chay@chevron.com

e-mail Address

pPBG1328032475

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -1220 South St. Francis Drive, Santa Fe, NM 87505



		ADMINISTRATIVE I	APPLICATION CHEC	KLISI
Т	HIS CHECKLIST IS M		APPLICATIONS FOR EXCEPTIONS TO DI	
Appli	[DHC-Dow	ndard Location] [NSP-Non-Sta nhole Commingling] [CTB-Le ol Commingling] [OLS - Off-L [WFX-Waterflood Expansion] [SWD-Salt Water Disposa	_ease Storage] [OLM-Off-Leas	Lease Commingling] se Measurement] expansion] ease]
[1]	TYPE OF AF	PPLICATION - Check Those W Location - Spacing Unit - Sim NSL NSP		Central Vacuum Unit 30-625-41343 CVU #170
	Check [B]	One Only for [B] or [C] Commingling - Storage - Mea	surement PLC PC OLS	CVV + 170 OLM 30-025-41344
	[C]		e Increase - Enhanced Oil Recove	
	[D]	Other: Specify		
[2]	NOTIFICAT [A]		Those Which Apply, or Does erriding Royalty Interest Owners	Not Apply
	[B]	Offset Operators, Leaseh	olders or Surface Owner	:
	[C]	Application is One Whic	h Requires Published Legal Notic	ce
	[D]	Notification and/or Conc U.S. Bureau of Land Management - Co	urrent Approval by BLM or SLO	
	[E]	For all of the above, Proo	f of Notification or Publication is	Attached, and/or,
	[F]	☐ Waivers are Attached		
[3]		CURATE AND COMPLETE ATION INDICATED ABOVE	INFORMATION REQUIRED	TO PROCESS THE TYPE
	val is accurate a	nd complete to the best of my k	information submitted with this a nowledge. I also understand that ions are submitted to the Division	no action will be taken on this
	Note	: Statement must be completed by an	n individual with managerial and/or sup	ervisory capacity.
	lyn Haynie	arolyn Lague	NM Petro Eng Tech Assistant	<u> </u>
Print	or Type Name	Signature	Title	Date

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? Yes No			
II.	OPERATOR: CHEVRON U.S.A., INC.			
	ADDRESS:15 SMITH ROAD; MIDLAND, TX 79705			
	CONTACT PARTY: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? X Yes No If yes, give the Division order number authorizing the project: R-5530-E			
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 MCF 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 in 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other th 				
*VIII.	 produced water; and, CO2 for Injection will either be purchased or CVU produced gas that is stripped of NGLs & Reinjected. 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. II. 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, 4020' - 5100'. 			
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 HAYNIETITLE:Petro Eng. Tech Assistant			
	SIGNATURE: DATE: 9-30-13			
	E-MAIL ADDRESS:			

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. ATTACHED

- 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. ATTACHED

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. <u>ATTACHED</u>

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

INJECTION WELL DATA SHEET

OPERATOR: CHE	EVRON U.S.A. INC.				
WELL NAME & NUM	BER: <u>CENTRAL VACUUM UNI</u>	T # 170			····
WELL LOCATION:	2490' FSL & 500' FWL FOOTAGE LOCATION	UNIT L; UNIT LETTER	SEC. 36, SECTION	T17S, TOWNSHIP	R34E RANGE
Created 9/3/2013 By: Chay Updated: By: Updated: By: Updated: By:	API 30-025-41343		WELL Co	ONSTRUCTION DA	<u>TA</u>
Lease Central Vacuum Unit Field: Vacuum (Grayburg-San Andres Surf Loc.: 2490' FSL & 500' FWL Bot. Loc.: 2490' FSL & 500' FWL County: Lea St.: NM	Unit Ltr.: L Section: 36 TSHP/Rng: T17S & R34E CHEVNO: NW2154		14-3/4"		
Status: New Water Injector	Directions: Buckeye, NM	Cemented with:	sx.	or	ft ³
Ргоромя Ргоро	osed Wellbore Diagram	Top of Cement:	Surface	Method Determine	d: <u>Circulation</u>
Surface Casing Size	KB DF: GL 4001' Ini Spud: Ini Comp.		Intermediat	te Casing	
Circulate: Yes TOC: Surface Hole Size: 14-3/4"		Hole Size:	11"	Casing Size: 8	-5/8"
		Cemented with:	750 sx.	or	ft ³
		Top of Cement: _	Surface	Method Determine	d: _
Proposed Intermediate Casing Size 8 5/6" Wt. Grd.: 32#			Production	n Casing	
Depth: 3200'		Hole Size:	7-7/8"	Casing Size:	5-1/2'
Hole Size: 11"	I I I I I I I I I I I I I I I I I I I	Cemented with:	<u>1150</u> sx.	or	ft ³
Proposed Production Casing	updated diagram	Top of Cement:	Surface	Method Determine	d: <u>Circulation</u>
Size: 5-1/2" Wt. Grd.: 17# Depth: 5300'		Total Depth:	5300' Proposed		
Sxs Cmt: 1150 sxs Circulate: Yes TOC. Surface	Pkr. @		Injection]	<u>Interval</u>	
Hole Size. 7-7/8"	Grayburg San Andres Perfs:		4100' feet	to5100'	
			(New V	Vell)	

INJECTION WELL DATA SHEET

T	ubing Size:Lining Material:Fiberglass
Тур	pe of Packer:5-1/2" Nickel plated Internally plastic coated Inj pkr
Pac	cker Setting Depth:
Oth	ner Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?No
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: Grayburg - San Andres
3.	Name of Field or Pool (if applicable):Central Vacuum Unit
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 (5850-6200')

Created:	9/3/2013	By:	Chay
Updated:	10/22/13	By:	Chay
Updated:		By:	
Updated:		By:	
Lease:	Centra	I Vacuum	Unit
Field:	Vacuum (Gr	ayburg-Sa	an Andres)
Surf. Loc.:	2490' F	SL & 500	'FWL
Bot. Loc.:	2490' F	SL & 500	'FWL
County:	Lea	St.:	NM
Status: New Water Injector			ector

Well #:	170	St. Lse:	
API	30-025-41343		
Unit Ltr.:	L	Section:	36
TSHP/Rng:		T17S & R34E	

Bottom Hole Location

Unit Ltr.:	L	Section:	36
TSHP/Rng:		T17S & R34E	
CHEVNO:		NW2154	
Directions:		Buckeye, NM	

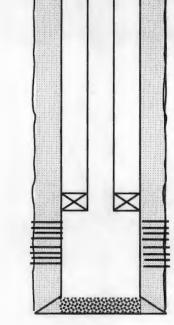
	Proposed	
Surface Casing		
Size:	11-3/4"	
Wt., Grd.:	42#	
Depth:	1500'	
Sxs Cmt:	1300 sxs	
Circulate:	Yes	
TOC:	Surface	
Hole Size:	14-3/4"	

sed Wellbo		
		
	Ĺ	

KB:	
DF:	
GL:	4001'
Ini. Spud:	11/6/2013-est
Ini. Comp.:	12/6/2013-est

posed				
Intermediate Casing				
3 5/8"				
32#				
3200'				
50 sxs				
Yes				
urface				
11"				

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



Pkr. @ 4090' (10' above top perf)

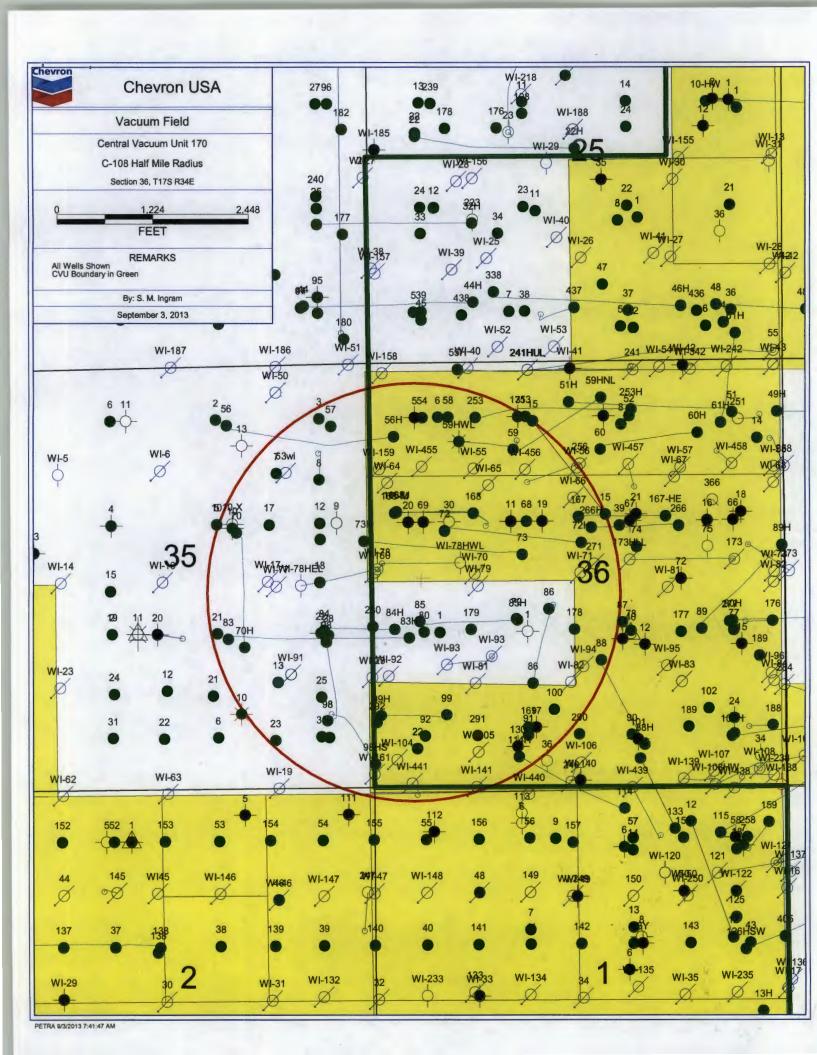
Grayburg San Andres Perfs: 3-3/8" guns w/2 JSPF, 120 deg PH 4100' to 5100'

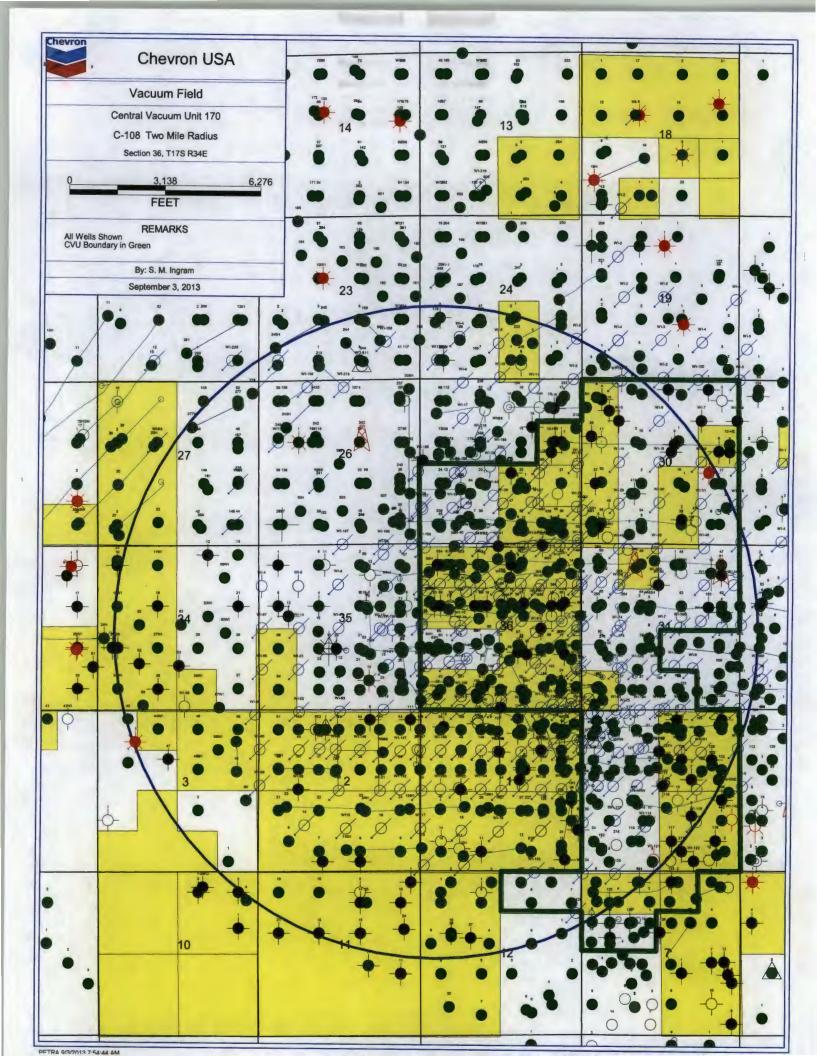
PBTD: TD: 5300'

API No. 30-025-41343

Completion Procedure

- 1. RUPU
- 2. NU tubing head (if not completed by drilling rig)
- 3. RU wireline & log as follows:
 - a. SGR(spectral GR) RAL (Radial Cement Bond Log) CNL (Compensated Neutron) from PBTD to 2,800. Run the RAL log with 0 psi on the repeat pass & 1000 psi on the main pass.
 - b. From 2,800 Surface, continue with the GR-CNL.
 - c. Run repeat section from TD to 4000'.
- 4. Perforate the 5-1/2" casing in the main pay interval as per the technical team recommendation using 3-3/8" guns w/ 2 JSPF @ 120 degree phasing (perfs will be within the interval of 4,020 5,100').
- 5. Acidize perfs with 20,000 gallons 15% NEFE HCl.
- 6. TIH with 4-3/4" MT bit & 6 x 3-1/2" DC's on 2-7/8" 6.5# L80 workstring and CO to float collar.
- 7. Circ hole clean.
- 8. TOH LD WS, DC's & bit.
- 9. RIH with 2-3/8" Fiberlined injection tubing with on-off tool and 1.43" ID 'F' profile nipple and 5-1/2" Arrow Set IX. Set packer +/- 10' above top perf.
- 10. Load annulus with packer fluid
- 11. Perform MIT.
- 12. RD PU
- 13. Put well on injection.





NOTIFICATION LIST

Prepared 9/3/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 170, API #30-025-41343

2,490' FSL & 500' FWL of Section 36, T-17-S, R-34E, Unit Letter L Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for E/2 of Section 35, T17S-R34E:

Chevron U.S.A. Inc.

McGowan Working Interest Partners, Inc.

15 Smith Road

P. O. Box 55809

Midland, Texas 79705

Jackson, MS 39296-5809

ConocoPhillips Petroleum Company P. O. Box 2197

Houston, Texas 77252-2197

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

Mobil Producing Texas & New Mexico Inc.

Chevron U.S.A. Inc.

c/o XTO Energy Inc.

