

DATE IN 9.8.11	SUSPENSE	ENGINEER TW.	LOGGED IN 9.8.11	TYPE WFX	APP NO. 1125155238
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ABOVE THIS LINE FOR DIVISION USE ONLY

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



Chevron
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ADMINISTRATIVE APPLICATION CHECKLIST

30-025-31709

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

[D] Other: Specify _____

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

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

[B] ☒ -Offset Operators, Leaseholders or Surface Owner

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

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

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

[F] ☐ Waivers are Attached

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

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

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

Carolyn Haynie	<i>Carolyn Haynie</i>	NM Petro Engineering Technical Assistant	9-6-11
Print or Type Name	Signature	Title	Date

chay@chevron.com
 e-mail Address

6-36-175-345
1500 psi water
1850 psi CO2
4354'-4616'
~425'
WFX 822
R-5530-E



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

September 6, 2011

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
Central Vacuum Unit
Lea, County, New Mexico

Chevron North America , respectfully requests administrative approval to convert the Vacuum Glorieta West Unit # 80, (API # 30-025-31709), to Central Vacuum Unit # 271 Water Injection well in the Grayburg San Andres formation. The CVU # 271 is located: 2571' FNL & 2442' FEL, Unit Letter, G, Section 36; T17S, R34E, Lea County, New Mexico.

Chevron plans to inject water, CO₂, and produced gas into the Grayburg San Andres formations perforated area: 4354' - 4616', 96 total holes.

Attached are the OCD C-108 and the information relative to an injection well. A copy of the legal notice has been submitted to the Hobbs News-Sun and the affidavit will be submitted to your office upon our receipt.

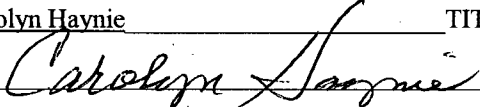
If additional information is required, you may contact me at 432-687-7261 or email me at chay@chevron.com or contact the project engineer, Edgar Acero, at 432-687-7343, EDGAR.ACERO@chevron.com.

Sincerely,

Carolyn Haynie
NM PE Technical Assistant

Enclosure

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. 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. Whether the system is open or closed;
 3. Proposed average and maximum injection pressure;
 4. Sources and an appropriate analysis of injection fluid and compatibility with the receiving formation if other than reinjected produced water; and,
 5. If injection is for disposal purposes into a zone not productive of oil or gas at or within one mile of the proposed well, attach a chemical analysis of the disposal zone formation water (may be measured or inferred from existing literature, studies, nearby wells, etc.). ATTACHED
- *VIII. Attach appropriate geologic data on the injection zone including appropriate lithologic detail, geologic name, thickness, and depth. Give the geologic name, and depth to bottom of all underground sources of drinking water (aquifers containing waters with total dissolved solids concentrations of 10,000 mg/l or less) overlying the proposed injection zone as well as any such sources known to be immediately underlying the injection interval. ATTACHED
- IX. Describe the proposed stimulation program, if any. ATTACHED
- *X. Attach appropriate logging and test data on the well. (If well logs have been filed with the Division, they need not be resubmitted). PREVIOUSLY SUMMITTED
- 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. PREVIOUSLY SUMMITTED
- 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. ATTACHED
- 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
SIGNATURE:  DATE: 9-6-11
E-MAIL ADDRESS: chay@chevron.com
- * If the information required under Sections VI, VIII, X, and XI above has been previously submitted, it need not be resubmitted. Please show the date and circumstances of the earlier submittal:

III. WELL DATA

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

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

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

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. ATTACHED

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

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

INJECTION WELL DATA SHEET

OPERATOR: CHEVRON U.S.A. INC.WELL NAME & NUMBER: CENTRAL VACUUM UNIT # 271WELL LOCATION: 2517'FNL & 2442' FEL
FOOTAGE LOCATIONUNIT G:
UNIT LETTERSEC. 36, T17S, R34E
SECTION TOWNSHIP RANGEWELLBORE SCHEMATICWELL CONSTRUCTION DATASurface Casing

Hole Size: 11" Casing Size: 8-5/8"
Cemented with: 650 sx. or ft³
Top of Cement: Surface Method Determined: Circulation

Intermediate Casing

Hole Size: Casing Size:
Cemented with: sx. or ft³
Top of Cement: Method Determined:

Production Casing

Hole Size: 7-7/8" Casing Size: 5-1/2"
Cemented with: 1530 sx. or ft³
Top of Cement: Surface Method Determined: Circulation

Total Depth: 6275'Injection Interval4354' feet to 4616'

(New Perforations)

INJECTION WELL DATA SHEETTubing Size: 2-3/8" Lining Material: FiberglassType of Packer: 5-1/2" Nickel plated Internally plastic coated Inj Pkr w/1.50" ID 'F' Stainless SteelPacker Setting Depth: @ +/-4300'

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

Additional Data

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

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

2. Name of the Injection Formation: 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. Yes, previously completed in the Glorieta

Pool in the Vacuum Glorieta Field, as the VGWU #80 wellbore, with gross perfs from 5930 to 6159'. TA'd w/ CIBP @ 5730', top w/35' cmt. TOC +/- 5695'.

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'), Drinkard (6400-7200'), Abo (8400-9200') Wolfcamp (9200-10,000')

ATTACHMENT TO FORM C-108

RE: Central Vacuum Unit # 271

old well none

PART I Chevron Corporation plans to recomple the Vacuum Glorieta West Unit # 80 to the Central Vacuum Unit # 271 as an injection well in the Vacuum Grayburg San Andres formation.

New well none

PART II Chevron U.S.A. INC.
15 Smith Road
Midland, TX 79705

PART III Well Data Sheets attached

PART IV This is an expansion of an existing project. Order #R-5530-E

PART V Map attached designating ½ mile and 2 mile radius of review area.

PART VI Well tabulation and P&A Schematics are attached.

PART VII 1) Anticipated injection rates could be as high as 3,000 barrels of water per day, or 10 million cubic feet of CO2 per day.

2) This will be a closed system.

3) Water, produced gas & CO2 will be injected into the Grayburg San Andres pool of the Vacuum field. Water injection in the CVU 271 will be at the expected maximum rate of 3,000 barrels of water per day and an expected maximum surface pressure of 1500 psi. CO2 and produced gas injection will be at an expected maximum rate of 10 MMCF per day and an expected maximum surface pressure of 1850 psi. — *1800 ✓*

4,5) This data has been previously submitted under NMOCD Order #R-5530-E.

PART VIII This data has been submitted under NMOCD Order No. #R-5530-E.

PART IX This stimulation program will be ~8,000 gallons 15% HCL acid with rock salt as a diverter.

PART X Logs will be submitted as soon as possible after the well is recompleted.

PART XI This data has been previously submitted NMOCD Order No. #R-5530.

PART XII Chevron U.S.A. INC. has examined available geologic and engineering data and finds no evidence of open faults or any other hydrologic connection between the disposal zone and any underground source of drinking water.

PART XIII Copies of the OCD Form C108, the Well Data Sheet and map have been sent to the offset operators and surface owner as per the listing below.

XTO ENERGY INC.
ATTN: Mr. Steven Cobb
810 Houston Street, Ste 2000
Ft. Worth, Texas, 76102

MOBIL PRODUCING TX & NM INC.
ATTN: Land Department
P.O. BOX 4707
Houston. TX 77210-4707

MARATHON OIL COMPANY
ATTN: Mr. Robert Angel
P.O. BOX 3487
Houston, TX 77253-3487

APACHE PERMIAN EXPLORATION & PRODUCTION LLC
2000 Post Oak Blvd, Ste 100
Houston, TX 77056

McGOWAN WORKING PARTNERS INC.
1837 Crane Ridge Drive
Jackson, MS 39216

QUANTUM RESOURCES MANAGEMENT LLC
1401 McKinney Street, Ste. 2400
Houston, TX 77010

CONOCOPHILLIPS PETRO CO.
ATTN: Land Department
P.O. BOX 2197
Houston, TX 77210-4707

Surface Own
PIERCE TRUST
1717 Jackson
Pecos, TX 79772

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

A copy of the Legal Notice as published in the Hobbs News Sun is attached to this filing.
Certified copy will be forwarded as soon as it is received in this office.

Wells within 1/2 mile radius of VWGU # 80 to be Converted to CVU # 271																				
API #	Name	Location	Unit Letter	S	T	R	Co	Type	Status	ELEV	TD	COMP	SPUD	COMMENTS						
1 30-025-25708	CVU WL-81	1332' FSL & 1310' FWL	L	36	17S	34E	LEA	INJ	ACTIVE	3998	4880	4/5/1979	3/3/1979							
2 30-025-29765	CVU 169	760' FSL & 1980' FWL	N	36	17S	34E	LEA	OIL	PS	3993	4710	12/10/1986	11/8/1986							
3 30-025-33331	CVU 176	1988' FSL & 355' FEL	I	36	17S	34E	LEA	OIL	FL	3985	4840	5/29/1996	5/10/1996							
4 30-025-33712	CVU 177	1955' FSL & 1335' FEL	J	36	17S	34E	LEA	OIL	FL	3994	4850	1/11/1997	12/19/1996							
5 30-025-33332	CVU 178	1993' FSL & 2585' FWL	K	36	17S	34E	LEA	OIL	FL	3996	4850	5/9/1996	4/13/1996							
6 30-025-33333	CVU 179	1997' FSL & 1263' FWL	L	36	17S	34E	LEA	OIL	PR	3999	4850	4/26/1996	4/3/1996							
7 30-025-33334	CVU 189	751' FSL 7 1246' FEL	P	36	17S	34E	LEA	OIL	PR	3988	4850	5/28/1996	4/23/1996							
8 30-025-31197	CVU 290	670' FSL & 2630' FWL	N	36	17S	34E	LEA	OIL	PS	3994	4850	7/29/1991	5/29/1991							
9 30-025-31195	CVU 291	660' FSL & 1330' FWL	N	36	17S	34E	LEA	OIL	FL	3999	4850	7/30/1991	6/19/1991							
10 30-025-02233	CVU 53	660' FNL & 1980' FWL	C	36	17S	34E	LEA	OIL	PS	4001'	4700	1/7/1939	12/1/1938							
11 30-025-02232	CVU 54	660' FNL & 660' FWL	D	36	17S	34E	LEA	OIL	PS	4018'- DF	4705	9/12/1938	8/1/1938							
12 30-025-02239	CVU 68	1980' FNL & 1980' FWL	F	36	17S	34E	LEA	OIL	FL	4012'- DF	4725	8/2/1938	7/3/1938							
13 30-025-02238	CVU 77	1980' FSL & 660' FEL	I	36	17S	34E	LEA	OIL	PS	3997'- DF	4710	8/3/1938	7/3/1938							
14 30-025-02240	CVU 78	1980' FSL & 1980' FEL	J	36	17S	34E	LEA	OIL	PR	4002'	4725	8/9/1938	7/5/1938							
15 30-025-02229	CVU 79	2140' FSL & 1840' FWL	K	36	17S	34E	LEA	OIL	PR	4003'- KB	4690	4/22/1938	3/14/1938							
16 30-025-02234	CVU 80	1980' FSL & 660' FWL	L	36	17S	34E	LEA	OIL	PS	4001'- DF	4626	2/27/1938	1/22/1938							
17 30-025-02244	CVU 90	660' FSL & 1980' FEL	O	36	17S	34E	LEA	OIL	PS	3991'- DF	4710	10/15/1939	9/6/1939							

