit 3308 004H	EVGSAU	3/1/1980	4800	Active	Sec. 33, T17S, R35E	200	N	100	W	Surface	350	9 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
3002526655	East Vacuum GBSA Unit 3308 004H	EVGSAU	3/1/1980	4800	Active	Sec. 33, T17S, R35E	200	N	100	W	Production	4800	7	ConocoPhillips	Oil Production	1689	Surface	Circulated
3002534025	East Vacuum GBSA Unit 3308 400W	EVGSAU	8/15/1997	8150	Active	Sec. 33, T17S, R35E	800	N	330	W	Surface	1545	8 5/8	ConocoPhillips	Injection	650	Surface	Circulated
3002534025	East Vacuum GBSA Unit 3308 400W	EVGSAU	8/15/1997	8150	Active	Sec. 33, T17S, R35E	800	N	330	W	Production	8150	5 1/2	ConocoPhillips	Injection	2750	Surface	Circulated
3002502960	East Vacuum GBSA Unit 3127 001H	EVGSAU	2/23/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	1980	E	Surface	796	10 3/4	ConocoPhillips	Oil Production	170	Surface	Circulated
3002502960	East Vacuum GBSA Unit 3127 001H	EVGSAU	2/23/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	1980	E	Production	4095	7	ConocoPhillips	Oil Production	175	2698	Estimated
3002502960	East Vacuum GBSA Unit 3127 001H	EVGSAU	2/23/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	1980	E	Liner	4800	5	ConocoPhillips	Oil Production	180	3886	Estimated
3002520869	East Vacuum GBSA Unit 3374 400	EVGSAU	5/18/1964	9000	Active	Sec. 33, T17S, R35E	1700	S	990	W	Surface	355	13 3/8	ConocoPhillips	Oil Production	300	Surface	Circulated
3002520869	East Vacuum GBSA Unit 3374 400	EVGSAU	5/18/1964	9000	Active	Sec. 33, T17S, R35E	1700	S	990	W	Intermediate	3200	9 5/8	ConocoPhillips	Oil Production	1530	350	Temp Survey
3002520869	East Vacuum GBSA Unit 3374 400	EVGSAU	5/18/1964	9000	Active	Sec. 33, T17S, R35E	1700	S	990	W	Liner	4815	5 1/2	ConocoPhillips	Oil Production	475	Surface	Circulated
3002520869	East Vacuum GBSA Unit 3374 400	EVGSAU	5/18/1964	9000	Active	Sec. 33, T17S, R35E	1700	S	990	W	Liner	6369	7	ConocoPhillips	Oil Production	750	Surface	Circulated
3002526993	East Vacuum GBSA Unit 2801 017H	EVGSAU	12/3/1980	4800	Active	Sec. 28, T17S, R35E	2410	S	200	W	Surface	356	8 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
3002526993	East Vacuum GBSA Unit 2801 017H	EVGSAU	12/3/1980	4800	Active	Sec. 28, T17S, R35E	2410	S	200	W	Production	4800	5 1/2	ConocoPhillips	Oil Production	1100	Surface	Circulated
3002533594	Hoover 32 01	Hoover 32	9/28/1996	9500	Active	Sec. 32, T17S, R35E	2231	N	385	E	Surface	1600	13 3/8	Chevron USA Inc	Oil Production	800	Surface	Circulated
3002533594	Hoover 32 01	Hoover 32	9/28/1996	9500	Active	Sec. 32, T17S, R35E	2231	N	385	E	Intermediate	4800	8 5/8	Chevron USA Inc	Oil Production	900	Surface	Circulated
3002533594	Hoover 32 01	Hoover 32	9/28/1996	9500	Active	Sec. 32, T17S, R35E	2231	N	385	E	Production	9500	5 1/2	Chevron USA Inc	Oil Production	1300	4300	Estimated
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
3002533844	Hoover 32 05	Hoover 32	5/11/1997	8198	Active	Sec. 32, T17S, R35E	980	N	360	E	Surface	1467	8 5/8	Chevron USA Inc	Oil Production	1050	Surface	Circulated
3002533844	Hoover 32 05	Hoover 32	5/11/1997	8198	Active	Sec. 32, T17S, R35E	980	N	360	E	Production	8198	5 1/2	Chevron USA Inc	Oil Production	2550	Surface	Circulated
3002532019	New Mexico R State NCT 1 1	New Mexico R State NCT1	10/25/1993	8150	Active	Sec. 06, T18S, R35E	510	N	640	E	Surface	1487	8 5/8	Chevron USA Inc	Oil Production	650	Surface	Circulated
3002532019	New Mexico R State NCT 1 1	New Mexico R State NCT1	10/25/1993	8150	Active	Sec. 06, T18S, R35E	510	N	640	E	Production	8150	5 1/2	Chevron USA Inc	Oil Production	2235	Surface	Circulated
3002520957	New Mexico CG State 2 1	New Mexico CG State 2	7/27/1964	6252	P&A	Sec. 29, T17S, R35E	2310	N	1750	W	Surface	1670	11 3/4	Texaco E&P INC	Oil Production	1000	Surface	Circulated
3002520957	New Mexico CG State 2 1	New Mexico CG State 2	7/27/1964	6252	P&A	Sec. 29, T17S, R35E	2310	N	1750	W	Production	6250	2 7/8	Texaco E&P INC	Oil Production	1000	Surface	Circulated
3002533307	State Ridge Com B 1	State Ridge B Com	3/24/1996	11730	Active	Sec. 30, T18S, R35E	2310	N	990	E	Surface	1470	13 3/8	Chevron USA Inc	Gas Production	1350	Surface	Circulated
3002533307	State Ridge Com B 1	State Ridge B Com	3/24/1996	11730	Active	Sec. 30, T18S, R35E	2310	N	990	E	Intermediate	4810	9 5/8	Chevron USA Inc	Gas Production	1750	1565	Temp Survey
3002533307	State Ridge Com B 1	State Ridge B Com	3/24/1996	11730	Active	Sec. 30, T18S, R35E	2310	N	990	E	Production	10360	7	Chevron USA Inc	Gas Production	645	2500	Calculated
3002532311	Warn State AC 1 #006	Warn State AC 1	11/28/1993	10335	Active	Sec. 31, T17S, R35E	1980	S	2030	W	Surface	1492	11 3/4	Apache Corp	Oil Production	800	Surface	Circulated
3002532311	Warn State AC 1 #006	Warn State AC 1	11/28/1993	10335	Active	Sec. 31, T17S, R35E	1980	S	2030	W	Intermediate	3000	9 5/8	Apache Corp	Oil Production	600	Surface	Circulated
3002532311	Warn State AC 1 #006	Warn State AC 1	11/28/1993	10335	Active	Sec. 31, T17S, R35E	1980	S	2030	W	Production	10355	5 1/2	Apache Corp	Oil Production	2025	Unknown	Unknown
3002533951	Warn State AC 1 #007	Warn State AC 1	7/14/1997	11610	Active	Sec. 31, T17S, R35E	2036	N	2089	W	Surface	1385	11 3/4	Apache Corp	Oil Production	815	Surface	Circulated
3002533951	Warn State AC 1 #007	Warn State AC 1	7/14/1997	11610	Active	Sec. 31, T17S, R35E	2036	N	2089	W	Intermediate	3143	8 5/8	Apache Corp	Oil Production	980	Surface	Circulated
3002533951	Warn State AC 1 #007	Warn State AC 1	7/14/1997	11610	Active	Sec. 31, T17S, R35E	2036	N	2089	W	Production	11610	5 1/2	Apache Corp	Oil Production	2440	Unknown	Unknown
3002533052	Warn State AC 1 #001	Warn State AC 1	9/1/1995	12740	Active	Sec. 31, T17S, R35E	2036	S	2260	W	Surface	1508	13 3/8	Chevron USA Inc	Oil Production	1175	Surface	Circulated
3002533052	Warn State AC 1 #001	Warn State AC 1	9/1/1995	12740	Active	Sec. 31, T17S, R35E	2036	S	2260	W	Intermediate	4797	9 5/8	Chevron USA Inc	Oil Production	1600	2310	CBL
3002533052	Warn State AC 1 #001	Warn State AC 1	9/1/1995	12740	Active	Sec. 31, T17S, R35E	2036	S	2260	W	Production	12740	7	Chevron USA Inc	Oil Production	2000	Surface	Circulated
3002520748	Warn State AC 1 #003	Warn State AC 1	12/31/1999	10301	P&A	Sec. 31, T17S, R35E	2080	N	1908	W				Marathon Oil Co				
3002540466	Central Vacuum Unit #274	New drill-may be unfinished												Chevron USA Inc				
3002540464	Central Vacuum Unit #259	New drill-may be unfinished												Chevron USA Inc				
3002521096	Vacuum Glorieta East Unit 17 #001	Vacuum Glorieta East Unit	2/19/1965	6200	Active	Sec. 31, T17S, R35E	2110	S	1980	E	Surface	1545	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
3002521096	Vacuum Glorieta East Unit 17 #001	Vacuum Glorieta East Unit	2/19/1965	6200	Active	Sec. 31, T17S, R35E	2110	S	1980	E	Production	6200	4 1/2	ConocoPhillips	Oil Production	2675	Surface	Circulated
3002540739	Vacuum Glorieta East Unit 19-033	Vacuum Glorieta East Unit	12/3/2012	6425	Inactive	Sec. 32, T17S, R35E	968	S	733	W	Surface	1651	8 5/8	ConocoPhillips	Injection	1060	Surface	Circulated
3002540739	Vacuum Glorieta East Unit 19-033	Vacuum Glorieta East Unit	12/3/2012	6425	Inactive	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	Inactive	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	Inactive	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	Inactive	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	Inactive	Sec. 32, T17S, R35E	1695	N	723	W	Production	6380	5 1/2	ConocoPhillips	Injection	1770	Surface	Circulated
3002530437	Vacuum Glorieta East Unit 1-006 ST	Vacuum Glorieta East Unit	11/19/1988	7785	Active	Sec. 28, T17S, R35E	1195	S	2518	E	Surface	469	13 3/8	ConocoPhillips	Oil Production	183	Surface	Circulated
3002530437	Vacuum Glorieta East Unit 1-006 ST	Vacuum Glorieta East Unit	11/19/1988	7785	Active	Sec. 28, T17S, R35E	1195	S	2518	E	Intermediate	4764	8 5/8	ConocoPhillips	Oil Production	1950	500	Estimated

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
3002530437	Vacuum Glorieta East Unit 1-006 ST	Vacuum Glorieta East Unit	11/19/1988	7785	Active	Sec. 28, T17S, R35E	1195	S	2518	E	Production	6300	5 1/2	ConocoPhillips	Oil Production	206	3850	Estimated
3002520854	Vacuum Glorieta East Unit 3-001	Vacuum Glorieta East Unit	7/15/1964	6800	Active	Sec. 31, T17S, R35E	760	N	1790	W	Surface	1615	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002520854	Vacuum Glorieta East Unit 3-001	Vacuum Glorieta East Unit	7/15/1964	6800	Active	Sec. 31, T17S, R35E	760	N	1790	W	Production	6800	5 1/2	ConocoPhillips	Oil Production	2480	Surface	Temp Survey
3002520826	Vacuum Glorieta East Unit 36-001	Vacuum Glorieta East Unit	7/13/1964	6250	Active	Sec. 29, T17S, R35E	1800	S	660	W	Surface	1613	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002520826	Vacuum Glorieta East Unit 36-001	Vacuum Glorieta East Unit	7/13/1964	6250	Active	Sec. 29, T17S, R35E	1800	S	660	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	750	4500	Circulated
3002520749	Vacuum Glorieta East Unit 23 #002	Vacuum Glorieta East Unit	4/27/1964	6250	Active	Sec. 31, T17S, R35E	2311	S	2226	W	Surface	1503	8 5/8	ConocoPhillips	Oil Production	1130	Surface	Circulated
3002520749	Vacuum Glorieta East Unit 23 #002	Vacuum Glorieta East Unit	4/27/1964	6250	Active	Sec. 31, T17S, R35E	2311	S	2226	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	1600	1585	Temp Survey
3002520796	Vacuum Glorieta East Unit 30 #001	Vacuum Glorieta East Unit	7/26/1964	6200	Active	Sec. 31, T17S, R35E	690	S	2110	E	Surface	1581	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
3002520796	Vacuum Glorieta East Unit 30 #001	Vacuum Glorieta East Unit	7/26/1964	6200	Active	Sec. 31, T17S, R35E	690	S	2110	E	Production	6200	4 1/2	ConocoPhillips	Oil Production	800	2300	Temp Survey
3002520799	Vacuum Glorieta East Unit 32 #001	Vacuum Glorieta East Unit	9/5/1964	6225	P & A	Sec. 29, T17S, R35E	2323	N	660	E	Surface	1688	8 5/8	ConocoPhillips	Oil Production	640	Surface	Circulated
3002520799	Vacuum Glorieta East Unit 32 #001	Vacuum Glorieta East Unit	9/5/1964	6225	P & A	Sec. 29, T17S, R35E	2323	N	660	E	Production	6225	4 1/2	ConocoPhillips	Oil Production	800	2600	Temp Survey
3002520290	Vacuum Glorieta East Unit 37 #003	Vacuum Glorieta East Unit	1/14/1964	7716	Active	Sec. 31, T17S, R35E	2310	N	1980	E	Surface	3700	8 5/8	ConocoPhillips	Injection	660	Surface	Circulated
3002520290	Vacuum Glorieta East Unit 37 #003	Vacuum Glorieta East Unit	1/14/1964	7716	Active	Sec. 31, T17S, R35E	2310	N	1980	E	Production	7716	5 1/2	ConocoPhillips	Injection	7580	2735	CBL
3002540736	Vacuum Glorieta East Unit 37 #031	Vacuum Glorieta East Unit	12/31/2012	6433	Inactive	Sec. 31, T17S, R35E	969	N	153	E	Surface	1602	8 5/8	ConocoPhillips	Injection	900	Surface	Circulated
3002540736	Vacuum Glorieta East Unit 37 #031	Vacuum Glorieta East Unit	12/31/2012	6433	Inactive	Sec. 31, T17S, R35E	969	N	153	E	Production	6419	5 1/2	ConocoPhillips	Injection	1470	Surface	Circulated
3002520958	Vacuum Glorieta East Unit 47 #001*	Vacuum Glorieta East Unit	6/5/1964	6250	P & A	Sec. 30, T17S, R35E	2310	N	400	E	Surface	1650	11 3/4	ConocoPhillips	Oil Production	1000	Surface	Circulated
3002520958	Vacuum Glorieta East Unit 47 #001*	Vacuum Glorieta East Unit	6/5/1964	6250	P & A	Sec. 30, T17S, R35E	2310	N	400	E	Production	6250	2 7/8	ConocoPhillips	Oil Production	1200	3000	Calculated
300252579500	Central Vacuum Unit #031	Central Vacuum Unit	2/18/1978	4800	Active	Sec. 30, T17S, R35E	1330	S	1330	E	Surface	400	8 5/8	Chevron	Injection	425	Surface	Circulated
300252579500	Central Vacuum Unit #031	Central Vacuum Unit	2/18/1978	4800	Active	Sec. 30, T17S, R35E	1330	S	1330	E	Production	4800	4 1/2	Chevron	Injection	1800	Surface	Circulated
300250294400	Central Vacuum Unit #032	Central Vacuum Unit	8/7/1938	4775	Active	Sec. 30, T17S, R35E	660	S	660	E	Surface	1575	8 5/8	Chevron	Oil Production	600	Unknown	Unknown
300250294400	Central Vacuum Unit #032	Central Vacuum Unit	8/7/1938	4775	Active	Sec. 30, T17S, R35E	660	S	660	E	Production	4300	5 1/2	Chevron	Oil Production	275	Unknown	Unknown
300250854500	Central Vacuum Unit #033	Central Vacuum Unit	2/14/1938	4705	T.A.	Sec. 30, T17S, R35E	660	S	1980	E	Surface	255	13	Chevron	Oil Production	225	Surface	Circulated
300250854500	Central Vacuum Unit #033	Central Vacuum Unit	2/14/1938	4705	T.A.	Sec. 30, T17S, R35E	660	S	1980	E	Intermediate	1540	9 5/8	Chevron	Oil Production	275	Unknown	Unknown
300250854500	Central Vacuum Unit #033	Central Vacuum Unit	2/14/1938	4705	T.A.	Sec. 30, T17S, R35E	660	S	1980	E	Production	4104	7	Chevron	Oil Production	400	Unknown	Unknown
300252572000	Central Vacuum Unit #045	Central Vacuum Unit	2/9/1978	4800	Active	Sec. 31, T17S, R35E	121	N	2475	W	Surface	387	8 5/8	Chevron	Injection	425	Surface	Circulated
300252572000	Central Vacuum Unit #045	Central Vacuum Unit	2/9/1978	4800	Active	Sec. 31, T17S, R35E	121	N	2475	W	Production	4800	4 1/2	Chevron	Injection	2200	Unknown	Unknown
300252581800	Central Vacuum Unit #046	Central Vacuum Unit	2/20/1978	4800	Active	Sec. 31, T17S, R35E	119	N	1224	E	Surface	408	8 5/8	Chevron	Injection	425	Surface	Circulated
300252581800	Central Vacuum Unit #046	Central Vacuum Unit	2/20/1978	4800	Active	Sec. 31, T17S, R35E	119	N	1224	E	Production	4800	4 1/2	Chevron	Injection	1700	Surface	Circulated
300250853200	Central Vacuum Unit #047	Central Vacuum Unit	9/25/1938	6736	Active	Sec. 31, T17S, R35E	660	N	660	E	Surface	1558	8 5/8	Chevron	Oil Production	600	Surface	Calculated
300250853200	Central Vacuum Unit #047	Central Vacuum Unit	9/25/1938	6736	Active	Sec. 31, T17S, R35E	660	N	660	E	Production	4299	5 1/2	Chevron	Oil Production	275	2894	Calculated
300250853400	Central Vacuum Unit #048	Central Vacuum Unit	3/6/1938	4664	Active	Sec. 31, T17S, R35E	660	S	1980	W	Surface	1538	8 5/8	Chevron	Oil Production	600	Unknown	Unknown
300250853400	Central Vacuum Unit #048	Central Vacuum Unit	3/6/1938	4664	Active	Sec. 31, T17S, R35E	660	S	1980	W	Production	4270	5 1/2	Chevron	Oil Production	275	Unknown	Unknown
300250295800	Central Vacuum Unit #049	Central Vacuum Unit	11/19/1937	6548	Active	Sec. 31, T17S, R35E	660	N	1980	W	Surface	172	16	Chevron	Oil Production	150	Surface	Circulated
300250295800	Central Vacuum Unit #049	Central Vacuum Unit	11/19/1937	6548	Active	Sec. 31, T17S, R35E	660	N	1980	W	Intermediate	1545	10 3/4	Chevron	Oil Production	300	Unknown	Unknown
300250295800	Central Vacuum Unit #049	Central Vacuum Unit	11/19/1937	6548	Active	Sec. 31, T17S, R35E	660	N	1980	W	Production	4109	7	Chevron	Oil Production	350	Unknown	Unknown
300252570700	Central Vacuum Unit #060	Central Vacuum Unit	11/30/1977	4800	P & A	Sec. 31, T17S, R35E	1310	N	2535	W	Surface	365	8 5/8	Chevron	Injection	400	Surface	Circulated
300252570700	Central Vacuum Unit #060	Central Vacuum Unit	11/30/1977	4800	P & A	Sec. 31, T17S, R35E	1310	N	2535	W	Production	4800	4 1/2	Chevron	Injection	2270	Surface	Circulated
300252581900	Central Vacuum Unit #061	Central Vacuum Unit	2/5/1978	4800	Active	Sec. 31, T17S, R35E	1310	N	1230	E	Surface	395	8 5/8	Chevron	Injection	425	Surface	Circulated
300252581900	Central Vacuum Unit #061	Central Vacuum Unit	2/5/1978	4800	Active	Sec. 31, T17S, R35E	1310	N	1230	E	Production	4800	4 1/2	Chevron	Injection	2200	Surface	Circulated
300250853100	Central Vacuum Unit #062	Central Vacuum Unit	7/1/1938	4690	Active	Sec. 31, T17S, R35E	1980	N	660	E	Surface	1536	8 5/8	Chevron	Oil Production	600	Unknown	Unknown
300250853100	Central Vacuum Unit #062	Central Vacuum Unit	7/1/1938	4690	Active	Sec. 31, T17S, R35E	1980	N	660	E	Production	4275	5 1/2	Chevron	Oil Production	275	Unknown	Unknown
300250853300	Central Vacuum Unit #063	Central Vacuum Unit	4/30/1938	4667	Active	Sec. 31, T17S, R35E	1980	N	1980	E	Surface	1533	8 5/8	Chevron	Oil Production	600	Surface	Calculated
300250853300	Central Vacuum Unit #063	Central Vacuum Unit	4/30/1938	4667	Active	Sec. 31, T17S, R35E	1980	N	1980	E	Production	4276	5 1/2	Chevron	Oil Production	275	2900	Calculated
300250308800	Central Vacuum Unit #095	Central Vacuum Unit	7/11/1938	4710	Active	Sec. 6, T18S, R35E	660	N	660	E	Surface	249	10 3/8	Chevron	Oil Production	200	Unknown	Unknown
300250308800	Central Vacuum Unit #095	Central Vacuum Unit	7/11/1938	4710	Active	Sec. 6, T18S, R35E	660	N	660	E	Intermediate	1536	7 5/8	Chevron	Oil Production	250	Unknown	Unknown
300250308800	Central Vacuum Unit #095	Central Vacuum Unit	7/11/1938	4710	Active	Sec. 6, T18S, R35E	660	N	660	E	Production	4112	5 1/2	Chevron	Oil Production	200	Unknown	Unknown
300252380100	Central Vacuum Unit #132	Central Vacuum Unit	6/28/1971	4750	Active	Sec. 30, T17S, R35E	475	S	1650	E	Surface	397	8 5/8	Chevron	Oil Production	350	Surface	Circulated
300252380100	Central Vacuum Unit #132	Central Vacuum Unit	6/28/1971	4750	Active	Sec. 30, T17S, R35E	475	S	1650	E	Production	4750	4 1/2	Chevron	Oil Production	150	2650	Temp Survey
300252678700	Central Vacuum Unit #143W	Central Vacuum Unit	10/8/1980	4800	Active	Sec. 6, T18S, R35E	1310	N	50	E	Surface	365	13 3/8	Chevron	Injection	450	Surface	Circulated
300252678700	Central Vacuum Unit #143W	Central Vacuum Unit	10/8/1980	4800	Active	Sec. 6, T18S, R35E	1310	N	50	E	Intermediate	1510	9 5/8	Chevron	Injection	1000	Surface	Circulated
300252678700	Central Vacuum Unit #143W	Central Vacuum Unit	10/8/1980	4800	Active	Sec. 6, T18S, R35E	1310	N	50	E	Production	4800	4 1/2	Chevron	Injection	2725	Surface	Circulated
300252678800	Central Vacuum Unit #144	Central Vacuum Unit	9/16/1980	4800	Active	Sec. 6, T18S, R35E	35	N	1330	E	Surface	355	13 3/8	Chevron	Injection	450	Surface	Circulated
300252678800	Central Vacuum Unit #144	Central Vacuum Unit	9/16/1980	4800	Active	Sec. 6, T18S, R35E	35	N	1330	E	Intermediate	2751	7	Chevron	Injection	650	Surface	Circulated
300252678800	Central Vacuum Unit #144	Central Vacuum Unit	9/16/1980	4800	Active	Sec. 6, T18S, R35E	35	N	1330	E	Production	4800	4 1/2	Chevron	Injection	700	25	Temp Survey
300252679000	Central Vacuum Unit #146	Central Vacuum Unit	7/14/1980	4800	Active	Sec. 31, T17S, R35E	2465	N	1335	E	Surface	357	13 3/8	Chevron	Injection	500	Surface	Circulated
300252679000	Central Vacuum Unit #146	Central Vacuum Unit	7/14/1980	4800	Active	Sec. 31, T17S, R35E	2465	N	1335	E	Intermediate	1540	8 5/8	Chevron	Injection	1200	Surface	Circulated

