

3/3/08 DATE IN	SUSPENSE	Brooks ENGINEER	3/3/08 LOGGED IN	NSL TYPE	PKV0806361482 APP NO.
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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 USA INC
Central Vacuum Unit #238

ADMINISTRATIVE APPLICATION CHECKLIST

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

Application Acronyms:

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

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

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

Check One Only for [B] or [C]

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

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

- [D] Other: Specify _____

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

- [A] ☐ Working, Royalty or Overriding Royalty Interest Owners
- [B] ☐ Offset Operators, Leaseholders or Surface Owner
- [C] ☐ Application is One Which Requires Published Legal Notice
- [D] ☐ Notification and/or Concurrent Approval by BLM or SLO
U.S. Bureau of Land Management - Commissioner of Public Lands, State Land Office
- [E] ☐ For all of the above, Proof of Notification or Publication is Attached, and/or,
- [F] ☒ Waivers are attached (See Previous Request by Letter of January 28, 2008 & Administrative Order NSL-5789 - just an additional well)

[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.

Daniel Pequeno

Print or Type Name

Signature

Land Representative

Title

February 27, 2008

Date

peqd@chevron.com

e-mail Address

RECEIVED
 2008 FEB 32 PM 1 09



Daniel Pequeno, CPL/ESA
Land Representative

MidContinent/Alaska BU
North American Exploration
and Production Company
15 Smith Road, RM-2235
Midland, Texas 79705
Tel 432 687 7461
Fax 432 687 7871
peqd@chevron.com

RECEIVED

2008 FEB 29 PM 12:36

February 27, 2008

Mark E. Fesmire, Director
Attention: Mr. David Brooks
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

**RE: APPLICATION OF CHEVRON USA INC. FOR AN ADDITIONAL
UNORTHODOX WELL LOCATION UNDER ADMINISTRATIVE
ORDER NSL-5789, LEA COUNTY, NEW MEXICO**

Dear Mr. Brooks,

Reference is hereby made to my letter of January 28, 2008 and the NMOCD's Administrative Order NSL-5789 with respect to Chevron U.S.A. Inc. (Chevron) request for the authority and administrative approval for an additional unorthodox well location for lease line production well as follows:

Well:	Central Vacuum Unit Well No. 238
Location:	10' FSL & 420' FEL (SHL) and 10' FSL & 10' FEL (BHL) (Unit Letter P)
Well Unit:	SE/4SE/4 of Section 36, Township 17 South, Range 34 East, N.M.P.M., Lea County, New Mexico to produce oil as a lease line producer;

Enclosed for your convenience is the following documentation in support of this application:


- A. Copies of Form C-102 for Well Location and Acreage Dedication plat;
- B. Copies of the Scientific Planning Report for the CVU Well No. 238

All other supporting documentation for this well was submitted by said letter.

Chevron respectfully requests administrative approval for the unorthodox well location for its proposed Central Vacuum Unit Well No. 238 as lease line producing well for the Central Vacuum Unit. **Please note that this well is a replacement of the CVU Well No. 138 which is to be plug and abandon.**

If I can be of any assistance or if you need additional information, please let me know by calling me at (432) 687-7461.

Very truly yours,



Daniel Pequeno
Land Representative

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number	² Pool Code	³ Pool Name VACUUM GRAYBURG SAN ANDRES
⁴ Property Code	⁵ Property Name CENTRAL VACUUM UNIT	⁶ Well Number 238
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON U.S.A. INC.	⁹ Elevation 3992

¹⁰ Surface Location

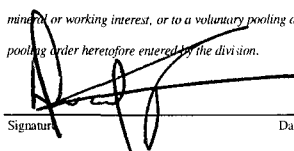
UL or lot no. P	Section 36	Township 17S	Range 34E	Lot Idn	Feet from the 10	North/South line SOUTH	Feet from the 420	East/West line EAST	County LEA
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no. P	Section 36	Township 17S	Range 34E	Lot Idn	Feet from the 10	North/South line SOUTH	Feet from the 10	East/West line EAST	County LEA
--------------------	---------------	-----------------	--------------	---------	---------------------	---------------------------	---------------------	------------------------	---------------

¹² Dedicated Acres 10.00	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

¹⁶				¹⁷ OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature _____ Date <u>2-26-08</u> DANIEL PEQUENO - LAND REPRESENTATIVE Printed Name _____			
				¹⁸ SURVEYOR CERTIFICATION <i>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.</i> SIGNED BY JOHN PIPER Date of Survey 9/25/2007 Certificate Number 7254			

DISTRICT I
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State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