15 Smith Road

Attn.: Permian Land

Midland, Texas 79705

810 Houston Street Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for All of Section 1, T17S-R34E:

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

Surface Owner for All of Section 36, T-17-S-R35E:

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

Signed by: ___Daniel Pequeno (signed)

Daniel Pequeno, Senior Landman

Date: September 3, 2013

INJECTION WELL DATA SHEET

OPERATOR: CHI	EVRON U.S.A. INC.				
WELL NAME & NUM	BER: CENTRAL VACUUM UN	NIT # 181			
WELL LOCATION:	1420' FSL & 730' FWL				
	FOOTAGE LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
Created: 9/3/2013 By: Chay Jpdated: By: Jpdated: By: Jpdated: By: Lease: Central Vacuum Unit			<u>WELL Co</u> <u>Surface</u>	ONSTRUCTION DA Casing	<u>TA</u>
Field: Vacuum (Grayburg-San Andres Surf. Loc.: 1420' FSL & 730' FWL 3ot. Loc.: 1420' FSL & 730' FWL	Bottom Hole Location Unit Ltr.: L Section: 36 TSHP/Rng: T17S & R34E	Hole Size:	14-3/4"	Casing Size:	11-3/4"
County: Lea St.: NM Status: New Water Injector	CHEVNO: NW2155 Directions: Buckeye, NM	Cemented with:	1300 sx.	or	ft³
		Top of Cement:	Surface	Method Determin	ed: <u>Circulation</u>
Surface Casing			Intermedia	te Casing	
Sxs Cmt 1300 sxs Dirculate: Yes FOC Surface Hole Size 14-3/4"	Ini. Comp	Hole Size:	11"	Casing Size:	3-5/8"
		Cemented with:	750sx.	or	ft ²
		Top of Cement:	Surface	Method Determin	ed: _
Preposed Intermediate Casing Size 8 5/8" Wt. Grd 32#			Production	n Casing	
Depth: 3200* Sxs Cmt: 750 sxs Circulate: Yes		Hole Size:	7-7/8"	Casing Size:	5-1/2'
TOC: Surface Hole Size: 11"		Cemented with:	1150 sx.	or	ft ²
Proposed			Surface	Method Determin	ed: _Circulation
Production Casing Size: 5-1/2" Wt, Grd.: 17# Depth: 5300'	Need add to dignary	Total Depth:	5300' Proposed		
Sxs Cmt: 1150 sxs Circulate Yes TOC: Surface	Pri (1)		Injection	<u>Interval</u>	
Hole Size 7-7/8"	Grayburg San Andres Perfs:	_	4100' fee	t to <u>5100'</u>	
-			(New '	Well)	

INJECTION WELL DATA SHEET

T	bing Size: Lining Material:Fiberglass
Тур	of Packer: 5-1/2" Nickel plated Internally plastic coated Inj pkr
Pac	er Setting Depth:
Oth	r Type of Tubing/Casing Seal (if applicable):
	Additional Data
1.	Is this a new well drilled for injection?No
	If no, for what purpose was the well originally drilled?
2.	Name of the Injection Formation: <u>Grayburg - San Andres</u>
3.	Name of Field or Pool (if applicable): Central Vacuum Unit
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 (5850-6200')

CVU 181

Created:	9/3/2013	By:	Chay			
Updated:	10/22/13	By:	Chay			
Updated:		By:				
Updated:		By:				
Lease:	Central Vacuum Unit					
Field:	Vacuum (Grayburg-San Andres)					
Surf. Loc.:	1420' FSL & 730' FWL					
Bot. Loc.:	1420' F	SL & 730	'FWL			
County:	Lea	St.:	NM			
Status:	New Water Injector					

Well #:	181	St. Lse:	
API		30-025-41344	
Unit Ltr.:	L	Section:	36
TSHP/Rng:		T17S & R34E	

Unit Ltr.:	L	Section:	36
TSHP/Rng:		T17S & R34E	
CHEVNO:		NW2155	
Directions:		Buckeye, NM	

	Proposed
Surface Cas	ing
Size:	11-3/4"
Wt., Grd.:	42#
Depth:	1500'
Sxs Cmt:	1300 sxs
Circulate:	Yes
TOC:	Surface
Hole Size:	14-3/4"

Proposed

8 5/8"

32#

3200' 750 sxs

Yes Surface

11"

Intermediate Casing

Size:

Wt., Grd.:

Depth: Sxs Cmt:

Circulate: TOC:

Hole Size:

Propos	ed Wei	lbore [Diagr	am H
	×	×		Pkr.
				Grayl 3-3/8 4100

	KB:	
	DF:	
	GL:	3992'
Ini. Sp	ud:	11-20-13-est
Ini. Cor	np.:	12-20-13-est

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

Pkr. @ 4090' (10' above top perf)

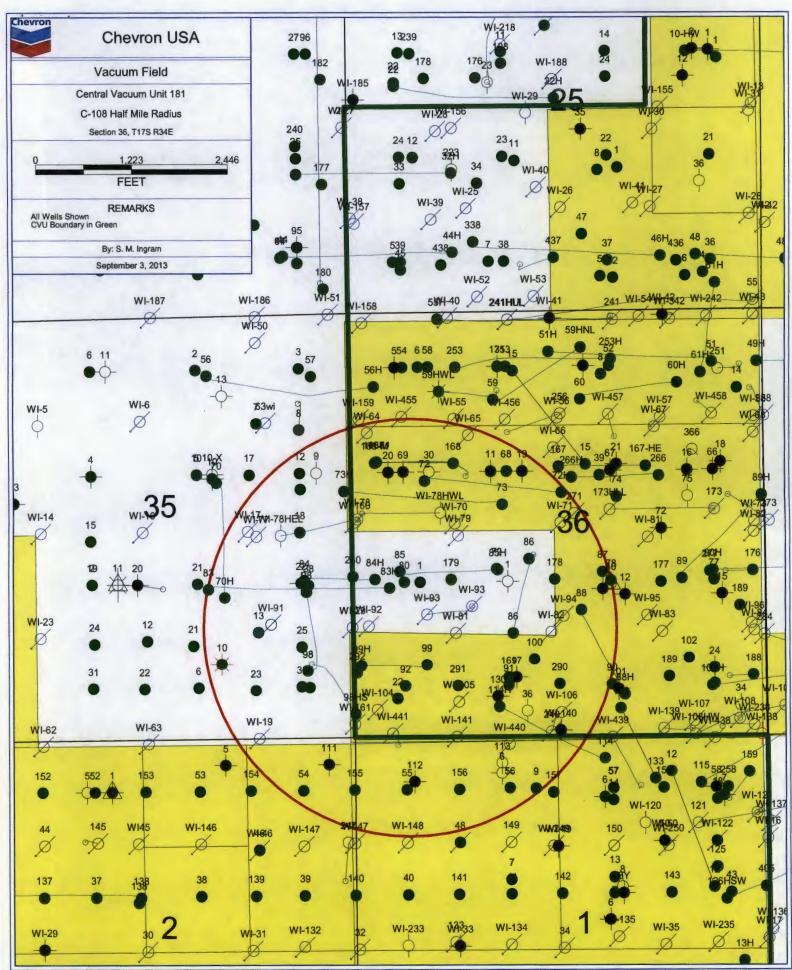
Grayburg San Andres Perfs: 3-3/8" guns w/2 JSPF, 120 deg PH 4100' to 5100'

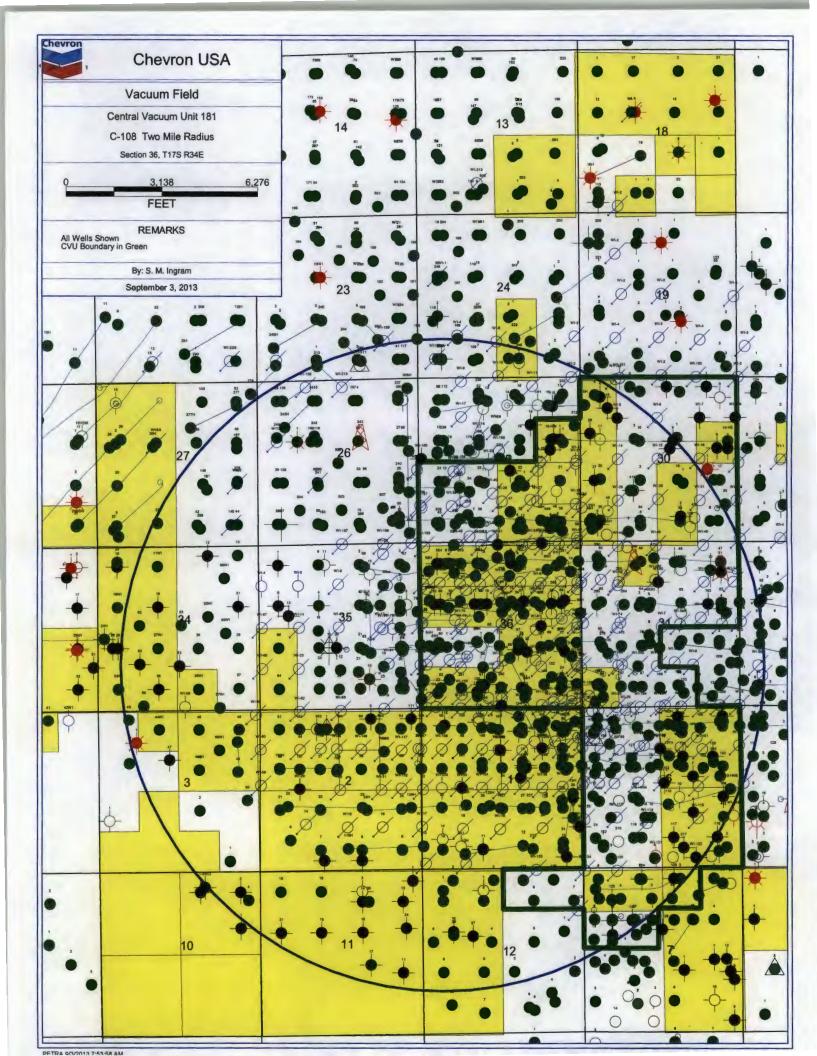
PBTD: TD: 5300'

API No. 30-025-41344

Completion Procedure

- 1. RUPU
- 2. NU tubing head (if not completed by drilling rig)
- 3. RU wireline & log as follows:
 - a. SGR(spectral GR) RAL (Radial Cement Bond Log) CNL (Compensated Neutron) from PBTD to 2,800. Run the RAL log with 0 psi on the repeat pass & 1000 psi on the main pass.
 - b. From 2,800 Surface, continue with the GR-CNL.
 - c. Run repeat section from TD to 4000'.
- 4. Perforate the 5-1/2" casing in the main pay interval as per the technical team recommendation using 3-3/8" guns w/ 2 JSPF @ 120 degree phasing (perfs will be within the interval of 4,020 5,100).
- 5. Acidize perfs with 20,000 gallons 15% NEFE HCl.
- 6. TIH with 4-3/4" MT bit & 6 x 3-1/2" DC's on 2-7/8" 6.5# L80 workstring and CO to float collar.
- 7. Circ hole clean.
- 8. TOH LD WS, DC's & bit.
- 9. RIH with 2-3/8" Fiberlined injection tubing with on-off tool and 1.43" ID 'F' profile nipple and 5-1/2" Arrow Set IX. Set packer +/- 10' above top perf.
- 10. Load annulus with packer fluid
- 11. Perform MIT.
- 12. RD PU
- 13. Put well on injection.





NOTIFICATION LIST

Prepared 9/3/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 181, API #30-025-41344

1,420' FSL & 730' FWL of Section 36, T-17-S, R-34E, Unit Letter L Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for E/2 of Section 35, T17S-**R34E:**

Chevron U.S.A. Inc.

McGowan Working Interest Partners, Inc.

15 Smith Road

P.O. Box 55809

Midland, Texas 79705

Jackson, MS 39296-5809

ConocoPhillips Petroleum Company P. O. Box 2197

Houston, Texas 77252-2197

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

Mobil Producing Texas & New Mexico Inc.

Chevron U.S.A. Inc.

c/o XTO Energy Inc.

15 Smith Road

Attn.: Permian Land 810 Houston Street

Midland, Texas 79705

Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for All of Section 1, T17S-R34E:

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

Surface Owner for All of Section 36, T-17-S-R35E:

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

Signed by: <u>Daniel Pequeno (signed)</u>

Daniel Pequeno, Senior Landman

Date: September 3, 2013

lews Wells Add	ed within 1/2 Mile radius fo	or Order R-553	80-E									•
Section 1 & Sec	36, T17S & T18S, R34E, Le	a County, NM									<u>_</u> .	
Well	Wells	API	Status	Lease	Pool	Unit Letter	Sec	Location	Twnshp	Rng	Co	TD
entral Vacuum Un	<u>it # 170</u>											
	CVU 455	30-025-38637	Active Injector	Central Vacuum Unit	VGSA	DD	36	1310' FNL & 660' FWL	T17S	R34E	Lea	5320'
	CVU_456	30-025-38638	Active Injector	Central Vacuum Unit	VGSA	F	36	1360' FNL & 1980' FWL	T17S	R34E	Lea	5010'
	VGSAU 441	30-025-38788	Active Injector	Vacuum Grayburg San Andres Unit	VGSA	D	1	170' FNL & 710' FWL	T18S	R34E	Lea	5007'
entral Vacuum Uni	it # 181	i I		1	ı	1	ı		1	ı	i 1	
	CVU 455	30-025-38637	Active Injector	Central Vacuum Unit	VGSA	D	36	1310' FNL & 660' FWL	T17S	R34E	Lea	5320'
	VGSAU 440	30-025-38787	Active Injector	Vacuum Grayburg San Andres Unit	VGSA	С	1 .	100' FNL & 1980' FWL	T18S	R34E	Lea	5020'
	VGSAU 441	30-025-38788	Active Injector	Vacuum Grayburg San Andres Unit	VGSA	D	1	170' FNL & 710' FWL	T18S	R34E	Lea	5007'
	NM 'O' State (NCT-1) # 40	30-025-38140	Active Injector	New Mexico 'O' State NCT-1	Devonian	J	36	1885' FSL & 1978' FEL	T17S	R34E	Lea	13000
	5w0-1051											

CVU #455 Wellbore Diagram

Updated: 08/19/08 By: NC Updated: 11/06/08 By: Jcc Lease: Central Vacuum Unit Field: Vacuum Grayburg San And Surf. Loc.: 1310' FNL 660' FWL	ayce poper dres	Well #: API Unit Ltr.: TSHP/Rng: Unit Ltr.: TSHP/Rng: Directions: Chevno:	455 St. Lse: 30-025-38637 D Section: 36 17S 34E Section: Buckeye, NM LC0286
Surface Casing Size: 13 3/8" Wt., Grd.: 42# H-40 Depth: 451' Sxs Cmt: 560 Circulate: 200 sx TOC: Surface Hole Size: 17 1/2"			KB: 4033' DF: 4032' GL: 4008' Ini. Spud: 05/13/08 Ini. Comp.: 06/16/08
Intermediate Casing Size: 9 5/8" Wt., Grd.: 36# J-55 Depth: 3190' Sxs Cmt: 1760 Circulate: 465 sx TOC: Surface Hole Size: 12 1/4"		2-3	1/8" Fiberlined Inj. Tubing
Production Casing Size: 7" Wt., Grd.: 23# J-55 Depth: 5312' Sxs Cmt: 1240 Circulate: 110 sx TOC: Surface Hole Size: 8 1/2"		Pkı	r w/ on-off tool (1.5" PN) @ 4345' rfs: 4393' - 4782'