18	30-025-35213	CVU WI-241H	74' FNL & 1940' FEL	B	36	17S	34E	LEA	INJ	ACTIVE	3997	5988	3/27/2001	1/13/2001	
19	30-025-38637	CVU WI-455	1310' FNL & 660' FWL	D	36	17S	34E	LEA	INJ	ACTIVE	4008	5320	11/22/2008	5/13/2008	
20	30-025-38638	CVU WI-456	1360' FNL & 1980' FWL	F	36	17S	34E	LEA	INJ	ACTIVE	4003	5010	11/8/2008	6/19/2008	
21	30-025-38639	CVU WI-457	1593' FNL & 1912' FEL	G	36	17S	34E	LEA	INJ	ACTIVE	3998	5026	1/21/2009	10/30/2008	
22	30-025-38640	CVU WI-458	1153' FNL & 848' FEL	A	36	17S	34E	LEA	INJ	ACTIVE	3993	5035	3/12/2009	11/17/2008	
23	30-025-25722	CVU WI-56	1310' FNL & 2630' FWL	C	36	17S	34E	LEA	INJ	ACTIVE	4800	4800	2/6/1978	12/21/1977	
24	30-025-25723	CVU WI-57	1310' FNL & 1330' FEL	B	36	17S	34E	LEA	INJ	ACTIVE	3993	4800	2/15/1978	1/9/1978	
25	30-025-25724	CVU WI-58	1310' FNL & 132' FEL	A	36	17S	34E	LEA	INJ	ACTIVE	3999	4800	2/14/1978	1/17/1978	
26	30-025-25727	CVU WI-71	2630' FNL & 2623' FEL	G	36	17S	34E	LEA	INJ	ACTIVE	4003	4800	2/22/1978	1/31/1978	
27	30-025-25728	CVU WI-73	2630' FNL & 142' FWL	H	36	17S	34E	LEA	INJ	ACTIVE	3985	4800	2/21/1978	1/29/1978	
28	30-025-25730	CVU WI-82	1333' FSL & 2528' FWL	K	36	17S	34E	LEA	INJ	ACTIVE	3994	4800	3/2/1979	1/29/1979	
29	30-025-25731	CVU WI-83	1330' FSL & 1330' FEL	J	36	17S	34E	LEA	INJ	ACTIVE	3988	4800	6/5/1978	5/6/1978	
30	30-025-32339	NEW MEXICO 'O' STAT 36	330' FSL & 2210' FWL	N	36	17S	34E	LEA	OIL	TA	3995	8100	3/20/1994	2/9/1994	
31	30-025-33148	NEW MEXICO 'O' STAT 38	2085' FSL & 710' FEL	I	36	17S	34E	LEA	OIL	TA	3987	11500	1/11/1996	11/4/1995	
32	30-025-33569	NEW MEXICO 'O' STAT 39	2075' FNL & 2110' FEL	G	36	17S	34E	LEA	OIL	PR	3997	10300	6/16/1997	12/31/1996	
33	30-025-38140	NM O STATE NCT-1 40	1885' FSL & 1978' FEL	J	36	17S	34E	LEA	SWDW	ACTIVE	3394	13300	5/7/2007	1/19/2007	
34	30-025-33570	STATE 'BA' 14	990' FNL & 330' FEL	A	36	17S	34E	LEA	OIL	FL	3991	11500	12/31/1996	9/10/1996	
35	30-025-30126	VGWU 102	990' FSL & 990' FEL	P	36	17S	34E	LEA	OIL	PS	3998	6290	12/21/1987	11/6/1987	
36	30-025-32338	VGWU 133	355' FSL & 1875' FEL	O	36	17S	34E	LEA	OIL	PS	3991	8100	3/28/1994	2/28/1994	

37	30-025-30715	VGWU 58	660' FNL & 989' FWL	D	36	17S	34E	LEA	OIL	PS	4006	6600	1/17/1990	11/20/1989	
38	30-025-21637	VGWU 87	2090' FSL & 2086' FEL	J	36	17S	34E	LEA	OIL	PR	4002-KB	10200	1/23/1966	11/19/1965	
39	30-025-31844	VGWU 96	1427' FSL & 183' FEL	I	36	17S	34E	LEA	INJ	ACTIVE	3986	6343	3/18/1993	2/26/1993	
40	30-025-31874	VGWU WI-106	310' FSL & 2630' FEL	O	36	17S	34E	LEA	INJ	ACTIVE	3992	6280	6/5/1993	5/5/1993	
41	30-025-31816	VGWU WI-54	51' FNL & 1588' FEL	B	36	17S	34E	LEA	INJ	ACTIVE	3996	6338	2/19/1993	1/24/1993	
42	30-025-31705	VGWU WI-65	1522' FNL & 1492' FWL	F	36	17S	34E	LEA	INJ	ACTIVE	4004	6270	10/26/1992	10/6/1992	
43	30-025-31706	VGWU WI-66	1690' FNL & 2577' FWL	F	36	17S	34E	LEA	INJ	ACTIVE	3993	6290	10/13/1992	9/24/1992	
44	30-025-31808	VGWU WI-67	1435' FNL & 1408' FEL	G	36	17S	34E	LEA	INJ	ACTIVE	3993	6332	2/20/1993	2/3/1993	
45	30-025-31839	VGWU WI-68	1728' FNL & 351' FEL	H	36	17S	34E	LEA	INJ	ACTIVE	3989	6338	3/10/1993	2/14/1993	
46	30-025-31708	VGWU WI-79	2561' FSL & 1351' FWL	K	36	17S	34E	LEA	INJ	ACTIVE	4004	6255	11/23/1992	11/7/1992	
47	30-025-31709	VGWU WI-80	2514 FNL & 2442' FEL	G	36	17S	34E	LEA	INJ	TA	3997	6275	12/6/1992	11/18/1992	
48	30-025-31842	VGWU WI-81	2521' FSL & 1503' FEL	J	36	17S	34E	LEA	INJ	ACTIVE	3991	6304	2/25/1993	2/6/1993	
49	30-025-31840	VGWU WI-82	2576' FSL & 149' FEL	I	36	17S	34E	LEA	INJ	ACTIVE	3986	6334	3/26/1993	3/10/1993	
50	30-025-31843	VGWU WI-95	1534' FSL & 1521' FEL	J	36	17S	34E	LEA	INJ	ACTIVE	3990	6283	3/11/1993	2/15/1993	
51	30-025-30476	VGWU # 100	990' FSL & 2310' FWL	N	36	17S	34E	LEA	OIL	PS	3984	6270	5/4/1989	3/30/1989	NEW MEXICO 'O' STAT 29
52	30-025-32450	VGWU # 189	1650' FSL & 330' FEL	I	36	17S	34E	LEA	OIL	PR	3986	8148	5/3/1994	3/31/1994	NEW MEXICO 'O' STAT 37
53	30-025-21432	VGWU # 61H	660' FNL 7760' FEL	A	36	17S	34E	LEA	OIL	PS	3991	6830	7/3/1965	4/28/1965	STATE 'BA' 10
54	30-025-30714	VGWU # 73	2310' FNL 7 1980' FWL	F	36	17S	34E	LEA	OIL	PR	4002	6260	2/17/1990	1/29/1990	NEW MEXICO 'O' STAT 31
55	30-025-30968	VGWU # 74	2310' FNL & 1900' FEL	G	36	17S	34E	LEA	OIL	PS	4001	6300	2/15/1991	11/29/1990	NEW MEXICO 'O' STAT 32

56	30-025-30969	VGWU # 75	2310' FNL & 990' FEL	H	36	17S	34E	LEA	OIL	TA	3995	6300	3/16/1991	12/14/1990	NEW MEXICO 'O' STAT 33
57	30-025-33711	CVU 167H	2000' FNL & 2630' FEL	G	36	17S	34E	LEA	OIL	FL	3996	4850	1/21/1997	12/26/1996	Horizontal
58	30-025-33335	CVU 168H	2068' FNL & 1467' FWL	F	36	17S	34E	LEA	OIL	PS	3985	4850	5/23/1996	5/1/1996	Horizontal
59	30-025-35212	CVU 173H	2509' FNL & 660' FEL	H	36	17S	34E	LEA	INJ	ACTIVE	3988	5913	1/17/2001	11/22/2000	Horizontal
60	30-025-35213	CVU 241H	74 FNL & 1940' FEL	B	36	17S	34E	LEA	INJ	ACTIVE	3997	5664	3/27/2001	2/11/2001	Horizontal
61	30-025-30103	CVU 253H	675' FNL & 1330' FWL	C	36	17S	34E	LEA	OIL	SI	4006	4720	3/13/1988	2/14/1988	Horizontal
62	30-025-30022	CVU 266H	1970' FNL 7 1310' FEL	H	36	17S	34E	LEA	OIL	PS	3993	4710	9/28/1987	8/31/1987	Horizontal
63	30-025-02230	CVU 51H	660' FNL & 660' FEL	A	36	17S	34E	LEA	OIL	PS	3991	6606	12/20/2005	11/1/2005	Horizontal
64	30-025-34945	STATE 'BA' 15H	612' FNL & 2135' FWL	C	36	17S	34E	LEA	OIL	PR	4000	10500	7/16/2000	4/21/2000	Horizontal
65	30-025-31817	VGWU 55H	146' FSL & 128' FEL	P	25	17S	34E	LEA	OIL	PR	3990	9861	9/3/2006	7/18/2006	Horizontal
66	30-025-30971	VGWU 59H	990' FNL & 1880' FWL	C	36	17S	34E	LEA	OIL	PS	4003	6270	4/9/1991	10/25/1990	Horizontal
67	30-025-30716	VGWU 60H	990' FNL & 2308' FEL	B	36	17S	34E	LEA	OIL	PR	3999	6627	1/15/1990	12/10/1989	Horizontal
68	30-025-30779	VGWU 72H	2008' FNL & 990' FWL	E	36	17S	34E	LEA	OIL	PS	4005	6250	2/17/1990	1/9/1990	Horizontal
69	30-025-20781	VGWU 83H	1980' FSL & 1785' FEL	J	35	17S	34E	LEA	OIL	PR	4013	8073	5/2/2004	3/15/2004	Horizontal
70	30-025-20236	VGW 85H	2180' FSL & 660' FWL	L	36	17S	34E	LEA	OIL	PS	3993	7062	6/9/2001	4/23/2001	Horizontal
71	30-025-20179	VGWU 86H	2310' FSL & 2310' FWL	K	36	17S	34E	LEA	OIL	PS	4009- DF	6850	7/19/1963	6/4/1963	Horizontal
72	30-025-30206	VGWU 88H	1653' FSL & 2309' FEL	J	36	17S	34E	LEA	OIL	PS	3994	6275	3/25/1988	2/14/1988	Horizontal
73	30-025-33429	VGWU 89H	2000' FSL & 1070' FEL	I	36	17S	34E	LEA	OIL	PS	3988	6300	6/24/1996	6/5/1996	Horizontal
74	30-025-31707	VGWU WI-78H	2491' FNL & 127' FWL	E	36	17S	34E	LEA	INJ	TA	4005	6250	11/14/1992	10/27/1992	Horizontal

