

DATE: 06/14/13	SUSPENSE	ENGINEER: DG	LOGGED IN: 06/17/2013	TYPE: WFX -915	APP NO: AXK1316842464
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ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify R-4442-G

[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.

Carolyn Haynie
Print or Type Name

Signature

NM Petro Eng Tech Assistant

Title

Date

chay@chevron.com

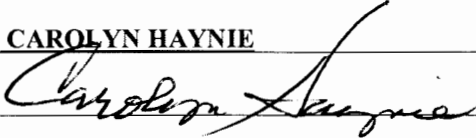
e-mail Address

API not yet issued
Chevron USA Inc
VGS AU #247

API 30-025-40994
2013 JUN 14 P 2:10
RECEIVED OOD

June 10-13

APPLICATION FOR AUTHORIZATION TO INJECT

- I. PURPOSE: ☒ Secondary Recovery ☐ Pressure Maintenance ☐ Disposal ☐ Storage
Application qualifies for administrative approval? ☐ Yes ☐ No
- II. OPERATOR: CHEVRON U.S.A., INC.
ADDRESS: 15 SMITH ROAD; MIDLAND, TX 79705
CONTACT PARTY: CAROLYN HAYNIE PHONE: 432-687-7261
- III. WELL DATA: Complete the data required on the reverse side of this form for each well proposed for injection.
Additional sheets may be attached if necessary.
- IV. Is this an expansion of an existing project? ☒ Yes ☐ No
If yes, give the Division order number authorizing the project: R-4442-G
- 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. ATTACHED
- 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. ATTACHED
- VII. Attach data on the proposed operation, including:
1. Proposed average and maximum daily rate and volume of fluids to be injected; **2,000 BWPD and 4,000 MCFPD**
 2. Whether the system is open or closed; **CLOSED**
 3. Proposed average and maximum injection pressure; **1500 PSI, when injecting Water and, 2200 PSI when injection CO2.**
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, **CO2 for Injection will either be purchased or VGSAU produced gas that is stripped of NGLs & Re-injected.**
 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.). **Injection is not for disposal purposes, but for Oil production enhancement.**
- *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. **Grayburg San Andres formation, Proposed Injection Zone, 3902' - 5020'.**
- IX. Describe the proposed stimulation program, if any. **The Injection wells will be acid stimulated w/15% HCL.**
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted).
- *XI. Attach a chemical analysis of fresh water from two or more fresh water wells (if available and producing) within one mile of any injection or disposal well showing location of wells and dates samples were taken.
- XII. Applicants for disposal wells must make an affirmative statement that they have examined available geologic and engineering data and find no evidence of open faults or any other hydrologic connection between the disposal zone and any underground sources of drinking water.
- XIII. Applicants must complete the "Proof of Notice" section on the reverse side of this form. **Attached, (Hobbs News Sun).**
- 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: CAROLYN HAYNIE TITLE: Petro Eng. Tech Assistant
SIGNATURE:  DATE: 6-10-13
E-MAIL ADDRESS: chay@chevron.com If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal: _____

III. WELL DATA

- A. The following well data must be submitted for each injection well covered by this application. The data must be both in tabular and schematic form and shall include:

- (1) Lease name; Well No.; Location by Section, Township and Range; and footage location within the section.
- (2) Each casing string used with its size, setting depth, sacks of cement used, hole size, top of cement, and how such top was determined.
- (3) A description of the tubing to be used including its size, lining material, and setting depth.
- (4) The name, model, and setting depth of the packer used or a description of any other seal system or assembly used.

Division District Offices have supplies of Well Data Sheets which may be used or which may be used as models for this purpose. Applicants for several identical wells may submit a "typical data sheet" rather than submitting the data for each well.

- B. The following must be submitted for each injection well covered by this application. All items must be addressed for the initial well. Responses for additional wells need be shown only when different. Information shown on schematics need not be repeated.

- (1) The name of the injection formation and, if applicable, the field or pool name.
- (2) The injection interval and whether it is perforated or open-hole.
- (3) State if the well was drilled for injection or, if not, the original purpose of the well.
- (4) Give the depths of any other perforated intervals and detail on the sacks of cement or bridge plugs used to seal off such perforations.
- (5) Give the depth to and the name of the next higher and next lower oil or gas zone in the area of the well, if any.

XIV. PROOF OF NOTICE

All applicants must furnish proof that a copy of the application has been furnished, by certified or registered mail, to the owner of the surface of the land on which the well is to be located and to each leasehold operator within one-half mile of the well location.

Where an application is subject to administrative approval, a proof of publication must be submitted. Such proof shall consist of a copy of the legal advertisement which was published in the county in which the well is located. The contents of such advertisement must include:

- (1) The name, address, phone number, and contact party for the applicant;
- (2) The intended purpose of the injection well; with the exact location of single wells or the Section, Township, and Range location of multiple wells;
- (3) The formation name and depth with expected maximum injection rates and pressures; and,
- (4) A notation that interested parties must file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Dr., Santa Fe, New Mexico 87505, within 15 days.

NO ACTION WILL BE TAKEN ON THE APPLICATION UNTIL PROPER PROOF OF NOTICE HAS BEEN SUBMITTED.

NOTICE: Surface owners or offset operators must file any objections or requests for hearing of administrative applications within 15 days from the date this application was mailed to them.



Carolyn Haynie
Petroleum Engineering
Technical Assistant

MidContinent/Alaska SBU
Chevron North America
Exploration and Production
Company
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7703
chay@chevron.com

June 10, 2013

New Mexico Oil Conservations Division
1220 South San Francis Drive
Santa Fe, New Mexico 87504

RE: Application for Authorization to Inject
OCD Form C-108
Order R-4442-G
Vacuum Grayburg San Andres
Lea, County, New Mexico

Chevron U.S.A. Inc., respectfully requests administrative approval to replace the VGSAU # 47 disposal well, with the VGSAU # 247. Chevron plans to drill the well as a new WAG injector for water, CO₂, and produced gas into the Grayburg San Andres formations from approximately 3902' to 5020'. A map is attached which shows the surface and bottom hole location in comparison to the VGSAU 47. The VGSAU # 47 failed to pass the MIT test, and was therefore plugged and abandoned on 3-7-2013.

Please reference the attached email conversation, dated Feb 27, 2013, between myself and Will Jones concerning the Area Of Review (AOR). The AOR has not changed since the VGSAU # 47 permit was issued on 1/12/2010, and there have been no additional wells drilled within the ½ mile AOR since that date. The AOR involves a portion of sections 1 & 2, T18S, R34E, operated as to all depths by Chevron, a portion of section 36, T17S, R34E, where the San Andres is operated by Chevron, and a portion of section 35, T17S, R34E, where the San Andres is operated by the McGowan Working Interest partners. So, McGowan will be the only offset operator to be notified.

The hearing Order that permitted CO₂ injection, and also permitted re-injection of recycled produced gas, is R-4442-G, paragraphs 5 & 6.

Attached is an OCD form C-108 and the information relative to the proposed expansion. A copy of the legal notice submitted to the Hobbs News-Sun is included in this package. The enclosed map highlights the location of the referenced well in relation to the offset operations.

If additional information is required, please contact me at (432-687-7261), or the project engineer, Ryan Warmke, at (432-687-7452).