Form C-1021
Revised October 12, 2005

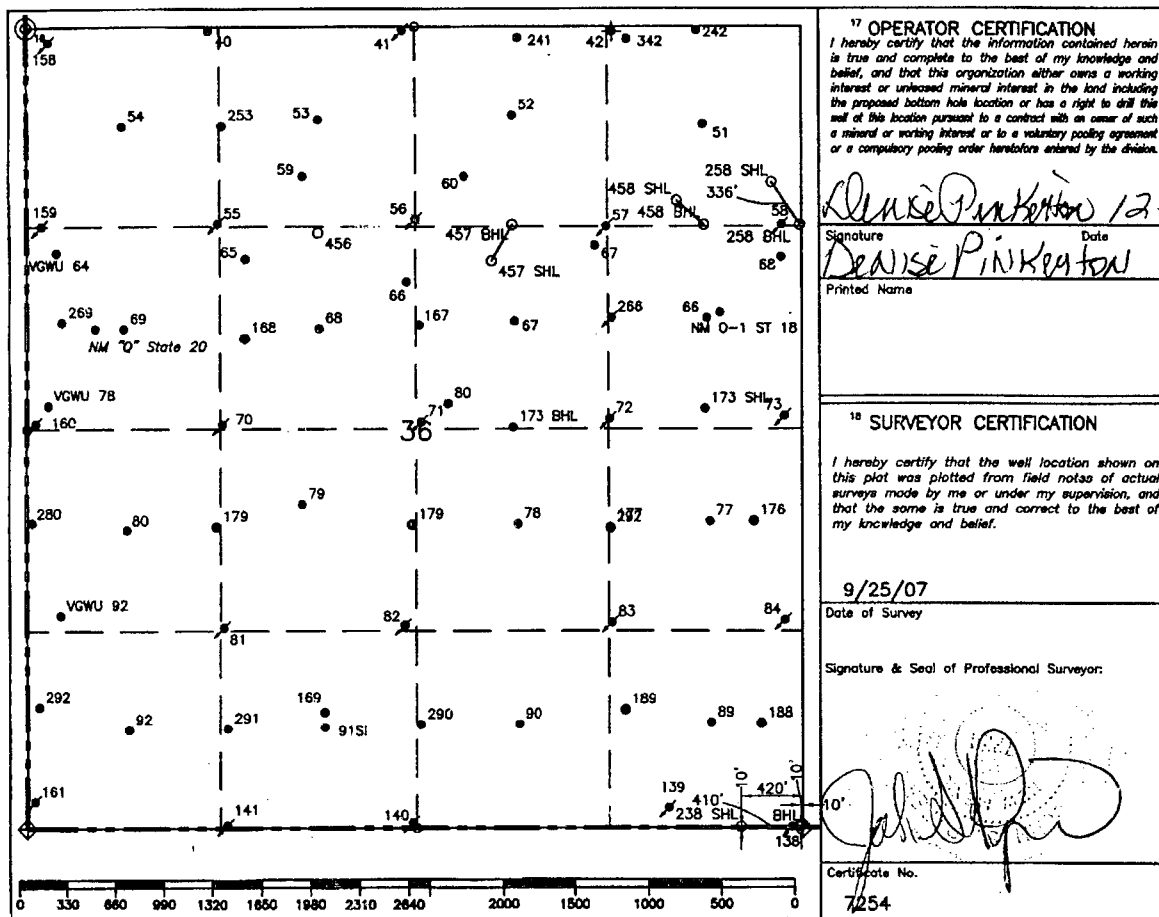
Submit to Appropriate District Office
State Lease-4 copies
Fee Lease-3 copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name					
		62180		San Andres (VACUUM GRAYBURG)					
4 Property Code		5 Property Name			6 Well Number				
		Central Vacuum Unit			238				
7 OGRID No.		8 Operator Name			9 Elevation				
4323		CHEVRON USA, INC.			3992'				
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
P	36	17-S	34-E		10'	South	420'	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
P	36	17-S	34-E		10'	South	10'	East	Lea
12 Dedicated Acres		13 Joint or Infill		14 Consolidation Code		15 Order No.			
10									

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.



○ = Staked Location ● = Producing Well ⊕ = Injection Well ⊙ = Water Supply Well ⊕ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

ADDITIONAL INFORMATION ON THE LOCATION

State Plane Coordinates SHL= 650053.17 (1927 NAD= 649988.13) BHL= 650058.45 (1927 NAD= 649993.40)		SHL= 795360.61 (1927 NAD= 754181.60) BHL= 795770.65 (1927 NAD= 754591.65)	
SHL= 32°47'03.484" Latitude BHL= 32°47'03.505"		SHL= 103°30'24.376" Longitude BHL= 103°30'19.572"	
Zone North American Datum		Combined Grid Factor	
East 1983		0.999982986	
Drawing File CVU-Sec36.Dwg		Coordinate File Buckeye.Crd	
		Field Book N/A	



Scientific Drilling Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Central Vacuum Unit #238
Company:	Chevron	TVD Reference:	WELL @ 3992.00ft (Ground Elev)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	WELL @ 3992.00ft (Ground Elev)
Site:	Central Vacuum Unit #238	North Reference:	Grid
Well:	Central Vacuum Unit #238	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Central Vacuum Unit #238		
Site Position:		Northing:	650,053.17 ft
From:	Map	Easting:	795,360.61 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 47' 3.484 N
		Longitude:	103° 30' 24.376 W
		Grid Convergence:	0.45 °

Well	Central Vacuum Unit #238		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 47' 3.484 N
		Longitude:	103° 30' 24.376 W
		Ground Level:	3,992.00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	1/29/2008	7.99
			Dip Angle (°)
			60.82
			Field Strength (nT)
			49,321

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0.00	0.00	0.00
			Direction (°)
			89.26

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,832.69	15.98	89.26	3,825.81	0.95	73.80	3.00	3.00	16.76	89.26	
5,054.08	15.98	89.26	5,000.00	5.28	410.04	0.00	0.00	0.00	0.00	PBHL-CVU #238