75	30-025-31810	VGWU WI-93H	1723' FSL & 1575' FEL	K	36	17S	34E	LEA			ACTIVE	3998	6268	2/8/1993	1/16/1993	Horizontal
76	30-025-31841	VWGU WI-94	1525' FSL & 2591' FEL	J	36	17S	34E	LEA			ACTIVE	3994	6280	2/17/1993	1/27/1993	
77	30-025-31132	VGWU 114H	280 FNL & 2080' FEL	B	1	18S	34E	LEA			PS	3993	7471	2/24/1998	11/15/1997	Horizontal
78	30-025-25704	CVU WI-41	60' FNL & 2552' FWL	C	36	17S	34E	LEA			P&A	4001	4800	2/4/1978	12/12/1977	WBD Included
79	30-025-02236	CVU 66	1980' FNL & 660' FEL	H	36	17S	34E	LEA			P&A	4009'- DF	4750	5/19/1938	4/12/1938	WBD Included
80	30-025-02235	CVU 69	1980' FNL & 660' FWL	E	36	17S	34E	LEA			P&A	4015'- DF	4720	4/18/1938	3/17/1938	WBD Included
81	30-025-25697	CVU 72	2630' FNL & 1330' FEL	G	36	17S	34E	LEA			P&A	3991	4812	1/25/1978	11/10/1977	WBD Included
82	30-025-02243	CVU 91	660' FSL & 198' FWL	N	36	17S	34E	LEA			P&A	4006'- DF	4710	11/4/1938	10/3/1938	WBD Included
83	30-025-30713	NEW MEXICO 'O' STAT 30	1980' FNL 7 990' FWL	E	36	17S	34E	LEA			P&A	4005	1460	1/9/1990	12/30/1989	
84	30-025-20872	STATE CC UNIT 1	1980' FSL 7 860' FWL	L	36	17S	34E	LEA			P&A	4003- KB	12080	8/12/1964	4/26/1964	
85	30-025-20197	STATE N MEX O NCT-1 21	1900' FNL & 1900' FEL	G	36	17S	34E	LEA			P&A	4007- DF	6850	10/26/1963	9/27/1963	
86	30-025-20418	STATE OF N ME NCT-1 12	1800' FSL & 1800' FEL	J	36	17S	34E	LEA			P&A	3991	6920	7/5/1963	12/14/1962	
87	30-025-20008	STATE OF N ME NCT-1 14	1874' FSL & 2086' FEL	J	36	17S	34E	LEA			P&A	3992	12154	7/26/1963	2/11/1963	
88	30-025-20125	STATE OF N ME NCT-1 17	760' FSL & 2080' FWL	N	36	17S	34E	LEA			P&A	3997	12082	6/22/1963	3/14/1963	
89	30-025-20274	STATE OF N ME NCT-1 18	1880' FNL & 560' FEL	H	36	17S	34E	LEA			P&A	3989	11510	10/9/1963	5/9/1963	
90	30-025-20203	STATE OF N ME NCT-1 19	1980' FNL & 2179' FWL	F	36	17S	34E	LEA			P&A	4002	6850	10/19/1963	8/16/1963	
91	30-025-20111	STATE OF N ME NCT-1 20	1980' FWL & 467' FWL	E	36	17S	34E	LEA			P&A	4016- DF	6825	9/11/1963	7/11/1963	
92	30-025-02228	STATE VB 1	1980' FSL & 1980' FWL	K	36	17S	34E	LEA			P&A		2034	3/12/1938	2/26/1938	
93	30-025-20237	VGWU 101	600' FSL & 1900' FEL	O	36	17S	34E	LEA			P&A	3990	6800	12/21/1963	10/31/1963	

94	30-025-20046	VGWU # 130	519' FSL & 1839' FWL	N	36	17S	34E	LEA	OIL	P&A	3997	6853	2/18/1963	1/16/1963	WBD Included
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**CURRENT
WELLBORE DIAGRAM**

CVU 41

Created: 11/19/2007 By: NC
 Updated: 8/30/2011 By: CHAY
 Lease: Central Vacuum Unit Well No.: 41
 Surface Location: 60 FNL 2552 FWL Unit Ltr: C
 Bottomhole Location: Unit Ltr:
 County: Lea St: NM St Lease: B-1565
 Current Status: P&A'd 5/7/2001 Elevation: 4001 GR
 Directions to Wellsite:

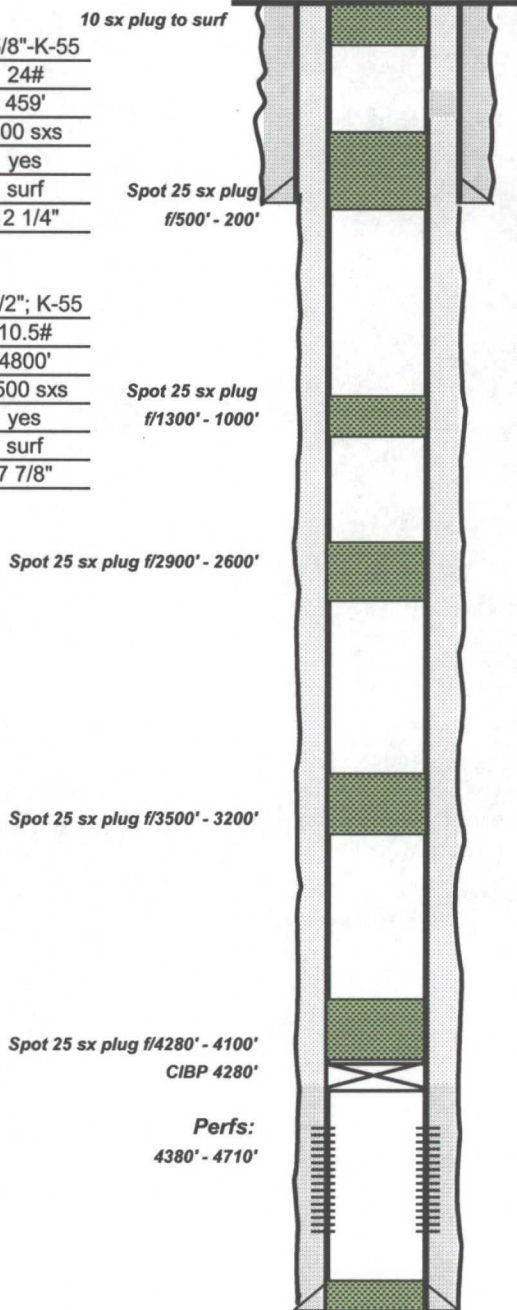
Field: Vacuum Grayburg San Andres
 Sec: 36 TSHP/Range: 17S 34E
 Sec: TSHP/Range:
 API: 30-025-25704 Cost Center:
 CHVNO: EP8744 TEPI:
 MVP:

Surface Csg.

Size: 8 5/8"-K-55
 Wt.: 24#
 Set @: 459'
 Sxs cmt: 500 sxs
 Circ: yes
 TOC: surf
 Hole Size: 12 1/4"

Production Csg.

Size: 4-1/2"; K-55
 Wt.: 10.5#
 Set @: 4800'
 Sxs Cmt: 2500 sxs
 Circ: yes
 TOC: surf
 Hole Size: 7 7/8"



KB: 4013
 DF:
 GL: 4001
 Original Spud Date: 12/12/1977
 Original Compl. Date: 2/4/1978

Well History

Initial Completion: Perfs: 4380' - 4710'. Trt w/3100 gals 15% NE, 140# rock Salt & 60# Benzoic flks. Drld as a Wtr Inj. well, began Inj. 12-11-78.

10-3-94: Acdz perfs w/3840' gals 20% HCL, RTI.

12/98 Parted casing.

5/07/01 P&A'd

Perforation detail:

4380-4710'

4380,98, 4408,19,32,42,52,4513,25,35,56,66,78,89,
 4600,12,
 30,40,50,60,74,86,98, 4710

PBTD: 4779'
 TD: 4800'

Remarks:

**CURRENT
WELLBORE DIAGRAM**

Created: 1/15/2003 By: SMG
 Updated: 8/31/2011 By: chay
 Lease: Central Vacuum Unit
 Surface Location: 1980' FNL & 660' FEL
 Bottomhole Location:
 County: Lea St: NM
 Current Status: P&A'd 10/17/2001
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 66
 Unit Ltr: H
 Unit Ltr:
 St Lease: B-155
 Elevation: 4000' GL

Field: Vacuum Grayburg San Andres
 Sec: 36 TSHP/Range: 17S-34E
 Sec: TSHP/Range:
 API: 30-025-02236 Cost Center:
 TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 10 3/4"
 Wt.: 32.75#, LW
 Set @: 258'
 Sxs cmt: 200 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 12 1/4"

Intermediate Csg.

Size: 7 5/8"
 Wt.: 26.40#, LW
 Set @: 1536'
 Sxs Cmt: 200 sxs
 Circ: Yes
 TOC: 118', 60% FILL
 Hole Size: 9 7/8"

Production Csg.