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie

NM PE Technical Assistant

INJECTION WELL DATA SHEET

OPERATOR: CHEVRON U.S.A., INC.WELL NAME & NUMBER: VACUUM GRAYBURG SAN ANDRES UNIT #247WELL LOCATION: 1800' FNL & 145' FEL H 2 T18S R34E
FOOTAGE LOCATION UNIT LETTER SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface CasingHole Size: 14-3/4" Casing Size: 11-3/4"Cemented with: 1300 sx. *or* ft³Top of Cement: Surface Method Determined: CirculationIntermediate CasingHole Size: 11" Casing Size: 8-5/8"Cemented with: 750 sx. *or* ft³Top of Cement: Surface Method Determined: CirculationProduction CasingHole Size: 7-7/8" Casing Size: 5-1/2"Cemented with: 1150 sx. *or* ft³Top of Cement: Surface Method Determined: CirculationTotal Depth: 5300'Injection Interval(TVD) 4290' feet to 4850'

(Perforated)

INJECTION WELL DATA SHEET

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

Type of Packer: Arrowset Mechanical Set

Packer Setting Depth: 4280'

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? _____

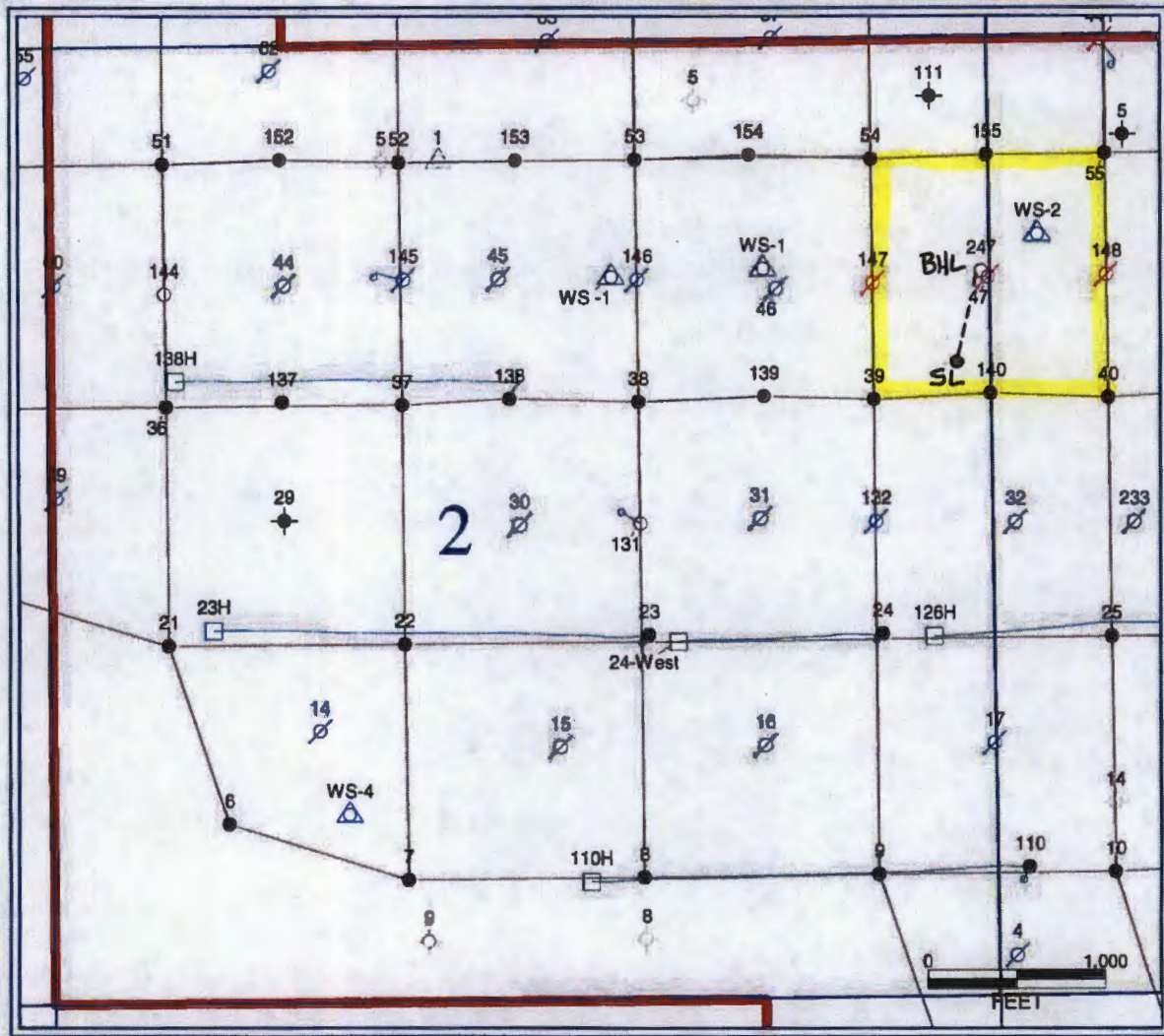
2. Name of the Injection Formation: SAN ANDRES

3. Name of Field or Pool (if applicable): VACUUM (GRAYBURG SAN ANDRES)

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: _____

GLORIETA 5,900'



PETRA 3/5/2013 10:45:59 AM

VGSAU 247WI PLAT
SECT. 2, T18S R34E
SCALE - 1" = 1000'
LEA CO., N.M.

SURFACE LOCATION (SL) -
1800' FNL 145' FEL

BOTTOM HOLE LOCATION (BHL) -
1320' FNL 100' FEL

S.M. INGRAM 3/5/13

VGSAU 247 WI WELLBORE DIAGRAM

Created: 02/20/13 By: Chay
 Updated: By:
 Lease: Vacuum Grayburg San Andres
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 1800' FNL & 145' FEL
 Bot. Loc.: 1320' FNL & 100' FEL
 County: Lea St.: NM
 Status: New Injection Well

Well #: 247 St. Lse: State
 API 30-025-40994
 Unit Ltr.: H Section: 2
 TSHP/Rng: T18S / R34E
 Unit Ltr.: H Section: 2
 TSHP/Rng: T18S / R34E
 Directions:
 Chevno:

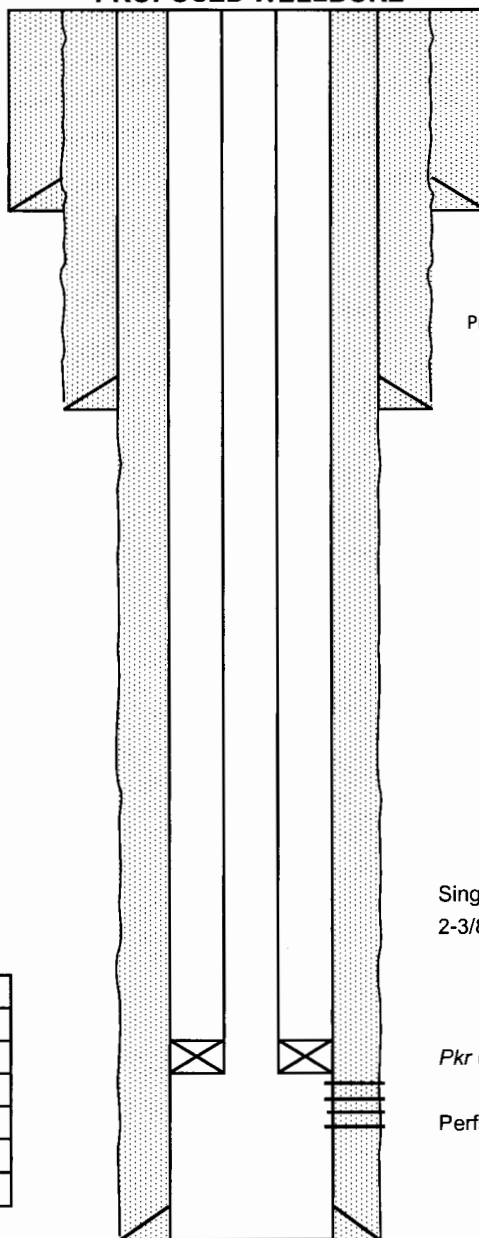
PROPOSED WELLBORE

Proposed
Surface Casing
 Size: 11-3/4", H-40
 Wt., Grd.: 42#
 Depth: 1525'
 Sxs Cmt: 1300 sxs
 Circulate: Yes
 TOC: Surface
 Hole Size: 14-3/4"

Intermediate Casing
 Size: 8-5/8", J-55
 Wt., Grd.: 32#
 Depth: 3200'
 Sxs Cmt: 750 sxs
 Circulate:
 TOC: Surface
 Hole Size: 11"

Production Casing
 Size: 5-1/2", J-55
 Wt., Grd.: 17#
 Depth: 5300'
 Sxs Cmt: 1150 sxs
 Circulate:
 TOC: Surface
 Hole Size: 7-7/8"

Formation Tops	
T/Salt	
B/Salt	
T/Yates	
T/Queen	
T/San Andres	
T/Glorieta	



KB:
 DF:
 GL: 4003'
 Ini. Spud:
 Ini. Comp.:

History:
 Initial Completion:

Proposed Spud date: July, 2013

Single string
 2-3/8" Fiberlined Tubing

Pkr @ 4280'

Perfs: 4290' - 4850'

TD: 5300' Proposed

Division Director additional information requests:

1. New well is included in an accepted “acid gas contingency” plan.

Yes, this new well will be included in the H2S Contingency Plan, (copy available in required).