Scientific Drilling Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well Central Vacuum Unit #238
Company:	Chevron	TVD Reference:	WELL @ 3992.00ft (Ground Elev)
Project:	Lea County, NM (NAD 83 NME)	MD Reference:	WELL @ 3992.00ft (Ground Elev)
Site:	Central Vacuum Unit #238	North Reference:	Grid
Well:	Central Vacuum Unit #238	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5 1/2" Casing									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start 3.00°/100'									
3,400.00	3.00	89.26	3,399.95	0.03	2.62	2.62	3.00	3.00	0.00
3,500.00	6.00	89.26	3,499.63	0.13	10.46	10.46	3.00	3.00	0.00
3,600.00	9.00	89.26	3,598.77	0.30	23.51	23.51	3.00	3.00	0.00
3,700.00	12.00	89.26	3,697.08	0.54	41.73	41.74	3.00	3.00	0.00
3,800.00	15.00	89.26	3,794.31	0.84	65.07	65.08	3.00	3.00	0.00
3,832.69	15.98	89.26	3,825.81	0.95	73.80	73.81	3.00	3.00	0.00
EOC hold 15.98°									
3,900.00	15.98	89.26	3,890.52	1.19	92.33	92.34	0.00	0.00	0.00
4,000.00	15.98	89.26	3,986.65	1.54	119.86	119.87	0.00	0.00	0.00
4,100.00	15.98	89.26	4,082.79	1.90	147.39	147.40	0.00	0.00	0.00
4,200.00	15.98	89.26	4,178.93	2.25	174.92	174.93	0.00	0.00	0.00
4,300.00	15.98	89.26	4,275.06	2.61	202.45	202.46	0.00	0.00	0.00
4,400.00	15.98	89.26	4,371.20	2.96	229.98	230.00	0.00	0.00	0.00
4,500.00	15.98	89.26	4,467.33	3.32	257.51	257.53	0.00	0.00	0.00
4,600.00	15.98	89.26	4,563.47	3.67	285.04	285.06	0.00	0.00	0.00
4,700.00	15.98	89.26	4,659.60	4.02	312.56	312.59	0.00	0.00	0.00
4,800.00	15.98	89.26	4,755.74	4.38	340.09	340.12	0.00	0.00	0.00
4,900.00	15.98	89.26	4,851.87	4.73	367.62	367.65	0.00	0.00	0.00
5,000.00	15.98	89.26	4,948.01	5.09	395.15	395.18	0.00	0.00	0.00
5,054.08	15.98	89.26	5,000.00	5.28	410.04	410.07	0.00	0.00	0.00
PBHL-CVU #238									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-CVU #238	0.00	0.00	5,000.00	5.28	410.04	650,058.45	795,770.65	32° 47' 3.505 N	103° 30' 19.572 W
- plan hits target									
- Point									

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")	
3,200.00	3,200.00	5 1/2" Casing	5-1/2	7-7/8	