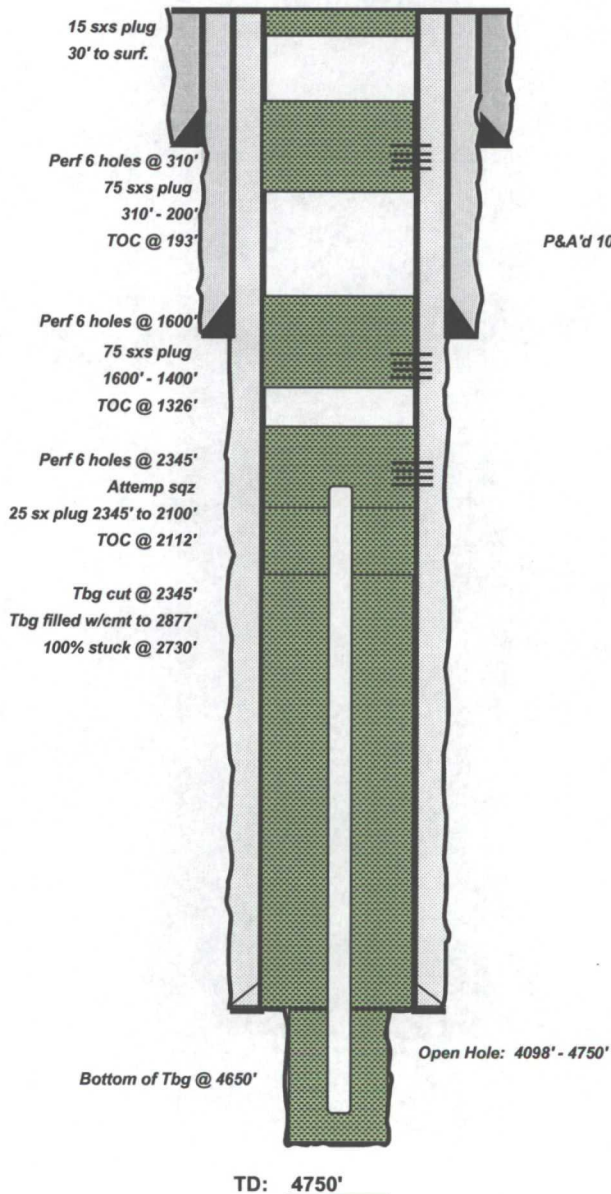
Size: 5 1/2"
 Wt.: 17#, SMLS
 Set @: 4098'
 Sxs Cmt: 250 sxs
 Circ: Yes
 TOC: Surface
 Hole Size: 6 3/4"

Open Hole

Hole Size: 6 3/4" & 4 3/4"
 Depth: 4098'-4728'

TD: 4750'

Well Plugged and Abandoned as of 10/17/01



KB: _____
 DF: 4009'
 GL: 4000'
 Original Spud Date: 4/12/1938
 Original Compl. Date: 5/14/1938

Remarks: _____

**CURRENT
WELLBORE DIAGRAM**

Created:	8/2/2007	By	HLH	Field:	Vacuum Grayburg San Andres
Updated:	8/30/2011	update	By Chay	Sec:	36
Lease:	Central Vacuum Unit	Well No.:	91	TSHP/Range:	17S 34E
Surface Location:	660' FSL & 1980' FWL	Unit Ltr:	N	Sec:	
Bottomhole Location:		Unit Ltr:		API:	30-025-02243
County:	Lea	St:	NM	St Lease:	B-155
Current Status:	P&A'd 8/9/91	Elevation:	3991'	CHVNO:	FA3404
Directions to Wellsite:				Cost Center:	
				TEPI:	
				MVP:	

Surface Csg.

Size: 7-5/8"
Wt.: 24.4#
Set @: 1542'
Sxs cmt: yes
Circ:
TOC: surface
Hole Size: 9 5/8"

Production Csg.

Size: 5-1/2"
Wt.: 17#
Set @: 4070'
Sxs Cmt: yes
Circ: 800
TOC: surface
Hole Size: 6 3/4"

Perfs Open Hole

4110'-4710'
4 3/4"

1/28/87 - CIBP @ 4013'
Top w/25 sxs

Present TD:

Original TD:

Remarks:

0' to 2400' cmt Plug
w/800 sxs

0' to 1900' cmt Sqz
w/950 sxs

2617' - 2817'
Top w/20 sxs

3250' - 4013'
Top w/25 sxs

Bar Fish 4108' - 4325', wrapped w/cable

4-3/4 Open Hole
4070' to 4710'

PBTD:
TD: 4710'

KB:
DF: 4006'
GL: 3991'

Original Spud Date: 10/2/1938
Original Compl. Date: 11/2/1938

Well History

10/84: AC 12M gals+RS
7/86: Unsuccessful fish job & csg rpr. Partial recovery of fish.
leak 20BPH out annulus, stuck tbq & sub leak 1873-1900', perf 1872/250sx+250sx+250sx
1/87: Conv to Monitor salt section well
8/91: PA'd well, as shown.
leak 1004-2023' sq 1000sx

**CURRENT
WELLBORE DIAGRAM**

Created: 3/26/2003 By: SMG
 Updated: 7/31/2007 By: HLH
 Lease: Central Vacuum Unit
 Surface Location: 1980' FNL & 660' FWL
 Bottomhole Location: Same
 County: Lea St: NM
 Current Status: Plugged & Abandoned
 Directions to Wellsite: Buckeye, New Mexico

Well No.: 69
 Unit Ltr: E
 Unit Ltr: B-155
 St Lease: 4015' DF
 Elevation:

Field: Vacuum Grayburg San Andres
 Sec: 36 TSHP/Range: 17S-34E
 Sec: TSHP/Range:
 API: 30-025-02235
 Cost Center:
 TEPI: BCT493000
 MVP: BCT494500

Surface Csg.

Size: 10 3/4"
 Wt.: 40.5#, LW
 Set @: 249'
 Sxs cmt: 175
 Circ: Yes, 236 sxs
 TOC: Surface
 Hole Size: 12 1/4"

cmt spotted surface to 124'

KB:
 DF: 4015'
 GL: 4006'
 Original Spud Date: 3/17/1938
 Original Compl. Date: 4/18/1938

Intermediate Csg.

Size: 7 5/8"
 Wt.: 26.4#, LW
 Set @: 1561'
 Sxs Cmt: 200
 Circ: Yes, 1558 sxs
 TOC: 484'
 Hole Size: 9 7/8"

25 sxs cmt spotted
 from 1433'-1650'

Tubing Detail

# Jts.	Size	Date:	Footage
	2 7/8" J55 bare cl. 'B'		
	2 7/8" J55 Marker Sub		
	2 7/8" J55 bare cl. 'B'		
	Baker Type TAC		
	2 7/8" TK-99		
	2 7/8" SN'		
0	Pump Intake		0.00
	EOT		0.00

Production Csg.

Size: 5 1/2"
 Wt.: 17#, smls
 Set @: 4088'
 Sxs Cmt: 230
 Circ: Yes, 4091 sxs
 TOC: 2250'
 Hole Size: 6 3/4"

cement retainer @ 2570'
 4 sxs cmt on top
 squeezed parted csg w/100 sxs
 25 sxs cmt plug 2626'-2953'

Rod Detail

# Rods	Size	Date:	Footage
			0.00

Open Hole:

Hole Size: 4.75"
 Depth: 4008'-4350'

Open Hole:

Hole Size: 6.25"
 Depth: 4350'-4720'

25 sxs cmt plug 2907'-4052'
 RBP@4052'

Pump Detail

Barrel:
 Plunger:
 Pump: Total Fit
 Seats:

Date:

PBTD (CIBP): 4720'

TD: 4742'

TD: 4742'

Well History:

2/1981 - Perf 1600', sq 500sx; 3/1984 - AC OH 4083-4720' w/10M; 6/1985 - AC 12M & am bicarb job; 11/1992 - am bicarb, AC 12M, ScSq, after 96° 1325' 58°, before 44° 1015' 28°
 6/1994 - am bicarb, AC 5400 gals, ScSq 110° 1214' 45°; 5/2000 - parted csg 2630', bad 1605'; 9/2000 - PA'd

CVU 72

Created:	9/1/2006	By: TKMO	Field:	Central Vacuum Unit
Updated:	8/30/2011	By: CHAY	Sec: 36	TSHP/Range: 17S-34E
Lease:	Central Vacuum Unit	Well No.: 72	Sec:	TSHP/Range:
Surface Location:	2630' FNL & 1330' FWL	Unit Ltr: G	API: 30-025-25697	Cost Center:
Bottomhole Location:	Same	Unit Ltr:		TEPI: UCT493000
County:	Lea St: NM	St Lease: B-1565		MVP: BCT494500
Current Status:	P&A'd Injector	Elevation: 3991' GR		
Directions to Wellsite:	Buckeye, New Mexico			

Surface Csg.

Size: 8 5/8" inches
 Wt.: 24
 Set @: 350 ft
 Sxs cmt: 350

Circ: Yes
 TOC: Surface
 Hole Size: 11" Inches

Production Casing

Size: 4 1/2 inches
 Wt.: 10.5
 Set @: 4,812 ft
 Sxs Cmt: 2300

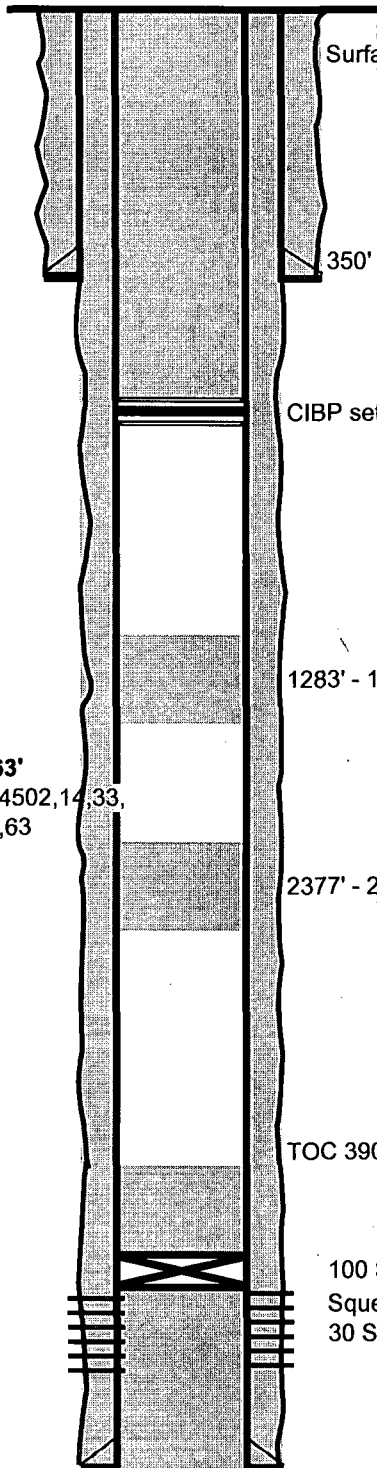
Circ: Yes
 TOC: Surface
 Hole Size: 7-7/8" Inches

TD: 4,812

Perforations:

Grayburg San Andres

1/25/78 (initial) 4373' - 4663'
4373,84,4406,26,50,67,82,4502,14,33,
45,60,76,86,4603,31,43,53,63



Surface - 656' Spot 50 SX CMT

KB: 4003'
 DF: 4002'
 GL: 3991'

Original Spud Date: 11/10/1977
 Original Compl. Date: 1/25/1978

350'

CIBP set @ 656'

1283' - 1658' Spot 25 SX CL C Neat CMT

2377' - 2752' Spot 25 SX CL C Neat CMT

TOC 3905'

100 SX CL C Neat;
 Squeeze to 3000 psi;
 30 SX in formation; 70 sx left in CSG

TD: 4,812
 PBTD: 4,718

**CURRENT
WELLBORE DIAGRAM**

P&A 'd 12-11-2001

Vacuum Glorieta West Unit #101

LOCATION

State	New Mexico
County	Lea
Surface Location	600 FSL 1900 FEL
	Sec 36, R-34E, T-17S
	Ltr O

CASING DETAIL

Surface Csg.	
Size:	11/3/2004
Wt.:	11-3/4" 42# new 8 rd
Set @:	1520'
Sxs cmt:	800sx class "C" 4% gel & 200 C neat
TOC:	Surface
Hole Size:	15"

Production Csg.