PBTD: 5,045 TVD: 5,320

CVU #456 Wellbore Diagram

Created: 07/01/08 By: NC Updated: 08/11/08 By: NC Updated: 11/06/08 By: Jcooper Updated: 12/04/08 By: NC Lease: Central Vacuum Unit Field: Central Vacuum Unit Surf. Loc.: 1360' FNL 1980' FWL Bot. Loc.: County: Lea St.: NM Status: Injector	Well #: API Unit Ltr.: TSHP/Rng: Unit Ltr.: TSHP/Rng: Directions: CHEVNO:	## Section: 36
Surface Casing Size: 8 5/8" Wt., Grd.: 24# J-55 Depth: 1625' Sxs Cmt: 1240 Circulate: 350 sx TOC: Surface Hole Size: 12 1/4" Production Casing Size: 5 1/2" Wt., Grd.: 17# J-55 Depth: 5010' Sxs Cmt: 1,100 Circulate: 49 sx TOC: Surface Hole Size: 7 7/8" Tubing: 137 jts 2-7/8" J-55 Arrowset 1-X pkr w/on-off tool 4300' (1.5" 'F' Profile) Perf interval - 4363-4782' Detailed Perfs: 4363-66, 4388-96, 4400-4405, 4408-12, 4437-40, 4440-46, 4454-56, 4458-60, 4468-74, 4526-28, 4531-33, 4538-40, 4563-66, 4586-94,4596-4606, 4604-06, 4612-16, 4628-34, 4656-4660, 4666-74, 4684-91, PBTD: 490	96,446 46,448 4478 v sealer Perfs: 4586-9 34. Ao w/1300 times. Perfs: 4708,464,476 w/800 diverti C/O to 10/1/2	Completion: Perfs 4363-66,4388- 00-4405,4408-12,4437-40,4440- 54-56,4458-60,4468-74. Acidize 4363- w/4500 gals 15% HCL divert w/140 ball s. Balled out three times. 4526-28, 4531-33, 4538-40, 4563-66, 94, 4596-4606,4604-06,4612-16, 4628- cidize 4526-4634' w/3500 gals 15% HCL ball sealers to divert. Balled out three
4695-4708, 4712-20, 4722-32, 4740-48, TD: <u>501</u>	<u> </u>	

VGSAU 441 Wellbore Diagram

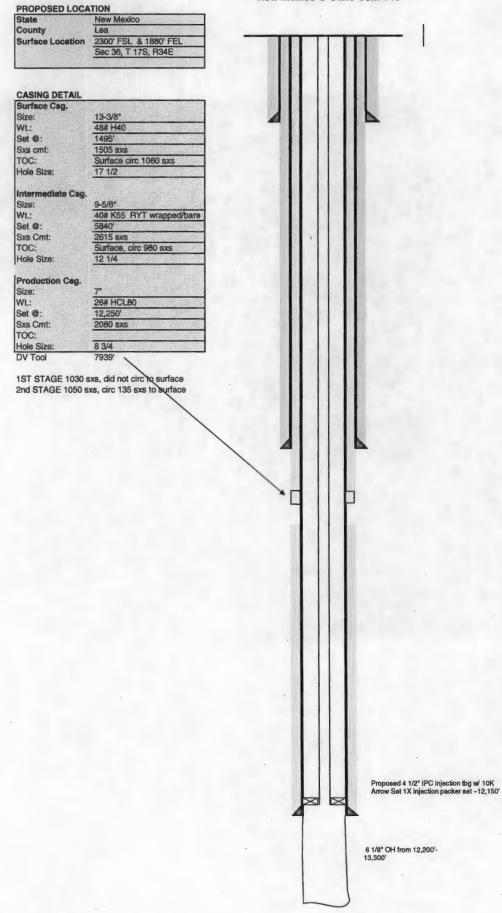
	Andres L	Well #: API Unit Ltr.: TSHP/Rng: Unit Ltr.: TSHP/Rng: Directions: CHEVNO: OGRID:	441 A	St. Lse: 30-025-38788 Section: 18S & 34E Section: Buckeye, NM LD9384 4323	1
Surface Casing Size: 11 3/4" Wt., Grd.: 42#, H-40 Depth: 1500' Sxs Cmt: 1,050 Circulate: Yes, 2 Sx TOC: Surface Hole Size: 14 3/4"				KB: _ DF: _ GL: _ Ini. Spud: _ Ini. Comp.: _	4024' 4002' 04/04/09 04/21/09
WTF ECP on 5-1/2" @ 1307' (top) Ryte-Wrap csg 1325-1858' (12 jts) Well has Shallow Kick Off Slant Well Deviation: 4947' MD = 4940' TVD Production Casing Size: 5 1/2" Wt., Grd.: 17#, J-55 Depth: 5007' Sxs Cmt: 2,100 Circulate: 435 sx *Hole size 11" to 27 TOC: Surface Hole Size: *7 7/8" * Tubing detail: 2-3/8" EUE 4.7# J-55 Fiberline 131 jts. @ 4219'	782'		History: 5/5/09-5/1: runs. Acid 2 Balled out.	d not close while 1/09_Perf 4289-485 14,950 gals 15% HCL Set 5-1/2" pkr w/or 8" Fiberline tbg @ 4	2' in 11 -off
Perf detail: 4289-4293, 4310-4318, 4366-4368, 4372-4374, 4378-4388, 4390-4398, 4402-4410, 4414-4416, 4420-4422, 4424-4426, 4428-4433, 4450-4455, 4476-4486, 4525-4528, 4530-4534, 4539-4542,4544-4550,4553-4556,4558-4572,4592-4594,4648-4653,4655-4657,4659-4662,4665-4674,4676-4687,4690-4698,4701-4708,4723-4727,4730-4732,4742-4745,4748-4750,4766-4770,4774-4776,4779-4782,4789-4804,4810-4818,4826-4831,4833-4836,4838-4852'	PBTD: 4918' TD: 5007'		4240'	4919'	

VGSAU 440 Wellbore Diagram

Surface Casing Size: 11 3/4" Wt., Grd.: 42# H-40 STC Depth: 1500' Sxs Cmt: 950 Circulate: yes, 349 sx TOC: Surface Hole Size: 14 3/4" ECP on 8 5/8" @ 1376' Ryte-Wrap csg 1392-2366' Ini. Spud: 03/19/09 Ini. Comp.: 04/01/09 Ini. Comp.: 04/01/09 Ini. Comp.: 04/01/09 Ini. Spud: 03/19/09 Ini. Spud: 03/19/09 Ini. Comp.: 04/01/09 Ini. Spud: 03/19/09 Ini. Comp.: 04/01/09 Ini. Spud: 03/19/09 Ini. Spud:	Created: 04/15/09 By: CAYN Updated: 05/12/09 By: Cayce Lease: Vacuum Grayburg San Andres Unit Field: Vacuum Grayburg San Andres Surf. Loc.: 100' FNL 1980' FWL Bot. Loc.: County: Lea St.: NM Status: CO2 Injector	Well #: 440 St. Lse: - API 30-025-38787 Unit Ltr.: C Section: 1 TSHP/Rng: 18S 34E Unit Ltr.: Section: TSHP/Rng: Directions: Buckeye, NM CHEVNO: LD9383 OGRID: 4323
Production Casing Size: 5 1/2" Wt., Grd.: 17#, J-55 LTC Depth: 5018' Sxs Cmt: 1,050 Circulate: yes, 334 sx TOC: Surface Hole Size: 7 7/8" Perfs detail: 4294-4299, 4306-4322, 4332-4348, 4354-4356, 4362-4366, 4410-4422, 4481-4488, 4492-4496, 4498-4502, 4510-4514, 4516-4526, 4528-4536, 4596-4604, 4606-4618, 4622-4625, 4639-4641, 4643-4646, 4650-4658, 4662-4673, 4676-4678, 4680-4692, 4696-4700, 4704-4709, 4716-4724, 4750-4754, 4756-4762, 4768-4778, 4783-4795, 4798-4808, 4816-4828, 4838-4840, 4844-	Size: 11 3/4" Wt., Grd.: 42# H-40 STC Depth: 1500' Sxs Cmt: 950 Circulate: yes, 349 sx TOC: Surface Hole Size: 14 3/4" ECP on 8 5/8" @ 1376' Ryte-Wrap csg 1392-2368' Intermediate Casing Size: 8 5/8" Wt., Grd.: 24# J-55 STC Depth: 2962' Sxs Cmt: 1,140 Circulate: yes, 168 sx TOC: surface Hole Size: 11" ECP on 5 1/2" @ 2688'	DF: GL: 3996¹ Ini. Spud: 03/19/09 Ini. Comp.: 04/01/09 History: 4/09 Spot w/500 gals 10% acetic acid. Perf 4294-4860'. Acidize w/25,000 gals 15% HCL in one stage. Did not ballout. Set pkr @ 4219'. 11/12 Repair MIT Failure. CO to 4,940'.
Perfs: 4294'-4860' PBTD: 4,940'	## Production Casing Size:	Perfs detail: 4294-4299, 4306-4322, 4332-4348, 4354- 4356, 4362-4366, 4410-4422, 4481-4488, 4492-4496, 4498-4502, 4510-4514, 4516- 4526, 4528-4536, 4596-4604, 4606-4618, 4622-4625, 4639-4641, 4643-4646, 4650- 4658, 4662-4673, 4676-4678, 4680-4692, 4696-4700, 4704-4709, 4716-4724, 4750- 4754, 4756-4762, 4768-4778, 4783-4795, 4798-4808, 4816-4828, 4838-4840, 4844- 4846, 4848-4850, 4852-4856, 4858-4860

WELLBORE DIAGRAM

New Mexico O State Com #40



Affidavit of Publication

State of New Mexico, County of Lea.

I, DANIEL RUSSELL 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

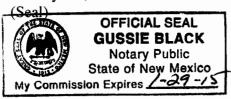
of 1 issue(s).
Beginning with the issue dated
August 29, 2013
and ending with the issue dated
August 29, 2013

PUBLISHER

Sworn and subscribed to before me this 29th day of August, 2013

Notary Public

My commission expires January 29, 2015



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 NOTICE August 29, 2013

Notice is hereby given of the application of CHEVRON U.S.A, INC. 15 Smith Road, Midland, TX 79705, to the Conservation of the State of New Mexico, and the Commissioner of Public Lands, State of New Mexico for approval to add the new Central Vacuum Unit # 170 and Central Vacuum Unit #181 as Water Alternating CO2 Gas Injection well. Injection into this well is designed to enhance production from the Vacuum Grayburg San Andres Unit. The CVU # 170, is located 2490' FSL & 500' FWL, Unit Letter L, Sec. 36, T17S, R34E; CVU # 181, is located 1420' FSL & 730' FWL, Unit Letter L, Sec 36,

T17S, R34E; both in Lea County, New Mexico.
The injection interval is in the Grayburg San Andres formation from 4100'-5100', thru perforations. The maximum injection rate will be 4,000 BWPD, with a maximum allowable amount of 1500 PSI. CO2 and produced gas injection will be an expected maximum rate of 8,000 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: Ryan Warmke, 15 Smith Rd., Midland TX 79705.

01102480

00121428

CHEVRON USA INC. 15 SMITH ROAD MIDLAND, TX 79705



September 24, 2013

Water, Gas & CO2 Injection Central Vacuum Unit # 171 & 180 Lea County, New Mexico **Carolyn Haynie**Petroleum Engineering
Technical Assistant

MidContinent Business Unit Chevron North America Exploration and Production Company 15 Smith Road Midland, TX 79705 Tel 432-687-7261 Fax 432-687-7871 chay@chevron.com

Offset Operators:

For your information, as an offset operator, Chevron U.S.A. Inc., operator of the Central Vacuum Unit has filed an application with the New Mexico Oil Conservation Division and to add two new wells as Water Alternating Gas Injection wells. Injection into these wells is designed to enhance the production from the Central Vacuum Unit.

Wells: CVU # 170, API # 30-025-41343; 2490' FSL & 500' FWL, L-36-T17S-R34E, Lea Co. CVU # 181, API # 30-025-41344; 1420' FSL & 730' FWL, L-36-T17S-R34E, Lea Co.

Attached is the information relative to the application, with copies of the legal notice posted in the Hobbs News-Sun and a map highlighting the location of the referenced wells in relation to your offset operations.

Any objections to this application must be sent to the **New Mexico Oil Conservations Division**, **1220 South St. Francis Dr.**, **Santa Fe**, **New Mexico**, **87505**, 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,

Carolyn Haynie
Chevron Midcontinent
NM PE Technical Assistant

Enclosure

OFFSET OPERATORS:

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

ConocoPhillips Petroleum Company P.O. BOX 2197 Houston, TX 77252-2197

Mobil Producing TX & NM Inc. c/o XTO Energy, Inc. Attn: Permian Land 810 Houston Street Ft Worth, TX 76102

Surface Owner

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



September 30, 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 Central Vacuum Unit # 170 & # 181 Lea, County, New Mexico

Surface Owner:

For your information, Chevron U.S.A. Inc., operator of the Central Vacuum Unit has filed an application with the New Mexico Oil Conservation Division to add two new wells as Water Alternating Gas Injection wells. Injection

Wells: CVU # 170, API # 30-025-41343; 2490' FSL & 500' FWL, L-36-T17S-R34E, Lea Co. CVU # 181, API # 30-025-41344; 1420' FSL & 730' FWL, L-36-T17S-R34E, Lea Co.

into these wells is designed to enhance the production from the Central Vacuum Unit.

Attached is the information relative to the application, with copies of the legal notice posted in the Hobbs News-Sun and a map highlighting the location of the referenced wells in relation to your offset operations.

Any objections to this application must be sent to the New Mexico Oil Conservations Division, 1220 South St. Francis Dr., Santa Fe, New Mexico, 87505, 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,

Carolyn Haynie

NM PE Technical Assistant

Enclosure

Carolyn Haynie Petroleum Engineering Technical Assistant

MidContinent Business Unit Chevron North America **Exploration and Production** Company 15 Smith Road Midland, TX 79705 Tel 432-687-7261 Fax 432-687-7871 chay@chevron.com



September 30, 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 for WAG Order R-5530-E Vacuum Grayburg San Andres Lea, County, New Mexico Carolyn Haynie Petroleum Engineering Technical Assistant MidContinent Business Unit Chevron North America Exploration and Production Company 15 Smith Road Midland, TX 79705 Tel 432-687-7261 Fax 432-687-7871 chay@chevron.com

Chevron U.S.A. Inc., respectfully requests administrative approval to add two new wells, CVU # 170, API # 30-025-41343 and CVU # 181, API # 30-025-41344, as Water Alternating Gas Injection wells. Injection into these wells is designed to enhance the production from the Central Vacuum Unit.

The Injection interval in the Grayburg San Andres formation from 4020' to 5100', through perforations, with maximum injection rate of 4,000 BWPD per well, with a maximum allowable surface pressure of 1,500 PSI and CO2 and produced gas injection will be at a maximum rate if 8,000 MCF per day, per well, with a maximum surface pressure of 2,200 PSI.

Hearing Order, R-5530-E, Paragraphs 5 & 6, permitted CO2 injection, and also permitted re-injection of recycled produced gas. Attached is an OCD form C-108 and the information relative to this request.