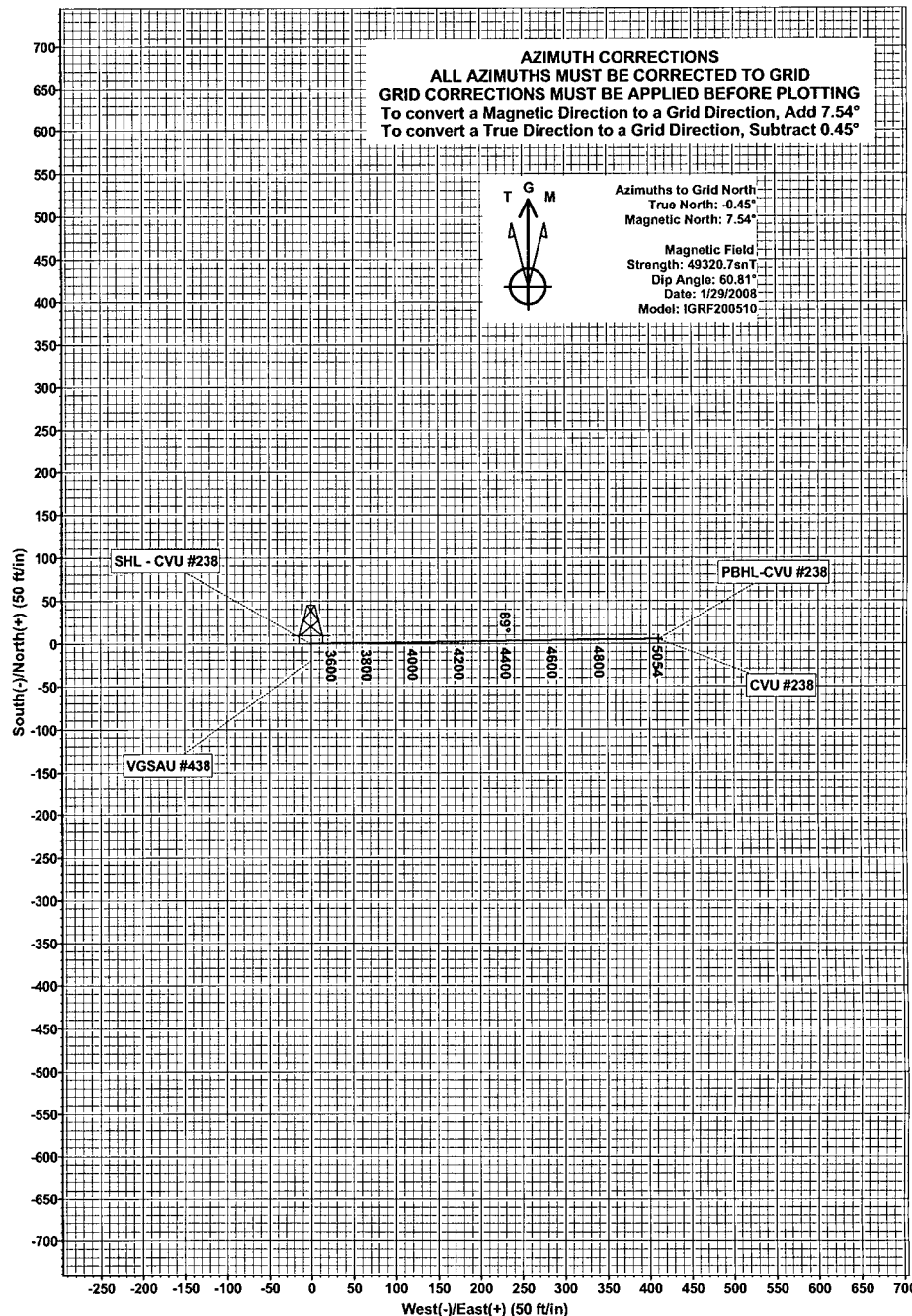
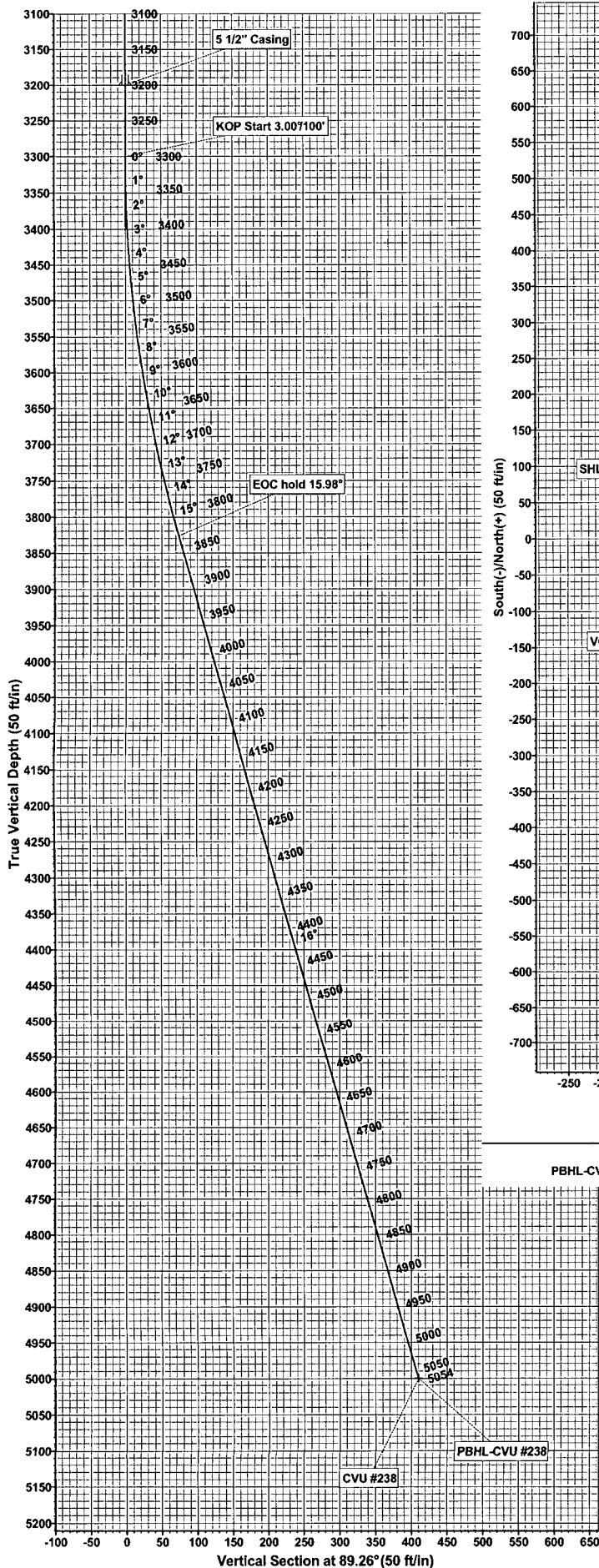
Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
3,300.00	3,300.00	0.00	0.00	KOP Start 3.00°/100'
3,832.69	3,825.81	0.95	73.80	EOC hold 15.98°



Scientific Drilling for Chevron
Site: Lea County, NM (NAD 83 NME)
Well: Central Vacuum Unit #238
Wellbore: OH
Design: Plan #1



Scientific Drilling
Directional Drilling Operations



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-CVU #238	5000.00	5.28	410.04	650058.45	795770.65	32° 47' 3.505 N	103° 30' 19.572 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	3300.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	
3	3832.69	15.98	89.26	3825.81	0.95	73.80	3.00	89.26	73.81	
4	5054.08	15.98	89.26	5000.00	5.28	410.04	0.00	0.00	410.07	PBHL-CVU #238

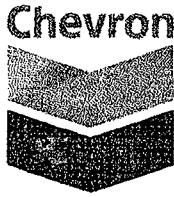
WELL DETAILS: Central Vacuum Unit #238

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	650053.17	795360.61	32° 47' 3.484 N	103° 30' 2 4.376 W	

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Plan: Plan #1 (Central Vacuum Unit #238/OH)

Geodetic System: US State Plane 1983	Created By: Julio Pina	Date: 29-Jan-08
Datum: North American Datum 1983	Checked: _____	Date: _____
Ellipsoid: GRS 1980	Reviewed: _____	Date: _____
Zone: New Mexico Eastern Zone	Approved: _____	Date: _____
System Datum: Mean Sea Level		



Daniel Pequeno, CPL/ESA
Land Representative

MidContinent/Alaska BU
North American Exploration
and Production Company
15 Smith Road, RM-2235
Midland, Texas 79705
Tel 432 687 7461
Fax 432 687 7871
peqd@chevron.com

February 27, 2008

Mark E. Fesmire, Director
Attention: Mr. David Brooks
Oil Conservation Division
New Mexico Department of Energy,
Minerals and Natural Resources
1220 South St. Francis Drive
Santa Fe, New Mexico 87505