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300252679000	Central Vacuum Unit #146	Central Vacuum Unit	7/14/1980	4800	Active	Sec. 31, T17S, R35E	2465	N	1335	E	Production	4800	4 1/2	Chevron	Injection	2800	1000	Temp Survey
300252679100	Central Vacuum Unit #147	Central Vacuum Unit	7/26/1980	4800	Active	Sec. 31, T17S, R35E	1310	N	200	E	Surface	380	13 3/8	Chevron	Injection	425	Surface	Circulated
300252679100	Central Vacuum Unit #147	Central Vacuum Unit	7/26/1980	4800	Active	Sec. 31, T17S, R35E	1310	N	200	E	Intermediate	1513	8 5/8	Chevron	Injection	1100	Surface	Circulated
300252679100	Central Vacuum Unit #147	Central Vacuum Unit	7/26/1980	4800	Active	Sec. 31, T17S, R35E	1310	N	200	E	Production	4800	4 1/2	Chevron	Injection	3000	Surface	Circulated
300252679200	Central Vacuum Unit #148	Central Vacuum Unit	10/25/1980	4800	Active	Sec. 30, T17S, R35E	1310	S	50	E	Surface	375	13 3/8	Chevron	Injection	500	Surface	Circulated
300252679200	Central Vacuum Unit #148	Central Vacuum Unit	10/25/1980	4800	Active	Sec. 30, T17S, R35E	1310	S	50	E	Intermediate	1550	8 5/8	Chevron	Injection	1100	Surface	Circulated
300252679200	Central Vacuum Unit #148	Central Vacuum Unit	10/25/1980	4800	Active	Sec. 30, T17S, R35E	1310	S	50	E	Production	4800	4 1/2	Chevron	Injection	2650	Surface	Circulated
300253634200	Central Vacuum Unit #163	Central Vacuum Unit	8/4/2003	6391	Active	Sec. 31, T17S, R35E	2050	N	1014	E	Surface	1550	8 5/8	Chevron	Oil Production	1200	Surface	Unknown
300253634200	Central Vacuum Unit #163	Central Vacuum Unit	8/4/2003	6391	Active	Sec. 31, T17S, R35E	2050	N	1014	E	Production	4800	5 1/2	Chevron	Oil Production	850	Surface	Unknown
300253280200	Central Vacuum Unit #195	Central Vacuum Unit	2/19/1995	4850	Active	Sec. 06, T18S, R35E	729	N	1313	E	Surface	1517	8 5/8	Chevron	Oil Production	650	Surface	Circulated
300253280200	Central Vacuum Unit #195	Central Vacuum Unit	2/19/1995	4850	Active	Sec. 06, T18S, R35E	729	N	1313	E	Production	4850	5 1/2	Chevron	Oil Production	877	Surface	Circulated
300253723300	Central Vacuum Unit #260	Central Vacuum Unit	6/30/2005	4815	Active	Sec. 31, T17S, R35E	1235	N	2456	W	Surface	1507	8 5/8	Chevron	Injection	980	Unknown	Unknown
300253723300	Central Vacuum Unit #260	Central Vacuum Unit	6/30/2005	4815	Active	Sec. 31, T17S, R35E	1235	N	2456	W	Production	4815	5 1/2	Chevron	Injection	925	Surface	Circulated
300253494300	Central Vacuum Unit #286	Central Vacuum Unit	3/26/2000	4843	Active	Sec. 31, T17S, R35E	584	S	1383	E	Surface	1550	8 5/8	Chevron	Oil Production	815	Surface	Circulated
300253494300	Central Vacuum Unit #286	Central Vacuum Unit	3/26/2000	4843	Active	Sec. 31, T17S, R35E	584	S	1383	E	Production	4843	5 1/2	Chevron	Oil Production	950	Surface	Circulated
300253494400	Central Vacuum Unit #295	Central Vacuum Unit	3/17/2000	4860	Active	Sec. 6, T18S, R35E	669	N	10	E	Surface	1545	8 5/8	Chevron	Oil Production	990	Surface	Circulated
300253494400	Central Vacuum Unit #295	Central Vacuum Unit	3/17/2000	4860	Active	Sec. 6, T18S, R35E	669	N	10	E	Production	4860	5 1/2	Chevron	Oil Production	950	Surface	Circulated
300252639400	East Vacuum GBSA Unit 0524001W	EVGSAU	10/12/1979	4805	Active	Sec. 5, T18S, R35E	10	N	1443	W	Surface	350	13 3/8	ConocoPhillips	Injection	675	Surface	Circulated
300252639400	East Vacuum GBSA Unit 0524001W	EVGSAU	10/12/1979	4805	Active	Sec. 5, T18S, R35E	10	N	1443	W	Production	4800	5 1/2	ConocoPhillips	Injection	1950	Surface	Circulated
300252692900	East Vacuum GBSA Unit 0524002	EVGSAU	8/24/1980	4800	Active	Sec. 5, T18S, R35E	950	N	1350	W	Surface	349	9 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300252692900	East Vacuum GBSA Unit 0524002	EVGSAU	8/24/1980	4800	Active	Sec. 5, T18S, R35E	950	N	1350	W	Production	4800	7	ConocoPhillips	Oil Production	1220	Surface	Circulated
300250305500	East Vacuum GBSA Unit 0524008	EVGSAU	6/26/1938	4637	Active	Sec. 5, T18S, R35E	660	N	660	W	Surface	814	10 3/4	ConocoPhillips	Oil Production	440	Surface	Circulated
300250305500	East Vacuum GBSA Unit 0524008	EVGSAU	6/26/1938	4637	Active	Sec. 5, T18S, R35E	660	N	660	W	Production	4104	7 5/8	ConocoPhillips	Oil Production	400	Unknown	Unknown
300250305800	East Vacuum GBSA Unit 0524036	EVGSAU	11/29/1939	4645	Active	Sec. 5, T18S, R35E	660	N	1980	W	Surface	1561	9 5/8	ConocoPhillips	Oil Production	650	Surface	Circulated
300250305800	East Vacuum GBSA Unit 0524036	EVGSAU	11/29/1939	4645	Active	Sec. 5, T18S, R35E	660	N	1980	W	Production	4122	7 5/8	ConocoPhillips	Oil Production	400	1330	Calculated
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
300252165100	East Vacuum GBSA Unit 0524112	EVGSAU	1/2/1966	6250	Active	Sec. 5, T18S, R35E	1655	N	330	W	Surface	1530	8 5/8	ConocoPhillips	Oil Production	650	Surface	Circulated
300252165100	East Vacuum GBSA Unit 0524112	EVGSAU	1/2/1966	6250	Active	Sec. 5, T18S, R35E	1655	N	330	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	800	2600	Temp Survey
300252490600	East Vacuum GBSA Unit 0524129W	EVGSAU	2/20/1975	4850	Active	Sec. 5, T18S, R35E	998	S	990	W	Surface	389	8 5/8	ConocoPhillips	Injection	375	Surface	Circulated
300252490600	East Vacuum GBSA Unit 0524129W	EVGSAU	2/20/1975	4850	Active	Sec. 5, T18S, R35E	998	S	990	W	Production	4839	5 1/2	ConocoPhillips	Injection	300	2710	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
300250293600	East Vacuum GBSA Unit 2963001	EVGSAU	9/10/1938	4747	Active	Sec. 29, T17S, R35E	660	S	660	W	Surface	1575	8 5/8	ConocoPhillips	Oil Production	600	Unknown	Unknown
300250293600	East Vacuum GBSA Unit 2963001	EVGSAU	9/10/1938	4747	Active	Sec. 29, T17S, R35E	660	S	660	W	Production	4315	5 1/2	ConocoPhillips	Oil Production	275	Unknown	Unknown
300250293700	East Vacuum GBSA Unit 2963002	EVGSAU	11/9/1938	4770	Active	Sec. 29, T17S, R35E	660	S	1980	W	Surface	1584	8 5/8	ConocoPhillips	Oil Production	600	Unknown	Unknown
300250293700	East Vacuum GBSA Unit 2963002	EVGSAU	11/9/1938	4770	Active	Sec. 29, T17S, R35E	660	S	1980	W	Production	4320	5 1/2	ConocoPhillips	Oil Production	275	Unknown	Unknown
300252639800	East Vacuum GBSA Unit 2963004W	EVGSAU	10/12/1979	4800	Active	Sec. 29, T17S, R35E	100	S	1310	W	Surface	356	8 5/8	ConocoPhillips	Injection	400	Surface	Circulated & Dumped
300252639800	East Vacuum GBSA Unit 2963004W	EVGSAU	10/12/1979	4800	Active	Sec. 29, T17S, R35E	100	S	1310	W	Production	4800	5 1/2	ConocoPhillips	Injection	1300	Surface	Circulated & 1"
300252686100	East Vacuum GBSA Unit 2963005W	EVGSAU	8/31/1980	4800	Active	Sec. 29, T17S, R35E	90	S	50	W	Surface	356	8 5/8	ConocoPhillips	Injection	400	Surface	Circulated
300252686100	East Vacuum GBSA Unit 2963005W	EVGSAU	8/31/1980	4800	Active	Sec. 29, T17S, R35E	90	S	50	W	Production	4799	4 1/2	ConocoPhillips	Injection	400	Surface	Circulated
300250296100	East Vacuum GBSA Unit 3127002	EVGSAU	4/1/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	660	E	Surface	800	10 3/4	ConocoPhillips	Oil Production	220	Unknown	Unknown
300250296100	East Vacuum GBSA Unit 3127002	EVGSAU	4/1/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	660	E	Production	4097	7 5/8	ConocoPhillips	Oil Production	220	Unknown	Unknown
300250296100	East Vacuum GBSA Unit 3127002	EVGSAU	4/1/1938	4800	Active	Sec. 31, T17S, R35E	1980	S	660	E	Liner	4800	5	ConocoPhillips	Oil Production	100	Unknown	Unknown
300250296200	East Vacuum GBSA Unit 3127003	EVGSAU	5/15/1938	4641	Active	Sec. 31, T17S, R35E	660	S	660	E	Surface	808	10 3/4	ConocoPhillips	Oil Production	220	Unknown	Unknown
300250296200	East Vacuum GBSA Unit 3127003	EVGSAU	5/15/1938	4641	Active	Sec. 31, T17S, R35E	660	S	660	E	Production	4109	7	ConocoPhillips	Oil Production	240	Unknown	Unknown
300250296200	East Vacuum GBSA Unit 3127003	EVGSAU	5/15/1938	5909	Active	Sec. 31, T17S, R35E	660	S	660	E	Liner	5909	4 1/2	ConocoPhillips	Oil Production	29	Unknown	Unknown
300252692600	East Vacuum GBSA Unit 3127004W	EVGSAU	9/11/1980	4800	Active	Sec. 31, T17S, R35E	1375	S	50	E	Surface	369	9 5/8	ConocoPhillips	Injection	400	Surface	Circulated
300252692600	East Vacuum GBSA Unit 3127004W	EVGSAU	9/11/1980	4800	Active	Sec. 31, T17S, R35E	1375	S	50	E	Production	4798	7	ConocoPhillips	Injection	1100	Surface	Circulated
300252686200	East Vacuum GBSA Unit 3127005W	EVGSAU	7/13/1980	4800	Active	Sec. 31, T17S, R35E	10	S	10	E	Surface	360	16	ConocoPhillips	Injection	1200	Surface	Circulated
300252686200	East Vacuum GBSA Unit 3127005W	EVGSAU	7/13/1980	4800	Active	Sec. 31, T17S, R35E	10	S	10	E	Intermediate	1450	10 3/4	ConocoPhillips	Injection	1500	Surface	Circulated
300252686200	East Vacuum GBSA Unit 3127005W	EVGSAU	7/13/1980	4800	Active	Sec. 31, T17S, R35E	10	S	10	E	Production	4796	5 1/2	ConocoPhillips	Injection	1575	Surface	Circulated
300252686300	East Vacuum GBSA Unit 3127006W	EVGSAU	6/25/1980	4811	Active	Sec. 31, T17S, R35E	1330	S	1530	E	Surface	400	13 3/8	ConocoPhillips	Injection	450	Surface	Circulated
300252686300	East Vacuum GBSA Unit 3127006W	EVGSAU	6/25/1980	4811	Active	Sec. 31, T17S, R35E	1330	S	1530	E	Intermediate	1505	10 3/4	ConocoPhillips	Injection	500	Unknown	Unknown
300252686300	East Vacuum GBSA Unit 3127006W	EVGSAU	6/25/1980	4811	Active	Sec. 31, T17S, R35E	1330	S	1530	E	Production	4808	5 1/2	ConocoPhillips	Injection	1800	Surface	Circulated
300253027800	East Vacuum GBSA Unit 3127008	EVGSAU	7/1/1988	4800	Active	Sec. 31, T17S, R35E	2173	S	1410	E	Surface	1520	13 3/8	ConocoPhillips	Oil Production	1400	Surface	Circulated