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

Sincerely,

Carolyn Haynie
Chevron Midcontinent

NM PE Technical Assistant

		iol i	:61	- Proposed well	diagram-needs
C-108 Review	Checklist: Re	eceived 47 Add. Reque	st: 10/21/13	Reply Date: 10/21/	Suspended: [Ver 10]
PERMIT TYPE: WE	PMX/SWD N	umber: 917 Permi	it Date: 11/	<u>08</u> Legacy Permi	ts/Orders: R-5536 as amended
176	LARG	Vacuum Unit	vells]	113 Centro	as amended
Well No. 170 Well Name(s					
API: 30-0 <u>25 - 41343</u>	Spud Da	te:1BD N	New or Old:	(UIC Class II F	Primacy 03/07/1982)
Footages 290 FSL 500	FWL_Lot_		sp <u>175</u>	34E	County Lea
General Location:	- 1				
				/\ \ \ \	
Operator: Cheuron USA					()
COMPLIANCE RULE 5.9: Inactive W	ells:Tota	al Wells: 2158 Fincl	Assur: Yes	Compl. Order?_	No 18 5.9 OK? Yes
Well File Reviewed Current State	us: <u>New-ac</u>	lditional WAG u	uell		
Well Diagrams: NEW: Proposed	RE-ENTER: Befor	re Conv. After Conv.) Are Elons	in Imaging?:	new well
		2 2 2 3 1 1 2 3 1 1 1 1 1 1 1 1 1 1 1 1		gg	
Planned Rehab Work to Well:	IT				
Well Construction Details:	Sizes (in) Borehole / Pipe	Setting Depths (ft)		Cement Sx or Cf	Cement Top and Determination Method
Planned _or Existing _Conductor		<u> </u>	Stage		
Planned or ExistingSurface	#34/113/4	0 to 1500	Tool	1300	Cir. to surface
Planned or Existing Interm Prod	11/85/8	0 to 3200	No	750	Cir. to surface
Planned_or ExistingProdanterm	77/8/51/2	0 to 530s	No	1150	Cir to surface
Planned_or Existing Liner/Prod	<u></u>	A			
Planned_Vor ExistingOH / PERE	5/2	form 4100-Sico	Inj Length	Completion	/Operation Details:
Injection Stratigraphic Units:	Depths (ft)	Injection or Confining Units	Tops?	Drilled TD	PBTD
Adjacent Unit: Litho. Struc. Por.		7-Rivas		NEW TD <u>53</u> 70	NEW PBTD
Confining Unit: Litho. Struc. Por.		Queen			or NEW Perfs
Proposed Inj Interval TOP:	4100	Granzenox	4020,		in. Inter Coated? <u>Y&</u>
Proposed Inj Interval BOTTOM:	5100	Son Andres	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	Proposed Packer D	
Confining Unit: Litho. Struc. Por.		Glorieta	5100	Min. Packer Depth	
Adjacent Unit: Litho. Struc. Por.	nd Coologia is	Vaddock		Proposed Max. Sur	75530 F (0.2 psi per ft)
FRESH WATER: Formation Oyal	END Date		_ `,	-000 16 (USE 41)	IRM By Qualified Person (9)
Disposal Fluid: Formation Source(s)					
Disposal Interval: Injection Rate (Avg/Max BWPD): Protectable Waters: CAPITAN REEF: thru() adj() NA()					
H/C Potential: Producing Interval? Yeshi Formerly Producing Method & Log /Mudlog/DST/Depleted/Other_NA					
AOR Wells: 1/2-M Radius Map? 165 Well List? 1/2-M Penetrating Interval: 3 Horizontals?					
Penetrating Wells: No. Active Wells 3 Num Repairs? on which well(s)? 73 new injectors Diagrams?					
Penetrating Wells: No. P&A Wells	Num Repairs?	?on which well(s)?	3000 51	er AOR inclu	
NOTICE: Newspaper Date 68 2	9/13 Mineral	Owner_SLO	Surface (owner_SLO	N. Dat 0924/13
RULE 26.7(A): Identified Tracts?	S Affected Per	rsons: Concornillips	/ McGa	war Working	XTO N. Dat 09/24/13
Permit Conditions: Issues:	-None		!	9	
Permit Conditions: Issues:	-None	psi water & Zz	200 psi	Gas -no au	dditional permit

C-108 Review Checklist: Facelived					
PERMIT TYPE (NFX) PMX / SWD Number: 917 Permit Date: 1/08/13 Legacy Permits/Orders: R-5530 as a manded Well No. 16 Well Name(s): Central Vaccum Unit					
API: 30-0 25 - 41344 Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982) Footages					
API: 30-0 25 - 41344 Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982) Footages					
API: 30-0 25 - 41344 Spud Date: TBD New or Old: New (UIC Class II Primacy 03/07/1982) Footages					
General Location: Vacuum Field Pool: Vacuum Grouping - San Andres Pool No.: 62180 Operator: Cheston USA Inc. OGRID: 4323 Contact: Carolign Hayne COMPLIANCE RULE 5.9: Inactive Wells: 7 Total Wells: 2158 Fincl Assur: 453 Compl. Order? NO IS 5.9 OK? 455 Well File Reviewed Current Status: New - additional WAG well Well Diagrams: NEW: Proposed RE-ENTER: Before Conv. After Conv. Are Elogs in Imaging?: No - New well Planned Rehab Work to Well: NA Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) Stage Planned or Existing Surface Planned for Existing Interment of the Sale of the Sa					
General Location: Vacuum Field Pool: Vacuum; Grawaria - San Anthes Pool No.: 62180 Operator: Cheviron USA Inc. OGRID: 4323 Contact: Carolyn Haynic COMPLIANCE RULE 5.9: Inactive Wells: 7 Total Wells: 2158 Fincl Assur: YES Compl. Order? NO IS 5.9 OK? YES Well File Reviewed Current Status: Now - adduternal WAG well Well Diagrams: NEW: Proposed RE-ENTER: Before Conv. After Conv. Are Elogs in Imaging?: No - New well Planned Rehab Work to Well: NA Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) San Completion Method Planned or Existing Conductor Planned or Existing Intermeted of Existing Proportion To Surface Planned or Existing Intermeted of Existing Proportion To Surface Planned or Existing Intermeted of Existing Proportion To Surface Planned or Existing Liner/Prod Planned or Existing Uniter Prod Planned or Existing Depths (ft) Injection or Confining Units Injection Stratigraphic Units: Depths (ft) Injection or Confining Units Injection Tops? Units Depths (ft) Injection or Confining Units Depths (ft) Injection or New PBTD — NEW TD 5300 New PBTD — NEW TD 5300 New PBTD — NEW Open Hole O or New Peris Vacuum and New Parts (New Peris Vacuum).					
Operator:					
Well File Reviewed Current Status: New -addutional WAG well Well Diagrams: NEW: Proposed RE-ENTER: Before Conv. After Conv. Are Elogs in Imaging?: No - New well Planned Rehab Work to Well: NA Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) Synr Cf Determination Method Planned or Existing Conductor Planned or Existing Intermed No 1/8 / 1					
Well File Reviewed © Current Status: New - additional WAG well Well Diagrams: NEW: Proposed © RE-ENTER: Before Conv. After Conv. Are Elogs in Imaging?: No - New well Planned Rehab Work to Well: NA Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) Setting Depths (ft) Sx or Ct Determination Method Planned or Existing Surface Planned or Existing Inferme Prod N 85/8 O to 3200 No 1150 Surface Planned or Existing Produnterm 1/8 5/2 O to 3200 No 1150 Surface Planned or Existing Liner/Prod 1/8 5/2 O to 3300 No 1150 Surface Injection Stratigraphic Units: Depths (ft) Injection or Confining Tops? Units Tops? Drilled TD PBTD Confining Units: Litho. Struc. Por. NEW PBTD NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. NEW Open Hole O or NEW Perfs (Assert Confining Units: Litho. Struc. Por. New Perfs (Assert Confirming Uni					
Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) Planned or Existing Surface Planned or Existing Intermeted or Existing Productor Planned or Existing Intermeted or Existing Intermeted or Existing OH PERF Planned or Existing OH PERF Depths (ft) No Tool Ison Surface Planned or Existing Intermeted or Existing OH PERF Depths (ft) No Tool Ison Surface Planned or Existing Intermeted of Existing OH PERF Depths (ft) No Tool Ison Surface Planned or Existing OH PERF Depths (ft) Injection Stratigraphic Units: Depths (ft) Injection or Confining Unit: Litho. Struc. Por. Depths (ft) No Tool Ison Surface Planned or Existing OH PERF Depths (ft) Injection or Confining Units: Litho. Struc. Por. New To Sac New Perfs New Open Hole O or New Perfs New Open Hole O or New Perfs					
Well Construction Details: Sizes (in) Borehole / Pipe Depths (ft) Stage Depths (ft) Stage Depths (ft) Determination Method					
Sizes (in) Borehole / Pipe Depths (ft) Setting Cement Cement Top and Determination Method					
Planned or Existing Surface Planned or Existing Infermed Planned or Existing Provinterm Planned or Existing Liner/Prod Planned or Existing Liner/Prod Planned or Existing Depths (ft) Depths					
Planned or Existing Surface Planned or Existing Interms Prod Planned or Existing Interms Prod Planned or Existing Interms Prod Planned or Existing Interms Int					
Planned or ExistingntermProd 1 34 11 34 0 to 500 1300 Surface 14 34 11 34 0 to 500 No 750 Surface 17 8 5 2 0 to 5300 No 11 50 Surface 17 8 5 2 1000 No 11 50 Surface 1000					
Planned or Existing					
Planned_or Existing_ Liner/Prod Planned_or Existing_ Liner/Prod Planned_or Existing_ OH PERF 5/2 4100-5100					
Planned_or Existing _ Liner/Prod					
Planned or Existing OH PERF 5/2 4100-5100 Inj Length 1000 Completion/Operation Details: Injection Stratigraphic Units: Depths (ft) Units Tops? Adjacent Unit: Litho. Struc. Por. 7-Rivers — NEW TD 5300 NEW PBTD — NEW Open Hole O or NEW Perfs Operation Details:					
Planned or Existing OH (PERF) 5/2 4100-5100					
Injection Stratigraphic Units: Depths (ft) Units Tops? Drilled TD PBTD PBTD NEW TD 5300 NEW PBTD NEW TD 5300 N					
Adjacent Unit: Litho. Struc. Por. Confining Unit: Litho. Struc. Por. Ducen NEW TD 5300 NEW PBTD NEW Open Hole Or NEW Perfs Of New					
Confining Unit: Litho. Struc. Por. — Queen — NEW Open Hole O or NEW Perfs O					
73/2					
Troposed in interval for 1000 13711 1400 1400 1 Tubing Size 270 in. inter-coated: 100					
Proposed Inj Interval BOTTOM: 5100 Son Andres Eun Proposed Packer Depth 4090 ft					
Confining Unit: Litho. Struc. Por. — Glorieta 5100 Min. Packer Depth 4000 (100-ft limit)					
Adjacent Unit: Litho. Struc. Por. Proposed Max, Surface Press. psi					
AOR: Hydrologic and Geologic Information Admin. Inj. Press. R - 5530 - F(0.2 psi per ft)					
POTASH: R-111-PM Noticed? NA BLM Sec Ord NA WIPP WANOticed? NA SALADO: T: B: CLIFF HOUSE NA					
FRESH WATER: Formation Oxallato Max Depth + 300 Wells? 2 FW Analysis HYDROLOGIC AFFIRM By Qualified Person ()					
Disposal Fluid: Formation Source(s) EOR project produced wateringlysis? NA On Lease Operator Only or Commercial					
Disposal Fluid: Formation Source(s) EOR project produced Waterhaulysis? Not On Lease Operator Only or Commercial Opisposal Interval: Injection Rate (Avg/Max BWPD): Protectable Waters: No CAPITAN REEF: thru adj NAO Secondary Recovery Tertains					
H/C Potential: Producing Interval? 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: Horizontals?					
Penetrating Wells: No. Active Wells 4 Num Repairs? on which well(s)?					
Penetrating Wells: No. P&A Wells Diagrams? on which well(s)?					
NOTICE: Newspaper Dat 3 29 13 Mineral Owner SLO Surface Owner SLO Shingtons / N. Date 9 24 13					
RULE 26.7(A): Identified Tracts? 185_ Affected Persons: Coraco Phillips/ McGowan Working XTO N. Date 9/24/13					
Permit Conditions: Issues: - Nove					

7,1961328033238

ABOVE THIS LINE FOR DIVISION USE ONLY

NEW MEXICO OIL CONSERVATION DIVISION

- Engineering Bureau -

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



chay@chevron.com

e-mail Address

		ADMINISTRATIVE	E APPLICATION	CHECKLIST	
ТН	IS CHECKLIST IS MA	NDATORY FOR ALL ADMINISTRAT	IVE APPLICATIONS FOR EXCEPT ESSING AT THE DIVISION LEVEL	TIONS TO DIVISION RULES AND I	REGULATIONS
Applica	ation Acronyms		ESSING AT THE DIVISION LEVEL	THE CARTA I E	
	[DHC-Down [PC-Pool	ol Commingling] [OLS - 0 [WFX-Waterflood Expansion	-Lease Commingling] [lff-Lease Storage] [OLM n] [PMX-Pressure Maint psal] [IPI-Injection Press	PLC-Pool/Lease Comming M-Off-Lease Measurement tenance Expansion]	ling]]
[1]	TYPE OF AP	PLICATION - Check Thos Location - Spacing Unit - S NSL NSP	110	Conversion	author.2
	Check [B]	One Only for [B] or [C] Commingling - Storage - M DHC CTB		Onversion Injection Injection Oil Recovery EOR PPR	530 only
	[C]	Injection - Disposal - Press WFX PMX		oil Recovery EOR PPR	
	[D]	Other: Specify	(K-353	∞ - E — Cheel	k well
[2]	NOTIFICATI [A]	ON REQUIRED TO: - Ch Working, Royalty or C	eck Those Which Apply, of Overriding Royalty Interest		Satus/
	[B]	Offset Operators, Lea	seholders or Surface Owne	er	
	[C]	Application is One W	hich Requires Published L	egal Notice Only	J. S. P.
	[D]	Notification and/or Co	oncurrent Approval by BLI t- Commissioner of Public Lands, State	MorsLO notice Landoffice to dist	nit 3)
	[E]	For all of the above, P	roof of Notification or Pub	lication is Attached, and/o	13
	[F]	☐ Waivers are Attached			8 57
[3]		CURATE AND COMPLETION INDICATED ABO		QUIRED TO PROCESS	
	al is accurate ar	FION: I hereby certify that the complete to the best of multiple information and notification.	y knowledge. I also under	stand that no action will b	
	Note:	Statement must be completed to	y an individual with managerial	I and/or supervisory capacity.	
Carolyn Print or	Havnie Type Name	arolyn any	NM Petro Engineering Techn Title		- <u>23 -1 3</u> Date



September 23, 2013

New Mexico Oil Conservations Division 1220 South St. Francis Drive Santa Fe. New Mexico 87505

RE: Application for Authorization to Inject OCD Form C-108for WAG Order R-4442-G Central Vacuum Unit Lea, County, New Mexico **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

Engineering Department:

Chevron U.S.A. Inc., respectfully requests administrative approval to place the CVU # 25, API # 30-025-25813, CVUI # 26, API # 30-025-25814, CVU # 27, API # 30-025-25815, CVU # 28, API # 30-025-25816, from Water Injection to Water Alternating Gas Injection wells. Injection into these wells is designed to enhance the production from the Central Vacuum Units.

The injection interval in the Grayburg San Andres will be through perforations within the "Unitized Formation" for the CVU which includes the correlative stratigraphic interval underlying the Unit Area in the Vacuum-Grayburg San Andres pool between the depths of 3,858' (+ 144' sub-sea) and 4858' (-856' sub-sea) on the Welex Acoustic Velocity Log, run on 11-13-63, in the Texaco Inc, State of NM "O" (NCT-1) well # 23, located: O-36-T17S-R34E, NMPM, Lea CO, NM. (now Vacuum Glorieta West Unit Well # 101).

The maximum injection rate will be 2,000 BWPD/well, with a maximum allowable surface pressure of 1,500 psi. CO₂ and produced gas injection will be at a maximum rate of 4,000 MCF per day/well, with a maximum surface pressure of 2,200 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.

If additional information is required, please contact me at (432-687-7261), or the project engineer, Paul Brown, at (432-687-7351).