Size:	8-5/8"
Wt.:	24# & 32# J-55
Set @:	3300'
Sxs Cmt:	600sx class C
TOC:	2300' calc 33%
Hole Size:	10-5/8"

TUBING DETAIL

Sxs Cement:	1000sx
TOC:	3300' by CBL

Abo String

Size	2-7/8"
Wt	6.4# 8R
Set @:	11468'
PBTD:	11436'

Penn String

Size	2-7/8"
Wt	6.4# 8R
Set @:	10176'
PBTD:	10145'

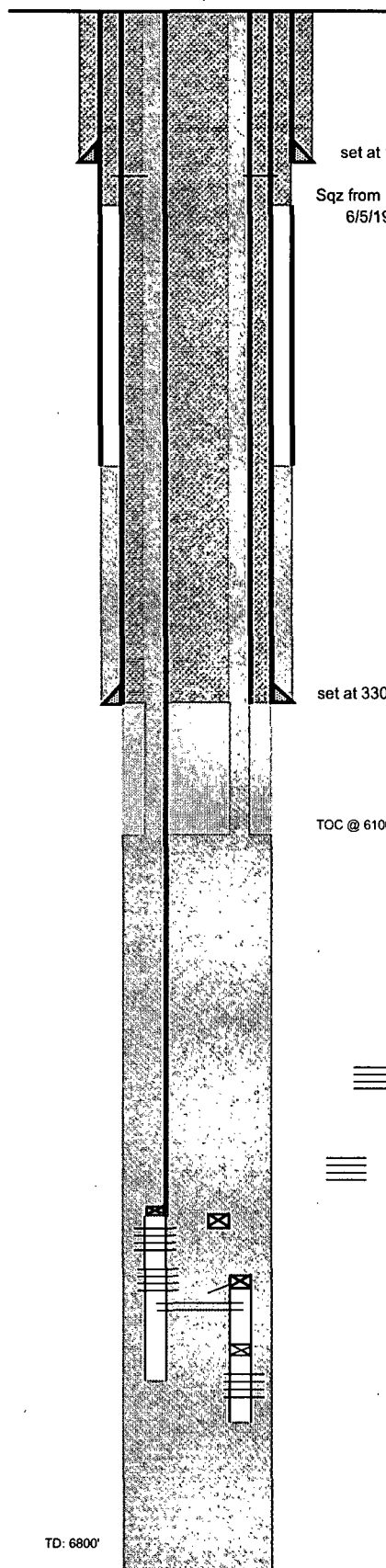
Wolfcamp String

Size	2-7/8"
Wt	6.4# 8R
Set @:	10150'
PBTD:	10119'

WELL ID INFORMATION

Lease Name	Vacuum Glorieta West Unit #101
Field	Vacuum
Reservoir	Glorieta, Blinebry
Ref #	FB3723
API #	30-025-20237

KB:	
DF:	4001'
GL:	3987'
Spud Date:	10/31/1963
Compl. Date:	11/21/1963



Perforations

Glorieta: 5926, 27, 28, 39, 40, 41
w/1 JSPF
later added 5966, 67, 75, 76, 77, 81, 93, 96, 99
6003, 19, 20, 24, 27, 31, 32, 33, 38, 66, 69, 75, 79, 6104

Blinebry: 6722, 23, 33, 34, 48, 49
w/ 1 JSPF

Comminale: 6140-6150

UPDATED BY: Mike Reeves
DATE: 12/7/2004

VGWU 80 (WIW)
API No. 3002531709

Present

Well Location

2517 FNL & 2442 FEL
Unit G,
Sec 26, T17S, R34E

8-5/8" 24# CSG set @ 1550'

11/18/92- Spud

12/17/95- Pumped 2003 bbls polymer gel

6/20/1997- Sq 5959-6159 w/ 75 sxs H cmt. DO to 6187', spot 75 sx & DO to 6070', Perf 5930-68, 5980-6020, Ac w/ 4000 glas + 3500# RS, 3.5 BPM, Inj 1097/26#

5/20/1999- Identified csg leak 5764-5795, moved up packer to 5758'

4/6/05- Gray Wireline tag @ 5764'

5/9/05- CO w/ 1 1/4" CT w/ SH Tool to 6013', 1 BPM, circ pressure 4800#, wellhead pressure 4#, wtr used 255 bbls (attempting to CO to get profile)

6/05- Gray Wireline tagged @ 5790' while attempting to capture profile.

8/06- CO fill to 5971'. Tested cgs above 5719'-ok. Spotted snd to 5901'. Set cmt retainer, could not pump thru. DO retainer. CO to 5930'. Milled 5764'-5795'. Set cmt retainer 5672', sq 150 sxs, cmt w/ 150 sxs. DO cmt, CO 5971'. Set 2 3/8 IPC tbq w/ Arrow set pkr 5743'

10/06 TA. Approval expires 10/17/11.

DV tool 5007

CIBP @ 5730' w/ 35' cmt on top
TOC @ 5695'

Casing Leak problems 5764'-5795'
San Andres zone

Top of Glorieta @ 5832

Glorieta Marker @ 5916

Top of Paddock @ 5959

Perfs: 5930-68, 5980-6020
(2 JSPF, 156 holes)

Squeezed perfs 5959-67, 5979-6023, 6118-6159'

Top of Lower Paddock @ 6122

5-1/2" CSG set @ 6275'

PBTD = 6070
TD = 6275'

**CURRENT
WELLBORE DIAGRAM**

Created: 7/11/2011 By: Chay
 Updated: By: _____
 Lease: **Central Vacuum Unit**
 Surface Location: 2571' FNL & 2442' FEL
 Bottomhole Location: _____
 County: Lea St: NM
 Current Status: _____
 Directions: _____

Well No: 271
 Unit Ltr: G
 Unit Ltr: _____
 St Lease: _____

Formerly: VGWU # 80 WIW ✓
 Field: Grayburg San Andres
 Sec: 36 TSHP/Range: T17S-R34E
 Sec: TSHP/Range: _____
 API: 30-025-31709 Cost Center: _____
 Chevno: QU2630 Lease: _____

Surface Casing

Size: 8-5/8" WC-50
 Wt.: 24#
 Set @: 1500'
 Sxs cmt: 650 sx
 Circ: 125 sxs
 TOC: Surface
 Hole Size: 11"

Production Casing

Size: 5-1/2" WC-50 & J-55
 Wt.: 17# & 15.5#
 Set To: 6275'
 DV Tool: 5007'
 Sxs Cmt: 1530 sx
 Circ: some Flocele, Did not circ any cmt No
 TOC: Surf, by calc
 Hole Size: 7-7/8"

Tubing details

Size: 2-3/8" IPC
 depth: _____

PBTD: 5935

TD: 6275'
 Total Drill Depth(Loggers TD): _____

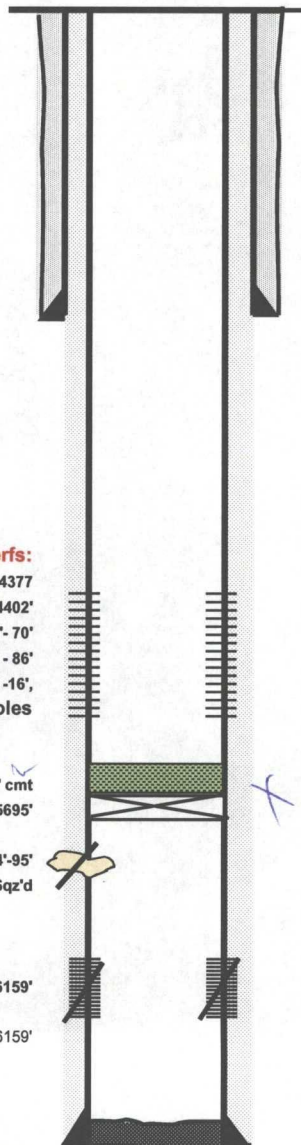
Active perms (gross):

Tops from log (per PI)

T/Glorieta: 5884'
 T/Paddock: 5970'
 T/San Andres D
 T/Abo Back Reef

Perforation Details:

Added: Perfs: 4354' - 4616', total 96 holes; 2/JSPF, 120 deg Ph
 Added: Perfs: _____



Proposed new perms:

Perfs: 4354'-4358', 4373'=4377
 Perfs: 4380'- 4384', 4398'- 4402'
 Perfs: 4410' - 14', 4428' - 32', 4466' - 70'
 Perfs: 4550' - 54', 4562' - 66', 4582' - 86'
 Perfs: 4592' - 96', 4612' - 16',
 total 96 holes

CIBP @ 5730' w/35' cmt
 TOC @ 5695'

San Andres csg lk 5764'-95'
 Cmt Sqz'd

Perfs: 5959' - 6159'

Squeezed perms 5959-67, 5979-6023, 6118-6159'

KB: 4011'
 DF: _____
 GL: 3997'
 Spud Date: 11/18/1992
 Completion Date: 12/6/1992

Well History summary:

11/18/92- Spud
 12/17/95- Pumped 2003 bbls polymer gel
 6/20/1997- Sq 5959-6159 w/ 75 sxs H cmt. DO to 6187', spot 75 sx & DO to 6070', Perf 5930-68, 5980-6020, Ac w/ 4000 glas + 3500# RS, 3.5 BPM, Inj 1097/26#
 5/20/1999- Identified csg leak 5764-5795, moved up packer to 5758'.
 4/6/05- Gray Wireline tag @ 5764'
 5/9/05- CO w/ 1 1/4" CT w/ SH Tool to 6013', 1 BPM, circ pressure 4800#, wellhead pressure 4#, wtr used 255 bbls (attempting to CO to get profile)
 6/05- Gray Wireline tagged @ 5790' while attempting to capture profile.
 8/06- CO fill to 5971'. Tested cgs above 5719'-ok. Spotted snd to 5901'. Set cmt retainer, could not pump thru. DO retainer. CO to 5930'. Milled 5764'-5795'. Set cmt retainer 5672', sq 150 sxs, cmt w/ 150 sxs. DO cmt, CO 5971'. Set 2 3/8 IPC tbq w/ Arrow set pkr 5743'
 10/06 Set CIBP @ 5730', Top w/35' cmt. TA'd. Approval expires 10/17/11.

8/2011- Pending approval from the OCD, this well will be converted f/VGWU #80 to CVU #271.
 CIBP @ 5730', top w/35' cmt.
 New Perfs: 4616' - 4354' Total 96 holes, for conversion.