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300253027800	East Vacuum GBSA Unit 3127008	EVGSAU	7/1/1988	4800	Active	Sec. 31, T17S, R35E	2173	S	1410	E	Production	4800	5 1/2	ConocoPhillips	Oil Production	2100	Surface	Circulated
300253027900	East Vacuum GBSA Unit 3127009W	EVGSAU	6/20/1988	4800	Active	Sec. 31, T17S, R35E	1175	S	740	E	Surface	1521	13 3/8	ConocoPhillips	Injection	1000	Surface	Circulated
300253027900	East Vacuum GBSA Unit 3127009W	EVGSAU	6/20/1988	4800	Active	Sec. 31, T17S, R35E	1175	S	740	E	Intermediate	3150	8 5/8	ConocoPhillips	Injection	2500	Unknown	Unknown
300253027900	East Vacuum GBSA Unit 3127009W	EVGSAU	6/20/1988	4800	Active	Sec. 31, T17S, R35E	1175	S	740	E	Production	4800	5 1/2	ConocoPhillips	Injection	900	Surface	Circulated
300253483200	East Vacuum GBSA Unit 3127395W	EVGSAU	5/3/2000	4848	Active	Sec. 31, T17S, R35E	2630	S	575	E	Surface	1,565.00	8 5/8	ConocoPhillips	Injection	815	Surface	Circulated
300253483200	East Vacuum GBSA Unit 3127395W	EVGSAU	5/3/2000	4848	Active	Sec. 31, T17S, R35E	2630	S	575	E	Intermediate	4,848.00	5 1/2	ConocoPhillips	Injection	950	Surface	Circulated
300253483300	East Vacuum GBSA Unit 3127396W	EVGSAU	4/24/2000	4850	Active	Sec. 31, T17S, R35E	2630	S	1910	E	Surface	1,549.00	8 5/8	ConocoPhillips	Injection	815	Surface	Circulated
300253483300	East Vacuum GBSA Unit 3127396W	EVGSAU	4/24/2000	4850	Active	Sec. 31, T17S, R35E	2630	S	1910	E	Intermediate	4,849.00	5 1/2	ConocoPhillips	Injection	950	Surface	Circulated
300253483600	East Vacuum GBSA Unit 3127399W	EVGSAU	5/20/2000	4850	Active	Sec. 31, T17S, R35E	10	S	660	E	Surface	1,559.00	8 5/8	ConocoPhillips	Injection	815	Surface	Circulated
300253483600	East Vacuum GBSA Unit 3127399W	EVGSAU	5/20/2000	4850	Active	Sec. 31, T17S, R35E	10	S	660	E	Production	4,837.00	5 1/2	ConocoPhillips	Injection	950	Surface	Circulated
300252622700	East Vacuum GBSA Unit 3202001	EVGSAU	4/30/1979	4900	Active	Sec. 32, T17S, R35E	1330	S	1310	E	Surface	360	13 3/8	ConocoPhillips	Oil Production	675	Unknown	Unknown
300252622700	East Vacuum GBSA Unit 3202001	EVGSAU	4/30/1979	4900	Active	Sec. 32, T17S, R35E	1330	S	1310	E	Production	4882	7	ConocoPhillips	Oil Production	1695	Surface	Circulated
300252622800	East Vacuum GBSA Unit 3202003	EVGSAU	7/4/1979	4900	Active	Sec. 32, T17S, R35E	1180	N	1480	E	Surface	354	13 3/8	ConocoPhillips	Oil Production	675	Unknown	Unknown
300252622800	East Vacuum GBSA Unit 3202003	EVGSAU	7/4/1979	4900	Active	Sec. 32, T17S, R35E	1180	N	1480	E	Production	4885	7	ConocoPhillips	Oil Production	1630	Surface	Circulated
300250296400	East Vacuum GBSA Unit 3202004	EVGSAU	3/20/1939	4670	Active	Sec. 32, T17S, R35E	1987	S	660	E	Surface	255	10 3/4	ConocoPhillips	Oil Production	125	Unknown	Unknown
300250296400	East Vacuum GBSA Unit 3202004	EVGSAU	3/20/1939	4670	Active	Sec. 32, T17S, R35E	1987	S	660	E	Intermediate	1531	7 5/8	ConocoPhillips	Oil Production	400	Unknown	Unknown
300250296400	East Vacuum GBSA Unit 3202004	EVGSAU	3/20/1939	4670	Active	Sec. 32, T17S, R35E	1987	S	660	E	Production	4150	5 1/2	ConocoPhillips	Oil Production	250	Unknown	Unknown
3002526400	East Vacuum GBSA Unit 3202008W	EVGSAU	10/4/1979	4800	Active	Sec. 32, T17S, R35E	2630	N	1468	E	Surface	356	8 5/8	ConocoPhillips	Injection	300	Surface	Circulated
3002526400	East Vacuum GBSA Unit 3202008W	EVGSAU	10/4/1979	4800	Active	Sec. 32, T17S, R35E	2630	N	1468	E	Production	4800	5 1/2	ConocoPhillips	Injection	2005	Surface	Circulated
300252651800	East Vacuum GBSA Unit 3202009W	EVGSAU	11/11/1979	4805	Active	Sec. 32, T17S, R35E	175	S	1650	E	Surface	364	8 5/8	ConocoPhillips	Injection	300	Surface	Circulated
300252651800	East Vacuum GBSA Unit 3202009W	EVGSAU	11/11/1979	4805	Active	Sec. 32, T17S, R35E	175	S	1650	E	Production	4801	5 1/2	ConocoPhillips	Injection	1900	Surface	Circulated
300250296800	East Vacuum GBSA Unit 3202012	EVGSAU	1/29/1940	4650	Active	Sec. 32, T17S, R35E	1988	S	1980	E	Surface	244	10 3/4	ConocoPhillips	Oil Production	150	Surface	Circulated
300250296800	East Vacuum GBSA Unit 3202012	EVGSAU	1/29/1940	4650	Active	Sec. 32, T17S, R35E	1988	S	1980	E	Intermediate	1536	7 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300250296800	East Vacuum GBSA Unit 3202012	EVGSAU	1/29/1940	4650	Active	Sec. 32, T17S, R35E	1988	S	1980	E	Production	4150	5 1/2	ConocoPhillips	Oil Production	250	Unknown	Unknown
300250296900	East Vacuum GBSA Unit 3202015	EVGSAU	2/20/1940	4650	Active	Sec. 32, T17S, R35E	663	S	1980	E	Surface	260	10 3/4	ConocoPhillips	Oil Production	150	Surface	Circulated
300250296900	East Vacuum GBSA Unit 3202015	EVGSAU	2/20/1940	4650	Active	Sec. 32, T17S, R35E	663	S	1980	E	Intermediate	1523	7 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300250296900	East Vacuum GBSA Unit 3202015	EVGSAU	2/20/1940	4650	Active	Sec. 32, T17S, R35E	663	S	1980	E	Production	4148	5 1/2	ConocoPhillips	Oil Production	250	Unknown	Unknown
300250297000	East Vacuum GBSA Unit 3202016	EVGSAU	3/14/1940	4650	Active	Sec. 32, T17S, R35E	1980	N	1980	E	Surface	262	10 3/4	ConocoPhillips	Oil Production	Unknown	Unknown	Unknown
300250297000	East Vacuum GBSA Unit 3202016	EVGSAU	3/14/1940	4650	Active	Sec. 32, T17S, R35E	1980	N	1980	E	Intermediate	1543	7 5/8	ConocoPhillips	Oil Production	400	Unknown	Unknown
300250297000	East Vacuum GBSA Unit 3202016	EVGSAU	3/14/1940	4650	Active	Sec. 32, T17S, R35E	1980	N	1980	E	Production	4133	5 1/2	ConocoPhillips	Oil Production	225	Unknown	Unknown
300253001500	East Vacuum GBSA Unit 3202018	EVGSAU	5/18/1988	4800	Active	Sec. 32, T17S, R35E	2560	N	680	W	Surface	1545	8 5/8	ConocoPhillips	Oil Production	1000	Surface	Circulated
300253001500	East Vacuum GBSA Unit 3202018	EVGSAU	5/18/1988	4800	Active	Sec. 32, T17S, R35E	2560	N	680	W	Production	4800	5 1/2	ConocoPhillips	Oil Production	1200	Surface	Circulated
300253002000	East Vacuum GBSA Unit 3202019	EVGSAU	10/10/1987	4800	Active	Sec. 32, T17S, R35E	2065	N	2540	E	Surface	1514	8 5/8	ConocoPhillips	Oil Production	1000	Surface	Circulated
300253002000	East Vacuum GBSA Unit 3202019	EVGSAU	10/10/1987	4800	Active	Sec. 32, T17S, R35E	2065	N	2540	E	Production	4800	5 1/2	ConocoPhillips	Oil Production	1250	Surface	Circulated
300253206700	East Vacuum GBSA Unit 3202020	EVGSAU	10/28/1993	4850	Active	Sec. 32, T17S, R35E	1158	S	850	E	Surface	1575	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300253206700	East Vacuum GBSA Unit 3202020	EVGSAU	10/28/1993	4850	Active	Sec. 32, T17S, R35E	1158	S	850	E	Production	4850	5 1/2	ConocoPhillips	Oil Production	1100	Surface	Circulated
300253206600	East Vacuum GBSA Unit 3202021	EVGSAU	10/17/1993	4830	Active	Sec. 32, T17S, R35E	1300	S	2180	E	Surface	1575	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300253206600	East Vacuum GBSA Unit 3202021	EVGSAU	10/17/1993	4830	Active	Sec. 32, T17S, R35E	1300	S	2180	E	Production	4830	5 1/2	ConocoPhillips	Oil Production	1150	Surface	Circulated
300252390300	East Vacuum GBSA Unit 3202033W	EVGSAU	10/25/1971	4750	Active	Sec. 32, T17S, R35E	990	N	2306	E	Surface	1592	8 5/8	ConocoPhillips	Injection	800	Surface	Circulated
300252390300	East Vacuum GBSA Unit 3202033W	EVGSAU	10/25/1971	4750	Active	Sec. 32, T17S, R35E	990	N	2306	E	Production	4750	5 1/2	ConocoPhillips	Injection	280	Unknown	Unknown
300253266200	East Vacuum GBSA Unit 3202384	EVGSAU	10/11/1994	4750	Active	Sec. 32, T17S, R35E	825	S	2524	E	Surface	1,611.00	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated & 1"
300253266200	East Vacuum GBSA Unit 3202384	EVGSAU	10/11/1994	4750	Active	Sec. 32, T17S, R35E	825	S	2524	E	Production	4,750.00	5 1/2	ConocoPhillips	Oil Production	1075	Unknown	Unknown
300253266300	East Vacuum GBSA Unit 3202385	EVGSAU	10/19/1994	4750	Active	Sec. 32, T17S, R35E	875	S	1160	E	Surface	1,635.00	8 5/8	ConocoPhillips	Oil Production	750	Surface	Circulated
300253266300	East Vacuum GBSA Unit 3202385	EVGSAU	10/19/1994	4750	Active	Sec. 32, T17S, R35E	875	S	1160	E	Production	4,750.00	5 1/2	ConocoPhillips	Oil Production	975	Surface	Circulated
300250297200	East Vacuum GBSA Unit 3229001	EVGSAU	3/11/1969	4799	Active	Sec. 32, T17S, R35E	1980	S	660	W	Surface	290	13 3/8	ConocoPhillips	Oil Production	290	Unknown	Unknown
300250297200	East Vacuum GBSA Unit 3229001	EVGSAU	3/11/1969	4799	Active	Sec. 32, T17S, R35E	1980	S	660	W	Intermediate	1545	9 5/8	ConocoPhillips	Oil Production	200	Unknown	Unknown
300250297200	East Vacuum GBSA Unit 3229001	EVGSAU	3/11/1969	4799	Active	Sec. 32, T17S, R35E	1980	S	660	W	Production	4100	7	ConocoPhillips	Oil Production	225	Unknown	Unknown
300250297200	East Vacuum GBSA Unit 3229001	EVGSAU	3/11/1969	4799	Active	Sec. 32, T17S, R35E	1980	S	660	W	Liner	4799	5	ConocoPhillips	Oil Production	100	Unknown	Unknown
300250297300	East Vacuum GBSA Unit 3229002	EVGSAU	5/29/1938	5521	Active	Sec. 32, T17S, R35E	660	S	660	W	Surface	276	13	ConocoPhillips	Oil Production	200	Surface	Circulated
300250297300	East Vacuum GBSA Unit 3229002	EVGSAU	5/29/1938	5521	Active	Sec. 32, T17S, R35E	660	S	660	W	Intermediate	1544	8 5/8	ConocoPhillips	Oil Production	200	Unknown	Unknown
300250297300	East Vacuum GBSA Unit 3229002	EVGSAU	5/29/1938	5521	Active	Sec. 32, T17S, R35E	660	S	660	W	Intermediate	4140	5 1/2	ConocoPhillips	Oil Production	225	Unknown	Unknown
300250297300	East Vacuum GBSA Unit 3229002	EVGSAU	5/29/1938	5521	Active	Sec. 32, T17S, R35E	660	S	660	W	Liner	4801	4	ConocoPhillips	Oil Production	60	Unknown	Unknown
300250297400	East Vacuum GBSA Unit 3229003	EVGSAU	8/17/1939	4800	Active	Sec. 32, T17S, R35E	1980	S	1980	W	Surface	270	13 3/8	ConocoPhillips	Oil Production	200	Unknown	Unknown
300250297400	East Vacuum GBSA Unit 3229003	EVGSAU	8/17/1939	4800	Active	Sec. 32, T17S, R35E	1980	S	1980	W	Intermediate	1540	8 5/8	ConocoPhillips	Oil Production	200	Unknown	Unknown
300250297400	East Vacuum GBSA Unit 3229003	EVGSAU	8/17/1939	4800	Active	Sec. 32, T17S, R35E	1980	S	1980	W	Production	4150	5 1/2	ConocoPhillips	Oil Production	230	Unknown	Unknown
300250297400	East Vacuum GBSA Unit 3229003	EVGSAU	8/17/1939	4800	Active	Sec. 32, T17S, R35E	1980	S	1980	W	Liner	4800	4 1/2	ConocoPhillips	Oil Production	17	Unknown	Unknown

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300250297500	East Vacuum GBSA Unit 3229004	EVGSAU	9/30/1939	4660	Active	Sec. 32, T17S, R35E	660	S	1980	W	Surface	275	13	ConocoPhillips	Oil Production	220	Unknown	Unknown
300250297500	East Vacuum GBSA Unit 3229004	EVGSAU	9/30/1939	4660	Active	Sec. 32, T17S, R35E	660	S	1980	W	Intermediate	1540	8 5/8	ConocoPhillips	Oil Production	275	Unknown	Unknown
300250297500	East Vacuum GBSA Unit 3229004	EVGSAU	9/30/1939	4660	Active	Sec. 32, T17S, R35E	660	S	1980	W	Production	4150	5 1/2	ConocoPhillips	Oil Production	225	Unknown	Unknown
300252623000	East Vacuum GBSA Unit 3229005	EVGSAU	4/24/1979	4900	Active	Sec. 32, T17S, R35E	1110	S	1290	W	Surface	352	13 3/8	ConocoPhillips	Oil Production	675	Surface	Circulated
300252623000	East Vacuum GBSA Unit 3229005	EVGSAU	4/24/1979	4900	Active	Sec. 32, T17S, R35E	1110	S	1290	W	Production	4875	7	ConocoPhillips	Oil Production	2200	Surface	Circulated
300252639900	East Vacuum GBSA Unit 3229006W	EVGSAU	10/14/1979	4800	Active	Sec. 32, T17S, R35E	2630	S	1088	W	Surface	350	8 5/8	ConocoPhillips	Injection	375	Surface	Circulated
300252639900	East Vacuum GBSA Unit 3229006W	EVGSAU	10/14/1979	4800	Active	Sec. 32, T17S, R35E	2630	S	1088	W	Production	4800	5 1/2	ConocoPhillips	Injection	1600	Surface	Circulated
300252664900	East Vacuum GBSA Unit 3229007W	EVGSAU	2/13/1980	4800	Active	Sec. 32, T17S, R35E	2600	S	2500	W	Surface	365	9 5/8	ConocoPhillips	Injection	400	Surface	Circulated
300252664900	East Vacuum GBSA Unit 3229007W	EVGSAU	2/13/1980	4800	Active	Sec. 32, T17S, R35E	2600	S	2500	W	Production	4800	7	ConocoPhillips	Injection	1600	Surface	Circulated
300252665100	East Vacuum GBSA Unit 3229008W	EVGSAU	2/3/1980	4800	Active	Sec. 32, T17S, R35E	1300	S	2400	W	Surface	351	8 5/8	ConocoPhillips	Injection	250	Surface	Circulated
300252665100	East Vacuum GBSA Unit 3229008W	EVGSAU	2/3/1980	4800	Active	Sec. 32, T17S, R35E	1300	S	2400	W	Production	4800	5 1/2	ConocoPhillips	Injection	1400	Surface	Circulated
300252665000	East Vacuum GBSA Unit 3229009	EVGSAU	2/10/1980	4811	Active	Sec. 32, T17S, R35E	200	S	2500	W	Surface	370	9 5/8	ConocoPhillips	Oil Production	350	Surface	Circulated
300252665000	East Vacuum GBSA Unit 3229009	EVGSAU	2/10/1980	4811	Active	Sec. 32, T17S, R35E	200	S	2500	W	Production	4811	7	ConocoPhillips	Oil Production	2500	Surface	Circulated
300253002100	East Vacuum GBSA Unit 3229010	EVGSAU	9/20/1987	5882	Active	Sec. 32, T17S, R35E	1980	S	10	W	Surface	1496	13 3/8	ConocoPhillips	Oil Production	1400	Surface	Circulated
300253002100	East Vacuum GBSA Unit 3229010	EVGSAU	9/20/1987	5882	Active	Sec. 32, T17S, R35E	1980	S	10	W	Intermediate	3150	8 5/8	ConocoPhillips	Oil Production	1825	Surface	Circulated
300253002100	East Vacuum GBSA Unit 3229010	EVGSAU	9/20/1987	5882	Active	Sec. 32, T17S, R35E	1980	S	10	W	Production	4800	5 1/2	ConocoPhillips	Oil Production	825	Surface	Circulated
300253206500	East Vacuum GBSA Unit 3229011	EVGSAU	11/28/1993	4845	Active	Sec. 32, T17S, R35E.	829	S	36	W	Surface	1555	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300253206500	East Vacuum GBSA Unit 3229011	EVGSAU	11/28/1993	4845	Active	Sec. 32, T17S, R35E.	829	S	36	W	Production	4840	5 1/2	ConocoPhillips	Oil Production	1000	458	Temp Survey
300253028000	East Vacuum GBSA Unit 3229012W	EVGSAU	6/6/1988	4800	Active	Sec. 32, T17S, R35E.	2630	S	569	W	Surface	1533	13 3/8	ConocoPhillips	Injection	1400	Surface	Circulated
300253028000	East Vacuum GBSA Unit 3229012W	EVGSAU	6/6/1988	4800	Active	Sec. 32, T17S, R35E.	2630	S	569	W	Production	4790	5 1/2	ConocoPhillips	Injection	2000	Surface	Circulated
300253206100	East Vacuum GBSA Unit 3229013	EVGSAU	10/9/1993	4857	Active	Sec. 32, T17S, R35E	2000	S	2630	W	Surface	1560	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300253206100	East Vacuum GBSA Unit 3229013	EVGSAU	10/9/1993	4857	Active	Sec. 32, T17S, R35E	2000	S	2630	W	Production	4837	5 1/2	ConocoPhillips	Oil Production	1000	Surface	Circulated
300253266400	East Vacuum GBSA Unit 3229386W	EVGSAU	10/4/1994	4850	Active	Sec. 32, T17S, R 35E	1310	S	531	W	Surface	1,603.00	8 5/8	ConocoPhillips	Injection	750	Unknown	Unknown
300253266400	East Vacuum GBSA Unit 3229386W	EVGSAU	10/4/1994	4850	Active	Sec. 32, T17S, R 35E	1310	S	531	W	Production	4,850.00	5 1/2	ConocoPhillips	Injection	1080	Surface	Circulated
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
300250297600	East Vacuum GBSA Unit 3236001	EVGSAU	6/9/1938	4705	Active	Sec. 32, T17S, R35E	1980	N	660	W	Surface	821	10 3/4	ConocoPhillips	Oil Production	650	Surface	Circulated
300250297600	East Vacuum GBSA Unit 3236001	EVGSAU	6/9/1938	4705	Active	Sec. 32, T17S, R35E	1980	N	660	W	Production	4254	7 5/8	ConocoPhillips	Oil Production	320	Unknown	Circulated
300250297700	East Vacuum GBSA Unit 3236002	EVGSAU	11/8/1938	4651	P & A	Sec. 32, T17S, R35E	660	N	660	W	Surface	275	13 3/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300250297700	East Vacuum GBSA Unit 3236002	EVGSAU	11/8/1938	4651	P & A	Sec. 32, T17S, R35E	660	N	660	W	Intermediate	1595	9 5/8	ConocoPhillips	Oil Production	615	Surface	Circulated
300250297700	East Vacuum GBSA Unit 3236002	EVGSAU	11/8/1938	4651	P & A	Sec. 32, T17S, R35E	660	N	660	W	Production	4203	7 5/8	ConocoPhillips	Oil Production	146	2921	Calculated
300250297800	East Vacuum GBSA Unit 3236003	EVGSAU	1/24/1939	4670	Active	Sec. 32, T17S, R35E	660	N	1980	W	Surface	279	13 3/8	ConocoPhillips	Oil Production	250	Surface	Circulated
300250297800	East Vacuum GBSA Unit 3236003	EVGSAU	1/24/1939	4670	Active	Sec. 32, T17S, R35E	660	N	1980	W	Intermediate	1567	9 5/8	ConocoPhillips	Oil Production	615	Surface	Circulated
300250297800	East Vacuum GBSA Unit 3236003	EVGSAU	1/24/1939	4670	Active	Sec. 32, T17S, R35E	660	N	1980	W	Production	4185	7	ConocoPhillips	Oil Production	145	3445	Calculated
300250297900	East Vacuum GBSA Unit 3236004	EVGSAU	3/4/1940	4800	Active	Sec. 32, T17S, R35E	1980	N	1980	W	Surface	301	13 3/8	ConocoPhillips	Oil Production	250	Unknown	Unknown
300250297900	East Vacuum GBSA Unit 3236004	EVGSAU	3/4/1940	4800	Active	Sec. 32, T17S, R35E	1980	N	1980	W	Intermediate 1	1563	9 5/8	ConocoPhillips	Oil Production	615	Unknown	Unknown
300250297900	East Vacuum GBSA Unit 3236004	EVGSAU	3/4/1940	4800	Active	Sec. 32, T17S, R35E	1980	N	1980	W	Production	4178	7	ConocoPhillips	Oil Production	144	Unknown	Unknown
300250297900	East Vacuum GBSA Unit 3236004	EVGSAU	3/4/1940	4800	Active	Sec. 32, T17S, R35E	1980	N	1980	W	Liner	4800	5	ConocoPhillips	Oil Production	100	Unknown	Unknown
300252638800	East Vacuum GBSA Unit 3236005	EVGSAU	9/2/1979	4902	Active	Sec. 32, T17S, R35E	1491	N	1203	W	Surface	350	13 3/8	ConocoPhillips	Oil Production	675	Surface	Circulated
300252638800	East Vacuum GBSA Unit 3236005	EVGSAU	9/2/1979	4902	Active	Sec. 32, T17S, R35E	1491	N	1203	W	Production	4898	7	ConocoPhillips	Oil Production	1750	Surface	Circulated
300252667700	East Vacuum GBSA Unit 3236006W	EVGSAU	5/4/1980	4800	Active	Sec. 32, T17S, R35E	1450	N	2500	W	Surface	353	8 5/8	ConocoPhillips	Injection	400	Surface	Circulated
300252667700	East Vacuum GBSA Unit 3236006W	EVGSAU	5/4/1980	4800	Active	Sec. 32, T17S, R35E	1450	N	2500	W	Production	4798	5 1/2	ConocoPhillips	Injection	1260	Surface	Circulated
300252667800	East Vacuum GBSA Unit 3236007	EVGSAU	5/14/1980	4800	Active	Sec. 32, T17S R35E	200	N	2550	W	Surface	365	9 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300252667800	East Vacuum GBSA Unit 3236007	EVGSAU	5/14/1980	4800	Active	Sec. 32, T17S R35E	200	N	2550	W	Production	4800	7	ConocoPhillips	Oil Production	1400	Surface	Circulated
300252686500	East Vacuum GBSA Unit 3236008W	EVGSAU	9/8/1980	4800	Active	Sec. 32, T17S, R35E	2590	N	50	W	Surface	357	8 5/8	ConocoPhillips	Injection	400	Surface	Circulated
300252686500	East Vacuum GBSA Unit 3236008W	EVGSAU	9/8/1980	4800	Active	Sec. 32, T17S, R35E	2590	N	50	W	Production	4793	5 1/2	ConocoPhillips	Injection	1600	Surface	Circulated
300253001800	East Vacuum GBSA Unit 3236009	EVGSAU	10/2/1987	4790	Active	Sec. 32, T17S, R35E	2510	N	1850	W	Surface	1518	8 5/8	ConocoPhillips	Oil Production	1000	Surface	Circulated
300253001800	East Vacuum GBSA Unit 3236009	EVGSAU	10/2/1987	4790	Active	Sec. 32, T17S, R35E	2510	N	1850	W	Production	4790	5 1/2	ConocoPhillips	Oil Production	1250	Surface	Circulated
300253483100	East Vacuum GBSA Unit 3236394	EVGSAU	4/4/2000	4858	Active	Sec. 32, T17S, R35E	1980	N	10	W	Surface	1,548.00	8 5/8	ConocoPhillips	Oil Production	815	Surface	Circulated
300253483100	East Vacuum GBSA Unit 3236394	EVGSAU	4/4/2000	4858	Active	Sec. 32, T17S, R35E	1980	N	10	W	Production	4,858.00	5 1/2	ConocoPhillips	Oil Production	950	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