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UNORTHODOX WELL LOCATION UNDER ADMINISTRATIVE
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Location: 10' FSL & 420' FEL (SHL) and 10' FSL & 10' FEL (BHL)
(Unit Letter P)
Well Unit: SE/4SE/4 of Section 36, Township 17 South, Range 34 East, N.M.P.M.,
Lea County, New Mexico to produce oil as a lease line producer;

Enclosed for your convenience is the following documentation in support of this application:

- A. Copies of Form C-102 for Well Location and Acreage Dedication plat;
- B. Copies of the Scientific Planning Report for the CVU Well No. 238

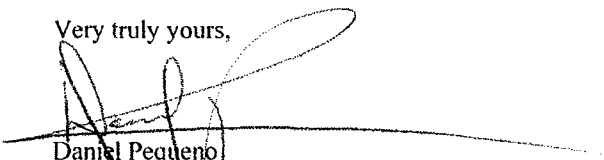
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00/00/2000 10:10 FAX 7420071011 SECTION USA MEDICAL 004/000

If I can be of any assistance or if you need additional information, please let me know by calling me at (432) 687-7461.

Very truly yours,



Daniel Pequeno
Land Representative

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State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
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Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name VACUUM GRAYBURG SAN ANDRES		
4 Property Code		5 Property Name CENTRAL VACUUM UNIT			6 Well Number 238	
7 OGRID No. 4323		8 Operator Name CHEVRON U.S.A. INC.			9 Elevation 3992	

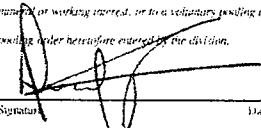
10 Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	17S	34E		10	SOUTH	420	EAST	LEA

11 Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	36	17S	34E		10	SOUTH	10	EAST	LEA
12 Dedicated Acres 10.00		13 Joint or Infill		14 Consolidation Code		15 Order No.			

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

16					17 OPERATOR CERTIFICATION <i>I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or substantial mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i>  Signature _____ Date <u>2-26-08</u> DANIEL PROFFEND - LAND REPRESENTATIVE Printed Name _____
					18 SURVEYOR CERTIFICATION <i>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.</i> SIGNED BY JOHN PIPER Date of Survey <u>9-25-2007</u> Certificate Number <u>7254</u>

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1220 St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised October 12, 2005

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State Lease-4 copies
Fee Lease-3 copies

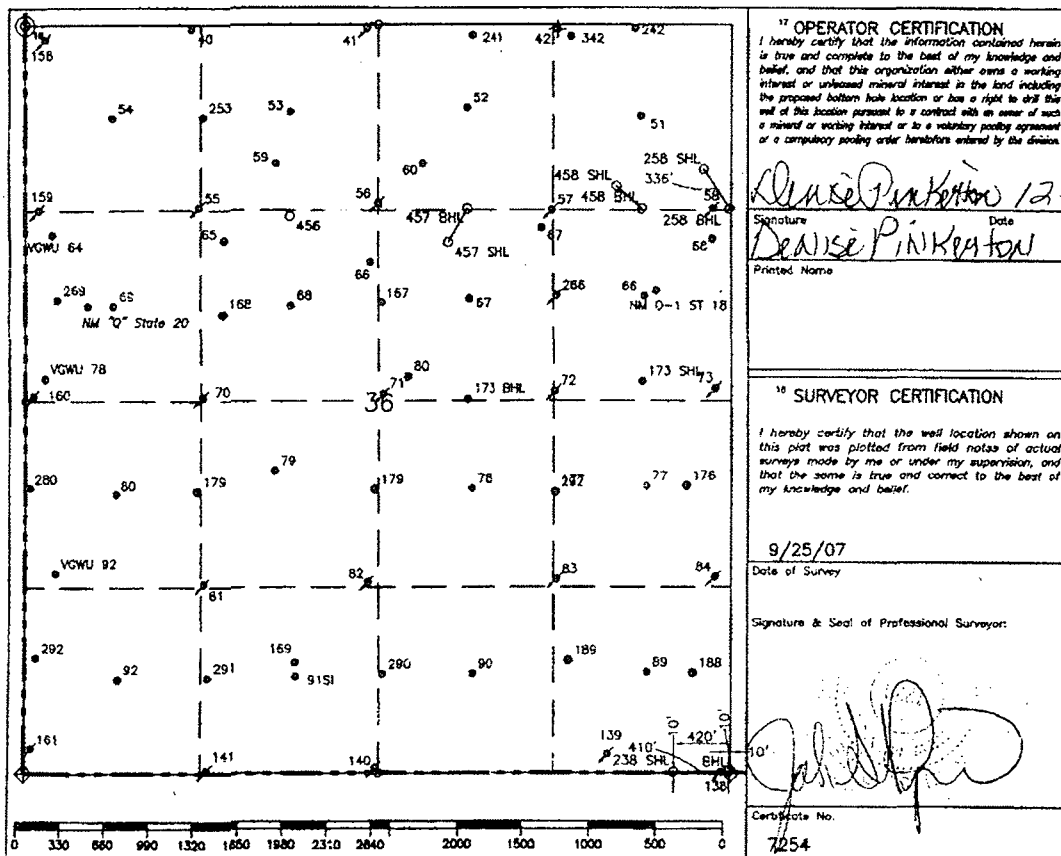
OIL CONSERVATION DIVISION
1220 South St. Francis Drive
Santa Fe, NM 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number		2 Pool Code		3 Pool Name	
		(22180)		San Andres (VACUUM GRABUNG)	
4 Property Code		5 Property Name			6 Well Number
		Central Vacuum Unit			238
7 OGRD No.		8 Operator Name			9 Elevation
4323		CHEVRON USA, INC.			3992'
10 Surface Location					
11 UL or lot no.	12 Section	13 Township	14 Range	15 Lot 1/4	16 Feet from the North/South line
P	36	17-S	34-E	10'	420'
17 Bottom Hole Location if Different From Surface					
18 UL or lot no.	19 Section	20 Township	21 Range	22 Lot 1/4	23 Feet from the North/South line
P	36	17-S	34-E	10'	10'
24 Dedicated Acres		25 Joint or Infill		26 Consolidation Code	
10				27 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, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill the well at this location pursuant to a contract with an owner of such a mineral or working interest or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Signature: *DeWise Pinkerton* Date: 12-11-07
Printed Name: DeWise Pinkerton