2. Automatic shutoff in the well, in the wellhead, or near the wellhead that would stop outflow of gas if something happened to the well.

Chevron installs check valves at each wellhead which provides automatic shutoff service.

3. Some documentation as to the automation (scada system) being used on the VGSAU. This system needs to be capable of continuously measuring tubing and casing pressures and injection rates. The new permit may state this data to be retained and available to Hobbs district upon request.

Injector will be tied into Chevron’s SCADA system and routinely monitored.

4. The MIT schedule may be more frequent than the normal 5 years – depending on Hobbs requirements

Chevron currently perform annual MIT testing on injectors

Haynie, Carolyn (CHaynie) [Kelly Services]

From: Jones, William V., EMNRD [William.V.Jones@state.nm.us]
Sent: Wednesday, February 27, 2013 10:48 AM
To: Haynie, Carolyn (CHaynie) [Kelly Services]
Cc: Gonzales, Elidio L, EMNRD; Goetze, Phillip, EMNRD; Ezeanyim, Richard, EMNRD
Subject: Chevron's VGSAU - planned redrill of injection well

Carolyn,
Instead of doing a complete new Area of Review search, just search for additional wells in the AOR (to at least that depth) that were drilled AFTER the last permit was issued for the well being abandoned. Include a statement as to what has changed in the AOR – include the plugging detail for the well being abandoned. If new wells were drilled or plugged, list those and their cement/casing details (well bore diagrams for the plugged wells).

As far as notice goes, if the ½ mile AOR extends out of the VGSAU, then notify the operators within the portion of the circle extending out of the AOR. So notice should be done as always.

So the C-108 should be pretty standard with exception of only listing of AOR wells that were NOT already listed in the past.

Since you are doing an “S” shaped well, please send a schematic or some drawings of that.

A couple of new wrinkles the Division Director has asked for from OXY and probably will want from Chevron:

- a. We need a statement that the new well is included in an accepted “acid gas contingency” plan. So if unsure, please run this by the environmental bureau here in Santa Fe ASAP.
- b. We need some sort of automatic shutoff in the well, in the wellhead, or near the wellhead that would stop outflow of gas if something happened to the well. You probably have that covered, but let us know in the application.
- c. Some documentation as to the automation (scada system) being used on the VGSAU. This system needs to be capable of continuously measuring tubing and casing pressures and injection rates. The new permit may state this data to be retained and available to Hobbs district upon request.
- d. The MIT schedule may be more frequent than the normal 5 years – depending on Hobbs requirements.
- e. Anything else that is consistently required for other “acid gas” injection or disposal operations.

I didn’t review the hearing order for this project, so please also check to ensure the hearing order(s) that permitted CO2 injection, also permitted re-injection of re-cycled produced gas (if that is happening). If not, then we may need to talk as soon as possible.

Thank You!

Will

From: Haynie, Carolyn (CHaynie) [Kelly Services] [mailto:CHAY@chevron.com]
Sent: Tuesday, February 26, 2013 10:15 AM
To: Jones, William V., EMNRD
Cc: Ingram, Scott (ScottIngram); Brown, Paul T (PaulBrown); Warmke, RYAN
Subject: FW: PROJECT

Hi Will,

I have a question for you.

Chevron has VGSAU # 47 as an approved CO2 Injector, (R-4442-C thru R-4442-G) and we were unable to get a plug to seat in a profile nipple, (partially because this well has the tubing cemented in place), so we were unable to get a MIT test.

Since this well wasn't a good injector, (had a low injection rate), Chevron would like to P&A this well and drill a replacement injection well. The replacement well will be the VGSAU 247, and the bottom hole location is planned for ~50' NW of the VGSAU 47. The surface location will be about 1,000' from the 47, because of access issues. The injection interval will again be the Grayburg San Andres, with gross of 4270' to 4850'. The permitted injection interval for the VGSAU 47, and other VGSAU injectors, is the "Unitized Formation". Through OCD order R-4442-C dated 5/30/2008, the definition of the Unitized Formation was amended, vertically expanded, as shown below. Initially the VGSAU 247 will be completed, grossly, as the VGSAU 47 is now, between ~4270' and 4850' TVD, however, to avoid unnecessary restrictions later, we desire its permitted interval to read as all the other VGSAU injectors do, the Unitized Formation.

IT IS THEREFORE ORDERED THAT:

(1) The application of Chevron U.S.A., Inc. ("operator") for approval of an amendment to the Unit Agreement for the Development and Operation of the Vacuum Grayburg- San Andres Unit Area to expand the vertical limits of the Unitized Formation is hereby granted.

(2) The Unitized Formation of the Vacuum Grayburg-San Andres Unit is hereby extended to include portions of the Grayburg and San Andres Formations found between the stratigraphic equivalents of the depths of 3,902 feet and 5,020 feet on the Welex Acoustics Velocity Log, dated February 22, 1965, run in Texaco's New Mexico "M" State Well No. 8, located 330 feet from the North line and 1880 feet from the West line of Section 1, Township 18 South, Range 34 East, Lea County, New Mexico.

*Can you tell me what all you will need in the C108 Application from us to get the approval for the VGSAU 247? Since the bottom hole location will be essentially the same as the # 47, **will you need a complete C108 with all the offset operators, ½ mile well list and everything?** The plugging of the VGSAU # 47 will be fairly soon, so if you don't need everything for this project, it will be helpful for faster approval for this project.*

Thanks!

Carolyn Haynie
Chevron U.S.A. Inc.
New Mexico PE TA
For Eunice, Vacuum,
Dollarhide, And Facilities
Room 2242A
Midland, TX
432-687-7261