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

State of New Mexico
Geology, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

DISTRICT I

P.O. Box 1980, Hobbs, NM 88240

DISTRICT II

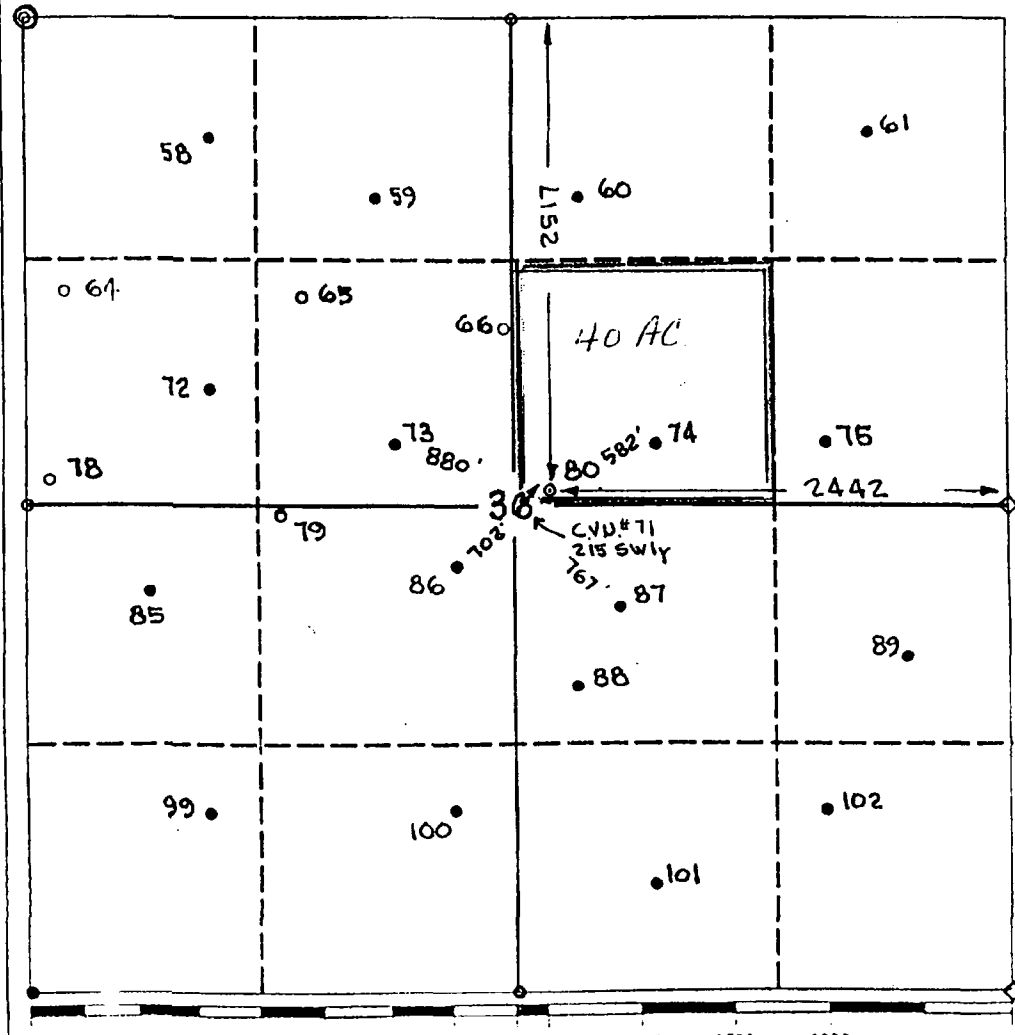
P.O. Drawer DD, Artesia, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

Operator TEXACO EXPL. AND PROD. Inc.			Lease VACUUM GLORIETA WEST UNIT		Well No. 80
Unit Letter G	Section 36	Township 17-South	Range 34-East	County Lea	
Actual Footage Location of Well: 2517 feet from the North line and 2442 feet from the East line					
Ground level Elev. 3997	Producing Formation Glorieta; Paddock		Pool Vacuum 3 Glorieta Pool	Dedicated Acreage: 40 Acres	
1. Outline the acreage dedicated to the subject well by colored pencil or hatchure marks on the plat below. 2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty). 3. If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communization, unitization, force-pooling, etc.? ☒ Yes ☐ No If answer is "yes" type of consolidation <u>Unitization</u> If answer is "no" list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) No allowable will be assigned to the well until all interests have been consolidated (by communization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interest, has been approved by the Division.					
				OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature <i>Royce D. Mariott</i> Printed Name Royce D. Mariott Position Division Surveyor Company Texaco Expl. & Prod. Date September 2, 1992 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my knowledge and belief. Date Surveyed August 27, 1992 Signature & Seal of Professional Surveyor <i>John S. Piper</i> Certificate No. 254 John S. Piper	

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

District II
811 South First, Artesia, NM 88210

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

District IV
2040 South Pacheco, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised March 17, 1999

OIL CONSERVATION DIVISION

2040 South Pacheco
Santa Fe, NM 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-31709	² Pool Code 62180	³ Pool Name Vacuum Grayburg San Andres
⁴ Property Code	⁵ Property Name Central Vacuum Unit	⁶ Well Number 271
⁷ OGRID No. 4323	⁸ Operator Name Chevron U.S.A., Inc.	⁹ Elevation 3459' (GL)

¹⁰ Surface Location

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
G	36	17S	34E		2571'	North	2442'	East	Lea

¹¹ Bottom Hole Location If Different From Surface

UL or Lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
¹² Dedicated Acres 40	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.						

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

	¹⁷ OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief. Signature Carolyn Haynie Printed Name PE Technical Assistant Date 8/17/2011
	¹⁸ SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. Signature and Seal of Professional Surveyor:
	Certificate Number

CVU #271 (Previously VGWU 80)

Job: Perf and Acidize

API No. 30-025-31709

Lea County, NM

TA'd injector

✓ TW

Workover Procedure:

1. Open well and bleed pressure from casing prior to MIRU pulling unit. Note that well should be dead due to CIBP set @ 5730'. Open surface valve & record pressure. Bleed pressure from surface & load with water.
2. MIRU PU & auxiliary equipment
3. Bleed pressure from well as necessary. Note that well should be dead due to CIBP set @ 5730'. Check pressure on surface valves and monitor throughout job.
4. ND wellhead.
5. NU 5M hydraulic BOP w/ blind rams in bottom & 2 7/8" pipe rams in top. PU 5-1/2" packer & set at 30'. Test pipe rams to 250 low & 1000 psi high for 5 minutes. (Surrounding injectors are actively injecting with pressures ranging from vacuum to 1800 psi). LD packer and test joint.
6. TIH with 4-3/4" MT bit on 2-7/8" EUE L-80 6.5# workstring. Tag cement on top of CIBP @ +/- 5695'. Note tag depth in Wellview.
7. Circulate hole clean.
8. TOH standing back workstring & LD bit
9. Load hole & pressure test casing against blind rams down to CIBP & cmt to 550 psi. Note test details in WellView as a potential leak isolation & squeeze may be required above 5730'. If pressure falls below 500 psi, TIH with 5 1/2" packer & RBP on 2-7/8" workstring and set RBP +/- 25' above previous tag depth. Pressure test RBP to 750 psi & Isolate casing leak interval. Establish leak injection rate, pressure, and pressure bleed-off response. Notify remedial engineer for cement squeeze design & squeeze leak.

Note that a known leak interval was encountered from 5764' – 5795' (San Andres) during a previous workover – this could be a communication source.

10. RU wire line unit & lubricator. Correlate depth with Halliburton's Spectral Density Dual Spaced Neutron Log dated 11/27/92. Perforate the 5 1/2" casing w/ 2 JSPF, 120 degree phasing, 4" EHC Predator, 0.47" EHD, 49' TTP Baker Hughes charges as follows:
4354'-4358', 4373'-4377', 4380'-4384', 4398'-4402', 4410'-4414', 4428'-4432', 4466'-4470', 4550'-4554', 4562'-4566', 4582'-4586', 4592'-4596', 4612'-4616' (96 total holes).
Ensure that all shots fired.
11. TIH w/ 5 1/2" treating packer on 2-7/8" workstring hydrotesting to 5000 psi below slips. Set packer @ +/- 4300'. Load casing and test to 500 psi.
12. MIRU Acid Unit. Acidize perms w/ 5,000 gallons 15% NEFE HCL. Divert using 50% excess bio-ball sealers spread evenly throughout the job. Pump acid at 8 BPM.
Max Pressure = 4800 psi. Displace with FW to bottom perf @ 4616'. Apply 250 psi to backside and monitor throughout acid job to ensure packer integrity.
13. Shut-in for 1 hour to allow acid to spend and allow the bio-balls to break down.
14. Open well and attempt to surge any leftover balls off seat. If well will flow, flow back load. Record stabilized fluid level, fluid entry rate, monitor returns for traces of oil and notify Production Engineer. If well will not flow, release packer & run past new perforations to knock any balls off seat.
15. TOH LD treating packer & workstring
16. TIH w/ 5-1/2" nickel plated internally plastic coated injection packer w/ 1.50" ID 'F' stainless steel profile nipple on & on/off tool on new 2-3/8" J-55, EUE 8RD, 4.7# Fiberlined injection tubing. Set packer @ +/- 4300' per the production engineer.
17. Release from on/off tool & circulate packer fluid.
18. Latch back on to packer & perform preliminary MIT - Chart and test casing to 550 psi for 30 minutes.
19. ND BOP
20. NU wellhead
21. Notify ALCR and OCD of intent to perform official MIT w/ 24 hrs notice. Chart and test to 500 psi for 30 minutes.
22. RDMO PU

23. Turn well over to production.

Contacts:

Nathaniel Brummert – Remedial Engineer (713-409-6170)

Carlos Valenzuela – ALCR (Cell: 575-390-9615)

Edgar Acero – Production Engineer (432-687-7343 / Cell: 432-230-0704)

Heath Lynch – Drilling Superintendant (281-685-6188)

Nick Moschetti - OS (432-257-6091)



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

September 6, 2011

CONVERT TO SALT WATER DISPOSAL
LEA COUNTY, NEW MEXICO

RE: Central Vacuum Unit # 271
Offset Operators:

For your information, as an offset operator, Chevron North America, as operator of the West Glorieta West Unit # 80, has filed an application with the New Mexico Oil Conservation Division and to convert the VGWU # 80 to Central Vacuum Unit 271, (API # 30-025-31709), in the Grayburg San Andres formation, to a Water Injection well, located: 2571' FNL & 2442' FEL, Unit Letter, G, Section 36; T17S, R34E, Lea County, New Mexico.

Attached is an OCD form C-108 and the information relative to the water injection conversion of the referenced well. A copy of the legal notice posted in the Hobbs News-Sun is included. The enclosed map highlights the location of the Central Vacuum Unit 271, in relation to your offset operations.

If additional information is required, please contact me at (432-687-7261), or the project engineer, Edgar Acero, at (432-687-7343).