Sincerely,

Carolyn Haynie

NM PE Technical Assistant

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: CHEVRON U.S.A. INC. (OGRID – 4323)
	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? X Yes No If yes, give the Division order number authorizing the project: Order # R-5530-E
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. <u>ATTACHED</u>
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. <u>ATTACHED</u>
VII.	Attach data on the proposed operation, including:
	 Proposed average and maximum daily rate and volume of fluids to be injected; Whether the system is open or closed; Proposed average and maximum injection pressure; Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and, 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.). <a 10.2016="" 478-00.2016="" doi.org="" href="https://dx.doi.org/nc.nearby-nc.nearby</td></tr><tr><td>*VIII.</td><td>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 wit 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. ATTACHED</td></tr><tr><td>IX.</td><td>Describe the proposed stimulation program, if any. <u>ATTACHED</u></td></tr><tr><td>*X.</td><td>Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted</td></tr><tr><td>XI.</td><td><u>PREVIOUSLY SUMITTED</u> 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. <u>PREVIOUSLY SUMITTED</u></td></tr><tr><td>XII.</td><td>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. <a href=" https:="" j.<="" j.com="" nct="" td="">
XIII.	Applicants must complete the "Proof of Notice" section on the reverse side of this form. ATTACHED
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: NM PETRO ENGINEERING TECH ASSISTANT
	NAME: Carolyn Haynie TITLE: NM PETRO ENGINEERING TECH ASSISTANT SIGNATURE: DATE: 9-23-/3
*	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: chay@chevron.com

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. ATTACHED

- 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. ATTACHED

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. <u>ATTACHED</u>

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.

PBTD 4760

INJECTION WELL DATA SHEET

OPERATOR:CI	HEVRON U.S.	A. INC.				
WELL NAME & NU	MBER:	CENTRAL VACUUM UN	NIT # 25			The state of the s
WELL LOCATION:		SL & 1504` FWL E LOCATION	UNIT K; UNIT LETTER	SEC. 25. SECTION	T17S, TOWNSHIP	R34E RANGE
		2 BOCHHOIN				
Creates ####################################	CVU 25	25 St kne E-2706 30-025-25813		<u>WELL CO</u> <u>Surface O</u>	ONSTRUCTION DA Casing	<u>TA</u>
15dated 07/08/13 By Chay	Unit Ur TSHP/Kng	k Section 45 S-17 E-44 Section E00046	Hole Size: 1	2-1/4**	Casing Size:	8-5/8"
County Lea St. NM chates Active Water Injector	D. realization	Buckeye, NM	Cemented with:	425 sx.	or	ft
Curi	rent Wellbore Diagram	KB 4914' DF NA	Top of Cement:	Surface	Method Determine	d: <u>Circulation</u>
Wt , Grd . 24# K-55 Depth 400 Sxs Cmt 425 sxs Circulate Yes		Gt. 4004' Int. Spud 3/24/1978 Int. Contp 4/25/1978 Perf. and Stimulation History:		Intermediat	e Casing	
TOC Surface Hole Size 12 1/4*		CYU 825 3/17/78 Perf 4 1/2" csg w/2 JSPP (d) 43/24, 83, 4407 18, 23, 28, 60, 89, 45/55, 59, 70 45/32, 40, 49, 50, 62, 72, 86, 91, 47(0), 69, 669	Hole Size:		Casing Size:	
Csq Lk Sqz 476-50#	* *	shots 5/25/75 Run 2 3.8° RBP & Par (gl 47/2 & 4002° Act as puris 4379-4709 w.7309 raths 15% NFA More debris History Lab. 4/20/76 Ran 141 js. (4331) 2 3.6° dushin the shoter & 1/2° for set the 4/37° 5 1 WW	Cemented with:	SX.	or	ft
		wibaker 4 1/2" pkr. set (2 4337; S.1. WIW affective 4/24/78 VSA perfa 4379-47.09 waiting on matallation of injection system 12(11/76; Wilbegan 5/27/20 Cultailab injection pressure to 900 pkg pressure timit was 907 psi.	Top of Cement:		Method Determine	d:
Production Liner 3-1/2" Ultra		8/2/205 Permit to meneave preusure to 24/00 paid 77/3/24/8/11/04 MIT First broken par included 77/3/24/8/11/04 MIT First broken par included ludw 6/47/5/20 MIT First broken 2 20/7 dud ne ibig. and 4 1/27 in well printed proken 3/or dud ne ibig. and 4 1/27 in well printed 3/or dud ne ibig. and 4 1/27 in well printed 3/or dud ne ibig. and 4 1/27 in well printed 3/or dud ne ibig. and 4 1/27 in well printed 3/or dud ne ibig. and 4/or dud ne ibig. dud		Production	Casing	
FJ Cep 92m, LPC 92m, LPC		phr at 4527 (44344 This press 1575 11-17-11 Failed MiT 17-17-11 Failed MiT 17-10-13 Rith wi3-105 Ultar FJ Deg Liner Rottem of Liner (4 4114" Andz perfix windth date of 1550 NE	Hole Size:	7-7/8 <u>``</u>	Casing Size:	
Circulate Yes, 12 bb/s TOC Surface			Cemented with:	<u>2100</u> sx.	or	ft
Hore Size 4-1/2" Production Casing			Top of Cement:S	Surface	Method Determine	d: <u>Circulation</u>
Size 4.1/5" Wt , Gra 10.5#, K-55 Decth 4800	X X	putation IPG hear, EGY on 4277	Total Depth:	4800		
Depth 4600° Sas Cmt 2100 sxs Croulate Yes TOC Surface		Packery, 000 Tool (148101 N) (1400) 3472* Liner, EQL (14814*		Injection I	nterval	
Hote Size 7 7/8"		Charleson Kom Anthon Darfe	-	4379` feet	to <u>4709</u>	
		Grove your Andres Peris 4379*-4709* w/2 JSPF.		(Perfs	s)	

T	ubing Size: _	2-1/16"	Lining Material: _	Plastic		
Type of Packer: 3-1/2" Nickel plated Interna		mally plastic coated Inj pk	r			
Pac	ker Setting D	Depth: <u>@ +/- 4300`</u>	-			
Otl	ner Type of T	ubing/Casing Seal (if ap	pplicable):			
			Additional Data			
1.	Is this a nev	well drilled for injecti	on?	Yes X No		
	If no, for wl	If no, for what purpose was the well originally drilled?				
2.	Name of the	Injection Formation:	Grayburg - San	Andres		
3.	Name of Fig	eld or Pool (if applicabl	e): <u>Central Vacuu</u>	ım Unit		
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:				ing or overlying the proposed		
	Glorieta (5850-6200`)				

Created:	<i>########</i>	Ву:	NC
Updated:	05/05/08	Ву:	JSS
Updated:	05/03/09	By: Ca	аусе
Updated:	07/08/13	By: Ch	nay
Lease:	Centra	al Vacuum L	Jnit
Field:	Vacuum (G	rayburg-San	Andres)
Surf. Loc.:	1330' F	SL & 1504'	FWL
Bot. Loc.:			
County:	Lea	St.:	NM
Status:	Active	Water Inject	ctor

Well #:	25 St. Lse: E-2706 30-025-25813		
API			
Unit Ltr.:	K	Section:	25
TSHP/Rng:		S-17 E-34	
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:		EQ0046	
Directions:	Buckeye, NM		

Surface Casing			
Size:	8 5/8"		
Wt., Grd.:	24#, K-55		
Depth:	400'		
Sxs Cmt:	425 sxs		
Circulate:	Yes		
TOC:	Surface		
Hole Size:	12 1/4"		

Csg Lk Sqz: 476-508'

Production Liner			
	3-1/2" Ultra		
Size:	F J Csg		
	9.2#, L-80		
MA Cod .	ei c		

 Wt., Grd.:
 SLF

 Depth:
 4313'

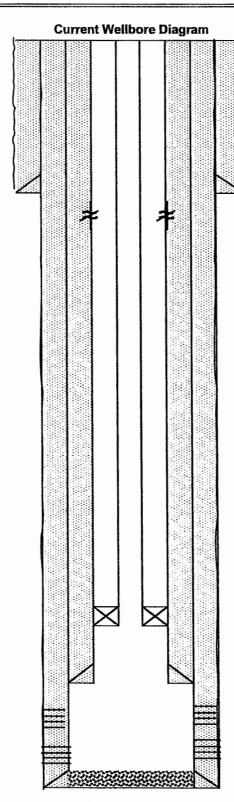
 Sxs Cmt:
 135 sxs

 Circulate:
 Yes, 12 bbls

TOC: Surface
Hole Size: 4-1/2"

Production Casing

Size:	4 1/2"
Wt., Grd.:	10.5#, K-55
Depth:	4800'
Sxs Cmt:	2100 sxs
Circulate:	Yes
TOC:	Surface
Hole Size:	7 7/8"



KB:	4014'
DF:	NA
GL:	4004'
Ini. Spud:	3/24/1978
Ini. Comp.:	4/25/1978

Perf. and Stimulation History: CVU #25

4/17/78 Perf. 4 1/2" csg. w/2 JSPF @ 4379, 83, 4407, 18, 23, 28, 60, 69, 4555, 59, 70, 4632, 40, 49, 56, 62, 72, 86, 91, 4700, 09'. 660 shots

4/25/78 Ran 2 3/8" RBP & Pkr. @ 4722 & 4602'. Acidize perfs: 4379-4709' w/7300 gals 15% NEA. More detail in History tab. 4/26/78 Ran 141 jts. (4331') 2 3/8" duoline tbg w/baker 4 1/2" pkr. set @ 4337'. S.I. WIW effective 4/25/78. VSA perfs: 4379-4709' waiting on installation of injection system. 12/11/78 WI began.

5/27/93 Curtailed injection pressure to 900 psi pressure limit was 907 psi.

5/22/95 Permit to increase pressure to 2500

7/13/04-8/11/04 MIT. Fish broken pkr. isolated leaks f/476'-508'. Sqz 5 times. Run new 2 3/8" duoline tbg. and 4 1/2" nickel plated packer. Set pkr. at 4321'.

4/09 Tagged @4344. Tbg. press 1575. 11-17-11: Failed MIT.

1/10/13: RIH w/3-1/2" Ultar FJ Csg Liner. Bottom of Liner @ 4314'. Acdz perfs, w/6000 gals of 15% NE.

2-1/16" IPC Tbg, EOT @ 4277'
Packer w/ O/O Tool (1.43" 'F" N) @ 4290'

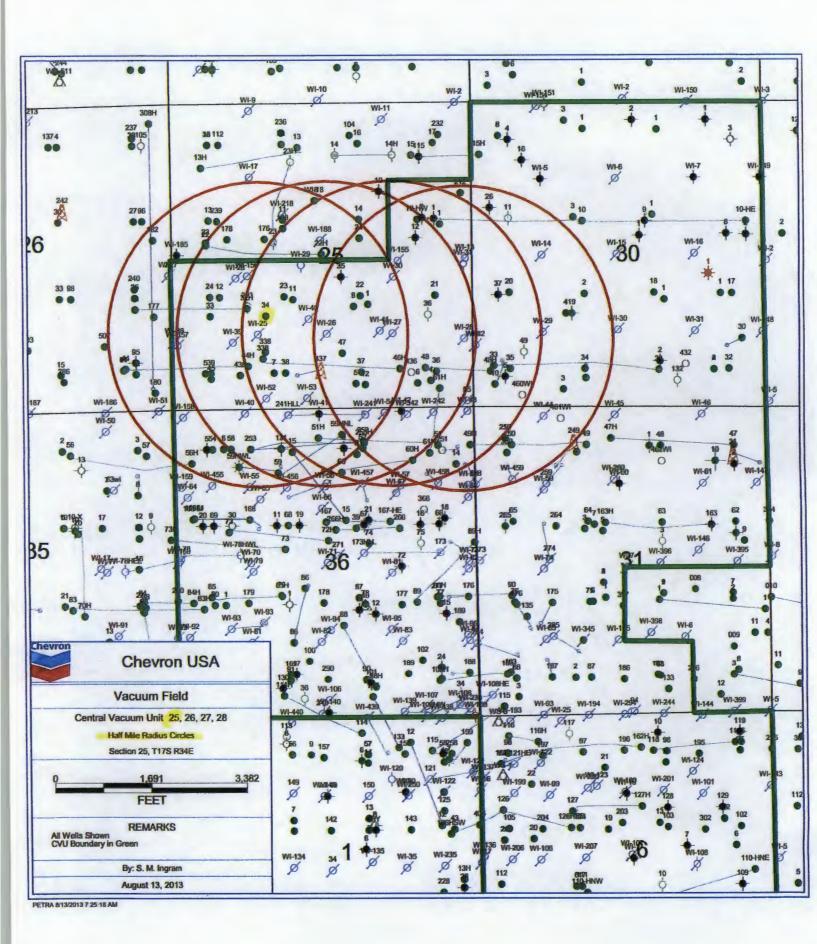
3-1/2" Liner, EOL @ 4314'

Grayburg San Andres Perfs: 4379'-4709' w/2 JSPF.

PBTD: 4760' TD: 4800'

Workover Procedure

- 1. Rig up pulling unit. TOH w/ packer and injection tubing.
- 2. TIH w/ treating packer on 2-3/8" workstring and set at 4300'
- 3. Acidize perfs 4379'-4709' w/ 6,000 gallons 15% NEFE HCl.
- 4. TOH w/ workstring and packer.
- 5. Set 4-1/2" composite bridge plug at 4315' on wireline.
- 6. TIH w/ 3-1/2" flush joint liner and set at 4314'.
- 7. Cement liner with 135 sx Class "C" cement.
- 8. TIH w/ 2-3/4" bit and drill collars on 2-1/16" workstring.
- 9. Drill out cement, float equipment and composite bridge plug. Clean out to 4739'. TOH.
- 10. TIH w/ 3-1/2" injection packer and on-off tool on 2-1/16" L-80 IJ IPC tubing. Set packer at 4294'.
- 11. Load annulus with packer fluid.
- 12. Perform MIT.
- 13. Rig down pulling unit.
- 14. Return well to injection.