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 knowledge and belief.

9/25/07
Date of Survey
Signature & Seal of Professional Surveyor:
[Signature]
Certificate No. 7254

○ = Staked Location ● = Producing Well ● = Injection Well ○ = Water Supply Well ◆ = Plugged & Abandon Well
⊙ = Found Section Corner, 2 or 3" Iron Pipe & GLO B.C. ○ = Found 1/4 Section Corner, 1" Iron Pipe & GLO B.C.

ADDITIONAL INFORMATION ON THE LOCATION

State Plane Coordinates SHL= 650053.17 (1927 NAD= 649988.13)		SHL= 795360.61 (1927 NAD= 754181.60)	
Longitude BHL= 650058.45 (1927 NAD= 649993.70)		Longitude BHL= 795770.65 (1927 NAD= 754591.85)	
Latitude SHL= 32°47'03.484" BHL= 32°47'03.505"		Longitude SHL= 103°30'24.376" BHL= 103°30'19.572"	
Zone North American Datum		Combined Grid Factor	
East 1983		Coordinate File Buckeye.Crd	
Drawing File CVU-Sec36.Dwg		Field Book N/A	



Scientific Drilling

Planning Report



Database: EDM 2003.16 Single User Db
 Company: Chevron
 Project: Lea County, NM (NAD 83 NME)
 Site: Central Vacuum Unit #238
 Well: Central Vacuum Unit #238
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well Central Vacuum Unit #238
 TVD Reference: WELL @ 3992.00ft (Ground Elev)
 MD Reference: WELL @ 3992.00ft (Ground Elev)
 North Reference: Grid
 Survey Calculation Method: Minimum Curvature

Project:	Lea County, NM (NAD 83 NME)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site:	Central Vacuum Unit #238		
Site Position:		Northing:	650,053.17 ft
From:	Map	Easting:	795,360.61 ft
Position Uncertainty:	0.00 ft	Slot Radius:	"
		Latitude:	32° 47' 3.484 N
		Longitude:	103° 30' 24.376 W
		Grid Convergence:	0.45 "

Well:	Central Vacuum Unit #238		
Well Position	+N/-S	0.00 ft	Northing:
	+E/-W	0.00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 47' 3.484 N
		Longitude:	103° 30' 24.376 W
		Ground Level:	3,992.00 ft

Wellbore:	OH		
Magnetics	Model Name	Sample Date	Declination
	IGRF200510	1/29/2008	(°)
			7.99
		Dip Angle	(°)
		60.82	
		Field Strength	(nT)
		49,321	

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			89.26

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			("/100ft)	("/100ft)	("/100ft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	
3,832.69	15.98	89.26	3,825.81	0.95	73.80	3.00	3.00	16.76	89.26	
5,054.08	15.98	89.26	5,000.00	5.28	410.04	0.00	0.00	0.00	0.00	PBHL-CVU #238



Scientific Drilling

Planning Report



Database: EDM 2003.16 Single User Db
Company: Chevron
Project: Lea County, NM (NAD 83 NME)
Site: Central Vacuum Unit #238
Well: Central Vacuum Unit #238
Wellbore: OH
Design: Plan #1

Local Co-ordinate Reference: Well Central Vacuum Unit #238
TVD Reference: WELL @ 3992.00ft (Ground Elev)
MD Reference: WELL @ 3992.00ft (Ground Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5 1/2" Casing									
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start 3.00°/100'									
3,400.00	3.00	89.26	3,399.95	0.03	2.62	2.62	3.00	3.00	0.00
3,500.00	6.00	89.26	3,499.63	0.13	10.46	10.46	3.00	3.00	0.00
3,600.00	9.00	89.26	3,598.77	0.30	23.51	23.51	3.00	3.00	0.00
3,700.00	12.00	89.26	3,697.08	0.54	41.73	41.74	3.00	3.00	0.00
3,800.00	15.00	89.26	3,794.31	0.84	65.07	65.08	3.00	3.00	0.00
3,832.69	15.98	89.26	3,825.81	0.95	73.80	73.81	3.00	3.00	0.00
EOC hold 15.98°									
3,900.00	15.98	89.26	3,890.52	1.19	92.33	92.34	0.00	0.00	0.00
4,000.00	15.98	89.26	3,986.65	1.54	119.86	119.87	0.00	0.00	0.00
4,100.00	15.98	89.26	4,082.79	1.90	147.39	147.40	0.00	0.00	0.00
4,200.00	15.98	89.26	4,178.93	2.25	174.92	174.93	0.00	0.00	0.00
4,300.00	15.98	89.26	4,275.06	2.61	202.45	202.46	0.00	0.00	0.00
4,400.00	15.98	89.26	4,371.20	2.96	229.98	230.00	0.00	0.00	0.00
4,500.00	15.98	89.26	4,467.33	3.32	257.51	257.53	0.00	0.00	0.00
4,600.00	15.98	89.26	4,563.47	3.67	285.04	285.06	0.00	0.00	0.00
4,700.00	15.98	89.26	4,659.60	4.02	312.56	312.59	0.00	0.00	0.00
4,800.00	15.98	89.26	4,755.74	4.38	340.09	340.12	0.00	0.00	0.00
4,900.00	15.98	89.26	4,851.87	4.73	367.62	367.65	0.00	0.00	0.00
5,000.00	15.98	89.26	4,948.01	5.09	395.15	395.18	0.00	0.00	0.00
5,054.08	15.98	89.26	5,000.00	5.28	410.04	410.07	0.00	0.00	0.00
PBHL-CVU #238									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N-S (ft)	+E-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
- hit/miss target									
- Shape									
PBHL-CVU #238	0.00	0.00	5,000.00	5.28	410.04	650,058.45	795,770.65	32° 47' 3.505 N	103° 30' 19.572 W
- plan hits target									
- Point									