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300253201900	New Mexico R State NCT1 #015	New Mexico R State NCT2	10/25/1993	8150	Active	Sec. 06, T18S, R35E	510	N	640	E	Surface	1487	8 5/8	Chevron	Oil Production	650	Surface	Circulated
300253201900	New Mexico R State NCT1 #015	New Mexico R State NCT3	10/25/1993	8150	Active	Sec. 06, T18S, R35E	510	N	640	E	Production	8150	5 1/2	Chevron	Oil Production	2235	Surface	Circulated
300253233300	SANTA FE 133	SANTA FE	12/15/1993	8100	Active	Sec. 31, T17S, R35E	435	S	1930	E	Surface	1539	13 3/8	ConocoPhillips	Oil Production	1750	Surface	Circulated
300253233300	SANTA FE 133	SANTA FE	12/15/1993	8100	Active	Sec. 31, T17S, R35E	435	S	1930	E	Intermediate	5145	8 5/8	ConocoPhillips	Oil Production	2400	Surface	Circulated
300253233300	SANTA FE 133	SANTA FE	12/15/1993	8100	Active	Sec. 31, T17S, R35E	435	S	1930	E	Production	8100	5 1/2	ConocoPhillips	Oil Production	825	2620	Unknown
300253241400	SANTA FE 134	SANTA FE	2/11/1994	8200	Active	Sec. 5, T18S, R35E	430	N	430	W	Surface	1510	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
300253241400	SANTA FE 134	SANTA FE	2/11/1994	8200	Active	Sec. 5, T18S, R35E	430	N	430	W	Production	8200	5 1/2	ConocoPhillips	Oil Production	2400	Surface	Circulated
300253262300	STATE A #009	STATE A	8/30/1994	8100	Active	Sec. 31, T17S, R35E	2310	N	510	E	Surface	1476	13 3/8	Chesapeake Operating	Oil Production	1500	Surface	Circulated
300253262300	STATE A #009	STATE A	8/30/1994	8100	Active	Sec. 31, T17S, R35E	2310	N	510	E	Intermediate	3200	8 5/8	Chesapeake Operating	Oil Production	1050	Surface	Circulated
300253262300	STATE A #009	STATE A	8/30/1994	8100	Active	Sec. 31, T17S, R35E	2310	N	510	E	Production	8100	5 1/2	Chesapeake Operating	Oil Production	1890	Surface	Circulated
300253284400	STATE A #010	STATE A	2/3/1995	10700	Active	Sec. 31, T17S, R35E	940	N	940	E	Surface	1475	13 3/8	Chesapeake Operating	Oil Production	1350	Surface	Circulated
300253284400	STATE A #010	STATE A	2/3/1995	10700	Active	Sec. 31, T17S, R35E	940	N	940	E	Intermediate	3706	9 5/8	Chesapeake Operating	Oil Production	1250	Surface	Circulated
300253284400	STATE A #010	STATE A	2/3/1995	10700	Active	Sec. 31, T17S, R35E	940	N	940	E	Production	10700	7	Chesapeake Operating	Oil Production	2880	3200	Calculated
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
300253241300	STATE K #012	STATE K	2/9/1994	8093	Active	Sec. 31, T17S, R35E	330	S	990	E	Surface	1480	8 5/8	XTO Energy	Oil Production	450	Surface	Circulated
300253241300	STATE K #012	STATE K	2/9/1994	8093	Active	Sec. 31, T17S, R35E	330	S	990	E	Production	8093	5 1/2	XTO Energy	Oil Production	800	3100	Unknown
300252072000	Vacuum Glorieta East Unit 00201	Vacuum Glorieta East Unit	6/9/1964	6225	Active	Sec. 32 ,T17S ,R35E	330	N	2306	E	Surface	1580	8 5/8	ConocoPhillips	Oil Production	750	Surface	Circulated
300252072000	Vacuum Glorieta East Unit 00201	Vacuum Glorieta East Unit	6/9/1964	6225	Active	Sec. 32 ,T17S ,R35E	330	N	2306	E	Production	6223	4 1/2	ConocoPhillips	Oil Production	900	2701	Temp Survey
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
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
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
300252082200	Vacuum Glorieta East Unit 00902	Vacuum Glorieta East Unit	8/22/1964	6200	T.A.	Sec. 30, T17S, R35E	660	S	990	E	Surface	1611	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252082200	Vacuum Glorieta East Unit 00902	Vacuum Glorieta East Unit	8/22/1964	6200	T.A.	Sec. 30, T17S, R35E	660	S	990	E	Production	6200	4 1/2	ConocoPhillips	Oil Production	700	2795	Calculated
3002520794	Vacuum Glorieta East Unit 01502	Vacuum Glorieta East Unit	8/6/1964	6200	T.A.	Sec. 30, T17S, R35E	810	S	1955	E	Surface	1598	8 5/8	ConocoPhillips	Oil Production	640	Surface	Circulated
3002520794	Vacuum Glorieta East Unit 01502	Vacuum Glorieta East Unit	8/6/1964	6200	T.A.	Sec. 30, T17S, R35E	810	S	1955	E	Production	6200	4 1/2	ConocoPhillips	Oil Production	800	2500	Temp Survey
300252079300	Vacuum Glorieta East Unit 01601	Vacuum Glorieta East Unit	7/6/1964	6250	T.A.	Sec. 5, T18S, R35E	330	N	660	W	Surface	1595	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252079300	Vacuum Glorieta East Unit 01601	Vacuum Glorieta East Unit	7/6/1964	6250	T.A.	Sec. 5, T18S, R35E	330	N	660	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	800	2900	Temp Survey
3002520864	Vacuum Glorieta East Unit 01702	Vacuum Glorieta East Unit	11/5/1964	6300	Active	Sec. 31, T17S, R35E	2080	S	660	E	Surface	1572	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
3002520864	Vacuum Glorieta East Unit 01702	Vacuum Glorieta East Unit	11/5/1964	6300	Active	Sec. 31, T17S, R35E	2080	S	660	E	Production	6300	5 1/2	ConocoPhillips	Oil Production	1800	1680	Temp Survey
300252086500	Vacuum Glorieta East Unit 01703	Vacuum Glorieta East Unit	11/24/1964	6290	T.A.	Sec. 31, T17S, R35E	760	S	660	E	Surface	1504	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
300252086500	Vacuum Glorieta East Unit 01703	Vacuum Glorieta East Unit	11/24/1964	6290	T.A.	Sec. 31, T17S, R35E	760	S	660	E	Production	6290	4 1/2	ConocoPhillips	Oil Production	2085	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
300252075000	Vacuum Glorieta East Unit 02301	Vacuum Glorieta East Unit	8/27/1964	6250	T.A.	Sec. 31 ,T17S ,R35E	2122	N	2227	W	Surface	1503	7	ConocoPhillips	Oil Production	650	Surface	Circulated

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300252075000	Vacuum Glorieta East Unit 02301	Vacuum Glorieta East Unit	8/27/1964	6250	T.A.	Sec. 31 ,T17S ,R35E	2122	N	2227	W	Production	6245	4 1/2	ConocoPhillips	Oil Production	1000	190	Temp Survey
300252101200	Vacuum Glorieta East Unit 02501	Vacuum Glorieta East Unit	9/9/1964	6277	Active	Sec. 32, T17S, R35E	760	N	660	W	Surface	1604	8 5/8	ConocoPhillips	Oil Production_	1050	Surface	Circulated
300252101200	Vacuum Glorieta East Unit 02501	Vacuum Glorieta East Unit	9/9/1964	6277	Active	Sec. 32, T17S, R35E	760	N	660	W	Production	6265	4 1/2	ConocoPhillips	Oil Production	870	1750	Temp Survey
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	T.A.	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	T.A.	Sec. 32, T17S, R35E	2080	N	1980	W	Production	6240	4 1/2	ConocoPhillips	Oil Production	870	2695	Temp Survey
300252081900	Vacuum Glorieta East Unit 03701	Vacuum Glorieta East Unit	3/16/1964	6311	T.A.	Sec. 31, T17S, R35E	660	N	2180	E	Surface	1665	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252081900	Vacuum Glorieta East Unit 03701	Vacuum Glorieta East Unit	3/16/1964	6311	T.A.	Sec. 31, T17S, R35E	660	N	2180	E	Production	6310	4 1/2	ConocoPhillips	Oil Production	700	3100	Temp Survey
300252037000	Vacuum Glorieta East Unit 03702	Vacuum Glorieta East Unit	11/19/1962	10300	T.A.	Sec. 31, T17S, R35E	990	N	660	E	Surface	293	13 3/8	ConocoPhillips	Oil Production	300	Surface	Circulated
300252037000	Vacuum Glorieta East Unit 03702	Vacuum Glorieta East Unit	11/19/1962	10300	T.A.	Sec. 31, T17S, R35E	990	N	660	E	Intermediate	2982	9 5/8	ConocoPhillips	Oil Production	1250	Surface	Circulated and Dumped
300252037000	Vacuum Glorieta East Unit 03702	Vacuum Glorieta East Unit	11/19/1962	10300	T.A.	Sec. 31, T17S, R35E	990	N	660	E	Production	10300	5 1/2	ConocoPhillips	Oil Production	1800	Unknown	Unknown
300252082000	Vacuum Glorieta East Unit 03704	Vacuum Glorieta East Unit	5/23/1964	6300	Active	Sec. 31, T17S, R35E	2180	N	660	E	Surface	1574	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252082000	Vacuum Glorieta East Unit 03704	Vacuum Glorieta East Unit	5/23/1964	6300	Active	Sec. 31, T17S, R35E	2180	N	660	E	Production	6300	4 1/2	ConocoPhillips	Oil Production	700	2100	Temp Survey
300252082400	Vacuum Glorieta East Unit 03801	Vacuum Glorieta East Unit	5/9/1964	6222	Active	Sec. 29, T17S, R35E	800	S	800	W	Surface	1657	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252082400	Vacuum Glorieta East Unit 03801	Vacuum Glorieta East Unit	5/9/1964	6222	Active	Sec. 29, T17S, R35E	800	S	800	W	Production	6222	4 1/2	ConocoPhillips	Oil Production	866	Unknown	Unknown
300252082500	Vacuum Glorieta East Unit 03802	Vacuum Glorieta East Unit	6/28/1964	6250	Active	Sec. 29, T17S, R35E	330	S	1980	W	Surface	1593	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252082500	Vacuum Glorieta East Unit 03802	Vacuum Glorieta East Unit	6/28/1964	6250	Active	Sec. 29, T17S, R35E	330	S	1980	W	Production	6250	4 1/2	ConocoPhillips	Oil Production	700	Unknown	Unknown
300253236800	Vacuum Glorieta East Unit 03803W	Vacuum Glorieta East Unit	3/11/1994	6300	Active	Sec. 29, T17S, R35E	1130	S	1405	W	Surface	1627	8 5/8	ConocoPhillips	Injection	850	Surface	Circulated
300253236800	Vacuum Glorieta East Unit 03803W	Vacuum Glorieta East Unit	3/11/1994	6300	Active	Sec. 29, T17S, R35E	1130	S	1405	W	Production	6300	5 1/2	ConocoPhillips	Injection	325	Unknown	Unknown
3002538223	Vacuum Glorieta East Unit #023	Vacuum Glorieta East Unit	N/A	N/A	C	Sec. 32, T17S, R35E	1370	N	1750	W	N/A	N/A	N/A					
3002538449	Vacuum Glorieta East Unit #026Y	Vacuum Glorieta East Unit			ND	Sec. 32, T17S, R35E	600	S	1558	W								
3002538391	Vacuum Glorieta East Unit #033	Vacuum Glorieta East Unit	N/A	N/A	C	Sec. 31, T17S, R35E	2195	S	1165	E	N/A	N/A	N/A					
3002538398	Vacuum Glorieta East Unit 0930	Vacuum Glorieta East Unit	6/21/2007	6349	Active	Sec. 30, T17S, R35E	1065	S	690	E	Surface	1,623.00	8 5/8	ConocoPhillips	Oil Production	950	Surface	Circulated
3002538398	Vacuum Glorieta East Unit 0930	Vacuum Glorieta East Unit	6/21/2007	6349	Active	Sec. 30, T17S, R35E	1065	S	690	E	Production	6,346.00	5 1/2	ConocoPhillips	Oil Production	1200	Surface	Circulated
300252029000	Vacuum Glorieta West Unit #003	Vacuum Glorieta West Unit	1/14/1964	6900	T.A.	Sec. 31, T17S, R35E	2310	N	1980	E	Surface	1547	8 5/8	Chevron	Oil Production	660	Unknown	Unknown
300252029000	Vacuum Glorieta West Unit #003	Vacuum Glorieta West Unit	1/14/1964	6900	T.A.	Sec. 31, T17S, R35E	2310	N	1980	E	Production	6879	5 1/2	Chevron	Oil Production	300	Unknown	Unknown
300252110800	Vacuum Glorieta West Unit #119	Vacuum Glorieta West Unit	9/11/1964	6850	P & A	Sec. 06, T18S, R35E	330	N	660	E	Surface	1515	11 3/4	Chevron	Oil Production	1000	Surface	Circulated
300252110800	Vacuum Glorieta West Unit #119	Vacuum Glorieta West Unit	9/11/1964	6850	P & A	Sec. 06, T18S, R35E	330	N	660	E	Production	6850	2 7/8	Chevron	Oil Production	1400	Unknown	Unknown
3002537851	Vacuum Glorieta East Unit 00221w	Vacuum Glorieta East Unit	4/16/2007	6345	Active	Sec. 32, T17S, R35E	1200	N	525	E	Surface	1596	8 5/8	ConocoPhillips	Injection	850	Surface	Circulated
3002537851	Vacuum Glorieta East Unit 00221w	Vacuum Glorieta East Unit	4/16/2007	6345	Active	Sec. 32, T17S, R35E	1200	N	525	E	Production	6329	5 1/2	ConocoPhillips	Injection	1700	Surface	Circulated
3002532368	Vacuum Glorieta East Unit 03803w	Vacuum Glorieta East Unit	3/11/1994	6300	Active	Sec. 29, T17S, R35E	1130	S	1405	W	Surface	1627	8 5/8	ConocoPhillips	Injection	850	Surface	Circulated
3002532368	Vacuum Glorieta East Unit 03803w	Vacuum Glorieta East Unit	3/11/1994	6300	Active	Sec. 29, T17S, R35E	1130	S	1405	W	Production	6300	5 1/2	ConocoPhillips	Injection	1640	Surface	Circulated
300253080500	Vacuum Glorieta East Unit 001007	Vacuum Glorieta East Unit	3/23/1990	6310	Active	Sec. 28, T17S, R35E	430	S	330	W	Surface	460	13 3/8	ConocoPhillips	Oil Production	176	Surface	Circulated
300253080500	Vacuum Glorieta East Unit 001007	Vacuum Glorieta East Unit	3/23/1990	6310	Active	Sec. 28, T17S, R35E	430	S	330	W	Intermediate	4808	8 5/8	ConocoPhillips	Oil Production	1425	Surface	Circulated
300253080500	Vacuum Glorieta East Unit 001007	Vacuum Glorieta East Unit	3/23/1990	6310	Active	Sec. 28, T17S, R35E	430	S	330	W	Production	6308	5 1/2	ConocoPhillips	Oil Production	350	4300	Temp Survey
300252072200	Vacuum Glorieta East Unit 001008	Vacuum Glorieta East Unit	5/29/1964	6220	P & A	Sec. 28, T17S, R35E	330	S	330	W	Surface	1596	7 5/8	ConocoPhillips	Oil Production	500	Surface	Circulated
300252072200	Vacuum Glorieta East Unit 001008	Vacuum Glorieta East Unit	5/29/1964	6220	P & A	Sec. 28, T17S, R35E	330	S	330	W	Production	6220	4 1/2	ConocoPhillips	Oil Production	UNK	Surface	Circulated
3002537847	Vacuum Glorieta East Unit 00117	Vacuum Glorieta East Unit	8/20/2006	6398	Active	Sec. 28, T17S, R35E	1202	S	466	W	Surface	1599	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
3002537847	Vacuum Glorieta East Unit 00117	Vacuum Glorieta East Unit	8/20/2006	6398	Active	Sec. 28, T17S, R35E	1202	S	466	W	Production	6398	5 1/2	ConocoPhillips	Oil Production	1750	Surface	Circulated
30025071800	Vacuum Glorieta East Unit 00202	Vacuum Glorieta East Unit	5/15/1964	6200	Active	Sec. 32, T17S, R35E	330	N	330	E	Surface	1544	8 5/8	ConocoPhillips	Oil Production	1200	Surface	Circulated
30025071800	Vacuum Glorieta East Unit 00202	Vacuum Glorieta East Unit	5/15/1964	6200	Active	Sec. 32, T17S, R35E	330	N	330	E	Production	6200	4 1/2	ConocoPhillips	Oil Production	UNK	2600	UNKNOWN
300252100800	Vacuum Glorieta East Unit 00204	Vacuum Glorieta East Unit	4/30/1964	6210	Active	Sec. 32, T17S, R35E	1865	N	330	E	Surface	1552	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
300252100800	Vacuum Glorieta East Unit 00204	Vacuum Glorieta East Unit	4/30/1964	6210	Active	Sec. 32, T17S, R35E	1865	N	330	E	Production	6210	4 1/2	ConocoPhillips	Oil Production	900	2800	UNKNOWN
300252070900	Vacuum Glorieta East Unit 00206	Vacuum Glorieta East Unit	3/5/1964	6466	P & A	Sec. 32, T17S, R35E	1830	S	195	E	Surface	1537	8 5/8	ConocoPhillips	Oil Production	850	Surface	Circulated
300252070900	Vacuum Glorieta East Unit 00206	Vacuum Glorieta East Unit	3/5/1964	6466	P & A	Sec. 32, T17S, R35E	1830	S	195	E	Production	6459	4 1/2	ConocoPhillips	Oil Production	1060	Surface	Circulated
300253236300	Vacuum Glorieta East Unit 00211	Vacuum Glorieta East Unit	1/16/1994	6350	Active	Sec. 32, T17S, R35E	1200	N	1185	E	Surface	1575	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
300253236300	Vacuum Glorieta East Unit 00211	Vacuum Glorieta East Unit	1/16/1994	6350	Active	Sec. 32, T17S, R35E	1200	N	1185	E	Production	6350	5 1/2	ConocoPhillips	Oil Production	1865	Surface	Circulated
3002537849	Vacuum Glorieta East Unit 00219	Vacuum Glorieta East Unit	7/7/2006	6380	Active	Sec. 32, T17S, R35E	685	N	1550	E	Surface	1099	8 5/8	ConocoPhillips	Oil Production	740	Surface	Circulated
3002537849	Vacuum Glorieta East Unit 00219	Vacuum Glorieta East Unit	7/7/2006	6380	Active	Sec. 32, T17S, R35E	685	N	1550	E	Production	6367	5 1/2	ConocoPhillips	Oil Production	1425	Surface	Circulated
300252085600	Vacuum Glorieta East Unit 00401	Vacuum Glorieta East Unit	7/21/1964	6300	Active	Sec. 33, T17S, R35E	810	N	660	W	Surface	1605	8 5/8	ConocoPhillips	Oil Production	770	Surface	Circulated
300252085600	Vacuum Glorieta East Unit 00401	Vacuum Glorieta East Unit	7/21/1964	6300	Active	Sec. 33, T17S, R35E	810	N	660	W	Production	6300	4 1/2	ConocoPhillips	Oil Production	865	2695	Temp Survey
300253743200	Vacuum Glorieta East Unit 00414	Vacuum Glorieta East Unit	3/2/2006	6350	Active	Sec. 33, T17S, R35E	308	N	990	W	Surface	1430	8 5/8	ConocoPhillips	Oil Production	750	Surface	Circulated