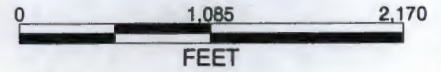
Chevron USA

Vacuum Field

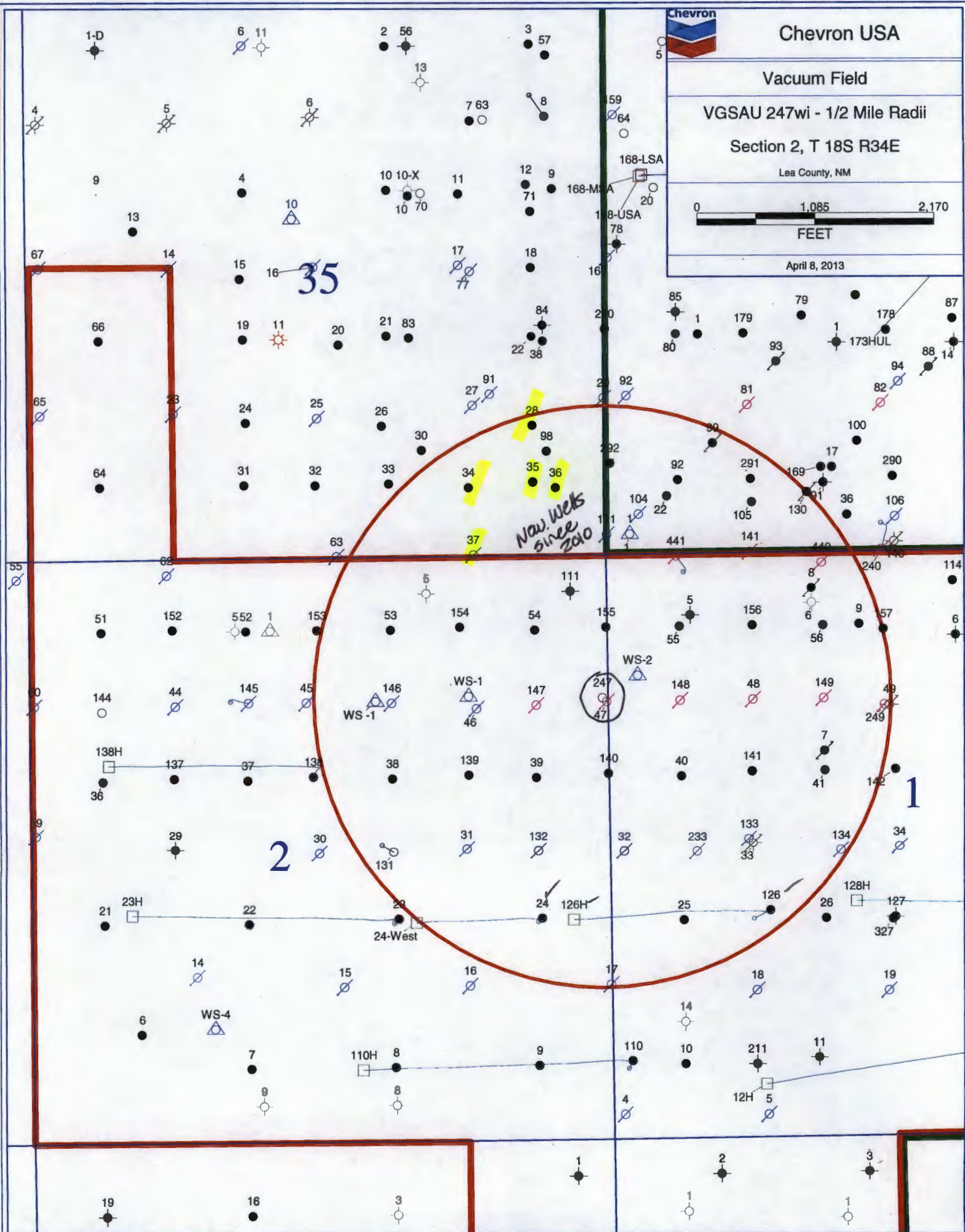
VGSAU 247wi - 1/2 Mile Radii

Section 2, T 18S R34E

Lea County, NM



April 8, 2013



VGSAU 247 Proposed Injection Well

Half Mile Radii Offset wells

Well	Operator	API	Status	Lease	Pool	Pool #	Unit Letter	Sec	Location	Twtnshp	Rng	Co	TD
State 35 Unit # 28	McGowan Working Partners, Inc.	30-025-33417	Active Oil	Vacuum Grayburg San Andres	Vacuum; Grayburg-San Andres	62180	P	35	1170' FSL & 660' FEL	17S	34E	LEA	5000'
State 35 Unit # 34	McGowan Working Partners, Inc.	30-025-30617	Active Oil	Vacuum Grayburg San Andres	Vacuum; Grayburg-San Andres	62180	P	35	620' FSL & 1250' FEL	17S	34E	LEA	4800'
State 35 Unit # 35	McGowan Working Partners, Inc.	30-025-02221	Active Oil	Vacuum Grayburg San Andres	Vacuum; Grayburg-San Andres	62180	P	35	660' FSL & 660' FEL	17S	34E	LEA	4552'
State 35 Unit # 36	McGowan Working Partners, Inc.	30-025-20780	Active Oil	Vacuum Grayburg San Andres	Vacuum; Grayburg-San Andres	62180	P	35	660' FSL & 560' FEL	17S	34E	LEA	10,400'
State 35 Unit # 37	McGowan Working Partners, Inc.	30-025-28062	Active Injection	Vacuum Grayburg San Andres	Vacuum; Grayburg-San Andres	62180	P	35	10' FSL & 1210' FEL	17S	34E	LEA	4800'

5 new wells + prior AOR wells for VGSAU #47 (API-025-24365) -
not in original AOR

State 35 Unit # 28

Created: 05/22/13 By: CHAY
 Updated: By:
 Lease: State 35 Unit
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 1170' FSL & 660' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Crude Oil Well

Well #: 28 St. Lse:
 API: 30-025-33417
 TSHP: T17S Rng: 34E
 Unit Ltr: P
 Section: 35
 TSHP/Rng:
 Directions:
 Chevno: NA; McGowan Working Partners, Inc.

Surface Casing

Size: 8-7/8", J-55
 Wt., Grd.: 24#
 Depth: 1620'
 Sxs Cmt: 850 sxs
 Circulate: yes, 195 sxs
 TOC: Surf
 Hole Size: 12-1/4"

Production Casing

Size: 5-1/2", K-55
 Wt., Grd.: 15.5#
 Depth: 4997'
 Sxs Cmt: 1150 sxs
 Circulate: Yes, 103 sxs
 TOC: Surf
 Hole Size: 7-7/8"

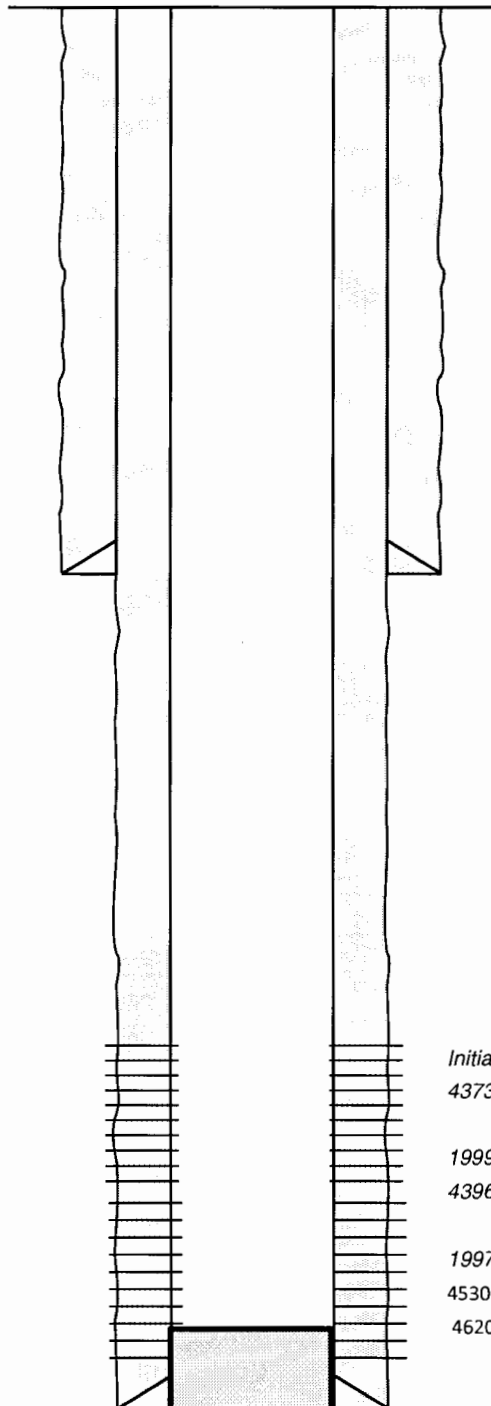
KB: 4024'
 DF:
 GL: 4008'
 Ini. Spud: 06/24/96
 Ini. Comp.: 08/19/96

Well History

Initial History

Spud 6/24/96, Perfs 4464'-4476', 4373' - 4388', Acdz w/2218 gals. 15% HCL.
 2/18/97: W/O, acdz SA, Add perfs, 4530'-4565', 35', 70 shots; 4574'-4594', 20', 40 shots, 4620'-4700', 80', 160 shots.
 6/799: Re stim, Add perfs: 4396'-4416', 20', 40 Shots.
 3/8/2000: Trt Scale, Acdz, Scale Sqz.
 12/20/2001: Trt Scale, Acdz, Scale 5qz

Formation Tops:	
Yates	2791'
7RVS	3140'
Queen	3700'
Grayburg	4025'
San Andres	4330'



Initial Grayburg Pert w/2 SPF
 4373'-88'; 4464'-76' (44 holes)

1999 Add Perfs: w/2 SPF
 4396'-4416' (40 shots)

1997 Add Perf:
 4530'-4565', 35', 70 shots; 4574'-4594', 20', 40 shots
 4620'-4700', 80', 160 shots.

PBTD: 4585'
 TD: 5000'

State 35 Unit # 34

Created: 05/22/13 By: CHAY
 Updated: By:
 Lease: State 35 Unit
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 620' FSL & 1250 FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Crude Oil Well

Well #: 34 St. Lse:
 API: 30-025-30617
 TSHP: T17S Rng: 34E
 Unit Ltr: P
 Section: 35
 TSHP/Rng:
 Directions:
 Chevno: NA; McGowan Working Partners, Inc.