Casing Points

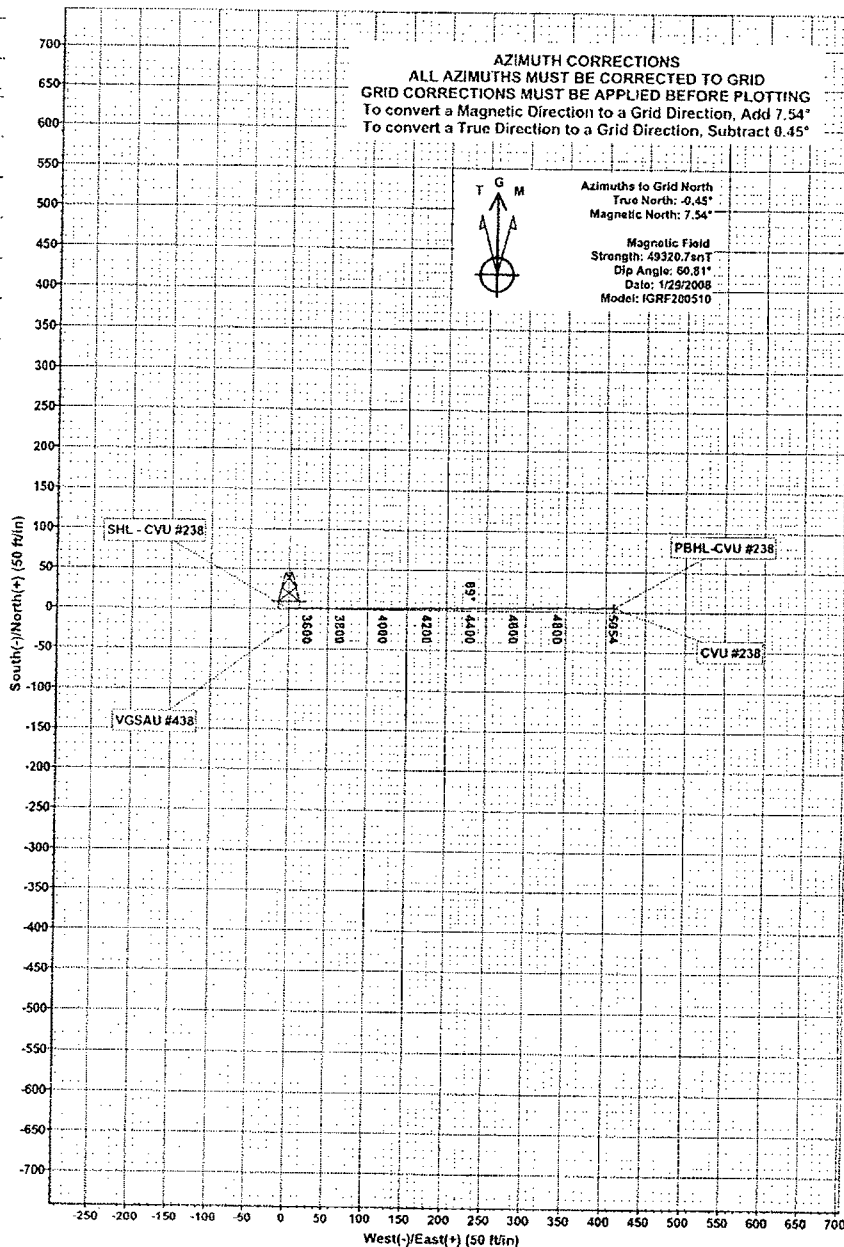
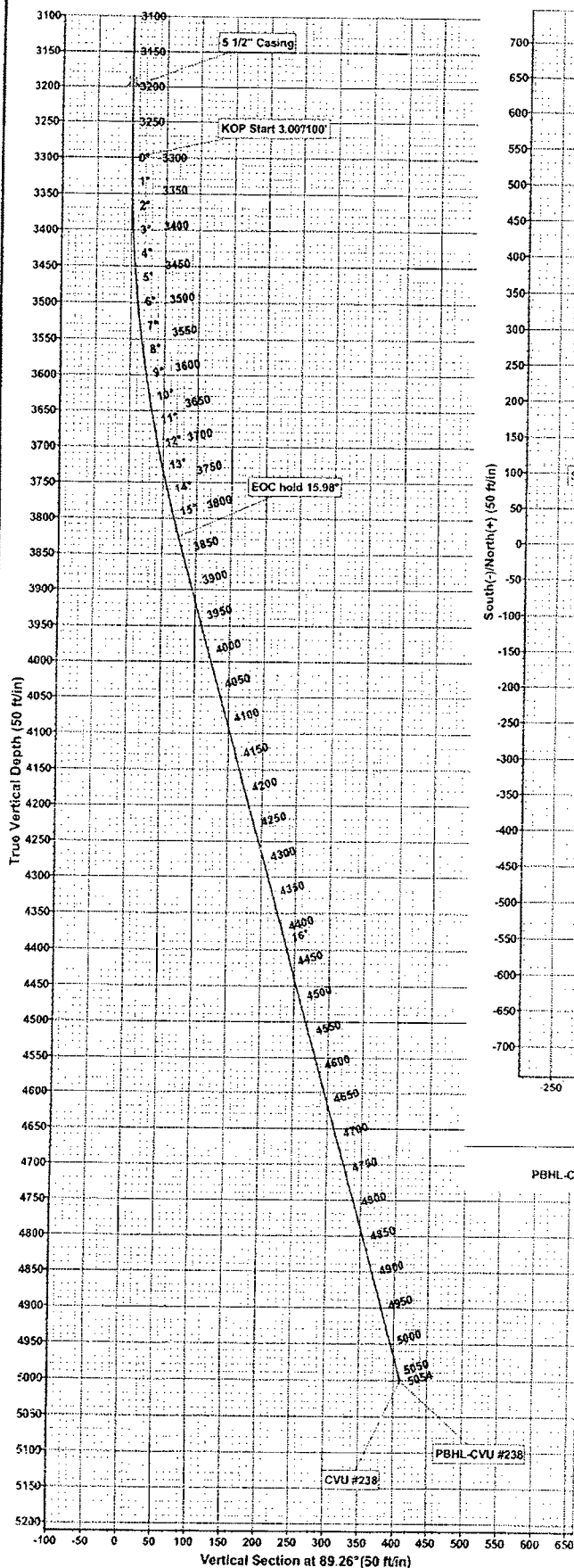
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")
3,200.00	3,200.00	5 1/2" Casing	5-1/2	7-7/8