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

Attachment 4

Vacuum Glorieta East Unit
List of Wells Within 1/2 Mile of Proposed Injection Wells
January 2013

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
300253743200	Vacuum Glorieta East Unit 00414	Vacuum Glorieta East Unit	3/2/2006	6350	Active	Sec. 33, T17S, R35E	308	N	990	W	Production	6334	5 1/2	ConocoPhillips	Oil Production	1270	Surface	Circulated
300252082800	Vacuum Glorieta East Unit 00501	Vacuum Glorieta East Unit	4/18/1964	10300	Active	Sec. 29, T17S, R35E	1980	S	1980	E	Surface	356	13 3/8	ConocoPhillips	Oil Production	300	Surface	Circulated
300252082800	Vacuum Glorieta East Unit 00501	Vacuum Glorieta East Unit	4/18/1964	10300	Active	Sec. 29, T17S, R35E	1980	S	1980	E	Intermediate	3014	9 5/8	ConocoPhillips	Oil Production	400	Surface	Circulated
300252082800	Vacuum Glorieta East Unit 00501	Vacuum Glorieta East Unit	4/18/1964	10300	Active	Sec. 29, T17S, R35E	1980	S	1980	E	Production	6306	4 1/2	ConocoPhillips	Oil Production	1100	3978	UNKNOWN
300252083000	Vacuum Glorieta East Unit 00502	Vacuum Glorieta East Unit	7/26/1964	6300	Active	Sec. 33, T17S, R35E	1980	S	660	E	Surface	1662	8 5/8	ConocoPhillips	Oil Production	600	Surface	Circulated
300252083000	Vacuum Glorieta East Unit 00502	Vacuum Glorieta East Unit	7/26/1964	6300	Active	Sec. 33, T17S, R35E	1980	S	660	E	Production	6300	4 1/2	ConocoPhillips	Oil Production	700	4750	Calculated
300252082900	Vacuum Glorieta East Unit 00503	Vacuum Glorieta East Unit	6/7/1964	6301	Active	Sec. 29, T17S, R35E	460	S	1980	E	Surface	1632	8 5/8	ConocoPhillips	Injection	800	Surface	Circulated
300252082900	Vacuum Glorieta East Unit 00503	Vacuum Glorieta East Unit	6/7/1964	6301	Active	Sec. 29, T17S, R35E	460	S	1980	E	Production	6301	4 1/2	ConocoPhillips	Injection	880	1392	Calculated
300252083100	Vacuum Glorieta East Unit 00504	Vacuum Glorieta East Unit	8/10/1964	6250	Active	Sec. 29, T17S, R35E	330	S	450	E	Surface	1629	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
300252083100	Vacuum Glorieta East Unit 00504	Vacuum Glorieta East Unit	8/10/1964	6250	Active	Sec. 29, T17S, R35E	330	S	450	E	Production	6250	4 1/2	ConocoPhillips	Oil Production	400	Surface	Circulated
3002532365	Vacuum Glorieta East Unit 00506	Vacuum Glorieta East Unit	2/24/1994	6300	Active	Sec. 29, T17S, R35E	1085	S	1210	E	Surface	1571	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002532365	Vacuum Glorieta East Unit 00506	Vacuum Glorieta East Unit	2/24/1994	6300	Active	Sec. 29, T17S, R35E	1085	S	1210	E	Production	6300	5 1/2	ConocoPhillips	Oil Production	1550	Surface	Circulated
3002537433	Vacuum Glorieta East Unit 00515	Vacuum Glorieta East Unit	1/14/2006	6350	Active	Sec. 29, T17S, R35E	457	S	1174	E	Surface	1543	8 5/8	ConocoPhillips	Oil Production	740	Surface	Circulated
3002537433	Vacuum Glorieta East Unit 00515	Vacuum Glorieta East Unit	1/14/2006	6350	Active	Sec. 29, T17S, R35E	457	S	1174	E	Production	6331	5 1/2	ConocoPhillips	Oil Production	1465	Surface	Circulated
3002537434	Vacuum Glorieta East Unit 00516	Vacuum Glorieta East Unit	2/8/2006	6350	Active	Sec. 29, T17S, R35E	1130	S	330	E	Surface	1472	8 5/8	ConocoPhillips	Oil Production	740	Surface	Circulated
3002537434	Vacuum Glorieta East Unit 00516	Vacuum Glorieta East Unit	2/8/2006	6350	Active	Sec. 29, T17S, R35E	1130	S	330	E	Production	6637	5 1/2	ConocoPhillips	Oil Production	1170	Surface	Circulated
30025537848	Vacuum Glorieta East Unit 00518	Vacuum Glorieta East Unit	8/1/2006	6440	Active	Sec. 33, T17S, R35E	1916	E	1140	S	Surface	1631	8 5/8	ConocoPhillips	Oil Production	900	Surface	Circulated
30025537848	Vacuum Glorieta East Unit 00518	Vacuum Glorieta East Unit	8/1/2006	6440	Active	Sec. 33, T17S, R35E	1916	E	1140	S	Production	3917	5 1/2	ConocoPhillips	Oil Production	985	Surface	Circulated
300252082100	Vacuum Glorieta East Unit 00901	Vacuum Glorieta East Unit	3/9/1964	7100	Active	Sec. 30, T17S, R35E	1980	S	860	E	Surface	1650	8 5/8	ConocoPhillips	Oil Production	600	Surface	Circulated
300252082100	Vacuum Glorieta East Unit 00901	Vacuum Glorieta East Unit	3/9/1964	7100	Active	Sec. 30, T17S, R35E	1980	S	860	E	Production	7097	4 1/2	ConocoPhillips	Oil Production	300	2250	Calculated
300252080200	Vacuum Glorieta East Unit 01401	Vacuum Glorieta East Unit	11/7/1964	6250	P & A	Sec. 29, T17S, R35E	2323	N	2213	E	Surface	1664	8 5/8	ConocoPhillips	Oil Production	590	Surface	Circulated
300252080200	Vacuum Glorieta East Unit 01401	Vacuum Glorieta East Unit	11/7/1964	6250	P & A	Sec. 29, T17S, R35E	2323	N	2213	E	Production	6250	4 1/2	ConocoPhillips	Oil Production	800	2500	Temp Survey
300252088300	Vacuum Glorieta East Unit 02601	Vacuum Glorieta East Unit	6/24/1964	6240	P & A	Sec. 27, T17S, R35E	990	N	330	W	Surface	1626	8 5/8	ConocoPhillips	UNKNOWN	1450	Surface	Circulated
300252088300	Vacuum Glorieta East Unit 02601	Vacuum Glorieta East Unit	6/24/1964	6240	P & A	Sec. 27, T17S, R35E	990	N	330	W	Production	6237	4 1/2	ConocoPhillips		870	Surface	Circulated
300252079700	Vacuum Glorieta East Unit 02901	Vacuum Glorieta East Unit	9/2/1964	6225	Active	Sec. 29, T17S, R35E	1655	S	1980	W	Surface	1667	8 5/8	ConocoPhillips	Oil Production	1205	Surface	Circulated
300252079700	Vacuum Glorieta East Unit 02901	Vacuum Glorieta East Unit	9/2/1964	6225	Active	Sec. 29, T17S, R35E	1655	S	1980	W	Production	6225	4 1/2	ConocoPhillips	Oil Production	750	2250	Temp Survey
3002538386	Vacuum Glorieta East Unit 03829	Vacuum Glorieta East Unit	5/14/2007	6335	Active	Sec. 29, T17S, R35E	969	S	2477	W	Surface	1597	8 5/8	ConocoPhillips	Oil Production	800	Surface	Circulated
3002538386	Vacuum Glorieta East Unit 03829	Vacuum Glorieta East Unit	5/14/2007	6335	Active	Sec. 29, T17S, R35E	969	S	2477	W	Production	6321	5 1/2	ConocoPhillips	Oil Production	1225	Surface	Circulated
300250293800	Vacuum Glorieta East Unit 03901	Vacuum Glorieta East Unit	7/28/1960	4730	P & A	Sec. 33, T17S, R35E	2310	N	330	W	Surface	3007	8 5/8	ConocoPhillips	Oil Production	250	Surface	UNKNOWN
300250293800	Vacuum Glorieta East Unit 03901	Vacuum Glorieta East Unit	7/28/1960	4730	P & A	Sec. 33, T17S, R35E	2310	N	330	W	Production	4726	5 1/2	ConocoPhillips	Oil Production	200	3526	UNKNOWN
3002530505	Vacuum Glorieta East Unit 04201	Vacuum Glorieta East Unit	1/21/1989	6350	Active	Sec. 33, T17S, R35E	1655	N	990	W	Surface	1586	8 5/8	ConocoPhillips	Oil Production	1200	Surface	Circulated
3002530505	Vacuum Glorieta East Unit 04201	Vacuum Glorieta East Unit	1/21/1989	6350	Active	Sec. 33, T17S, R35E	1655	N	990	W	Production	6350	5 1/2	ConocoPhillips	Oil Production	1300	1100	UNKNOWN
300252079000	Vacuum Glorieta East Unit 04202	Vacuum Glorieta East Unit	4/18/1964	6225	Active	Sec. 33, T17S, R35E	2180	N	660	W	Surface	1625	8 5/8	ConocoPhillips	Oil Production	700	Surface	Circulated
300252079000	Vacuum Glorieta East Unit 04202	Vacuum Glorieta East Unit	4/18/1964	6225	Active	Sec. 33, T17S, R35E	2180	N	660	W	Production	6225	4 1/2	ConocoPhillips	Oil Production	1530	2600	Temp Survey
300252095700	Vacuum Glorieta East Unit 04601**	Vacuum Glorieta East Unit	7/27/1964	6252	P & A	Sec. 29, T17S, R35E	2310	N	1750	W	Surface	1670	11 3/4	ConocoPhillips	UNKNOWN	1000	Surface	Circulated
300252095700	Vacuum Glorieta East Unit 04601**	Vacuum Glorieta East Unit	7/27/1964	6252	P & A	Sec. 29, T17S, R35E	2310	N	1750	W	Production	6250	2 3/8	ConocoPhillips		1000	Surface	Circulated
	*also known as NM CG State 1 #2																	
	**also known as NM CG State NCT 2 #1																	

T.A. = Temporarily Abandoned
PSheet1 = Plugged and Abandoned
C = Cancelled APD
ND = Not Drilled

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.

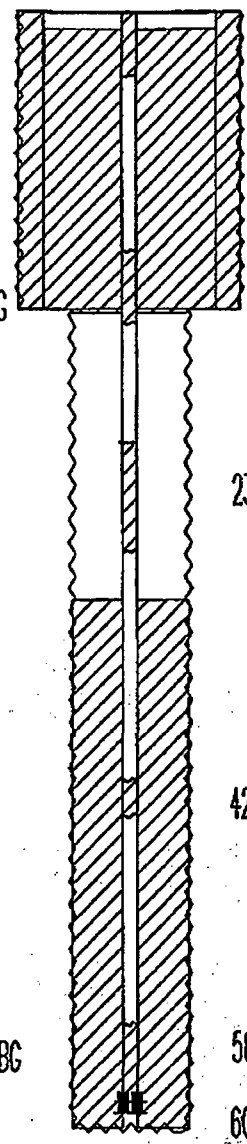
Well Name and Number	API Number
New Mexico CG State 2 #1 (also known as VGEU 046 #1)	30-025-20957
VGEU 032-01	30-025-20799
VGEU 047-01	30-025-20958
EVGSAU 3236-002	30-025-02977
State B 1576 #009	30-025-32515
VGEU 002-05	30-025-20713
VGEU 02-07	30-025-20711
VGEU 019-02	30-025-20845
VGEU 019-03	30-025-20847
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

P&A: 1-27-95

TEXACO E&P INC.
NM "CG" State NCT-2 No. 1
API# 3002520957



0 - 350' CEMENT PLUG 15 sx

1344 - 1750' CEMENT PLUG 10 sx

100 - 1690' CEMENT 975 sx

0 - 1670' 11 3/4" OD 42.00#/ft SURF CSG

0 - 1670' CEMENT 1000 sx

0 - 1670' 15" OD HOLE

2391 - 3000' CEMENT PLUG 15 sx

4297 - 4500' CEMENT PLUG 5 sx

0 - 6250' 2.875" OD 6.50#/ft TBG

3285 - 6250' CEMENT 1000 sx

1670 - 6250' 7.875" OD HOLE

5638 - 6044' CEMENT PLUG 10 sx

6045 - 6160' ABANDONED PERFS

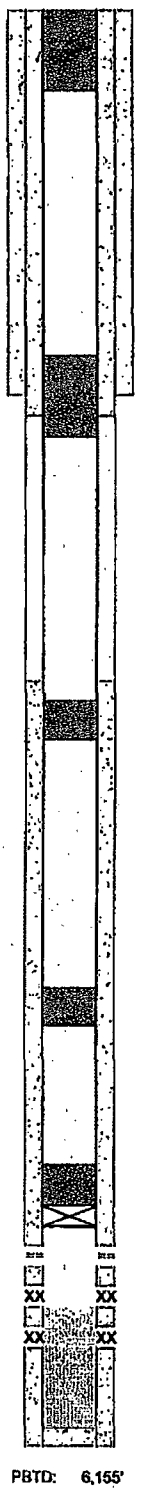
2310 FNL & 400 FEL
SEC 30, TWN 17 S, RANGE 35 E
ELEVATION: 3978 ES
COMPLETION DATE: 08-17-64
++++
COMPLETION INTERVAL: 6045 - 6160 (GLOR)

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. (05/31/80)
Top of Salt @ 1,725' (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'-6,166'
6,158' - 6,168'

Hydromite Plug 6,166'-6,198'
Float Collar @ 6,190'

4-1/2" OD @ 6,225' w/ 800 sx
9.5# J-S 5741.74'
10.5# J-S 470.81'

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 :	30-025-20789 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'-6168' - 2 JSPF						
6148-6168	9/24/64	15% Acid	500		1900	900	2.0	2-3/8"
		Test: Flow 176 BO, 2 BW, GOR 490						
	8/20/75	Test: Pump 5 BO, 100 BSW, GOR 732						
	12/3/75	Plug back 6198-6166 w/1000# hydromite						
	12/4/75	Plug back 6166-6147 w/150# hydromite						
	12/8/75	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						
	7/8/80	Test: Pump 18 BO, 10 BSW, GOR 710						
	6/28/04	Casing leak - review indicates casing repair not justified						
	6/31/04	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:

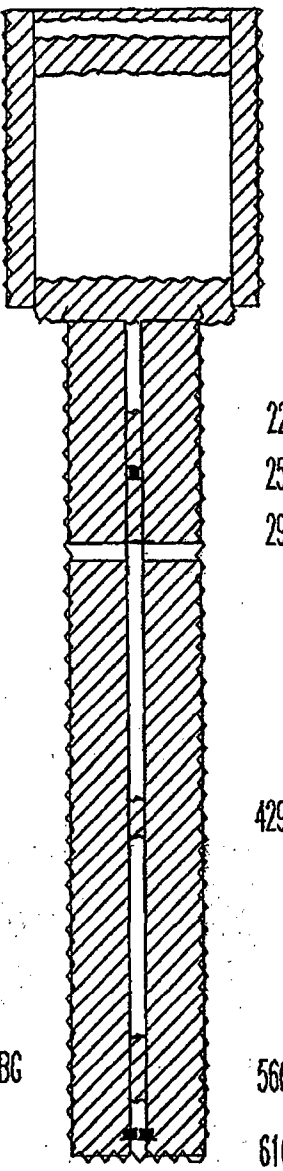
Yates	2,805'
Queen	3,766'
Grayburg	4,043'
San Andres	4,486'
Glorieta	6,018'

4-1/2" casing

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

P&A: 2-02-95

TEXACO E&P INC.
NM "CG" State NCT-1 No. 2
API# 3002520958



0 - 50' CEMENT PLUG 40 sx
154 - 350' CEMENT PLUG 100 sx

0 - 1620' 11 3/4" OD 24.00#/ft SURF CSG
0 - 1620' CEMENT 1000 sx
0 - 1620' 15" OD HOLE

1479 - 1706' CEMENT PLUG 100 sx

2200 - 2900' CEMENT PLUG 5 sx
2500 - 2500' RETAINER
2900 - 2900' SQUEEZE PERFS
1700 - 2900' CEMENT 145 sx

4297 - 4500' CEMENT PLUG 5 sx

1706 - 6250' 2.875" OD 6.50#/ft TBG
3000 - 6250' CEMENT 1200 sx
1620 - 6250' 7.875" OD HOLE

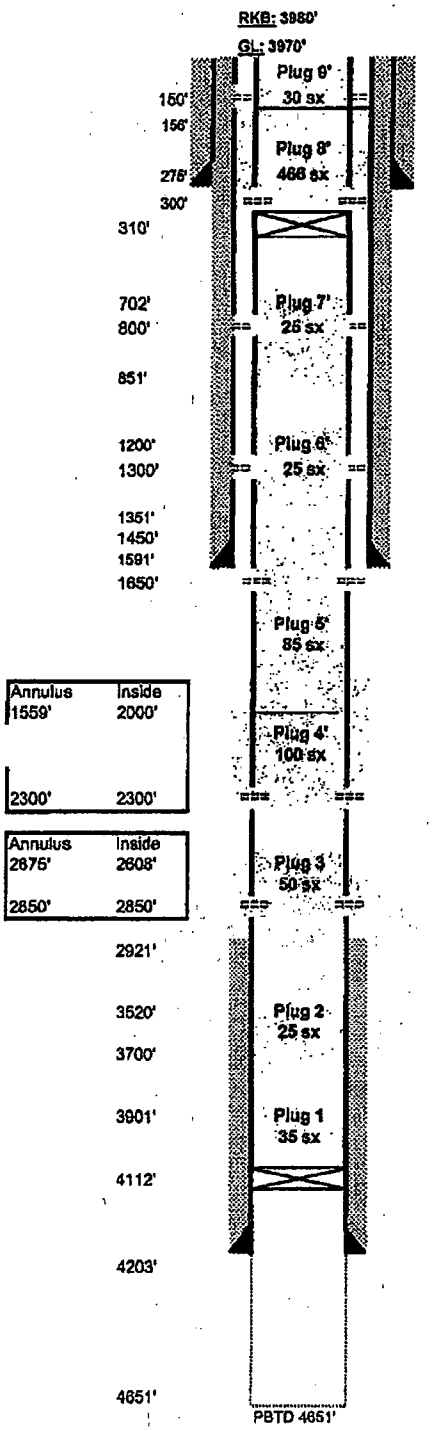
5600 - 5932' CEMENT PLUG 10 sx
6101 - 6160' ABANDONED PERFS

2310 FNL & 400 FEL
SEC 30, TWN 17 S, RANGE 35 E
ELEVATION: 3985 ES
COMPLETION DATE: 06-25-64
****
COMPLETION INTERVAL: 6101 - 6160 (GLOR)

Also known as VGEU 47 -001

WellBore Diagram - ConocoPhillips
"After" Sketch - EVGSAU 3236-002

Date: 12/4/02



Spot Plug #9, 30 sx, min. interval: 156'-surface, covers the surface plug.