Surface Casing

Size: 13-3/8", J-55
 Wt., Grd.: 54.4#
 Depth: 1567'
 Sxs Cmt: 1500 sxs
 Circulate: Yes, 600 sxs
 TOC: Surf
 Hole Size: 17-1/2"

Production Casing

Size: 5-1/2", J-55
 Wt., Grd.: 14#
 Depth: 4800'
 Sxs Cmt: 2000 sxs
 Circulate: Yes, 382 sxs
 TOC: Surf
 Hole Size: 7-7/8"

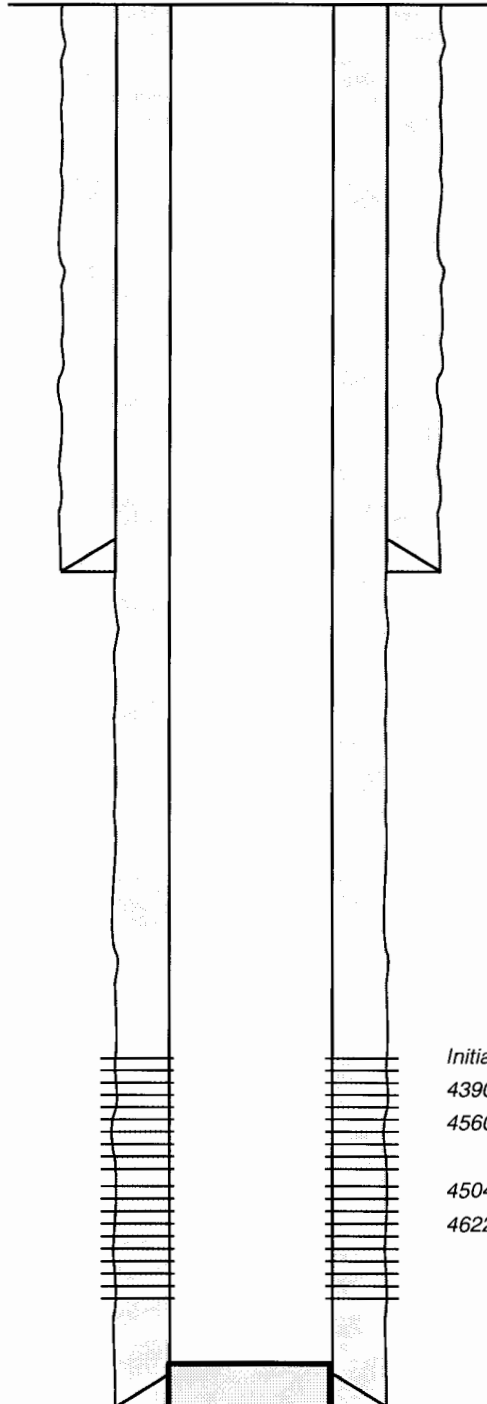
KB: 4019'
 DF:
 GL: 4011'
 Ini. Spud: 06/19/89
 Ini. Comp.: 09/05/89

Well History

Initial History

Spud 6/19/89, Perfs 4390'-96'-4403'-08';
 4414'-21', 4432'-37', 4509'-14'; 4560'-66',
 Acdz w/11,700 gals. 15% HCL. Sqzd w/220
 sxs Premium Plus.
1/31/96: Frac/Stim w/10,000 # 20/40 Sd,
 4000 gals, 15# Gel & 5000 gals 2PPG Gel. Did
 same two time.
5/2/97: Add Perfs & Acdz. Lower San
 Andres. 4504'-16', 12', 48 shots; 4566'-
 4636', 70', 280 shots; 4622'-4720', 58', 323
 shots.

Formation Tops:	
Yates	2803'
7RVS	3150'
Queen	3721'
Grayburg	4062'
San Andres	4388'



Initial Grayburg Pert w/4 SPF

4390'-4632'
 4560'-4593'

4504'/16', 4566'-4636'
 4622'-4720'

PBTD: 4640'
 TD: 4800'

State 35 Unit # 35

Created: 05/22/13 By: CHAY
 Updated: By:
 Lease: State 35 Unit
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 660' FSL & 660' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Crude Oil Well

Well #: 35 St. Lse:
 API: 30-025-02221
 TSHP: T17S Rng: 34E
 Unit Ltr: P
 Section: 35
 TSHP/Rng:
 Directions:
 Chevno: NA; McGowan Working Partners, Inc.

Surface Casing

Size: 9-5/8"
 Wt., Grd.: 36#
 Depth: 1491'
 Sxs Cmt: 875 sxs
 Circulate: Yes
 TOC: Surf, by Calc
 Hole Size: 12-1/2"

Production Casing

Size: 7"
 Wt., Grd.: 24#
 Depth: 4099'
 Sxs Cmt: 400 sxs
 Circulate: No
 TOC: 2061' by Calc
 Hole Size: 8-3/4"

KB:
 DF:
 GL: 4008'
 Ini. Spud: 11/02/38
 Ini. Comp.: 12/25/38

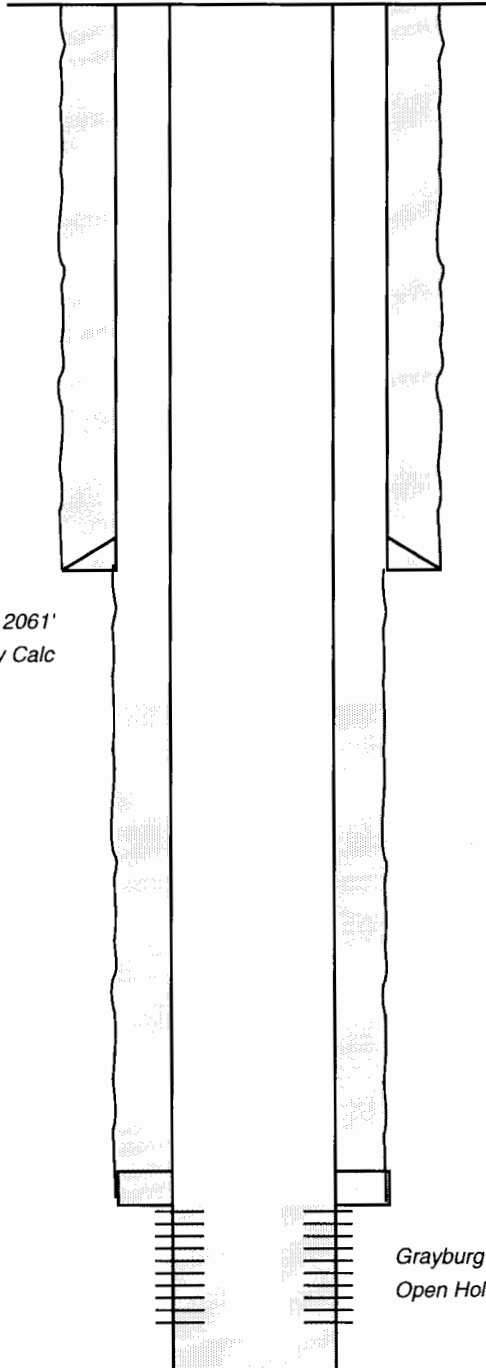
Well History

Initial History

Acdz OH 4099'-4552', w/1500 gals
 DowellXX.
 9/26/70: Trt OH w/300 gals 20% Acid.
 5/31/72: Trt OH w/1000 gals 28% acid
 10/31/72: TA'd
 8/16/83: NSL Approved
 5/22/85: Rpr Csg LK.
 8/30/85: Trt for Salt & scale; Dpn &
 Acdz.
 2/16/96: CO, Trt, Acdz.
 1/9/97: Frac Stim Upper San Andres

TOC @ 2061'
 By Calc

Formation Tops:
Yates
7RVS
Queen
Grayburg
San Andres



Grayburg San Andres:
 Open Hole 4099'-4552'

PBTD:
 TD: 4552'

State 35 Unit # 36

Created: 05/29/13 By: CHAY
 Updated: By:
 Lease: State 35 Unit
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 660' FSL & 560' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Grayburg/SA Crude Oil Well