Plan Annotations

Measured	Vertical	Local Coordinates		Comment
Depth (ft)	Depth (ft)	+N-S (ft)	+E-W (ft)	
3,300.00	3,300.00	0.00	0.00	KOP Start 3.00°/100'
3,832.69	3,825.81	0.95	73.80	EOC hold 15.98°



Scientific Drilling for Chevron
 Site: Lea County, NM (NAD 83 NME)
 Well: Central Vacuum Unit #238
 Wellbore: OH
 Design: Plan #1



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL-CVU #238	5000.00	5.28	410.04	650058.45	795770.65	32° 47' 3.505 N	103° 30' 19.572 W	Point

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	OLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	Target
2	3100.00	0.00	0.00	3300.00	0.00	0.00	0.00	0.00	0.00	
3	3832.69	15.98	89.26	3825.81	0.95	73.80	3.00	89.26	73.81	
4	5054.08	15.98	89.26	5000.00	5.28	410.04	0.00	0.00	410.07	PBHL-CVU #238

WELL DETAILS: Central Vacuum Unit #238

+N/-S	+E/-W	Ground Level:	3992.00
0.00	0.00	Northing	650053.17
		Easting	795360.61
		Latitude	32° 47' 3.484 N
		Longitude	103° 30' 2 4.376 W

PROJECT DETAILS: Lea County, NM (NAD 83 NME)

Plan: Plan #1 (Central Vacuum Unit #238/OH)

Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

Created By: Julio Pina Date: 29-Jan-08
 Checked: Date:
 Reviewed: Date:
 Approved: Date:

Brooks, David K., EMNRD

From: Brooks, David K., EMNRD
Sent: Wednesday, April 02, 2008 3:19 PM
To: PEQUENO, DANIEL
Subject: Central Vacuum Unit #238

Dear Mr. Pequeno:

If I understand correctly, this well is in the Central Vacuum Unit, and encroaches toward Vacuum Grayburg-San Andres Unit.

The wells in Order NSL-5789 were in the Vacuum Grayburg-San Andres Unit and encroached toward the Central Vacuum Unit. Thus, I was then concerned only that the Agreement had ratifications from all owners in the Central Vacuum Unit.

For this well, I have to establish consent of owners in the Vacuum Grayburg-San Andres Unit. I seem to recall that there was a recitation in some of the material submitted with the previous application that Chevron is 100% working interest owner in the Vacuum GB-SA Unit. If that is true, that takes care of it. But I could not find that recitation.

Please advise.
David K. Brooks
Legal Examiner
505-476-3450

4/2/2008

Brooks, David K., EMNRD

From: PEQUENO, DANIEL [PEQD@chevron.com]
Sent: Thursday, April 03, 2008 4:39 AM
To: Brooks, David K., EMNRD
Subject: RE: Central Vacuum Unit #238

Good Morning Mr. Brooks,

Your statement in the last paragraph is correct. Chevron is the Sole Owner and Operator of the Vacuum Grayburg-San Andres Unit. In addition, the State of New Mexico is the sole owner of all the leases comprising the Unit. Therefore no ratifications are required.

Let me know if I can be of further assistance in this regard.

Thanks,
Daniel Pequeno
Land Representative
432-687-7461

From: Brooks, David K., EMNRD [mailto:david.brooks@state.nm.us]
Sent: Wednesday, April 02, 2008 5:19 PM
To: PEQUENO, DANIEL
Subject: Central Vacuum Unit #238

Dear Mr. Pequeno:

If I understand correctly, this well is in the Central Vacuum Unit, and encroaches toward Vacuum Grayburg-San Andres Unit.

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Please advise.
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505-476-3450

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4/3/2008