Squeeze Plug #8', 466 sx. Established injection rate of 2 bpm @ 400 psi. Displaced cmt @ 2 bpm & 400 psi. ISIP = 150 psi. Had no returns in 7" x 9-5/8" annulus.

Surface Hole: 17-1/2"

Surface Casing: 13-3/8", 48# & 54#, K-55, @ 275'. Cmt'd w/ 400 sx to surface

Note: hole in 7" prod. csg. between 274'-surface. Allows flow to go outside 7" down and back up into tbg when pkr was set @ 274'.

Spot Plug #7', 25 sx. Covers perfs @ 800'. Achieved injection rate above plug # 7 of 2 bpm @ 300 psi. ISIP = 200 psi

Note: Perfed @ 1300' & 800' and were not able to establish injection @ 1000 psi at either depth. Permission f/ OCD to spot plugs across perfs.

Spot Plug #6', 25 sx. Covers perfs @ 1300'.

Intermediate Hole: 12-1/4"

Intermediate Casing: 9-5/8", 36# @ 1591'. Cmt'd w/ 815 sx. to surface.

Spot Plug #5', 85 sx. Covers the intermediate shoe. Had 25 psi SITP after 3 hrs. Well pressure tested to 500 psi f/ 318-1500'. With blind rams SI, established pump-in rate of 2 bpm @ 600 psi f/ 0'-1450'.

Note: This well was TA'd due to a high GOR. Latest well test showed 5 BOPD, 2000 BWPD, and 1000 MCFPD. An attempt was made to test the casing to 500 psi, but the casing would not hold. A hole was located in the casing in the interval between 2487'-25

Perfoated @ 2300': had 1150 psi SITP w/ pkr set @ 1816'.

Squeeze Plug #4, 100 sx, (40 sx outside, 50 sx inside). SI w/ 450 psi. Covers the Yates inside & outside pipe.

Squeeze Plug #3, 50 sx (20 sx in 7"x 8-3/4" anulus, 30 sx inside 7" prod. csg.), calc'd annulus interval: 2850'-2675'. Covers the Yates in 7" x 8-3/4" annulus and inside 7" prod. csg. Pumped @ 2 bpm & 1250 psi. SITP= 750 psi. 7" prod. csg. tested to 1

TOC @ 2921'

Production Hole: 8-3/4"

Spot Plug #2, 25 sx. Covers the Queen.

Spot Plug #1, 35 sx. Covers the San Andres and Grayburg.

Formation Tops:	
Chinle	220'
Rustler	1520'
Yates	2800'
Queen	3670'
Grayburg	4010'
San Andres	4290'

CIBP @ 4112'

Production Casing: 7", 24#, K-55 @ 4203'. Cmt'd w/ 146 sx. TOC @ 2921'.

6-1/4" Openhole @ 4203-4651'

Legend:
Original Plugs
Secondary Plugs

Lease and Well No: EVGSAU 3236-002
Location: 660 FNL & 660 FWL
Sec. 32, T17S-R **BHL:** Same
County/State: Lea County, New Mexico
Field: East Vacuum Unit
Producing Formations: San Andres/Grayburg
Spud Date: 11/10/38
Completion Date: 1/15/39
API Number: 30-025-02977
Status: Active Producer

bp

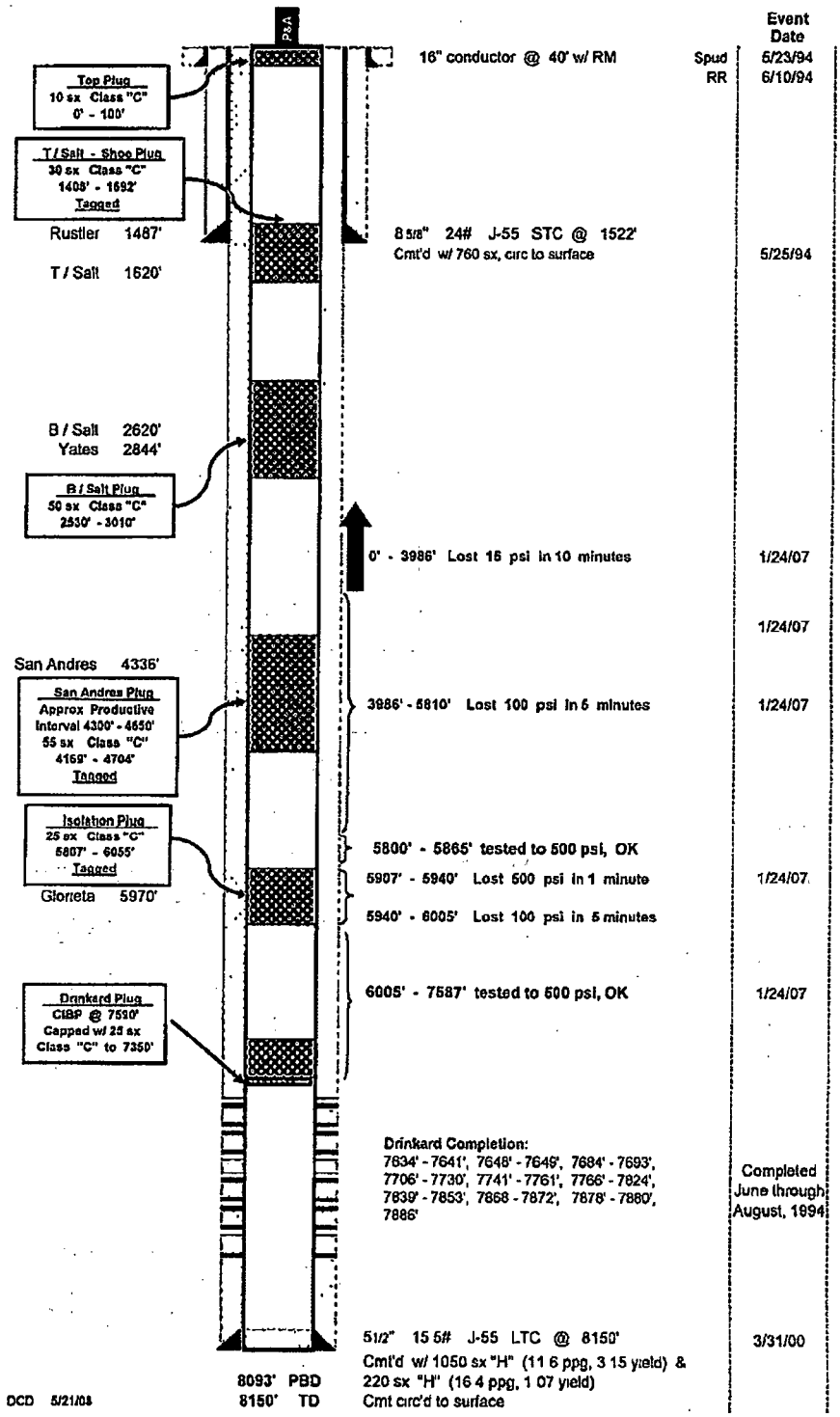
State "B" 1576 #9
Vacuum (Drinkard)

API No. 30 - 025 - 32515

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

Final P&A
May 20, 2008

RKB 13'
GL 3981'



		Event Date
16" conductor @ 40' w/ RM	Spud	5/23/94
	RR	6/10/94
8 5/8" 24# J-55 STC @ 1522' Cmt'd w/ 760 sx, circ to surface		5/25/94
0' - 3986' Lost 15 psi in 10 minutes		1/24/07
		1/24/07
3986' - 5810' Lost 100 psi in 5 minutes		1/24/07
5800' - 5865' tested to 500 psi, OK		
5907' - 5940' Lost 500 psi in 1 minute		1/24/07
5940' - 6005' Lost 100 psi in 5 minutes		
6005' - 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', 7868 - 7872', 7878' - 7880', 7886'		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

ConocoPhillips

Schematic - Current

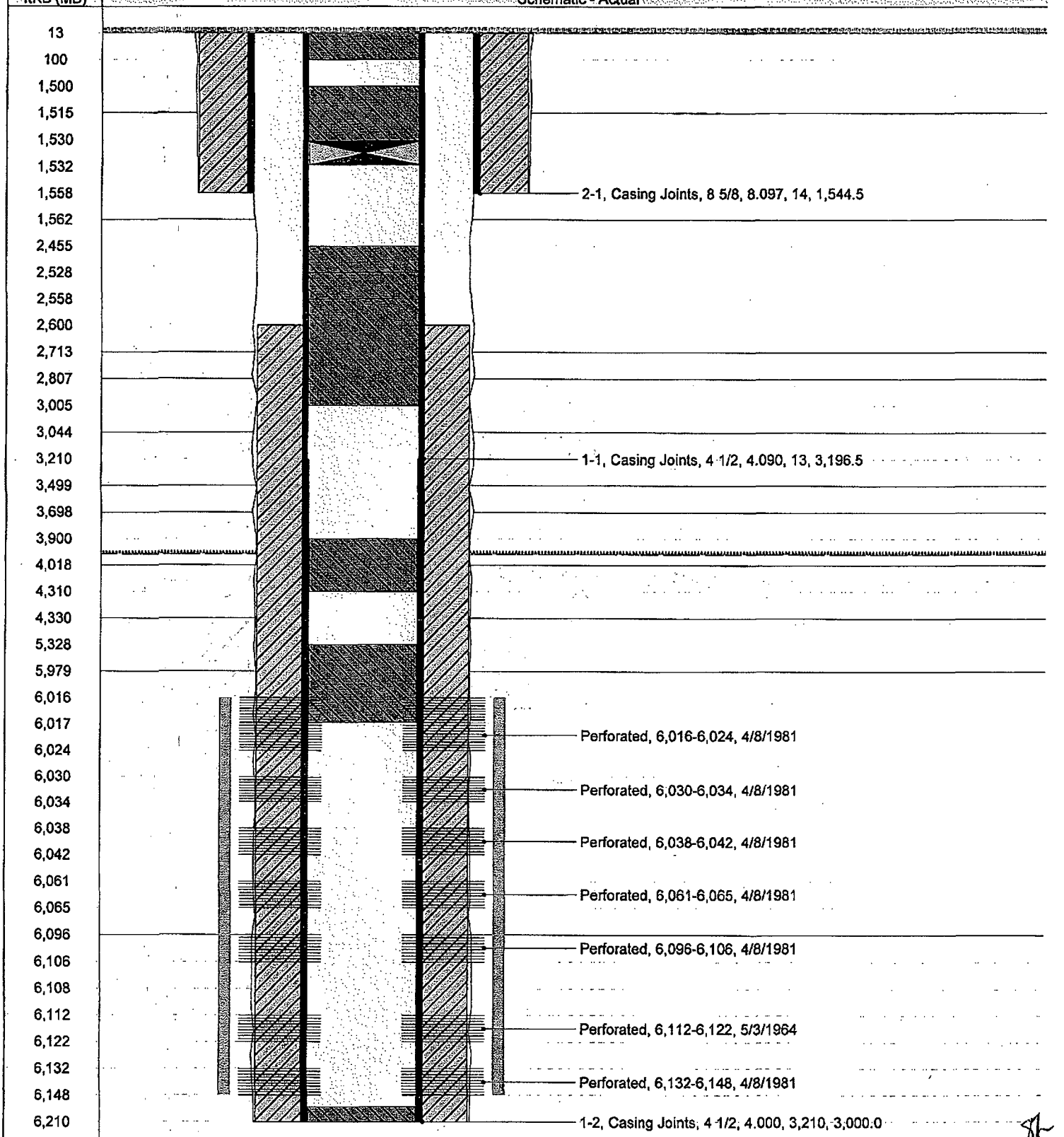
VACUUM GLORIETA EAST UNIT 002-05

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

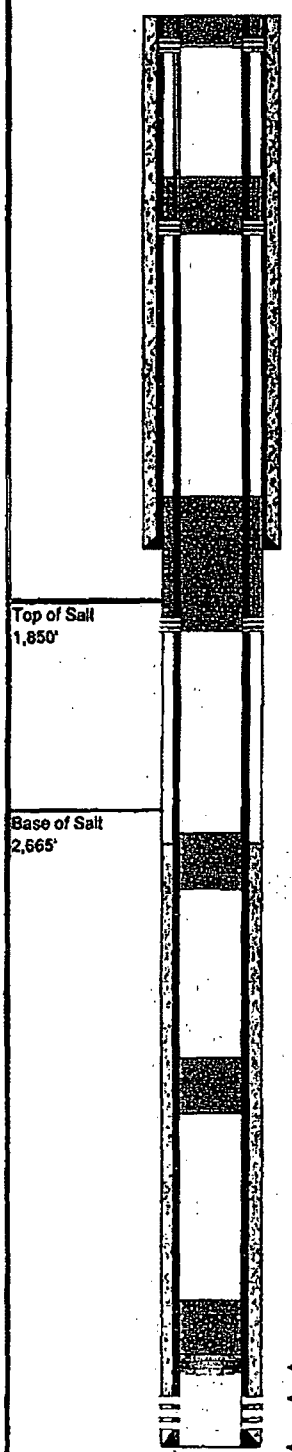
Original Spud Date	Surface Legal Location	East/West Distance (ft)	East/West Reference	North/South Distance (ft)	North/South Reference
4/16/1964	SEC. 32, T17S, R35E	2,307.00	E	1,980.00	S

Well Config: VERTICAL - Original Hole, 1/10/2013 5:22:37 PM

Schematic - Actual



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	1,850
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

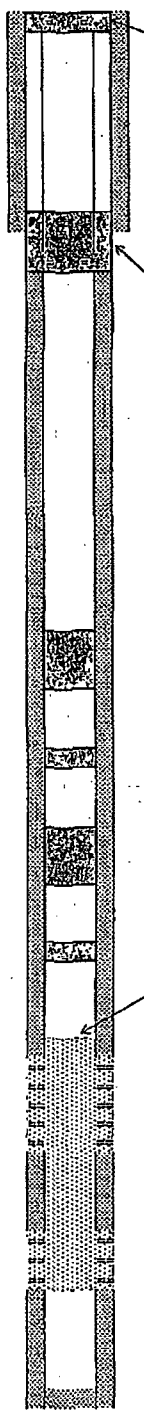
TRIPLE N SERVICES INC. MIDLAND, TX

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

Date: Nov. 27, 2012

RKB @
DF @
GL @ 3964'

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, 1984 Rig Released:
API Number :	30-025-20845
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 50sx cmt @ 1600'-1500' - Tag
TOC @ 1605' for 4-1/2" csg

Spot 35sx cmt @ 3100'-2681' - 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
	8/15/84	Perf Paddock 6074-6087 and 6094-6101 (40 shots)						
6074-6101	8/16/84	Acid	500		2200	1200	2.1	
	8/16/84	test: 237 BO, GOR 568						
	9/16/70	Hot oil down casing						
	11/10/70	Run paraffin knife						
	5/27/76	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 @ 6160'						
5992-6130	1/3/84	scale solvent and inhibitor						
	5/7/94	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 @ 2700'

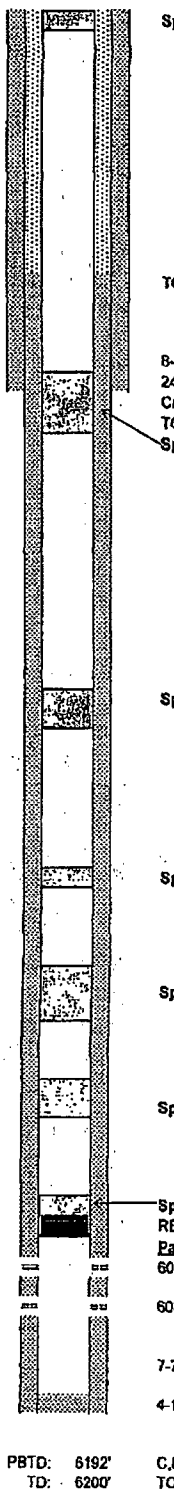
Formation Tops:

Yates	2781'
Seven Rivers	
Queen	3670'
Grayburg	5845'
San Andres	
Paddock	6057'

WELLBORE SKETCH
ConocoPhillips Company -- Permian Basin Business Unit

Date: November 27, 2012

RKB @ _____
DF @ _____
GL @ 3970'



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 29, 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		1800	1000	2.1	2-3/8"
	5/27/76	Cellar dug out to top of 8-5/8", cmat 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 2898-2527						
		Pmp 30 sx C cmt 1589-1144; 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	2600'
Queen	3710'
Glorieta	5987'
Paddock	6064'

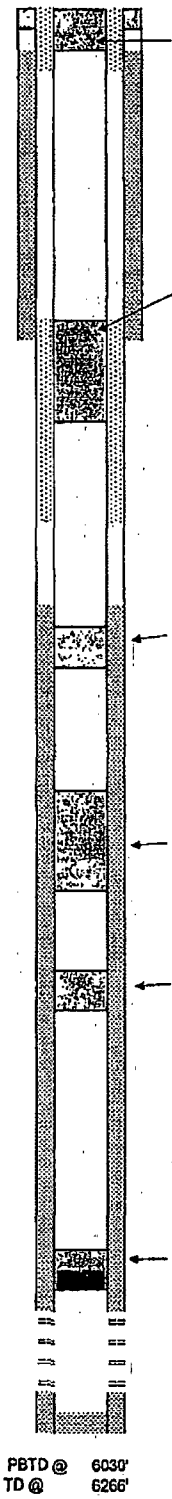
85

WELLBORE SKETCH

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

Date: July 31, 2012

RKB @ 3979'
DF @ 3978'
GL @ 3967'



Perf @ 60'; 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 @ 1980'

TOC 4-1/2" Csg @ 2500' (T.S.)
Spot 35 sx cmt @ 3046'-2652' - Tag
Base of Salt @ 2702'

Spot 30 sx cmt @ 3982-3632'

Spot 20sx cmt @ 4359'-4209'

Spot 25 sx cmt on CIBP @ 6030-5867'
4-1/2" CIBP @ 6030'
Paddock
6050-6057 6061-6067
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 @ 6266'

Subarea : Buckeye
Lease & Well No. : Vacuum Glorieta East Unit, Tract 25, Well 003
Legal Description : 1880' FNL & 860' FWL, Sec. 32, T17S, R35E, UL "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 3-32-6 Lease or ID: B-1838-1

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 & 6061-6067						
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 6030-5867'						
		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; 358 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 996-1906'						
	7/28/10	Set 4-1/2" CIBP @ 1600'						
	10/22/10	Drill out CIBP						
	10/26/10	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	1850'	Grayburg	3932'
Tansill / Base Salt	2702'	San Andres	4309'
Yates	2826'	Glorieta	5942'
Seven Rivers	2996'	Paddock	6011'
Queen	3682'		