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

Sincerely,

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

Carolyn Haynie
NM PE Technical Assistant

Enclosure

OFFSET OPERATORS

**MOBIL PRODUCING TX & NM INC.
ATTN: LAND DEPARTMENT
P.O. BOX 4707
HOUSTON, TX 77210-4707**

**XTO ENERGY INC.
ATTN: STEVEN COBB
810 HOUSTON STREET, STE 2000
FT. WORTH, TEXAS 76102**

**MARATHON OIL COMPANY
ATTN: ROBERT ANGEL
P.O. BOX 3487
HOUSTON, TEXAS 77253-3487**

**APACHE PERMIAN EXPLORATION
& PRODUCING LLC
2000 POST OAK BLVE, STE 100
HOUSTON, TX 77056**

**McGOWAN WORKING PARTNERS INC.
1837 CRANE RIDGE DRICE
JACKSON, MS 39216**

**QUANTUM RESOURCES MANAGEMENT LLC
1401 MCKINNEY STREET, STE 2400
HOUSTON, TX 77010**

**CONOCOPHILLIPS PETROLEUM CO.
ATTN: LAND DEPT.
P.O. BOX 2197
HOUSTON, TX 77251-2197**

SURFACE OWNERS:

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

**PIERCE TRUST
1717 JACKSON
PECOS, TX 79772**

NOTICE LIST

Prepared 8/05/2011 by Daniel Pequeno, Senior Land Representative

Injection Application of Chevron U.S.A. Inc. for Administrative Approval of an Injection Well Location for the Central Vacuum Unit:

Central Vacuum Unit Well No. 271 (API #30-025-31709)

2,517' FNL & 2,242' FEL

Section 36, T-17-S, R-34E, Unit Letter G

Lea County, New Mexico

Offset Operators & Lessees of Record, S/2NE/4 & SE/4 of Section 26, T-17-S, R-34-E, N.M.P.M.:

XTO Energy Inc.
Attn: Mr. Steven Cobb
810 Houston Street, Suite 2000
Fort Worth, Texas 76102

Mobil Producing Texas & New Mexico Inc.
Attn.: Land Department
P. O. Box 4707
Houston, Texas 77210-4707

Offset Operators & Lessees of Record, All of Section 25, T-17-S-R34-E, N.M.P.M.:

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

Mobil Producing Texas & New Mexico Inc.
Attn.: Land Department
P. O. Box 4707
Houston, Texas 77210-4707

Marathon Oil Company
Attn.: Mr. Robert Angel
P. O. Box 3487
Houston, Texas 77253-3487

Apache Permian Exploration and Production LLC
2000 Post Oak Boulevard, Suite 100
Houston, Texas 77056

Offset Operators & Lessees of Record, W/2 of Section 35, T-17-S-R34-E, N.M.P.M.:

McGowan Working Partners Incorporated
1837 Crane Ridge Drive
Jackson, MS 39216

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

Offset Operators & Lessees of Record, All of Section 36, T-17-S-R34-E, N.M.P.M.:

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

Quantum Resources Management LLC
1401 McKinney Street, Suite 2400
Houston, Texas 77010

Mobil Producing Texas & New Mexico Inc.
Attn.: Land Department
P. O. Box 4707
Houston, Texas 77210-4707

Offset Operators & Lessees of Record, All of Section 30, T-17-S-R35-E, N.M.P.M.:

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

ConocoPhillips Petroleum Company
Attn.: Land Department
P. O. Box 2197
Houston, Texas 77251-2197

Marathon Oil Company
P. O. Box 3128
Houston, Texas 77253

Apache Permian Exploration and Production LLC
2000 Post Oak Boulevard, Suite 100
Houston, Texas 77056

Offset Operators & Lessees of Record, All of Section 31, T-17-S-R35-E, N.M.P.M.:

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

ConocoPhillips Petroleum Company
Attn.: Land Department
P. O. Box 2197
Houston, Texas 77251-2197

Marathon Oil Company
P. O. Box 3128
Houston, Texas 77253

Mobil Producing Texas & New Mexico Inc.
P. O. Box 4707
Houston, Texas 77210-4707

Apache Permian Exploration and Production LLC
2000 Post Oak Boulevard, Suite 100
Houston, Texas 77056

Offset Operators & Lessees of Record, N/2 of Sections 1 & 2, T-18-S-R34-E, N.M.P.M.:

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

Offset Operators, Working Interest Owners, N/2NW/4 of Sections 6, T-18-S-R35-E, N.M.P.M.:

Marathon Oil Company
P. O. Box 3128
Houston, Texas 77253

Apache Permian Exploration and Production LLC
2000 Post Oak Boulevard, Suite 100
Houston, Texas 77056

Surface Owner for All Sections 25, 26, 35 & 36, All in T-17-S, R-34-E; All of Sections 30 & 31, T-17-S, R-35-E; N/2 of Section 1 & 2, T-18-S, R-34-E; and N/2NW/4 of Section 6, T-18-S, R-35-E, N.M.P.M.:

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

Pierce Trust
1717 Jackson
Pecos, Texas 79772



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

August 17, 2011

Hobbs News-Sun
201 N Thorp
P.O. BOX 850
Hobbs, NM 88240

Attention: Classified Department

Chevron North America, respectfully requests that you publish the attached notice in your newspaper, one time only, as soon as possible.

Please mail the invoice to the letterhead address, attention: Carolyn Haynie. Also, please attach a copy of the classified notice as run in your newspaper and an affidavit certifying the date and publication.

Your assistance in this matter will be greatly appreciated. Questions may be directed to Carolyn Haynie at 432-687-7261 or by email at chay@chevron.com.

Sincerely,

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

Carolyn Haynie
NM PE Technical Assistant
Attachment

LEGAL NOTICE

August 23, 2011

Notice is hereby given of the
application of

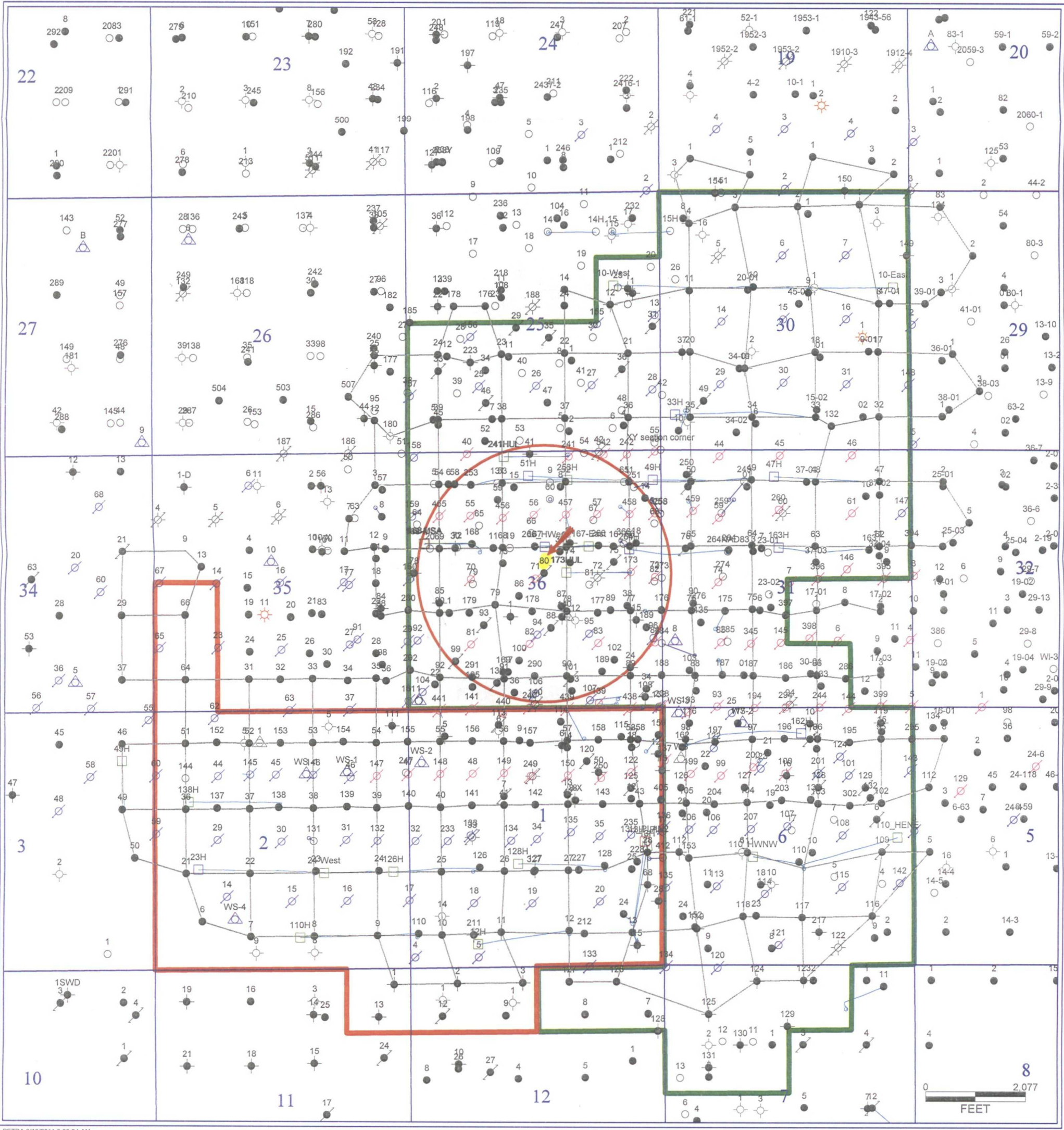
CHEVRON NORTH AMERICA,
15 Smith Road, Midland, TX 79705,
to the Oil Conservation of the State
of New Mexico, and the
Commissioner of Public Lands, State
of New Mexico for approval to
convert the Vacuum Glorieta West
Unit # 80 WIW to the Central
Vacuum Unit # 271 Water Injection
well.

The CVU # 271 is located 2517'
FNL & 2242' FEL, Unit Letter G,
Sec. 36, T17S, R34E, Lea County,
New Mexico.

The injection interval is in the
Grayburg San Andres formation
from 4354'-4616', thru perforations.
The maximum injection rate will be
3,000 BWPD, with a maximum
allowable amount of 1500 PSI. CO2
and produced gas injection will be an
expected maximum rate of 10
MMCF per day and an expected
maximum surface pressure of 1850
psi. Interested parties should file
objections or requests for hearing
with the Oil Conservation Division,
1220 South St. Francis Drive, Santa
Fe, New Mexico, 87505 within 15
days.

Inquiries regarding this application
should be directed to Chevron North
America, Attn: Edgar Acero, 15
Smith Rd., Midland TX 79705.

$$\frac{1850}{4354} = .425$$



PETRA 8/18/2011 9:33:34 AM

Chevron U.S.A. Inc.
Vacuum Glorieta West Unit # 80 WIW
To be converted to

Central Vacuum Unit # 271 WIW
API # 30-025-31709
Unit Letter: G
Section: 36
Township: 17S
Range: 34E
Lea County, NM

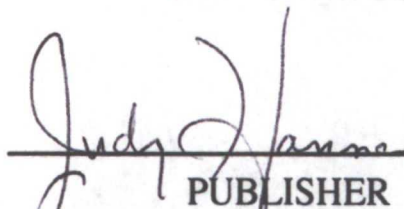
State of New Mexico,
County of Lea.