OPERATOR: CHI						
WELL NAME & NUM	IBER: CE	NTRAL VACUUM UN	IT # 26			
WELL LOCATION: _	1330'FSL &	2577' FEL	J	25.		34E
	FOOTAGE LO	CATION	UNIT LETTER	SECTION	TOWNSHIP F	RANGE
	Welthore Diagram CVU 28			WELL	CONSTRUCTION L	DATA
Created: 7/3/2008		26 St. Lase: B-1056		Surfa	ce Casing	
Updated. 5/4/2009 Updated: 7/8/2013 Lease: Central Vacur Field: Vacuum (Grayburg- Surf. Loc. 1330' FSL, 25 Bot. Loc.:	By Chay um Unit Unit L -San Andrea) TSHP	tr. J Section: 25 /Rng: S-17 E-34 tr: Section	Hole Size:	12-1/4"	Casing Size:	8-5/8"
County Les Injecto	SL: NM CHEV	NO EQ0047	Cemented with:	425 sx.	or	ft3
Burisca Casing		KB: 4009'	Ton of Cement	Surface	Method Determ	ined: Circulation
Size: 8 8/6" WL, Grd.: 24#, K-55		DF: NA GL. 3697	Top of Coment.		diate Casing	incu. <u>Circulation</u>
Depth: 402° Sxs Cmt 425 sxs Circulate: Yes; 45 sx		Ini. Spud: 3/3/1978 Ini. Comp.: 3/17/1978		Interme	diate Casing	
TOC: Surface Hole Size: 12-1/4"			Hole Size		Casing Size	
	* *	RSP @ 400*				
		w/78 px. Cimt.	Cemented with: _	sx.	or	ft ³
			Top of Cement:	,	Method Determi	ined: _
		Well History on biology tab		Produc	tion Casing	
Production Liner Size: 3-1/2" Liner Wt., Grd.: 8.2#, L-80			Hole Size:	7-7/8"	Casing Size:	4-1/2"
Depth: 4302' Sxs Cmt: 135 sxs			Cemented with:	2100 sx.	or	ft³
Circulate Yes TOC: Surface Hole Size: 4-1/2"						
7116		I had a second	Top of Cement: _	Surface	Method Determi	ned: <u>Circulation</u>
	XX	2-1/16* L-00 IPC Tbg. EOT @ 4254* Packer w/ O/O Tool (1.43* F* N) @ 4290* 3-1/2* Liner, EOL @ 4302*	Total Depth:	4800'		
Production Casing Size: 4 1/2"		Site Line, not grown		Injection	on Interval	
Wt., Grd.: 10.5#, K-65 Depth: 4800		San Andrea Perfa: 4384-4718		4384° f	eet to 4718'	
Sxs Crnt: 2100 sxs Circulate: Yes; 250 sx TOC: Surface Hole Size: 7-7/8*					erfs)	
1-16	The same of the sa			(-		

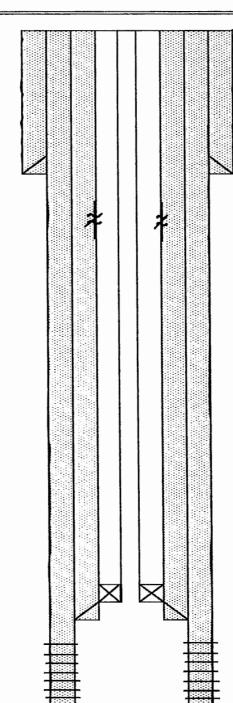
ר	Γubing Size: <u>2-1/16</u>	Lining Material: Plastic	
Ту	pe of Packer: 3-1/2" Nickel plated Interna	lly plastic coated Inj pkr	
Pa	acker Setting Depth:@ +/- 4300		
Ot	Other Type of Tubing/Casing Seal (if applicable):		
	Additional Data		
1.	Is this a new well drilled for injection	?Yes _XNo	
	If no, for what purpose was the well of	originally drilled?	
2.	Name of the Injection Formation:	Grayburg - San Andres	
3.	Name of Field or Pool (if applicable):	Central Vacuum Unit	
4.	Has the well ever been perforated in a intervals and give plugging detail, i.e.	ny other zone(s)? List all such perforated sacks of cement or plug(s) used. No	
5.	_ -	r gas zones underlying or overlying the proposed	
es a ma as as esse	Glorieta (5850-6200')		
2.00			

CVU 26

Created:	7/3/2008	Ву:	JSS
Updated:	5/4/2009	By:	Cayce
Updated:	7/9/2013	Ву:	Chay
Lease:	Centr	ral Vacuum Ur	nit
Field:	Vacuum (Grayburg-San Andres)		
Surf. Loc.:	1330'	FSL, 2577' FE	EL
Bot. Loc.:			
County:	Lea	St.:	NM
Status:		Injector	

Well #:	26	St. Lse: B-	1056
API	30-025-25814		
Unit Ltr.:	J	Section:	25
TSHP/Rng:		S-17 E-34	
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:	EQ0047		
Directions:		Buckeye, NM	

Surface Casing			
Size:	8 5/8"		
Wt., Grd.:	24#, K-55		
Depth:	402'		
Sxs Cmt:	425 sxs		
Circulate:	Yes; 45 sx		
TOC:	Surface		
Hole Size:	12-1/4"		



KB: 4009'

DF: NA

GL: 3997'

Ini. Spud: 3/3/1978

Ini. Comp.: 3/17/1978

RBP @ 400'

Sqz'd 1053-1242' w/75 sx. Cmt

Well History on history tab

Size: 3-1/2" Liner Wt., Grd.: 9.2#, L-80 Depth: 4302' Syc Cont. 125 ava.

Production Liner

Sxs Cmt: 135 sxs
Circulate: Yes
TOC: Surface
Hole Size: 4-1/2"

2-1/16" L-80 IPC Tbg. EOT @ 4284'
Packer w/ O/O Tool (1.43" 'F" N) @ 4290'
3-1/2" Liner, EOL @ 4302'

Production Casing

 Size:
 4 1/2"

 Wt., Grd.:
 10.5#, K-55

 Depth:
 4800'

 Sxs Cmt:
 2100 sxs

 Circulate:
 Yes; 250 sx

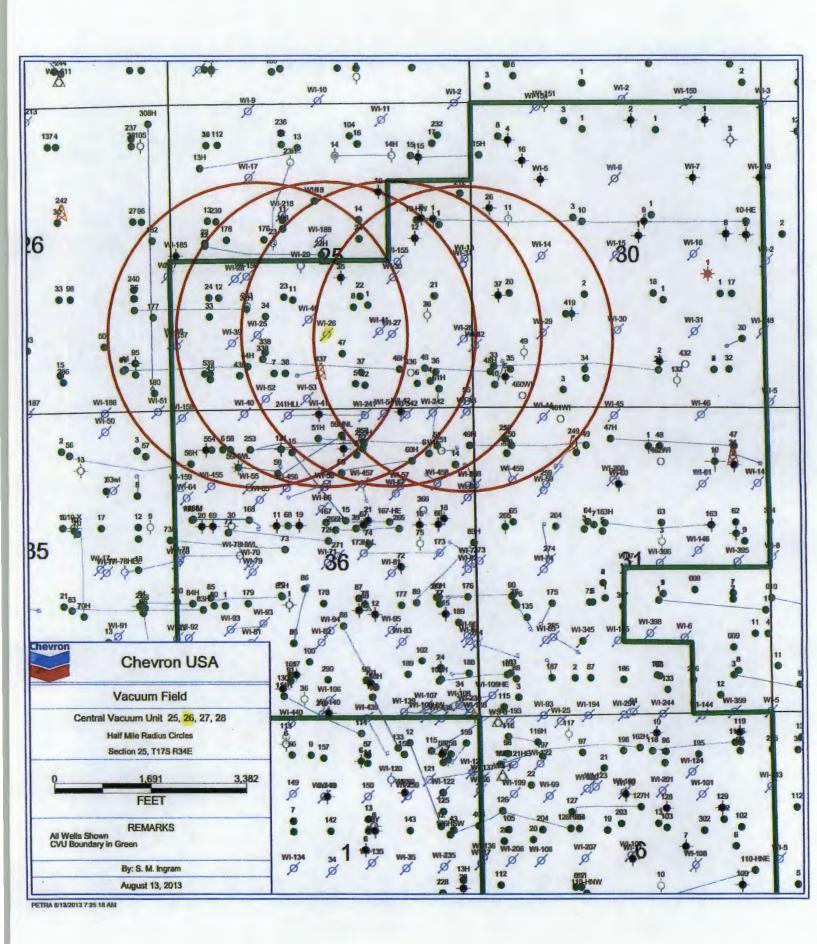
 TOC:
 Surface

 Hole Size:
 7-7/8"

San Andres Perfs: 4384-4718

Workover Procedure

- 1. Rig up pulling unit. TOH w/ packer and injection tubing.
- 2. TIH w/ treating packer on 2-3/8" workstring and set at 4300'
- 3. Acidize perfs 4384'-4718' w/ 6,000 gallons 15% NEFE HCl.
- 4. TOH w/ workstring and packer.
- 5. Set 4-1/2" composite bridge plug at 4305' on wireline.
- 6. TIH w/ 3-1/2" flush joint liner and set at 4304'.
- 7. Cement liner with 135 sx Class "C" cement.
- 8. TIH w/ 2-3/4" bit and drill collars on 2-1/16" workstring.
- 9. Drill out cement, float equipment and composite bridge plug. Clean out to 4770'. TOH.
- 10. TIH w/ 3-1/2" injection packer and on-off tool on 2-1/16" L-80 IJ IPC tubing. Set packer at 4291'.
- 11. Load annulus with packer fluid.
- 12. Perform MIT.
- 13. Rig down pulling unit.
- 14. Return well to injection.



PBTD: 4780*

	ER: CENTRAL VACUUM U				
	1330' FSL & 1425' FEL	UNIT LETTER	25,		R34E RANGE
	FOOTAGE LOCATION	UNII LEITEK	SECTION	TOWNSHIP	RANGE
CVU 27	Well 8: 27 St. Lse: B-1056		WELL C Surface	ONSTRUCTION DA	<u>ITA</u>
ed 8/19/2009 By: N Caycos ad. 7/9/2013 By: CHAY Central Vacuum Unit Vacuum (Grayburg San Andres) 1330' F8L & 1426' FEL	API 30-025-25815 Unit Ltr. J Section: 25 T8HP/Rng S-17 E-34 Unit Ltr. Section: T8HP/Rng: CHEVNO: EQ0048	Hole Size:	12-1/4"	Casing Size:	8-5/8"
y. Lea St. NM Injector	Directions Bucksye, NM	Cemented with: _	425 sx.	or	
8-5/6"; K-55	KS 4002*	Top of Cement: _	Surface	Method Determin	ed:Circulation
ird.: 248 : 420' mt: 426	GI: 3990' Ini. Squd: 2/12/1978 Ini. Comp.: 3/17/1978		Intermedia	te Casing	
Surface Surface Size 12 1/4 Size 425-486	History: 3/17/78: Initial comp paris: 4585-4719: Acdz w/3900 gale 16% NEA & paris: 4365-4447: Acdz w/3900 gale 15% NEA & paris: 4365-4447: Acdz w/3900 gale 15% NEA & paris: 4365-4447: Acdz w/3900 gale 26% NEA & paris: 4365-4447: W/390000 gale 26% NEA & paris: 4365-4447: W/3900000 gale 26% NEA & paris: 4365-4447: W/3900000 gale 26% NEA & paris: 4365-4447: W/3900000 gale 26% NEA & paris: 4365-4447: W/39000000 gale 26% NEA & paris: 4365-4447: W/390000000 gale 26% NEA & paris: 4365-4447: W/3900000000 gale 26% NEA & paris: 4365-4447: W/3900000000 gale 26% NEA & paris: 4365-4447: W/39000000000 gale 26% NEA & paris: 4365-4447: W/39000000000000000000000000000000000000	Hole Size:	-	Casing Size:	
428-486	to Land Acceptance in Association for which the description of both to the first 1058 BWHPD 0 8300; test sheer 1427 BWHPD 0 8709 24 hr. rejection. 3/86 Pinh out my phr. C/O to 4750* Acds perfs-4386-4710* w/3000 gets 20% NEFE. Title winses AD-1 mp jut on 2-3/8* Dubling in jut 0 8 ent pir of 4365* Max press <2250%, Arrel 5	Cemented with: _	SX.	or	ft ³
	Test before: 778 BWIPD @ 1270# 24 hr inj. test efter: 1479 BWIPD @ 10928 24 hr inj.	Top of Cement: _		Method Determin	ed: _
	187 Instruction surf. Im, pressure to 1800 paig. 401 Claien out. Tag lish & 4340: Tag list & 4370: C/O ocate 4370-4580°, Sagat cag, lash 424-466° (w400 sr. Cl. C w/2%; CACL.cm. Acad: 4 1/2° cag, perfs. GBSA 4386-4719' w10000 gals 15%; MCL NEFE & 4000t RB. Max =21708; Min =8658; Avg=12508; Arrel bjam, 1889-12400; Total load 332 bibs. Till w2 305' 140 sr. dus-hind rijection tig. @ 4308' Set pkr		Productio	n Casing	
	w/on-off box @ 4324* 501 Test @ comp: status WRV 1384 BWIPD @ 14478. Test prior 1185 BWIPD @ 14468:	Hole Size:	7-7/8"	Casing Size:	4-1/2"
	All of the second of the secon	Cemented with: _	2200 sx.	or	1
4-1/2", K65 rd.: 10.5#	RSP 10/06 GiH w/5 1/2" errowest nickel plated plut wipmp out plug w/1.60 "P" rapple & on-off tool on 139 (s. Remove RSP 2 3/8" 12be-Imed tog, set at 4341". The comented in olsoo, Land @4341". Crit. In 4-1/2" asg.	Top of Cement: _	Surface	Method Determine	ed: <u>Circulation</u>
4800' nt: 2200 tle: Yes Surface	11/06: Acts perfa: 4386-4719' w/2000 gale acid, Flush w/16 bble fresh w/r. well on vac. Test 2:3/6" (Base-limed tbg in 4 1/2" cag @ 2500# for 36 minutes oil, RT1 4/07 The do tag. Bad lbg. valve	Total Depth:	4800'		
(26): 7 7/8	500 - replace tog valve Tag @ 4721'		Injection	Interval	

Τι	ibing Size:	2-3/8"	Lining Material: _	Fiberglass
Ty	pe of Packer:	4-1/2" Nickel plated In	ternally plastic coated Inj 1	pkr
Pac	cker Setting De	epth: <u>@ +/- 4300`</u>		
Otl	ner Type of Tu	bing/Casing Seal (if	applicable): <u>4-1/2" x 2</u>	2-3/8" Annulus is Filled w/cement
			Additional Data	
1.	Is this a new	well drilled for injec	tion? X	Yes No
	If no, for wha	at purpose was the w	ell originally drilled?	
2.	Name of the	Injection Formation:	Grayburg - S	an Andres
3.	Name of Fiel	d or Pool (if applicat	ole): <u>Central Vac</u>	uum Unit
4.	Has the well intervals and	ever been perforated give plugging detail.	in any other zone(s)? i.e. sacks of cement of	List all such perforated or plug(s) used.
			No	
5.		4	oil or gas zones under	lying or overlying the proposed
	Glorieta (5	850-6200')		

Workover Procedure

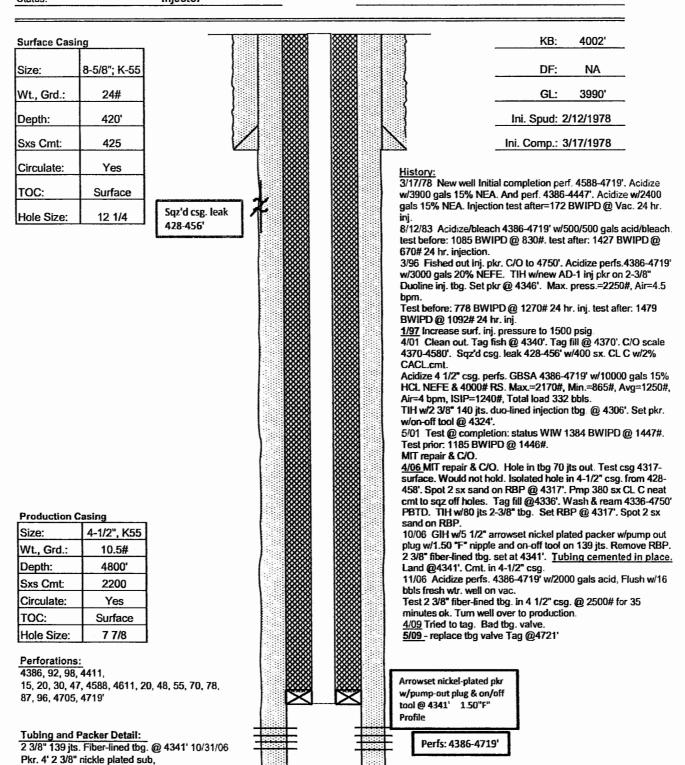
- 1. Rig up slickline truck. TIH w/ 1.50" blanking plug and set in profile nipple at 4341'.
- 2. Pressure test tubing to 2,500 psi for 30 minutes. Record test on chart recorder.
- 3. Bleed off pressure and retrieve blanking plug. Rig down slickline truck.
- 4. Inspect wellhead to insure that flow wetted components are CO2 compatible. Replace components as necessary.
- 5. Return well to injection.