Well #: 36 St. Lse:
 API: 30-025-20780
 TSHP: T17S Rng: 34E
 Unit Ltr: P
 Section: 35
 TSHP/Rng:
 Directions:
 Chevno: NA; McGowan Working Partners, Inc.
 Formerly: ConocoPhillips

Surface Casing

Size: 13-3/8"
 Wt., Grd.: 48#
 Depth: 320'
 Sxs Cmt: 350 sxs
 Circulate: Yes
 TOC: Surf
 Hole Size: 17-1/2"

Intermediate Casing

Size: 9-5/8"
 Wt., Grd.: 32.2#
 Depth: 3520'
 Sxs Cmt: 400 sxs
 Circulate: No
 TOC: 2500' by TS
 Hole Size: 12-1/4"

Production Casing - 2 stages

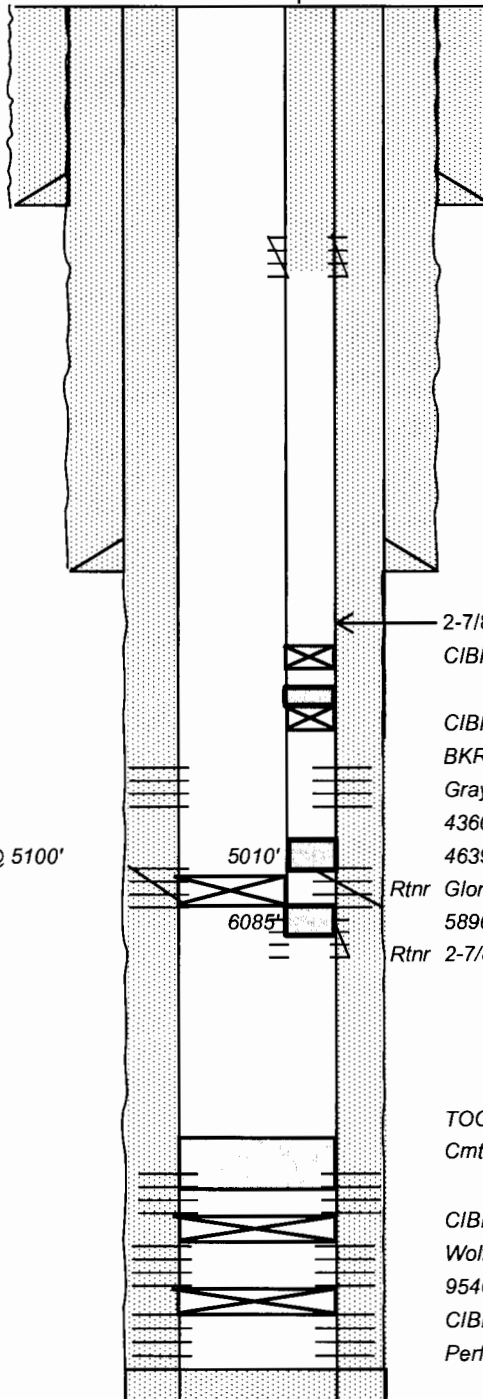
Size: 4-1/2"
 Wt., Grd.: 9.5 & 11.6#
 Depth: 10,359'
 Sxs Cmt: 859 sxs
 Circulate: No
 TOC: 2200' by TS
 Hole Size: 7-7/8"

Stage 2

Size: 2-7/8"
 Wt., Grd.: 6.5#
 Depth: 6428'
 Sxs Cmt: 662 sxs
 Circulate: No
 TOC: 2200' by TS
 Hole Size: 7-7/8"

Formation Tops:	
Yates	2820'
7RVS	
Queen	3710'
Grayburg	3895'
San Andres	4280'
Glorieta	5873'
Tubb	7360'
Abo	7894'
Penn	10,138'

Current Completion



KB: 4021'
 DF:
 GL: 4008'
 Ini. Spud: 02/27/64
 Ini. Comp.: 04/18/64

Well History

Initial History: Formation Glorieta, Dual Prod. Perfs, 6100'-6110'; & 9546'-9604'. Acdz w/4500 gals.
 6/30/71: Set Rtnr @ 5010' in 2-7/8". Sqz Glorieta Perfs: 6069'-79'. Perf 4-1/2" w/2 JSPF, 5896'-5964', 29', 58 shots, set 2-3/8" tbg @ 5980', Bkr Model R PKR @ 5849'. Acdz w/500 gals 28% acid. Set tbg @ 5888'. RTP.
 12/07/11: Set CIBP in 2-7/8" csg @ 4550' w/35' cmt on top. Set CIBP @ 4300', Perf 4 holes in 2-7/8" Csg @ top of cmt, circ fl. Cmt 9-5/8" Csg to Surf, Cmt, 13-3/8" csg to Surf.

2-7/8" csg
 CIBP @ 4300' (2-7/8")

CIBP @ 4550' w/35' Cmt on top
 BKR Model R Pkr
 Grayburg/San Andres Perfs:
 4360'-4574'

4639'-49', 4660'-70'
 Rtnr Glorieta Perfs: 4-1/2" csg
 5896'-5902', 596'-22', 5925'-32', 5954'-64'
 Rtnr 2-7/8" Perfs: 6069'-79' Abdn'd

TOC @ 8816'
 Cmt RTN @ 9289'

CIBP @ 9752'
 Wolfcamp Perfs:
 9546'-50', 9584'-9604', 9864'-72'
 CIBP @ 9995'
 Perfs: 10,034'-44'

Grayburg San Andres:

PBTD: 5100'
 TD: 10,400'

State 35 Unit # 37

Created: 06/04/13 By: CHAY
 Updated: By:
 Lease: State 35 Unit
 Field: Vacuum Grayburg San Andres
 Surf. Loc.: 10' FSL & 1210' FEL
 Bot. Loc.:
 County: Lea St.: NM
 Status: Active Crude Oil Well

Well #: 37 St. Lse:
 API: 30-025-28062
 TSHP: T17S Rng: 34E
 Unit Ltr: P
 Section: 35
 TSHP/Rng:
 Directions: 2 miles SW/Buckeye
 Chevno: NA; McGowan Working Partners, Inc.

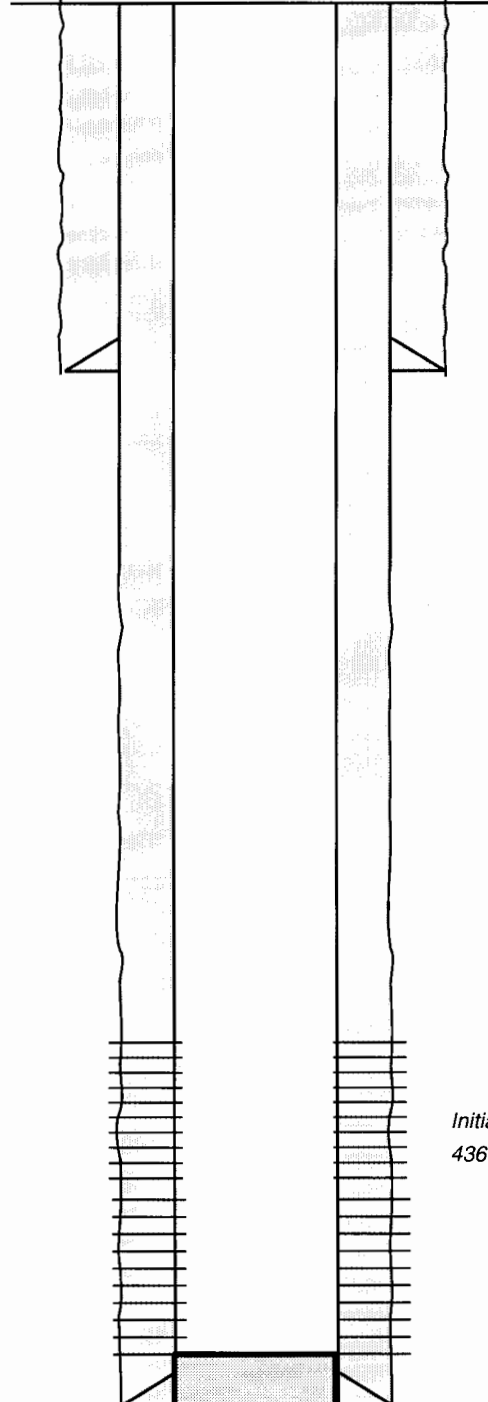
Surface Casing

Size: 13-38", K-55
 Wt., Grd.: 54.5#
 Depth: 1570'
 Sxs Cmt: 1650 sxs
 Circulate: yes, 150 sxs
 TOC: Surf
 Hole Size: 17-1/2"