I, JUDY HANNA
PUBLISHER

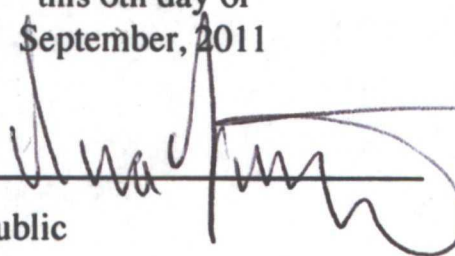
of the Hobbs News-Sun, a
newspaper published at Hobbs, New
Mexico, do solemnly swear that the
clipping attached hereto was
published in the regular and entire
issue of said newspaper, and not a
supplement thereof for a period

of 1 issue(s).

Beginning with the issue dated
September 02, 2011
and ending with the issue dated
September 02, 2011


PUBLISHER

Sworn and subscribed to before me
this 6th day of
September, 2011


Notary Public

My commission expires

February 09, 2013

(Seal)



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

RECEIVED OCD

2011 SEP 22 P 11: 54

LEGAL NOTICE
SEPTEMBER 2, 2011

Notice is hereby given of the application of CHEVRON NORTH AMERICA 15 Smith Road, Midland, TX 79705, to the Oil Conservation of the State of New Mexico, and the Commissioner of Public Lands, State of New Mexico, for approval to convert the Vacuum Glorieta West Unit # 80 WIW to the Central Vacuum Unit #271 Water Injection well.

The CVU # 271 is located 2517' FNL & 2242' FEL, Unit Letter G, Sec. 36, T17S, R31E, Lea County, New Mexico.

The injection interval is in the Vacuum Grayburg San Andres formation from 4354'-4616', thru perforations. The maximum injection rate will be 3,000 BWPD, with a maximum allowable amount of 1500 PSI. CO2 and produced gas injection will be an expected maximum rate of 10 MMCF per day and an expected maximum surface pressure of 1850 psi. Interested parties should file objections or requests for hearing with the Oil Conservation Division, 1220 South St. Francis Drive, Santa Fe, New Mexico, 87505 within 15 days.

Inquiries regarding this application should be directed to Chevron North America, Attn: Edgar Acero, 15 Smith Rd., Midland TX 79705
#26842

01102480

00079297

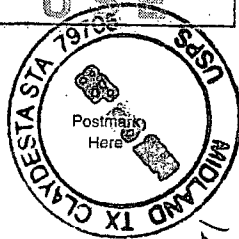
CHEVRON USA INC.
15 SMITH ROAD
MIDLAND, TX 79705

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Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



127
CVR

Sent To **APACHE PERMIAN EXPLORATION & PRODUCTION LLC**
 Street, Apt. No., or PO Box No. **2000 Post Oak Blvd, Ste 100**
 City, State, ZIP+4 **Houston, TX 77056**

PS Form 3800, A

SENDER: COMPLETE THIS SECTION

Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.

Article Addressed to:

APACHE PERMIAN EXPLORATION PRODUCTION LLC
100 Post Oak Blvd, Ste 100
Houston, TX 77056

COMPLETE THIS SECTION ON DELIVERY

A. Signature ☐ Agent
 X *Michael Legend* ☐ Addressee
 B. Received by (Printed Name) *Michael Legend* C. Date of Delivery *7/8/11*
 D. Is delivery address different from item 1? ☐ Yes
 If YES, enter delivery address below: ☐ No

3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

Article Number
 (Transfer from service label)

7010 1870 0001 6549 7312

3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26 27 28 29 30 31 32 33 34 35 36 37 38 39 40 41 42 43 44 45 46 47 48 49 50 51 52 53 54 55 56 57 58 59 60 61 62 63 64 65 66 67 68 69 70 71 72 73 74 75 76 77 78 79 80 81 82 83 84 85 86 87 88 89 90 91 92 93 94 95 96 97 98 99 100

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Total Postage	

Sent To

CONOCOPHILLIPS PETRO CO.

ATTN: Land Department

P.O. BOX 2197

Houston, TX 77210-2197

PS Form 3800

Postmark Here

79705

27

2004

CVU

SENDER: COMPLETE THIS SECTION	COMPLETE THIS SECTION ON DELIVERY
Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. Print your name and address on the reverse so that we can return the card to you. Attach this card to the back of the mailpiece, or on the front if space permits.	A. Signature ☒ Agent ☐ Addressee
Article Addressed to:	B. Received by (Printed Name) C. Date of Delivery
ONOCOPHILLIPS PETRO CO. TTN: Land Department P.O. BOX 2197 Houston, TX 77210-2197	D. Is delivery address different from item 1? ☐ Yes If YES, enter delivery address below: ☐ No
Article Number (Transfer from service label)	3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.
7010 1870 0001 6549 7343	4. Restricted Delivery? (Extra Fee) ☐ Yes

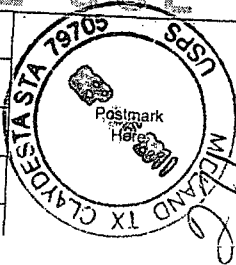
7010 1870 0001 6549 7305

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OFFICIAL USE

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 Return Receipt Fee
 (Endorsement Required) _____
 Restricted Delivery Fee
 (Endorsement Required) _____
 Total Postage & Fees \$ _____



Sent To **MARATHON OIL COMPANY**
 Street, Apt. No., or PO Box No. **ATTN: Robert Angel**
 City, State, ZIP+4 **P.O. BOX 3487**
Houston, TX 77253-3487

PS Form 3800 SA

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

MARATHON OIL COMPANY
ATTN: Robert Angel
P.O. BOX 3487
Houston, TX 77253-3487

2. Article Number
 (Transfer from service label)

7010 1870 0001 6549 7305

PS Form 3811, February 2004

Domestic Return Receipt

102595-02-M-1540

COMPLETE THIS SECTION ON DELIVERY

A. Signature *[Signature]* SEP 29 2011 ☐ Agent ☐ Addressee

B. Received by (Printed Name)
JAMES FELDER

C. Date of Delivery

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

3. Service Type

- ☒ Certified Mail ☐ Express Mail
- ☐ Registered ☐ Return Receipt for Merchandise
- ☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

7010 1870 0001 6549 7329

U.S. Postal Service
CERTIFIED MAIL RECEIPT
 (Domestic Mail Only. No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$	
Certified Fee		
Return Receipt Fee (Endorsement Required)		
Restricted Delivery Fee (Endorsement Required)		
Total Postage & Fees	\$	

Postmark Here

Sent To
McGOWAN WORKING PARTNERS
INC.
1837 Crane Ridge Drive
Jackson, MS 39216

PS Form 3800-A

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

McGOWAN WORKING PARTNERS
INC.
1837 Crane Ridge Drive
Jackson, MS 39216

2. Article Number
 (Transfer from service label)

COMPLETE THIS SECTION ON DELIVERY

A. Signature
 x *A. Toombs* ☒ Agent ☐ Addressee

B. Received by (Printed Name)
A Toombs

C. Date of Delivery
9/8/11

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

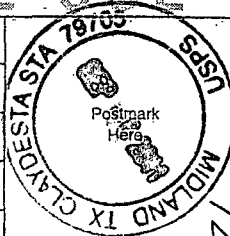
3. Service Type
☒ Certified Mail ☐ Express Mail
☐ Registered ☐ Return Receipt for Merchandise
☐ Insured Mail ☐ C.O.D.

4. Restricted Delivery? (Extra Fee) ☐ Yes

7010 1870 0001 6549 7329

7010 1870 0001 6549 7299

U.S. Postal Service	
CERTIFIED MAIL RECEIPT	
(Domestic Mail Only, No Insurance Coverage Provided)	
For delivery information visit our website at www.usps.com	
OFFICIAL USE	
Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$
Sent To	
MOBIL PRODUCING TX & NM INC.	
ATTN: Land Department	
P.O. BOX 4707	
Houston, TX 77210-4707	
PS Form 3800, A	



127

7010 1870 0001 6549 7336

U.S. Postal Service
CERTIFIED MAIL RECEIPT
(Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$

Postmark Here

Sent To **QUANTUM RESOURCES
MANAGEMENT LLC**
 Street, Apt. No., or PO Box No. **1401 McKinney Street, Ste. 2400**
 City, State, ZIP+4 **Houston, TX 77010**

PS Form 3800-A1

12647

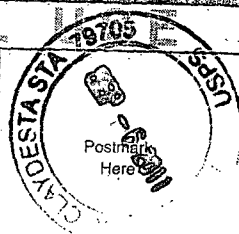
SENDER: COMPLETE THIS SECTION		COMPLETE THIS SECTION ON DELIVERY	
■ Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired. ■ Print your name and address on the reverse so that we can return the card to you. ■ Attach this card to the back of the mailpiece, or on the front if space permits.		A. Signature X TA ☐ Agent ☐ Addressee	
1. Article Addressed to: QUANTUM RESOURCES MANAGEMENT LLC 1401 McKinney Street, Ste. 2400 Houston, TX 77010		B. Received-by (Printed Name) TENN BROWNE C. Date of Delivery	
		D. Is delivery address different from item 1? ☐ Yes ☐ No If YES, enter delivery address below:	
		3. Service Type ☒ Certified Mail ☐ Express Mail ☐ Registered ☐ Return Receipt for Merchandise ☐ Insured Mail ☐ C.O.D.	
		4. Restricted Delivery? (Extra Fee) ☐ Yes	
2. Article Number (Transfer from service label)		7010 1870 0001 6549 7336	

U.S. Postal Service
CERTIFIED MAIL - RECEIPT
 (Domestic Mail Only; No Insurance Coverage Provided)

For delivery information visit our website at www.usps.com

OFFICIAL USE

Postage	\$
Certified Fee	
Return Receipt Fee (Endorsement Required)	
Restricted Delivery Fee (Endorsement Required)	
Total Postage & Fees	\$



Sent To **XTO ENERGY INC.**
ATTN: Steven Cobb
810 Houston Street, Ste 2000
Ft. Worth, Texas, 76102

PS Form 3800, 4

SENDER: COMPLETE THIS SECTION

- Complete items 1, 2, and 3. Also complete item 4 if Restricted Delivery is desired.
- Print your name and address on the reverse so that we can return the card to you.
- Attach this card to the back of the mailpiece, or on the front if space permits.

1. Article Addressed to:

XTO ENERGY INC.
ATTN: Steven Cobb
810 Houston Street, Ste 2000
Ft. Worth, Texas, 76102

2. Article Number

(Transfer from service label)

7010 1870 0001 6549 6582

COMPLETE THIS SECTION ON DELIVERY

A. Signature

Xenia Lacy - Brown

☐ Agent

☐ Addressee

B. Received by (Printed Name)

SEP 08 2010

D. Is delivery address different from item 1? ☐ Yes

If YES, enter delivery address below: ☐ No

3. Service Type

☒ Certified Mail

☐ Express Mail

☐ Registered

☐ Return Receipt for Merchandise

☐ Insured Mail

☐ C.O.D.

4. Restricted Delivery? (Extra Fee)

☐ Yes