CVU 27

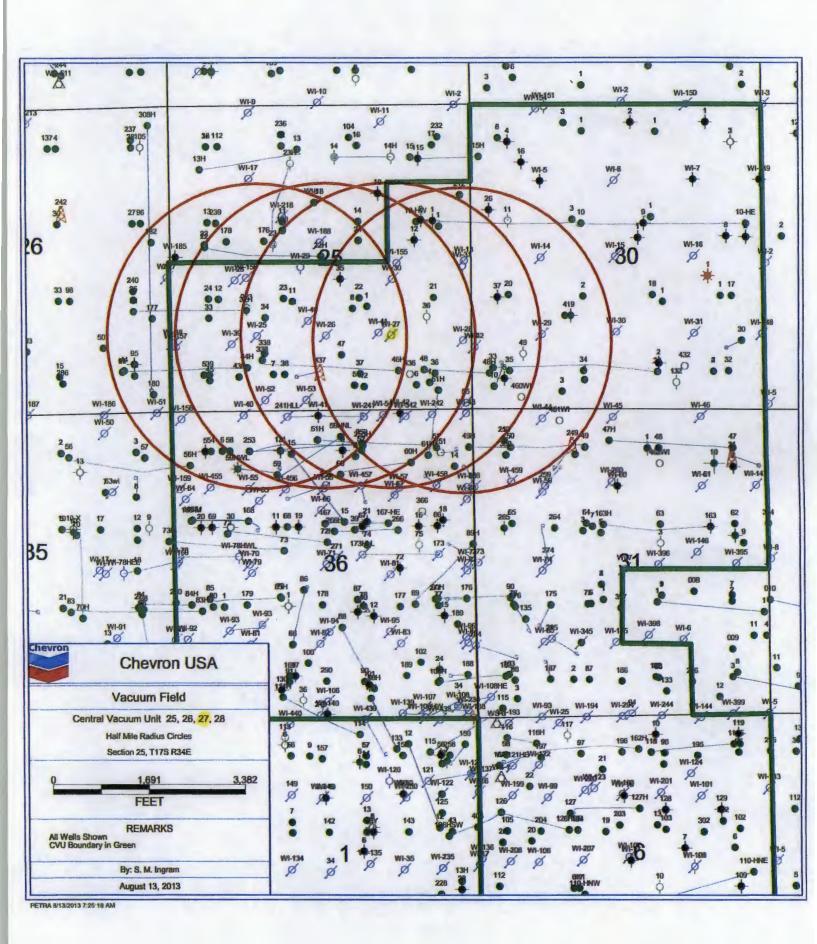
Created:	7/3/2008	By:	JSS
Updated:	8/19/2009	By:	N Cayce
Updated:	7/9/2013	By:	CHAY
Lease:	Central Vacuum Unit		
Field:	Vacuum (Grayburg San Andres)		
Surf. Loc.:	1330' FSL & 1425' FEL		
Bot. Loc.:			
County:	Lea	St.:	NM
Status:		Injector	

land @ 4341' cmt. In 4 1/2" csg. 10/31/06

Well#:	27 St. Lse: B-1056		1056
API	30-025-25815		
Unit Ltr.:	J	Section:	25
TSHP/Rng:		S-17 E-34	
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:	EQ0048		
Directions:		Buckeye, NM	



PBTD: 4750' TD: 4800'



WELL LUCATION:		L & 159' FEL			T17S.	
	FOOTAGE	LOCATION	UNIT LETTER	SECTION	TOWNSHIP	RANGE
_	Wellbore Diagram				VELL CONSTRUCTI Surface Casing	ON DATA
repled: 7/3/2006 By: J8S pdeted: 5/4/2009 By: Cays pdeted: 7/9/2013 By: CH/ sess: Central Vacuum Unit	Y API Unit	Ltr.: P Section: 25	Hole Size:	12-1/4"	Casing Siz	se: 8-5/8"
eid. Vacuum (Grayburg San Andrei urf. Loc.: 1230' FSL, 159' FEL ol. Loc.:	Unit TSH	P/Rng: Section:	Cemented with:	425	sx. or	
ounty: Les Bt.; NN tetus: Injector	THE REAL PROPERTY AND ADDRESS OF THE PERTY	rvno: EQ0049 stions: Buckeys, NM	Top of Cement:	Surface	Method D	etermined: <u>Circulati</u>
lize: 8 5/8" VL, Grd.: 24#, K-55		KB: 3985' DF: NA GL: 3985' ini. Spud: 3/5/1978		Inte	ermediate Casing	
pepth: 408' Exe Cmt: 425 Circulate: Yes CCC: Surface		Ini, Comp.: 4/14/1978	Hole Size:		Casing Siz	:e:
lole Size: 12 1/4		250x'd csg. Lenk 487-820' w/200 sx.	Cemented with:	SX.	or	
		Omt. 87298. Perf. and Stimulation Historic CYU 028 4/14/78 New well initial completion part.	Top of Cement:		Method De	etermined: _
Perforations: 9.1/2" csg. w/2 JSPF from 4407, 13, 21, 38, 90, 98, 4657, 68, 73, 84, 98, 4705, 11, 17,		w/2 JBPF from 4407, 13, 21, 38, 90, 98, 4657, 68, 73, 84, 96, 4706, 11, 17, 4724', Ackitze 4407-4724', w4400 gais 18% acid. Test: 1200 BWPD @ wac. 24 hr. injection: 8/25/86 Acidize 4407-4724' w45500 gais acid. before: 880 BWPD @ 8808. after: 800 BWPD @ 8068 24 hr. inj. 8/2/86 Saydo saylos lesk 48-5-80' w/200 sx		Pro	oduction Casing	
4724'		8/15/96 TIH wi4 1/2" injection pkr. on 137	Hole Size:	7-7/8"	Casing Siz	e: 4-1/2"
Tubing and Packer Detail: TH wild 1/2" Injection pkr. On 137 jts. 2 3/6" rice duc-lined Irl, Tbg. Circ. Hole wipkr fluid. set in; Pkr. (2) 4321"		hole w/pkr fluid, set in; pkr. @ 4321 822/86 OPT: Investing 1317 BWPD @ 11308 403 Tagged @ 4345' Tog press 1526	Cemented with:	2100	_sx. or	
			Top of Cement:	Surface	Method De	etermined: <u>Circulation</u>
Production Cealing Size 4 1/2* Wt., Grd. 10.5#, K-55	XX	Phr. 4321 ¹ .	Total Depth:	4800'		
Depth: 4800'		Peris: 4407-4724'.		Ten	jection Interval	

	Tubing Size:	2-3/8"	Lining Material:	Fiberglass	-
Ty_{j}	pe of Packer: 4-1/	2" Nickel plated internal	ly plastic coated Inj pkr		
Pac	ker Setting Depth:	<u>@</u> +/- 4300`			
Otł	ner Type of Tubing	Casing Seal (if appli	cable):		
			Additional Data		
1.	Is this a new well	drilled for injection?	<u>_X_</u> Y	YesNo	
	If no, for what pu	rpose was the well or	riginally drilled?		manusi nam
2.	Name of the Inject	tion Formation:	Grayburg - San A	Andres	
3.	Name of Field or	Pool (if applicable):	Central Vacuum	ı Unit	
4.		plugging detail, i.e.		lug(s) used.	
5.	Give the name and	d depths of any oil or	gas zones underlying	g or overlying the propos	sed
		Glorieta (5820' - 62	200')		

CVU 28

Created:	7/3/2008	By: J	SS
Updated:	5/4/2009	Ву:	Cayce
Updated:	7/9/2013	Ву:	CHAY
Lease:	Centr	al Vacuum U	nit
Field:	Vacuum (G	rayburg San	Andres)
Surf. Loc.:	1230'	FSL, 159' F	EL
Bot. Loc.:			
County:	Lea	St.:	NM
Status:		Injector	

Well #:	28	St. Lse: B-	1056
API		30-025-25816	_
Unit Ltr.:	Р	Section:	25
TSHP/Rng:		S-17 E-34	
Unit Ltr.:		Section:	
TSHP/Rng:			
CHEVNO:	EQ0049		
Directions:		Buckeye, NM	

Surface Casing			
Size:	8 5/8"		
Wt., Grd.:	24#, K-55		
Depth:	409'		
Sxs Cmt:	425		
Circulate:	Yes		
TOC:	Surface		
Hole Size:	12 1/4		

KB: 3995' DF: NA GL: 3985' Ini. Spud: 3/5/1978 Ini. Comp.: 4/14/1978

Sqz'd csg. Leak 487-520' w/200 sx.

Cmt. 8/2/96.

Perf. and Stimulation History: **CVU 028**

4/14/78 New well Initial completion perf. w/2 JSPF from 4407, 13, 21, 38, 90, 98, 4657, 68, 73, 84, 98, 4705, 11, 17, 4724'. Acidize 4407-4724' w/4900 gals 15% acid. Test: 1290 BWPD @ vac. 24 hr. injection. 9/25/86 Acidize 4407-4724' w/5500 gals acid. before: 660 BWPD @ 880#. after: 800 BWPD @ 800# 24 hr. inj.

8/2/96 Sqz'd csg leak 487-520' w/200 sx. cmt. 8/15/96 TIH w/4 1/2" injection pkr. on 137

jts. 2 3/8" rice duo-lined injection tbg. circ. hole w/pkr fluid, set inj. pkr. @ 4321'. 8/23/96 OPT: Injecting 1317 BWPD @ 1130#.

4/09 Tagged @ 4345'. Tbg press 1525.

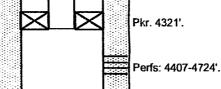
Perforations:

4 1/2" csg. w/2 JSPF from 4407, 13, 21, 38, 90, 98, 4657, 68, 73, 84, 98, 4705, 11, 17, 4724'.

Tubing and Packer Detail:
TIH w/4 1/2" injection pkr. On 137 jts. 2 3/8" rice duo-lined inj. Tbg. Circ. Hole w/pkr fluid, set inj. Pkr. @ 4321'.

Production Casing

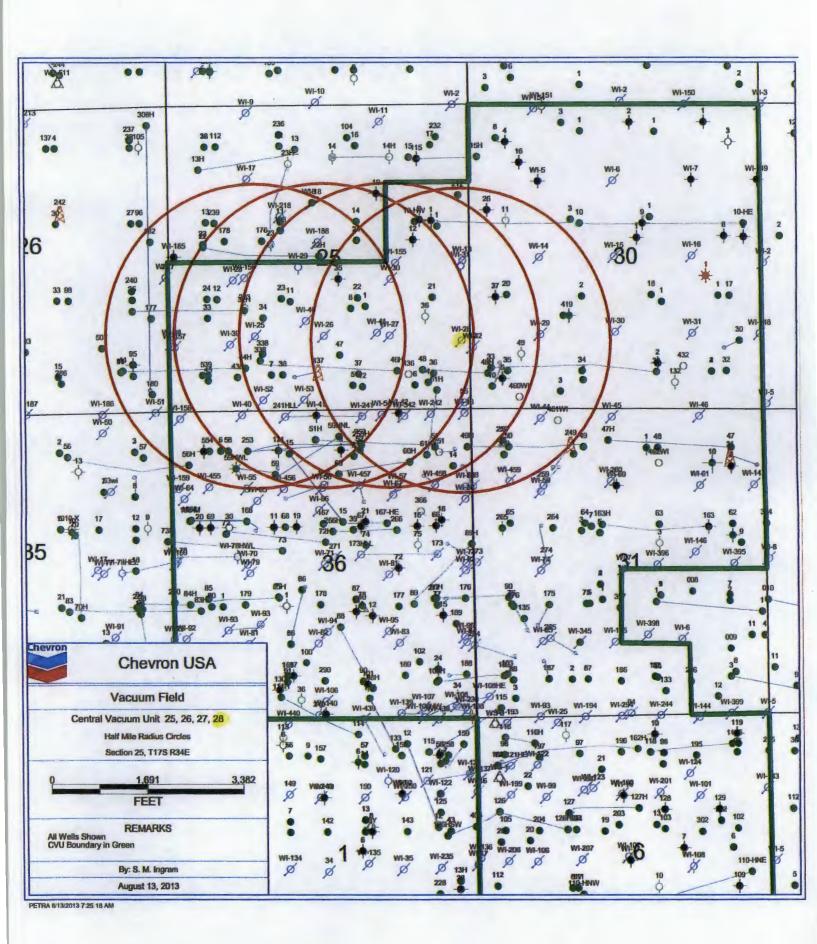
Size:	4 1/2"
Wt., Grd.:	10.5#, K-55
Depth:	4800'
Sxs Cmt:	2100
Circulate:	Yes
TOC:	Surface
Hole Size:	7 7/8



PBTD: 4765' TD: 4800'

Workover Procedure

- 1. Perform MIT. If the MIT fails due to a casing leak we will run a 3-1/2" flush joint liner.
- 2. Rig up pulling unit. TOH w/ packer and injection tubing.
- 3. TIH w/ 3/7/8" bit and drill collars on 2-3/8" workstring and clean out to 4765' (PBTD). Circulate hole clean and TOH.
- 4. Run and cement in 3-1/2" flush joint liner to 4375', if necessary.
- 5. TIH w/ treating packer on workstring and set at 4250'.
- 6. Acidize perfs 4407'-4724' w/ 6,000 gallons 15% NEFE HCl. TOH.
- 7. TIH w/ injection packer and on-off tool on IPC injection tubing.
- 8. Set packer at 4320'.
- 9. Load annulus with packer fluid.
- 10. Perform MIT.
- 11. Rig down pulling unit.
- 12. Return well to injection.



LEGAL NOTICE

September 4, 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 Central Vacuum Unit # 25, 26, 27 and 28 from Water Injection wells to Water Alternating Gas Injection wells. Injection into these wells is designed to enhance production from the Central Vacuum Unit.

The CVU # 25, is located 1330' FSL & 1504' FWL, UL K, Sec. 25, T17S, R34E; CVU # 26, 1330' FSL & 2577' FEL, UL J, Sec 25, T17S, R34E; CVU # 27, 1330' FSL & 1425' FEL, UL J, Sec 25, T17S, R34E, CVU # 28, 1230' FSL & 159' FEL, UL P, Sec 25, T17S, R34E, Lea County, NM. The injection interval will be through perforations within the "Unitized Formation" for the CVU which includes the correlative stratigraphic interval underlying the Unit Area in the Vacuum-Grayburg San Andres pool between the depths of 3,858' (+ 144' sub-sea) and 4858' (-856' sub-sea) on the Welex Acoustic Velocity Log, run on 11-13-63, in the Texaco Inc, State of NM "O" (NCT-1) well # 23, located: O-36-T17S-R34E, NMPM, Lea CO, NM. (now Vacuum Glorieta West Unit Well # 101). The maximum injection rate will be 2,000 BWPD/well, with a maximum allowable surface pressure of 1,500 psi. CO₂ and produced gas injection will be at a maximum rate of 4,000 MCF per day/well, with a maximum surface pressure of 2,200 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: Paul T. Brown, 15 Smith Rd., Midland TX 79705.

NOTIFICATION LIST

Prepared 7/10/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 25, API #30-025-25813

1,330' FSL & 1,504' FWL, Section 25, T-17-S, R-34E, Unit Letter K Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for N/2 of Section 25, T17S-R34E:

Chevron U.S.A. Inc.

Mobil Producing Texas & New Mexico Inc.

15 Smith Road

c/o XTO Energy Inc.