Production Casing

Size: 5-1/2", K-55
 Wt., Grd.: 15.5#
 Depth: 4800'
 Sxs Cmt: 1700 sxs
 Circulate: Yes, 200 sxs
 TOC: Surf
 Hole Size: 7-7/8"

Formation Tops:	
Yates	2797'
7RVS	
Queen	3721'
Grayburg	4061'
San Andres	4350'



KB: 4022'
 DF:
 GL: 4010'
 Ini. Spud: 03/09/83
 Ini. Comp.: 07/23/83

Well History

Initial History: San Andres Perfs: 4367'-77', 4384'-4454', 4466'-77', 4494'-4502', 4540'-4610', 4616'-22', 4633'-38', 4644'-52', 4658'-4710'. 24', 240 shots. Acdz w/1000 gals 15% Ne, 750 gals acid, pmp'd 14,150 gals w/ball sealer every 100 gals, total 146 balls.

w/1 SPF
 (240' w/240 holes)

Initial Grayburg Perfs:
 4367'- 4710'

PBTD: 4728'
 TD: 4800'

NOTIFICATION LIST

Prepared 12/5/12 by Daniel Pequeno, Senior Land Representative

Application of Chevron U.S.A. Inc. for Administrative Approval of a Water Injection Well Location:

Vacuum Grayburg-San Andres Unit Well No. 247 (API #Unavailable)
1,800' FNL & 145' FEL (SHL); 1,320' FNL & 100' FEL (BHL)
Section 2, T-18-S, R-34E, Unit Letter H
Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for Section 35, T17S-R34E:

Chevron U.S.A. Inc.
15 Smith Road
Midland, Texas 79705

McGowan Working Interest Partners, Inc.
P. O. Box 55809
Jackson, MS 39296-5809

Offset Operators, Leaseholders, Working Interest Owners, for All of Section 36, T17S-R34E:

Mobil Producing Texas & New Mexico Inc.
c/o XTO Energy Inc.
Attn.: Permian Land
810 Houston Street
Fort Worth, Texas 76102

Chevron U.S.A. Inc.
15 Smith Road
Midland, Texas 79705

Offset Operators, Leaseholders, Working Interest Owners, for All of Sections 1 & 2, T18S-R34E:

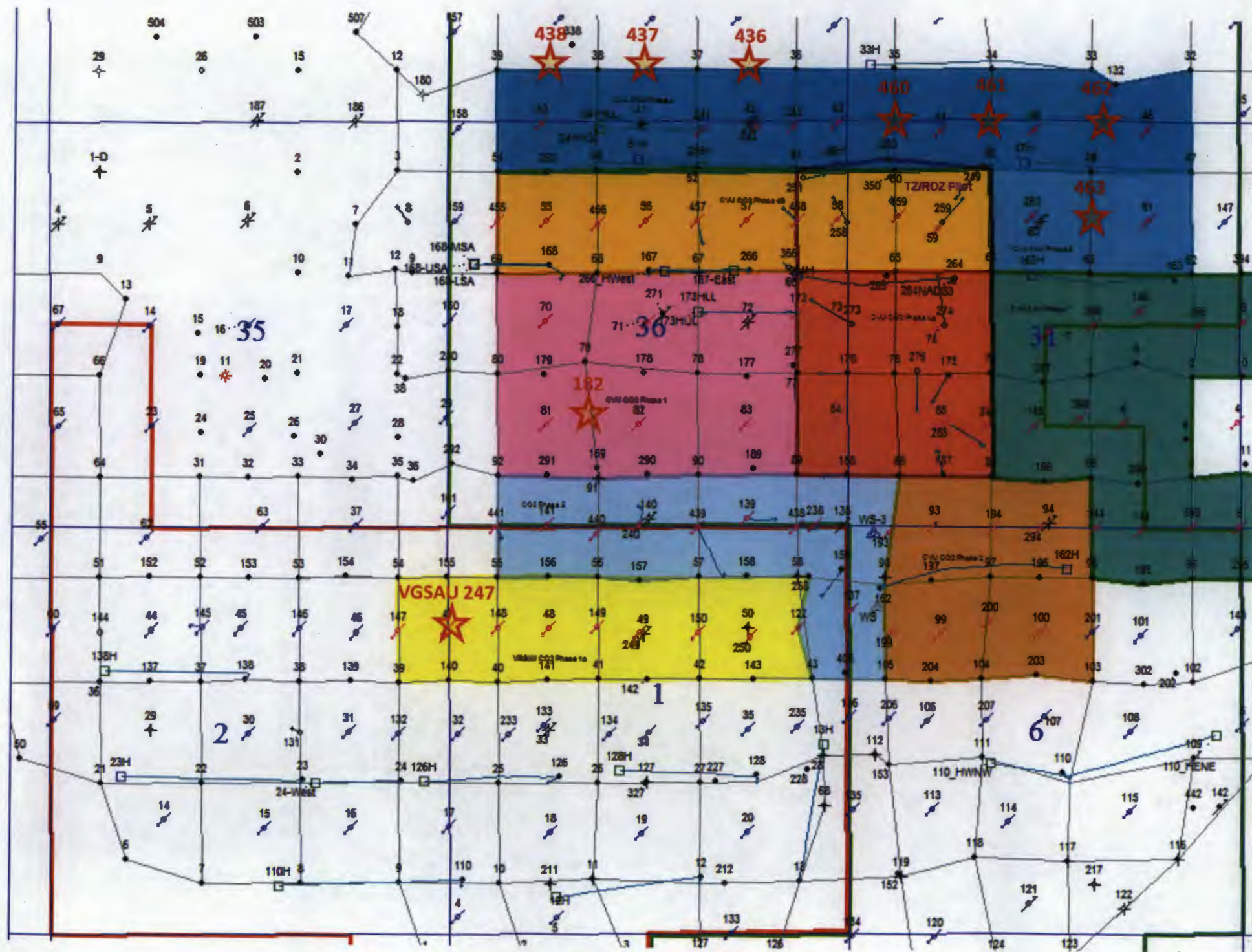
Chevron U.S.A. Inc.
15 Smith Road
Midland, Texas 79705

Surface Owner for All of Section 2, T-17-S-R34E:

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

Signed By: 
Daniel Pequeno, Landman

Date: December 5, 2012



OFFSET OPERATORS:

**McGowan Working Interest Partners, Inc.
P.O. Box 55809
Jackson, MS 39296-5809**



Carolyn Haynie
Petroleum Engineering
Technical Assistant

MidContinent/Alaska SBU
Chevron North America
Exploration and Production
Company
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7703
chay@chevron.com

June 10, 2013

Water, Gas & CO2 Injection Expansion
Vacuum Grayburg San Andres Unit # 247
Lea County, New Mexico

Offset Operators:

For your information, as an offset operator, Chevron U.S.A. Inc., operator of the Vacuum Grayburg San Andres Unit has filed an application with the New Mexico Oil Conservation Division and to drill well # 247 as a WAG Well, for water, produced gas, and CO2 injection in the Grayburg San Andres formation. VGSAU # 247 will replace the VGSAU # 47, which failed to pass the MIT, and was plugged and abandoned, 3-7-2013.

Attached is the information relative to the proposed expansion. A copy of the legal notice posted in the Hobbs News-Sun is included. The enclosed map highlights the location of the referenced wells in relation to your offset operations.

If additional information is required, please contact me at (432-687-7261), or the project engineer, Ryan Warmke, at (432-687-7452).

Interested parties must file objections with the Oil Conservations Division, 1220 South St. Francis Dr., Santa Fe, New Mexico, 87505, within 15 days.