ConocoPhillips

Schematic - Current

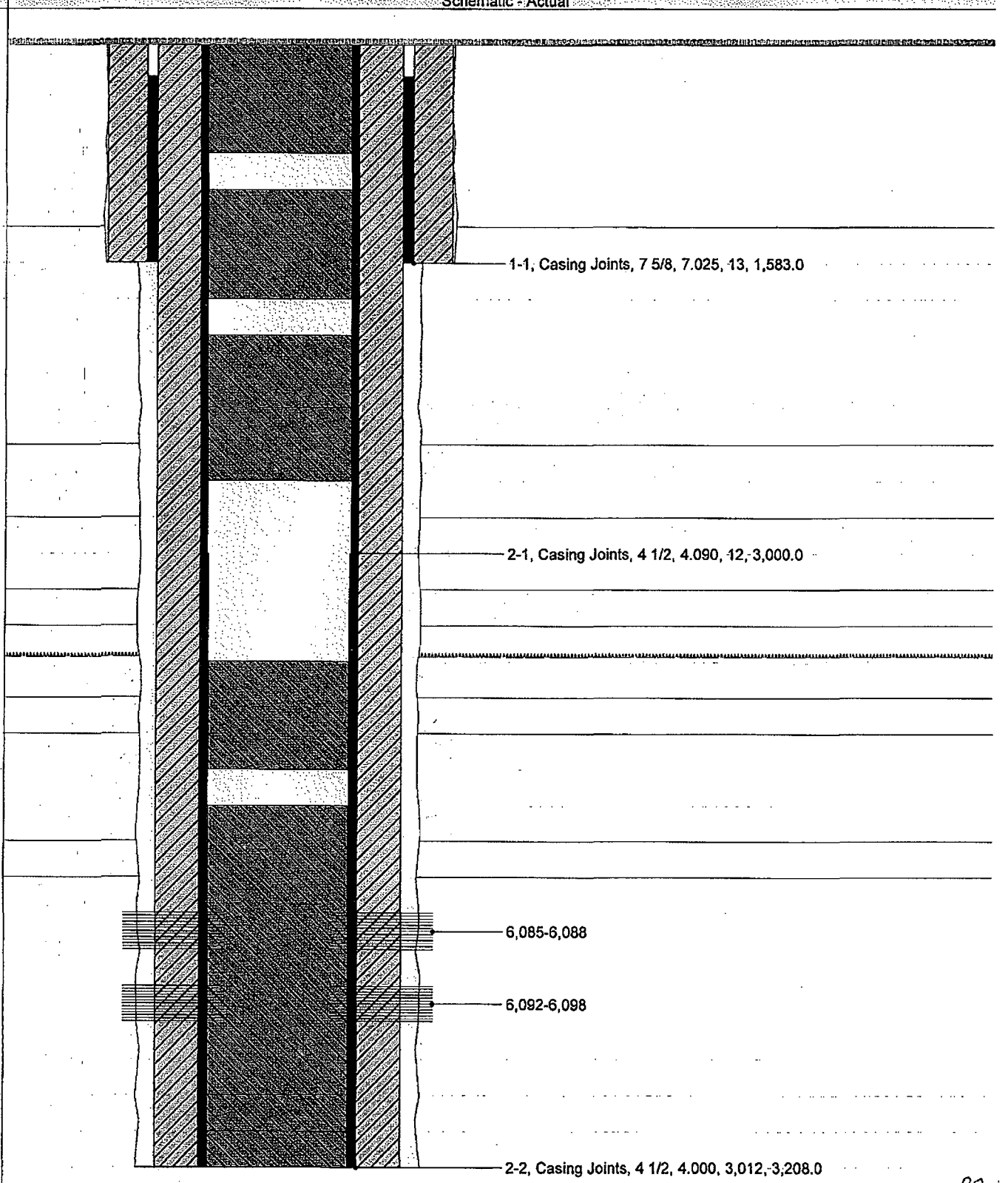
VACUUM GLORIETA EAST UNIT 001-08

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, 1/10/2013 5:21:19 PM

Schematic - Actual

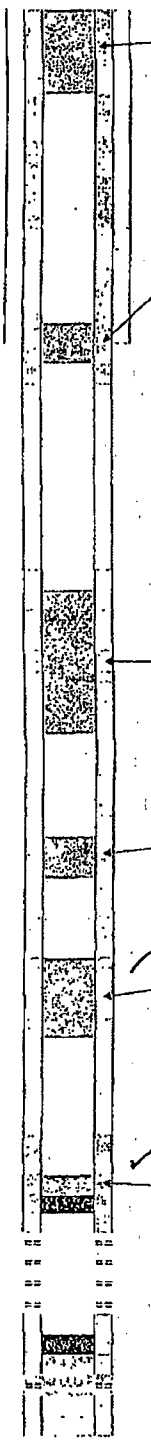


87

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

Date: Feb. 11, 2011

RKB @ 3964'
DF @ 3963'
GL @ 3953'



12-1/4" Hole
35sx cmt @ 375'-surface
Sqz 1650' - Surface' w/610 sx
Spot 20sx cmt @ 1589'-1400' - TAG
8-5/8" 24# J-55 @ 1537'
Cmt'd w/ 850 sx Incor; circ
TOC @ Surface
Top of Salt @ 1539'
TOC 4-1/2" Csg @ 2600' (T.S.)
Spot 45sx cmt @ 3219'-2672' - TAG
Base Salt @ +/- 3219'
Spot 10sx cmt @ ~~3478'-3648'~~
Spot 35sx cmt @ 4410'-3990' - TAG
Bad casing @ 5833-6000'; sqz w/ 175 sx cmt
Cap BP w/ 10sx cmt @ 5900'-5800'
Set 4-1/2" CIBP @ 5900'
5985-6064 6064-6082
6087-6107 6110-6122
6122-6126 6129-6135
6142-6146
Set CI Retainer @ 6197'; sqz perfs 6217-6227 w/ 100 sx Incor Neat cmt
6217-6227
7-7/8" Hole
4-1/2" 11.6 & 9.5# J-55 @ 6459'
Cmt'd w/ 2060 sx regular, did not circ
TOC @ 2600' (T.S.)

PBTD: 5900'
TD: 6463'

Subarea : Buckeye
Lease & Well No. : Vacuum Glorieta East Unit, Tract 2 Well No. 6
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

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 @ 5833-6000'; 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	3000# 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:

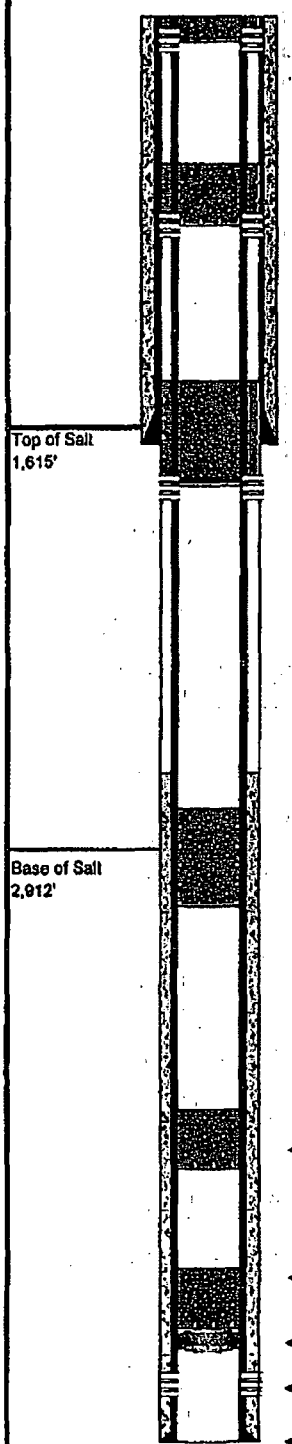
Rustler	1518'
Tansill	2722'
Yates	2812'
Seven Rivers	3048'
Queen	3698'
Grayburg	4040'
San Andres	4360'
Glorieta	5983'
Paddock	6108'
Blinebry	6408'

Amended 3478-3648
ELG 3-14-11

RECEIVED
MAR 14 2011
HOBBSOCD

88

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	1,465 (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 12/09/93

Prepared By:	Jim Newman
Date:	January 12, 2004

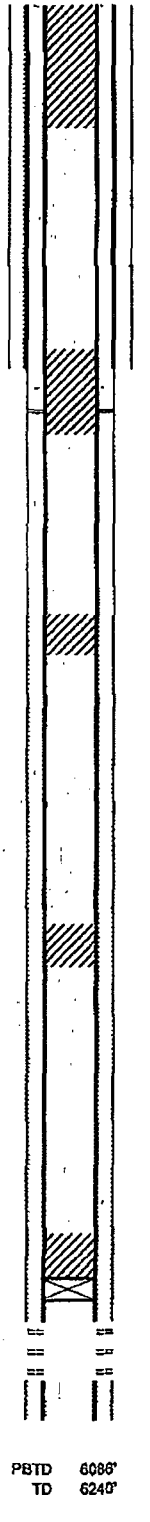
TRIPLE N SERVICES INC. MIDLAND, TX

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-1839-1

Stimulation History:

Interval	Date	Type	Gals	Lbs. Sand	Max Press	ISIP	Max Rate	Down
12¼" hole	7/21/64	Perforate 6132'-6172', 1 JSPF (select fire)						
6132-6172	7/23/64	Acid	1,000		2700	2200		
		IPF 82 BO, 0 BW						
8-5/8" 32# & 24# @ 1627'	6132-6172	12/17/70	15% NE HCl	2,000				
Cmt'd w/ 1,250 sx lead cmt, TOC 200' by T S		8/26/81	*Perforate 4 squeeze holes @ 1700'; squeeze w/700 sacks*					
cmt'd to surface w/ 200 sx cmt via 1" tubing			*circulate 250 sacks cement to surface.*					
Casing Leak @ 1700' - Sqz'd w/700 sx		1/25/94	Run MIT, held OK					
Top Salt @ ~ 1775'		5/8/01	*Set 4-1/2" CIBP @ 6086'*					
25 sx C cmt 1,825 - 1,280' WOC TAGGED			Temporarily Abandon					
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 - 2,539'

30	39 6	-434 016	
25	33 0	-381 68	
25	6086	5724.32	
25	4342	3980.32	
25	2900	2638.32	

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

25 sx C cmt 6,086 - 5,725'

Circulated plugging mud

Tagged PBTD @ 6,086'

4-1/2" CIBP @ 6086'

Glorieta
6132' - 6144'
6146' - 6156'
6168' - 6172'

7-7/8" Hole
4-1/2" 9 5# J-55 @ 6237'
Cmt'd w/870 sx cement
TOC @ 2780' (T S)

PBTD 6086'
TD 6240'

Formation Tops:

Rustler	1630'
Top Salt	1775'
Yates	2902'
Seven Rivers	3065'
Base Salt	
Queen	3729'
Grayburg	
San Andres	4342'
Glorieta	6001'
Paddock	6132'

BASIC ENERGY SERVICES

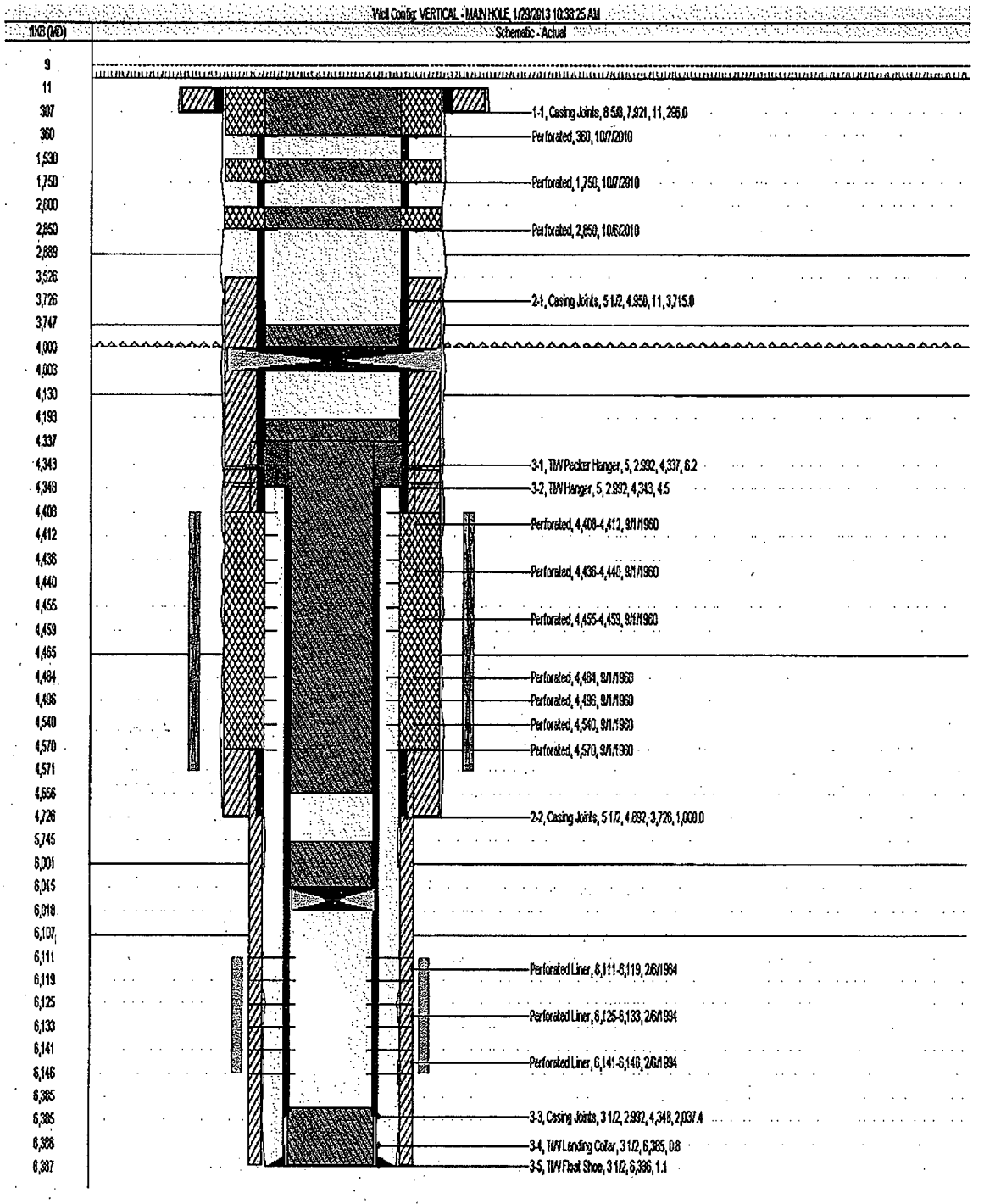
Plugs set 12/04/08 thru 12/11/08

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

Capacities

4½" 9 50# csg	10 960	ft/ft3	0 0912	ft3/ft
8¼" 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

Vacuum Glorieta East Unit 039-01
API # 30-025-02938



WELLBORE SKETCH

Created using publicly available data from the NM OCD website.

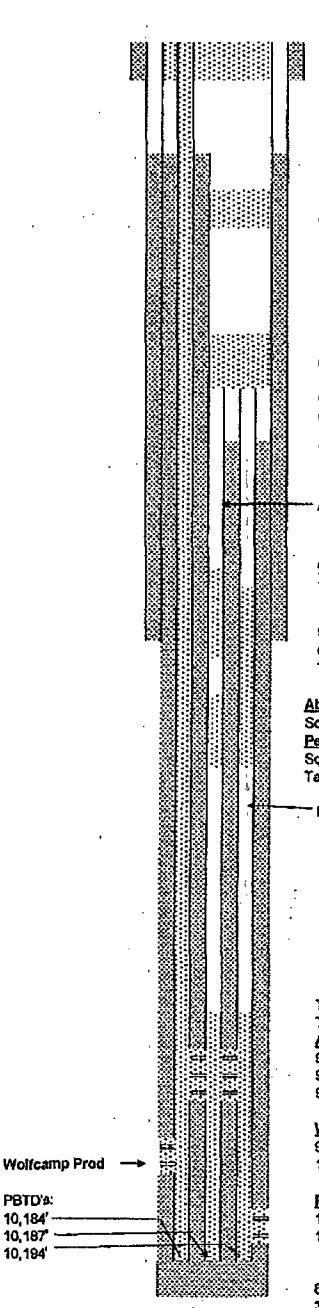
RKB @ 3555'
DF @ 3554'
GL @ 3544'

Date: Feb. 1, 2013

Marathon

Lease & Well No.: Warn State A/C 1 # 3
Legal Description: 2080' 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: 30-025-20748
Status:

State O&G Lse



Stimulation History:

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

04/27/02 MI Triple N rig #24 and plugging equipment.

04/29/02 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.

04/30/02 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 @ 8,380'. 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.

05/01/02 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.

05/02/02 E.L. Gonzales w/ OCD on location. Tagged cmt on Penn string @ 4,622'. Stretched casings, Penn free @ 2,708', 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'.

05/03/02 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.

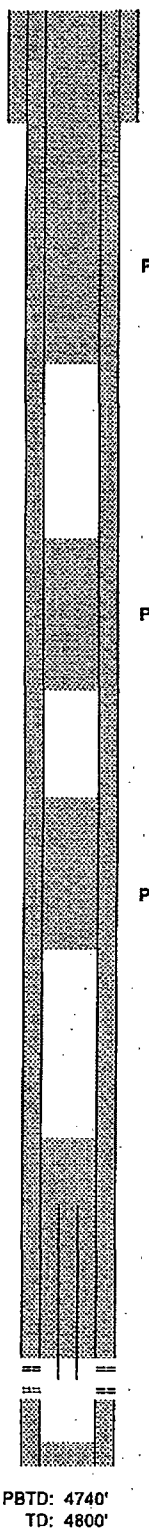
05/14/02 Cut off wellhead and installed dry hole marker, cut off anchors, back-filled cellar and pit.

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	5899'	Penn	10,089'

WELLBORE SKETCH
Created using publicly available data from the NMOCD website

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



12-1/4" Hole

8-5/8" 24#, K-55 @ 365'
Cmt'd w/400 sx, circ to surface
TOC @ Surface

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

Pmp 106 sx 1314'-surface

Pmp 40 sx 2265'-2800'

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
4398' - 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'

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

Formation Tops:

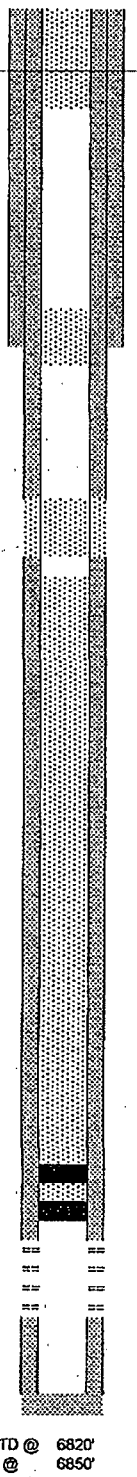
Grayburg	4170'
San Andres	4356'

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

RKB @
DF @ 3984.0'
GL @

Feb. 1, 2013

Texaco Exploration & Production Inc
Lease & Well No.: Vacuum Glorieta West Unit 119
Legal Description: 330' FNL & 660' FEL, Sec. 6, T-16-S, R-35-E
County: Lee 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



Pmp 120 sx 286'- Surface

Cut 2 7/8" @ 286',

15" Hole
11-3/4" 42# Csg @ 1503'
Cmt'd w/1000 sx
TOC @ Surface

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

Pmp 75 sx 1610-1380 - Tag

P&S 50 sx C @ 2588-2400'; Tag @ 2360'

85 sx @ 6000' - 2700'

CIBP @ 6000'

CIBP @ 6025 w/35' cmt; TOC @ 6000'
Glorieta
6092 6096
6100 6104 6106
6134-6138 6192-6196
6206-6210 6220-6224

7-7/8" Hole
2 7/8" 6.5# @ 6850'
Cmt'd w/1400 sx
TOC @ 1625' (T.S.)