Midland, Texas 79705

Attn.: Permian Land 810 Houston Street

XTO Energy Inc.

Fort Worth, Texas 76102

Attn.: Permian Land 810 Houston Street

Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for SE/4 of Section 25, T17S-R34E:

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

Offset Operators, Leaseholders, Working Interest Owners, for SW/4 of Section 25, T17S-R34E:

Marathon Oil Company 5555 San Felipe Mail Stop #3308 Houston, Texas 77056 Apache Corporation 303 Veterans Airpark Lane, Suite 30000 Midland, Texas 79705

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

Offset Operators, Leaseholders, Working Interest Owners, for E/2 of Section 26, T17S-R34E:

XTO Energy Inc. Attn.: Permian Land 810 Houston Street

Fort Worth, Texas 76102

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 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

Mobil Producing Texas & New Mexico Inc.

Surface Owner for All of Section 25, T-17-S-R34E:

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

Signed By: <u>Daniel Pequeno (signed)</u>

Daniel Pequeno, Landman

Date: July 10, 2013

NOTIFICATION LIST

Prepared 7/10/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 26, API #30-025-25814

1,330' FSL & 2,577' FEL, Section 25, T-17-S, R-34E, Unit Letter J Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for N/2 of Section 25, T17S-R34E:

Mobil Producing Texas & New Mexico Inc. Chevron U.S.A. Inc.

15 Smith Road c/o XTO Energy Inc. Attn.: Permian Land Midland, Texas 79705 810 Houston Street

XTO Energy Inc. Fort Worth, Texas 76102

Attn.: Permian Land 810 Houston Street

Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for SE/4 of Section 25, T17S-R34E:

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

Offset Operators, Leaseholders, Working Interest Owners, for SW/4 of Section 25, T17S-R34E:

Apache Corporation Marathon Oil Company 303 Veterans Airpark Lane, Suite 30000 5555 San Felipe

Mail Stop #3308 Midland, Texas 79705 Houston, Texas 77056

Chevron U.S.A. Inc. 15 Smith Road

Midland, Texas 79705

Offset Operators, Leaseholders, Working Interest Owners, for W/2 of Section 30, T17S-R34E:

Chevron U.S.A. Inc. Apache Corporation

15 Smith Road 303 Veterans Airpark Lane, Suite

3000 Midland, Texas 79705 Midland, Texas 79705

ConocoPhillips Petroleum Company Boge, Inc.

P. O. Box 2197 6304 County Road 7430 Houston, Texas 77252-2197 Lubbock, Texas 79424

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

Mobil Producing Texas & New Mexico Inc. Chevron U.S.A. Inc.

c/o XTO Energy Inc. 15 Smith Road

Attn.: Permian Land Midland, Texas 79705

810 Houston Street Fort Worth, Texas 76102

Surface Owner for All of Section 25, T-17-S-R34E:

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

Signed By: <u>Daniel Pequeno (signed)</u>

Daniel Pequeno, Landman

Date: July 10, 2013

NOTIFICATION LIST

Prepared 7/10/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 27, API #30-025-25815

1,330' FSL & 1,425' FEL, Section 25, T-17-S, R-34E, Unit Letter J Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for N/2 of Section 25, T17S-R34E:

Chevron U.S.A. Inc. Mobil Producing Texas & New Mexico Inc.

15 Smith Road c/o XTO Energy Inc.
Midland, Texas 79705 Attn.: Permian Land
810 Houston Street

XTO Energy Inc. Fort Worth, Texas 76102

Attn.: Permian Land 810 Houston Street Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for SE/4 of Section 25, T17S-R34E:

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

Offset Operators, Leaseholders, Working Interest Owners, for SW/4 of Section 25, T17S-R34E:

Marathon Oil Company
5555 San Felipe
303 Veterans Airpark Lane, Suite 30000
Mail Stop #3308
Midland, Texas 79705
Houston, Texas 77056

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

Offset Operators, Leaseholders, Working Interest Owners, for W/2 of Section 30, T17S-R34E:

Chevron U.S.A. Inc.

15 Smith Road

3000 Midland, Texas 79705

Apache Corporation

303 Veterans Airpark Lane, Suite

Midland, Texas 79705

ConocoPhillips Petroleum Company

P. O. Box 2197

Houston, Texas 77252-2197

Boge, Inc.

6304 County Road 7430

Lubbock, Texas 79424

Offset Operators, Leaseholders, Working Interest Owners, for All of Section 31, T17S-R35E:

Chevron U.S.A. Inc.

15 Smith Road

Midland, Texas 79705

ConocoPhillips Petroleum Company

P.O. Box 2197

Houston, Texas 77252-2197

Mobil Producing Texas & New Mexico Inc.

c/o XTO Energy Inc.

Attn.: Permian Land

810 Houston Street

Fort Worth, Texas 76102

Apache Corporation.

303 Veterans Airpark Land,

Suite 3000

Midland, Texas 79705

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

o to nousion sueet

Fort Worth, Texas 76102

Chevron U.S.A. Inc.

15 Smith Road

Midland, Texas 79705

Surface Owner for All of Section 25, 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 (signed)

Daniel Pequeno, Landman

Date: July 10, 2013

NOTIFICATION LIST

Prepared 7/10/2013 by Daniel Pequeno, Senior Land Representative

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

Central Vacuum Unit Well No. 28, API #30-025-25816

1,230' FSL & 159' FEL, Section 25, T-17-S, R-34E, Unit Letter P Lea County, New Mexico

Offset Operators, Leaseholders, Working Interest Owners, for N/2 of Section 25, T17S-R34E:

Mobil Producing Texas & New Mexico Inc. Chevron U.S.A. Inc.

c/o XTO Energy Inc. 15 Smith Road Midland, Texas 79705 Attn.: Permian Land 810 Houston Street

Fort Worth, Texas 76102 XTO Energy Inc.

Attn.: Permian Land 810 Houston Street

Fort Worth, Texas 76102

Offset Operators, Leaseholders, Working Interest Owners, for SE/4 of Section 25, T17S-R34E:

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

Offset Operators, Leaseholders, Working Interest Owners, for SW/4 of Section 25, T17S-R34E:

Marathon Oil Company **Apache Corporation** 5555 San Felipe 303 Veterans Airpark Lane, Suite 30000

Midland, Texas 79705 Mail Stop #3308

Houston, Texas 77056

Chevron U.S.A. Inc.

15 Smith Road

Midland, Texas 79705

Offset Operators, Leaseholders, Working Interest Owners, for W/2 of Section 30, T17S-R34E:

Chevron U.S.A. Inc. Apache Corporation

15 Smith Road 303 Veterans Airpark Lane, Suite

3000 Midland, Texas 79705 Midland, Texas 79705

ConocoPhillips Petroleum Company Boge, Inc.

P. O. Box 2197 6304 County Road 7430 Houston, Texas 77252-2197 Lubbock, Texas 79424

Offset Operators, Leaseholders, Working Interest Owners, for All of Section 31, T17S-R35E:

Chevron U.S.A. Inc. ConocoPhillips Petroleum Company

15 Smith Road P. O. Box 2197

Midland, Texas 79705 Houston, Texas 77252-2197

Mobil Producing Texas & New Mexico Inc. Apache Corporation.

c/o XTO Energy Inc. 303 Veterans Airpark Land,

Attn.: Permian Land Suite 3000

810 Houston Street Midland, Texas 79705

Fort Worth, Texas 76102

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

Mobil Producing Texas & New Mexico Inc. Chevron U.S.A. Inc. c/o XTO Energy Inc. 15 Smith Road

Attn.: Permian Land Midland, Texas 79705

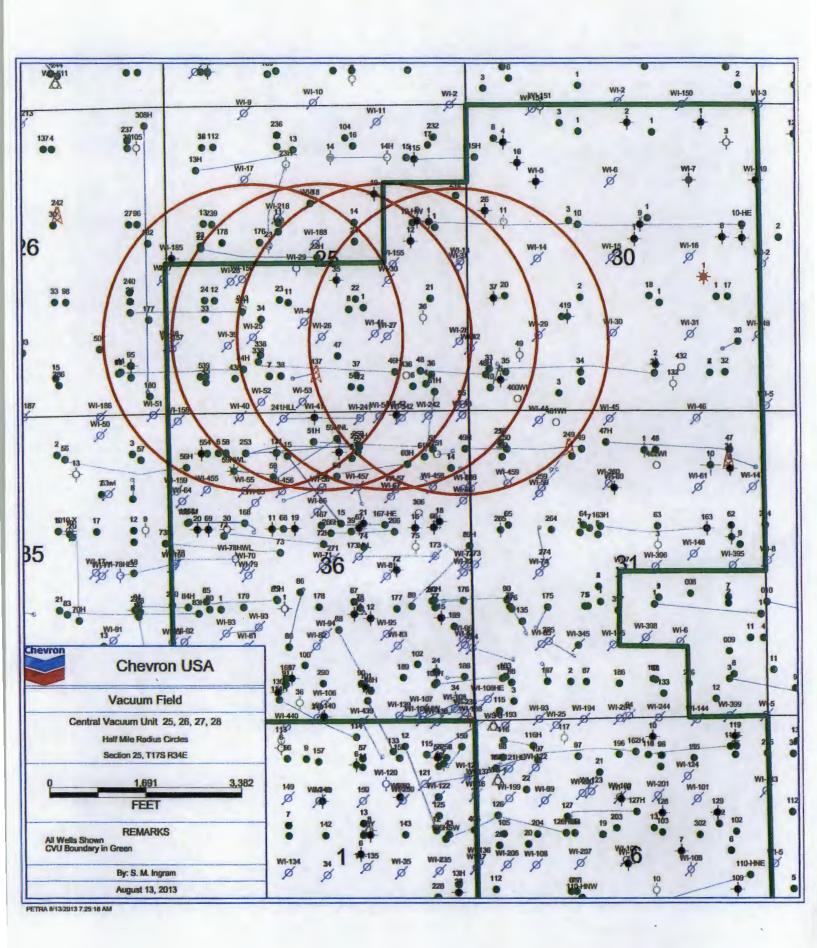
810 Houston Street Fort Worth, Texas 76102

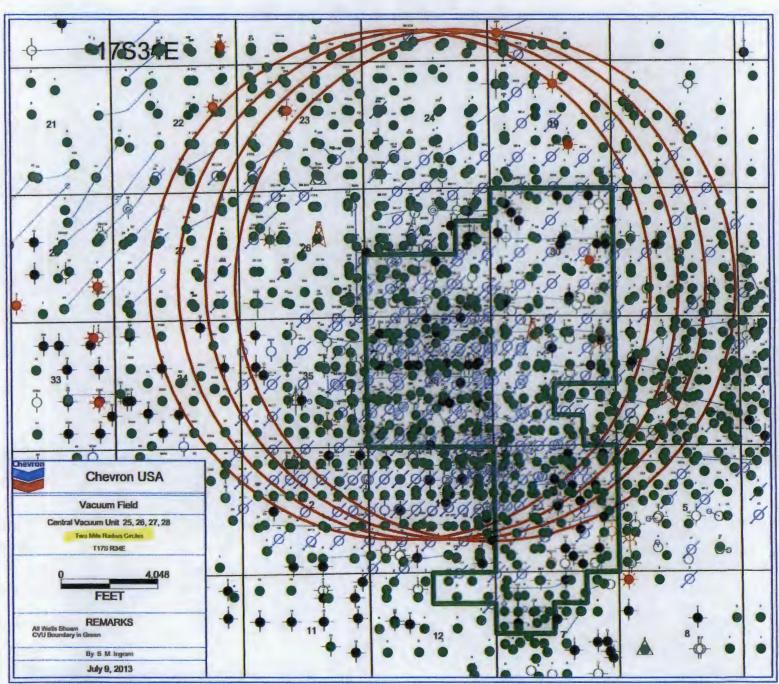
Surface Owner for All of Section 25, T-17-S-R34E:

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

Daniel Pequeno, Landman

Date: July 10, 2013





PETRA 7/9/2013 2:40:05 PM



September 18, 2013

Water, Gas & CO2 Injection Central Vacuum Unit # 256 Lea County, New Mexico **Carolyn Haynie** Petroleum Engineering Technical Assistant MidContinent Business Unit Chevron North America Exploration and Production Company 15 Smith Road Midland, TX 79705 Tel 432-687-7261 Fax 432-687-7871 chay@chevron.com

Offset Operators:

For your information, as an offset operator, Chevron U.S.A. Inc., operator of the Central Vacuum Unit has filed an application with the New Mexico Oil Conservation Division and to place the following wells from Water Injection to Water Alternating Gas Injection wells. Injection into these wells is designed to enhance the production from the Central Vacuum Unit.

Wells: CVU # 25, API # 30-025-25813; 1330' FSL & 1504' FWL, K-25-T17S-R34E, Lea Co. CVU # 26, API # 30-025-25814; 1330' FSL & 2577' FEL, J-25-T17S-R34E, Lea Co. CVU # 27, API # 30-025-25815; 1330' FSL & 1425' FEL, J-25-T17S-R34E, Lea Co. CVU # 28, API # 30-025-25816, 1230' FSL & 159' FEL, P-25-T17S-R34E, Lea Co

Attached is the information relative to the application, with copies of the legal notice posted in the Hobbs News-Sun and a map highlighting the location of the referenced wells in relation to your offset operations.

Any objections to this application must be sent to the **New Mexico Oil Conservations Division**, **1220 South St. Francis Dr.**, **Santa Fe, New Mexico**, **87505**, within 15 days of receipt of this notification. If additional information is required, please contact me at (432-687-7261), or the project engineer, Paul Brown, at (432-687-7531).

Sincerely,

Carolyn Haynie
Chevron Midcontinent

NM PE Technical Assistant

Enclosure

26 AM &

OFFSET OPERATORS:

Boge, Inc. 6304 County Road 7430 Lubbock, TX 79424

ConocoPhillips Petroleum Company P.O. BOX 2197 Houston, TX 77252-2197

Mobil Producing TX & NM Inc. c/o XTO Energy, Inc. Attn: Permian Land 810 Houston Street Ft Worth, TX 76102

Apache Corporation 303 Veterans Airpark Lane, Suite 3000 Midland, TX 79705

Marathon Oil Company 5555 San Felipe Mail Stop #3308 Houston, TX 77056

Surface Owner

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



September 23, 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 Central Vacuum Unit Lea, County, New Mexico

Surface Owner:

Carolyn Haynie
Petroleum Engineering
Technical Assistant

MidContinent Business Unit Chevron North America Exploration and Production Company 15 Smith Road Midland, TX 79705 Tel 432-687-7261 Fax 432-687-7871 chay@chevron.com

For your information, Chevron USA Inc., as operator, filed an application with the New Mexico Oil Conservation Division (NMOCD) to place the following wells on Water Alternating Gas Injection, (WAG). Injection into these wells is designed to enhance the production from the Central Vacuum Unit.

Wells: CVU # 25, API # 30-025-25813; 1330' FSL & 1504' FWL, K-25-T17S-R34E, Lea Co. CVU # 26, API # 30-025-25814; 1330' FSL & 2577' FEL, J-25-T17S-R34E, Lea Co. CVU # 27, API # 30-025-25815; 1330' FSL & 1425' FEL, J-25-T17S-R34E, Lea Co. CVU # 28, API # 30-025-25816, 1230' FSL & 159' FEL, P-25-T17S-R34E, Lea Co

Attached is the information relative to the application, with copies of the legal notice posted in the Hobbs News-Sun and a map highlighting the location of the referenced wells in relation to your offset operations.

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, Paul Brown, at (432-687-7531).

Sincerely,

Carolyn Haynie

NM PE Technical Assistant

Enclosure