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie
NM PE Technical Assistant

Enclosure



Carolyn Haynie
Petroleum Engineering
Technical Assistant

MidContinent/Alaska SBU
Chevron North America
Exploration and Production
Company
15 Smith Road
Midland, TX 79705
Tel 432-687-7261
Fax 432-687-7703
chay@chevron.com

June 10, 2013

STATE OF NEW MEXICO
COMMISSIONER OF PUBLIC LANDS
P.O. BOX 1148
SANTA FE, NE 87504-1148

RE: Application for Authorization to Inject
OCD Form C-108
Vacuum Grayburg San Andres Unit
Lea, County, New Mexico

Surface Owner:

For your information, Chevron USA Inc. as operator, filed an application with the New Mexico Oil Conservation Division to place the Vacuum Grayburg San Andres Unit well # 247, (API 30-025-4994), on injection, as a replacement well for the VGSAU # 47, which was P&A'd, 3-7-13. Chevron plans to inject produced water, gas, and CO₂.

Attached is the OCD form C-108 and the information relative to the proposed expansion.

Any objection to this application must be sent to the **New Mexico Oil Conservation Division; 1220 South St. Francis Drive; Santa Fe, NM 87504**, within 15 days of receipt of this notification.

If additional information is required, please contact me at (432-687-7261), or the project engineer, Ryan Warmke, at (432-687-7452).

Sincerely,

A handwritten signature in cursive script that reads "Carolyn Haynie".

Carolyn Haynie
NM PE Technical Assistant

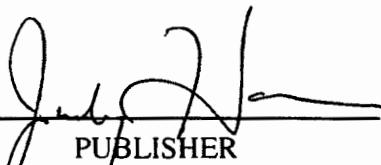
Enclosure

Affidavit of Publication

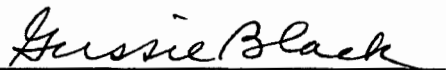
State of New Mexico,
County of Lea.

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
March 13, 2013
and ending with the issue dated
March 13, 2013

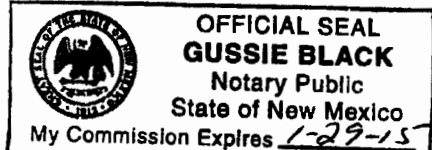

PUBLISHER

Sworn and subscribed to before me
this 13th day of
March, 2013



Notary Public

My commission expires
January 29, 2015
(Seal)



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

LEGAL
LEGAL NOTICE
March 13, 2013
Notice is hereby given of the
application of
CHEVRON U.S.A. INC.
15 Smith Road, Midland, TX
79705, to the Oil
Conservation of the State of
New Mexico, and the
Commissioner of Public
Lands, State of New Mexico
for approval to convert the
Vacuum Grayburg San
Andres Unit # 247, as a
Water Injection well.
Injection into this well is
designed to enhance
production from the Vacuum
Grayburg San Andres Unit.
The VGSAU # 247 is
located 1800' FNL & 145'
FEL, Unit Letter H, Sec. 2,
T18S, R34E, Lea County,
New Mexico.
The injection interval is in
the Grayburg San Andres
formation from 3902'-5020',
thru perforations. The
maximum injection rate will
be 2,000 BWP, with a
maximum allowable amount
of 1500 PSI. CO2 and
produced gas injection will
be an expected maximum
rate of 4000 MCF per day
and an expected maximum
surface pressure of 2200
PSI. Interested parties
should file objections or
requests for hearing with the
Oil Conservation Division,
1220 South St. Francis
Drive, Santa Fe, New
Mexico, 87505 within 15
days.
Inquiries regarding this
application should be
directed to Chevron North
America, Attn: Edgar Acero,
15 Smith Rd., Midland TX
79705.
#27994

01102480

00110842

CHEVRON USA INC.
15 SMITH ROAD
MIDLAND, TX 79705

Injection Permit Checklist: Received 06/17/2013 First Email Date: _____ Final Reply Date: _____ Suspended?: _____

Issued Permit: Type: WFX PMX / SWD Number: 915 Permit Date: 07/23/2013 Legacy Permits or Orders: *R-4442-G

Well No: #247 Well Name(s): Vacuum Grayburg San Andres Unit (VGSAU) *CO₂ & Produced water

API: 30-025-40994 Spud Date: July 2013 New/Old: (N) (UIC CI II Primacy March 7, 1982)

Footages: SL: 1800 FNL / 145 FEL Lot: H Unit: 2 Tsp: 185 Rge: 34E County: Lea

General Location: Vacuum Field ~21 mi west of Hobbs Pool: Vacuum (Grayburg - San Andres) Pool No.: _____

Operator: Chevron USA, Inc. OGRID: 4323 Contact: Carolyn Haynie

COMPLIANCE RULE 5.9: Inactive Wells: 5 Total Wells: 2162 Fincl Assur: OK Blanked Compl. Order? No IS 5.9 OK? Yes

Well File Reviewed: ✓ HRC Case Current Status: Proposed replacement for VGSAU #47 - identified

Planned Rehab Work to Well: NA in R-4442-G

Well Diagrams: Proposed ✓ Before Conversion _____ After Conversion _____ Are Elogs in Imaging?: _____

Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)	Stage Tool	Cement Sx or Cf	Cement Top and Determination Method
Planned ___ or Existing ___ Cond	—	—	—	—	—
Planned ___ or Existing ___ Surface	14 3/4 / 11 3/4	0 to 1525	—	1300	Circulate to surf
Planned ___ or Existing ___ Interm	11 / 8 5/8	0 to 3200	—	750	Circulate to surf
Planned ___ or Existing ___ LongSt	7 7/8 / 5 1/2	0 to 5300	—	1150	Circulate to surf
Planned ___ or Existing ___ Liner	—	—	—	—	—
Planned ___ or Existing ___ OH/PERF	5 1/2	4290-4850	NA	—	—

Injection Strat Column:	Depths (ft)	Formation	Tops?	Completion/Ops Details:
Above Top of Inject Formation	Shallow S	Seven Rivers		Drilled TD <u>5300</u> PBTD <u><5300</u>
Above Top of Inject Formation	depths NA 2	Queen	4220	Open Hole _____ or Perfs <u>✓</u>
Proposed Interval TOP:	Injecting	4290/Gray	4343	Tubing Size <u>2 3/8</u> Inter Coated? <u>✓ FG</u>
Proposed Interval BOTTOM:	info in file	4850/SA	4850	Proposed Packer Depth <u>4280</u>
Below Bottom of Inject Formation	& order	Glorieta	4850	Min Packer Depth <u>4190</u> (100-ft limit)
Below Bottom of Inject Formation				Proposed Max. Surface Press <u>[see R-4442-G]</u>
				Calc. Injt Press _____ (0.2 psi per ft)
				Calc. FPP _____ (0.65 psi per ft)

AOR: Hydrologic and Geologic Information

POTASH: R-111-P 16 Noticed? — BLM Sec Ord 16 WIPP 16 Noticed? — SALADO: T: NA B: NA CLIFF HOUSE NA

Fresh Water: Max Depth: 200 ft Formation Challala Wells? 0 Analysis? No Hydrologic Affirm Statement Yes

Disposal Fluid: Formation Source(s) VGSA / CO₂ produced onsite / reinjection + purchased CO₂ On Lease ✓ Only from Operator _____ or Commercial _____

Injection Rate: 2000/4000 Disposal Interval: Protectable Waters? No CAPITAN REEF: in 16 thru 16 adjacent 16

H/C Potential: Producing Interval? Yes - water flood / EOR Formerly Producing? _____ Method: E Log / Mudlog/DST/Depleted/Other NA

AOR Wells: 1/2-M Radius Map? Yes Well List? Yes Total No. Wells Penetrating Interval: 5

Penetrating Wells: No. Active Wells 4 Num Repairs? 0 on which well(s)? _____ Diagrams? Yes

Penetrating Wells: No. P&A Wells 1 Num Repairs? 0 on which well(s)? _____ Diagrams? Yes

NOTICE: Newspaper Date 03/12/13 Mineral Owner SLO Surface Owner SLO N. Date 12/5/12

RULE 26.7(A): Identified Tracts? ✓ Affected Persons: McGowan Working IP / Mobil N. Date 12/5/12

Permit Conditions: None other than stipulated in Orders & previous PMX-44

Issues: _____