BTD @ 6820'
D @ 6850'

Attachment 6
Geologic Information – Formation Tops per Well

Vacuum Glorieta East Unit 02-21W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1548
Salado	1661
Tansill	2726
Yates	2837
Seven Rivers	3123
Queen	3679
Grayburg	4043
San Andres	4363
Glorieta	5926
Paddock	6036
Deepest Perforation (Active)	6085
Deepest Perforation (Inactive)	6164
Total Depth	6345

Casing Depths

String	Set Depth	Length
Surface Casing	1596	1584
Production Casing	6329	6317

Reservoir Pressure

Estimated bottom hole pressure: 126 psi

Vacuum Glorieta East Unit 02-22W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1523
Salado	1660
Tansill	2725
Yates	2808
Seven Rivers	3128
Queen	3688
Grayburg	4050
San Andres	4351
Glorieta	5934
Paddock	6043
Deepest Perforation	6124
Total Depth	6350

Casing Depths

String	Set Depth	Length
Surface Casing	1606	1594
Production Casing	6339	6327

Reservoir Pressure

Estimated bottom hole pressure: 64 psi

Vacuum Glorieta East Unit 05-03W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1557
Salado	1670
Tansill	2735
Yates	2866
Seven Rivers	3153
Queen	3717
Grayburg	4098
San Andres	4444
Glorieta	5956
Paddock	6102
Deepest Perforation	6148
Total Depth	6301

Casing Depths

String	Set Depth	Length
Surface Casing	1632	1627
Production Casing	6301	6296

Reservoir Pressure

Estimated bottom hole pressure: 240 psi

Vacuum Glorieta East Unit 17-02W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1500
Salado	1645
Tansill	2725
Yates	2836
Seven Rivers	3136
Queen	3660
Grayburg	4043
San Andres	4310
Glorieta	5940
Paddock	6047
Deepest Perforation	6076
Total Depth	6300

Casing Depths

String	Set Depth	Length
Surface Casing	1572	1561
Production Casing	6300	6289

Reservoir Pressure

Estimated bottom hole pressure: 55 psi

Vacuum Glorieta East Unit 19-33

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1489
Salado	1670
Tansill	2710
Yates	2843
Seven Rivers	3147
Queen	3717
Grayburg	4057
San Andres	4339
Glorieta	5981
Paddock	2110
Deepest Perforation	6139
Total Depth	6425

Casing Depths

String	Set Depth	Length
Surface Casing	1536.5	1523
Production Casing	6391	6377

Reservoir Pressure

Estimated bottom hole pressure: 750 psi

Vacuum Glorieta East Unit 19-34

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1489
Salado	1677
Tansill	2698
Yates	2840
Seven Rivers	3141
Queen	3689
Grayburg	4035
San Andres	4300
Glorieta	5975
Paddock	6099
Deepest Perforation	6158
Total Depth	6415

Casing Depths

String	Set Depth	Length
Surface Casing	1528	1515
Production Casing	6397	6383

Reservoir Pressure

Estimated bottom hole pressure: 200 psi

Vacuum Glorieta East Unit 25-02W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1523
Salado	1660
Tansill	2725
Yates	2846
Seven Rivers	3136
Queen	3703
Grayburg	4060
San Andres	4353
Glorieta	5970
Paddock	6075
Deepest Perforation	6158
Total Depth	6250

Casing Depths

String	Set Depth	Length
Surface Casing	1598	1588
Production Casing	6250	6240

Reservoir Pressure

Estimated bottom hole pressure: 336 psi

Vacuum Glorieta East Unit 25-32

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1506
Salado	1677
Tansill	2687
Yates	2826
Seven Rivers	3116
Queen	3683
Grayburg	4030
San Andres	4317
Glorieta	5934
Paddock	6050
Deepest Perforation	6158
Total Depth	6400

Casing Depths

String	Set Depth	Length
Surface Casing	1574	1561
Production Casing	6380	6366

Reservoir Pressure

Estimated bottom hole pressure: 240 psi

Vacuum Glorieta East Unit 37-03W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1496
Salado	1650
Tansill	2720
Yates	2828
Seven Rivers	3126
Queen	3699
Grayburg	4040
San Andres	4326
Glorieta	5937
Paddock	5996
Deepest Perforation (Active)	6085
Deepest Perforation (Inactive)	7456
Total Depth	7716

Casing Depths

String	Set Depth	Length
Surface Casing	473	463
Intermediate Casing	3700	3690
Production Casing	7716	7706

Reservoir Pressure

Estimated bottom hole pressure: 157 psi

Vacuum Glorieta East Unit 37-31

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)	TOP (ft TVD)
Rustler	1530	1530
Salado	1700	1700
Tansill	2723	2723
Yates	2847	2847
Seven Rivers	3146	3142
Queen	3716	3705
Grayburg	4064	4049
San Andres	4355	4337
Glorieta	5915	5890
Paddock	6043	5995
Deepest Estimated Perforation	6120	6080
Total Depth	6433	6388

Casing Depths

String	Set Depth	Length
Surface Casing	1602	1588
Production Casing	6409	6396

Note: The Fm Tops in this well are still approximations due to the lack of logs. Casing depths are accurate. This is a deviated well.

Reservoir Pressure

Estimated bottom hole pressure: 300 psi

Vacuum Glorieta East Unit 38-03W

Formation Tops and Planned Total Depth

Formation Call Points	Top (ft MD)
Rustler	1566
Salado	1675
Tansill	2740
Yates	2874
Seven Rivers	3164
Queen	3728
Grayburg	4102
San Andres	4462
Glorieta	5948
Paddock	6078
Deepest Perforation	6168
Total Depth	6300

Casing Depths

String	Set Depth	Length
Surface Casing	1627	1615
Production Casing	6300	6288

Reservoir Pressure

Estimated bottom hole pressure: 350 psi

Attachment 7
Injection Water Chemical Analysis

Champion Technologies

Oxygen Contamination Report

7/3/2012

Customer: Conoco Phillips
Address:

Attention: Kenny Kidd

CC: M. Baker
J. Pickering

Target Name: EVGSAU Central Tank Batter **Sample Point:** EVGSAU Central Tank Batte

Sample Date: 06/27/2012

Oxygen: 0 **Units of Measurement:** PPM **Field Test?** ☑

Remarks:

Lab Tech.:

Champion Technologies

Millipore Report

7/3/2012

Customer: Conoco Phillips
Address:

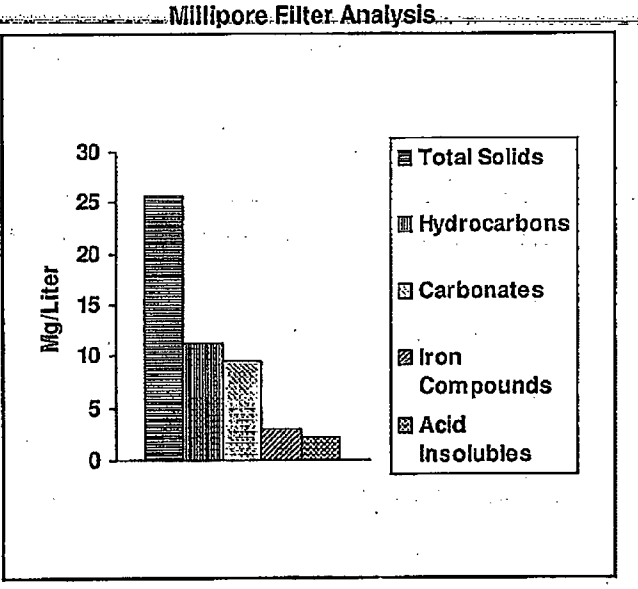
Attention: Kenny Kidd

CC: M. Baker
J. Pickering

Target Name:	EVGSAU Central Tank Battery	**Sample Point:**	EVGSAU Central Tank Batt
SampleDate:	06/27/2012	**Volume(ml):**	2000
Pressure(psia):	20	**One Liter Time(sec):**	300
Temperature(°F):		**Color:**	
Filter Size(µ):		**Total Solids(mg/l):**	25.70
Initial Weight(g):	0.0763	**Hydrocarbons(mg/l):**	11.20
Final Weight(g):	0.1277	**Carbonates(mg/l):**	9.40
M-45 Weight(g):	0.1053	**Iron Compounds(mg/l):**	2.85
Acetic Weight(g):	0.0865	**Acid Insolubles(mg/l):**	2.25
HCl Weight(g):	0.0808		

Remarks:

Millipore Filter Analysis



Lab Tech.: Manila Hernandez

Water Analysis Report

7/3/2012

Address:

Champion Technologies

Customer: Conoco Phillips
Attention: Kenny Kidd
CC: M. Baker J. Pickering

Lease: EVGSAU
Formation:
Salesman: Jeromie Pickering

Target Name: EVGSAU Central Tank Battery

Sample Point: EVGSAU Central Tank Battery

Sample Date: 06/27/2012 Test Date: 07/02/2012

Water Analysis(mg/L)

Calcium	2345
Magnesium	685.5
Barium	0.094
Strontium	56.69
Sodium(calc.)	39529
Bicarbonate Alkalinity	317.2
Sulfate	4013
Chloride	64000
Resistivity	0.0577

Appended Data(mg/L)

CO2	180
H2S	0
Iron	0.448
Oxygen	
Manganese	.04

Physical Properties

Ionic Strength(calc.	2.02
pH(calc.)	6.14
Temperature(°F)	90
Pressure(psia)	50
Density	8.97

Additional Data

Specific Gravity	1.08
Total Dissolved Solids(Mg/L)	110947
Total Hardness(CaCO3 Eq Mg/	8672

Dew Point	
Lead	
Zinc	

Calcite Calculation Information

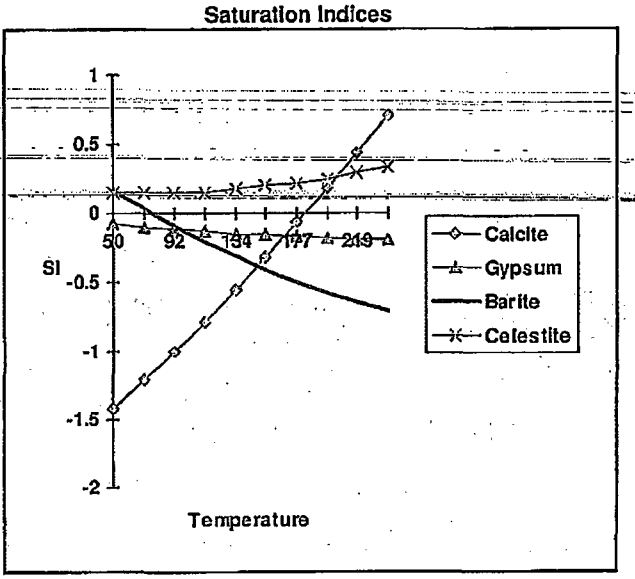
Calculation Method	Value
CO2 in Brine(mg/L)	180

Remarks: Potassium-413.3

SI & PTB Results

Scale Type	SI	PTB
Calcite (Calcium Carbonate)	-1.02	
Gypsum (Calcium Sulfate)	-0.12	
Hemihydrate (Calcium Sulfate)	-0.14	
Anhydrite (Calcium Sulfate)	-0.20	
Barite (Barium Sulfate)	-0.08	
Celestite (Strontium Sulfate)	0.16	12.60

Saturation Indices



Saturation Index Data Points

	50	71	92	113	134	156	177	198	219	240
Calcite	-1.42	-1.21	-1.00	-0.78	-0.55	-0.32	-0.07	0.18	0.44	0.70
Gypsum	-0.08	-0.10	-0.12	-0.13	-0.15	-0.16	-0.17	-0.18	-0.19	-0.19
Barite	0.17	0.04	-0.09	-0.21	-0.31	-0.41	-0.50	-0.58	-0.64	-0.70
Celestite	0.16	0.15	0.16	0.16	0.18	0.20	0.22	0.25	0.29	0.33

Lab Tech.:

Attachment 8
Proof of Publication of Notice

December 13, 2012 Legal Notice and January 4, 2013 Legal Notice are included on the following pages.

Affidavit of Publication

State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do 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
January 04, 2013
and ending with the issue dated
January 04, 2013

PUBLISHER

Sworn and subscribed to before me
this 4th day of
January, 2013

Notary Public

My commission expires
January 29, 2015
(Seal)

OFFICIAL SEAL
GUSSIE BLACK
Notary Public
State of New Mexico
My Commission Expires 1-29-15

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

Legal Notice
January 4, 2013

ConocoPhillips Company, P.O. Box 51810, Midland, TX 79710-1810, Contact: Susan B. Maunder (432) 688-6913 is seeking administrative approval from the New Mexico Oil Conservation Division to inject produced water into wells in the Vacuum Glorieta East Unit (VGEU), in the Vacuum; Glorieta Pool.

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

VGEU #02-22, Sec. 32, 1765' FNL and 1585' FEL, injection interval 5919 - 6017' TVD;
VGEU #17-02, Sec. 31, 2080' FSL and 660' FEL, injection interval 6033 - 6251' TVD;
VGEU #25-02; Sec. 32, 760' FNL and 1980' FWL, injection interval 5961 - 6140' TVD; and
VGEU #37-03; Sec. 31, 2310' FNL and 1980' FEL, injection interval 5941 - 6095' TVD.

The maximum injection rate will be 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
#27815

49101647 00106813

SUSAN MAUNDER
CONOCOPHILLIPS COMPANY (MIDLAND)
PO BOX 51810
MIDLAND, TX 79710

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Affidavit of Publication

State of New Mexico,
County of Lea.

I, GUSSIE BLACK
ADMINISTRATIVE ASSISTANT
of the Hobbs News-Sun, a newspaper published at Hobbs, New Mexico, do 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
December 13, 2012
and ending with the issue dated
December 13, 2012

Gussie Black
ADMINISTRATIVE ASSISTANT
Sworn and subscribed to before me
this 13th day of
December, 2012

Yezenia Calderon
Notary Public

My commission expires
February 28, 2016
(Seal)

OFFICIAL SEAL
YEZENIA CALDERON
NOTARY PUBLIC - STATE OF NEW MEXICO
My commission expires:

This newspaper is duly qualified to publish legal notices or advertisments within the meaning of Section 3, Chapter 167, Laws of 1937 and payment of fees for said publication has been made.

LEGAL LEGAL

Legal Notice
December 13, 2012

ConocoPhillips Company, P.O. Box 51810, Midland, TX 79710-1810, Contact: Susan B. Maunder (432) 688-6913 is seeking administrative approval from the New Mexico Oil Conservation Division to inject produced water into wells in the Vacuum Glorieta East Unit (VGEU), in the Vacuum; Glorieta Pool.

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

VGEU # 2-21, Sec. 32, 1200' FNL and 525' FEL; injection interval 5926-6101' TVD;
VGEU #5-03, Sec. 29, 460' FSL and 1980' FEL, injection interval 5985-6122' TVD;
VGEU #38-003, Sec. 29, 1130' FSL and 1405' FEL, injection interval 5958-6077' TVD;
VGEU #19-33, Sec. 32, 968' FSL and 733' FWL, injection interval 5980-6220' TVD;
VGEU #19-34, Sec. 32, 2150' FSL and 2233' FWL, injection interval 5970-6170' TVD;
VGEU #25-32, Sec. 32, 1695' FNL and 723' FWL, injection interval 5934-6161' TVD; and
VGEU #37-31, Sec. 31, 969' FNL and 153' FEL, injection interval 5928-6148' TVD.

The maximum injection rate will be 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.
#27764

49101647 00105837

SUSAN MAUNDER
CONOCOPHILLIPS COMPANY (MIDLAND)
PO BOX 51810
MIDLAND, TX 79710

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Attachment 9
Surface Owner and Working Interest Owner Notification

SURFACE OWNER AND WORKING INTEREST OWNER NOTIFICATION LIST

Working Interest Owners within 1/2 mile of VGEU

ZPZ Delaware I LLC
2000 Post Oak Blvd., Suite 100
Houston, TX 77056

Ricks Exploration II, L.P.
3000 Oklahoma Tower
210 Park Avenue
Oklahoma City, OK 73102

Chevron U.S.A. Inc.
P. O. Box 1150
Midland, TX 79702

XTO Energy Inc.
810 Houston Street
Fort Worth, TX 76102

Exxon Mobil Corp.
5959 Las Colinas Blvd.
Irving, TX 75039-4202

Pear Resources, a TX general partnership
P. O. Box 11044
Midland, TX 79702

Jerry M. Gahr
P. O. Box 1889
Midland, TX 79702

James J. Woodcock
P. O. Box 4185
Midland, TX 79704

Guyanne T. Booth
4201 Belclaire
Dallas, TX 75205

M. Wayne Luna
580 One Marienfeld Place
Midland, TX 79701

John A. Mills Investments, Inc.
P. O. Box 2281
Midland, TX 79702
Edward G. Boyer
707 Coward's Creek Drive
Friendswood, TX 77546

Cappadonna Electrical Management Corporation
3828 Pinemont
Houston, TX 77018

James A. Cole
1117 Hidden Oaks
Bedford, TX 76022

C. F. Schneider
2620 La Cristal Circle
Palm Beach Gardens, FL 33410

Merrill B. Schor
1620 Route 25
Oswego, Illinois 60543

A. M. Greene
P. O. Box 64188
Lubbock, TX 79464

Lavonda Greene
P. O. Box 64188
Lubbock, TX 79464

Flake Tompkins
P. O. Box 30
Midland, TX 79702

A. P. Corallo
2202 East Lawrence Road
Phoenix, AZ 85016

Joe D. Mitchell
3420 Princeton
Dallas, TX 75205

John A. Mills, Jr.
10501 Beinhorn
Houston, TX 77024

Gahr Energy Company
P. O. Box 1889
Midland, TX 79702

S. K. Lawlis
580 One Marienfeld Place
Midland, TX 79701

Southwestern Energy Production Company,
an Arkansas corporation
2350 North Sam Houston Parkway East, Suite 125
Houston, TX 77032

Mobil Producing Texas & New Mexico Inc.
P. O. Box 4610
Houston, TX 77210-4610

Apache Corporation
2000 Post Oak Blvd., Suite 100
Houston, TX 77056

Marbob Energy Corporation
P. O. Box 227
Artesia, NM 88211-0227

Branex Resources, Inc.
P. O. Box 2328
Roswell, NM 88202-2328

Slash Four Enterprises, Inc.
P. O. Box 1433
Roswell, NM 88202-1433

PABO Oil and Gas,
a NM general partnership
P. O. Box 1675
Roswell, NM 88202-1675

David J. Sorenson and wife,
Bonnie J. Sorenson
P. O. Box 1453
Roswell, NM 88202-1453

Stephen W. Speer and wife,
Therese P. Speer
P. O. Box 266
Roswell, NM 88202-0266

Speerex Limited Partnership
P. O. Box 266
Roswell, NM 88202-0266

J. Phelps White III, a married
man dealing in his sole and separate property
P. O. Box 874
Roswell, NM 88202-0874

Paradise Enterprises, Inc.
P. O. Box 1433
Roswell, NM 88202-1433

Jon F. Coll and wife,
Terese Coll
P. O. Box 1818
Roswell, NM 88202-1818

David R. Gannaway and
wife, Cene Gannaway
P. O. Box 2791
Roswell, NM 88202-2791

Edward L. Heldenbrand and
wife, Regina Heldenbrand
P. O. Box 1000
Roswell, NM 88202

Judith Anderson White, Trustee of
the Revocable Living Trust of Judith
Anderson White, created by Trust
Agreement dated October 17,1996
2709 Chrysler Drive
Roswell, NM 88201

Big Horn Investments, Inc.
2512 Gaye Drive
Roswell, NM 88201

Coll Brothers Oil,
a NM general partnership
P. O. Box 1818
Roswell, NM 88202-1818

Collins & Ware, Inc.
508 West Wall Street, #1200
Midland, TX 79701

Polaris Production Corp.
415 West Wall Street #1124
Midland, TX 79701

E & S Petroleum, L.L.C.
P. O. Box 2825
Amarillo, TX 79105

EMG Oil Properties, Inc.
1000 W. Fourth Street
Roswell, NM 88201

COG Operating LLC/
Concho Oil & Gas LLC
550 West Texas Avenue, Suite 100
Midland, TX 79701

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

Sonic Oil & Gas, L.P.
P. O. Box 1240
Graham, TX 76450

Chase Oil Corporation
P. O. Box 1767
Artesia, NM 88211-1767

Jetta-X2, L.P.
777 Taylor Street, Suite PI-D
Fort Worth, TX 76126

Marathon Oil Company
5555 San Felipe Road
Houston, TX 77253

VGEU Working Interest Owners

XTO Energy
Attn: Steve Cobb
810 Houston Street
Fort Worth, Texas 76102

McBee Operating Company LLC
Attn: Deborah Draughon
4311 Oak Lawn Ave., Suite 310
Dallas, Texas 75219

Ann McBee Buell
11241 Russwood Circle
Dallas, Texas 75229

W.D. McBee Enterprises Ltd
P.O. Box 12864
Dallas, Texas 75225