

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

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

Form C-103
Revised July 18, 2013

WELL API NO. 30-025-41811
5. Indicate Type of Lease STATE ☐ FEE ☒
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name GRAMMA RIDGE 14 24 34
8. Well Number 1H
9. OGRID Number 4323
10. Pool name or Wildcat RED HILLS; BONE SPRING, NORTH

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)	
1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐	
2. Name of Operator CHEVRON U.S.A. INC.	
3. Address of Operator 15 SMITH ROAD, MIDLAND, TEXAS 79705	
4. Well Location Unit Letter: B 330 feet from NORTH line and 2300 feet from the EAST line Section 14 Township 24S Range 34E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3492' GL	

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: CHANGE TO ORIGINAL APD

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER:

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

CHEVRON U.S.A. INC. INTENDS TO CHANGE FROM THE 3RD BONE SPRING TO THE 2ND BONE SPRING TARGET

PLEASE NOTE TARGET CHANGE AND THAT THERE WILL BE NO PILOT HOLE.

ALSO, PLEASE FIND ATTACHED, AN UPDATED DIRECTIONAL PLAN, AND UPDATED CASING AND CEMENT INFORMATION.

Spud Date:

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Denise Pinkerton

TITLE REGULATORY SPECIALIST

DATE 06/12/2014

Type or print name DENISE PINKERTON

E-mail address: leakejd@chevron.com

PHONE: 432-687-7375

For State Use Only

APPROVED BY:

[Signature]

TITLE

Petroleum Engineer

DATE

06/16/14

Conditions of Approval (if any):

JUN 17 2014

Type	Hole Size (in)	Casing Size (in)	Casing Weight (#s)	Setting Depth (ft)	Estimated TOC (ft)	Bottom of Cemented Interval (ft)	Sacks of Cement (sx)
Surface	17.5	13.375	48	1200	0 (Surface)	1225	1287
Intermediate	12.25	9.625	40	5340	0 (Surface)	5340	2100
Production	8.75	5.5	17	15406	4700	15415	1781

Chevron U.S.A. Inc.

Delaware Basin - Southern Lea County

Gramma Ridge 14-24-34 1H

#1H

WB1

HOBBS OCD

JUN 16 2014

Plan: Prelim Plan #1

RECEIVED

Standard Planning Report

11 June, 2014

chevron
Planning Report

Database:	EDMSHARE_R5000	Local Co-ordinate Reference:	Site Gramma Ridge 14-24-34 1H
Company:	Chevron U.S.A. Inc.	TVD Reference:	WELL @ 3516.5usft (Original Well Elev)
Project:	Delaware Basin - Southern Lea County	MD Reference:	WELL @ 3516.5usft (Original Well Elev)
Site:	Gramma Ridge 14-24-34 1H	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Prelim Plan #1		

Site	Gramma Ridge 14-24-34 1H				
Site Position:		Northing:	446,269.88 usft	Latitude:	32° 13' 25.500 N
From:	Lat/Long	Easting:	776,517.09 usft	Longitude:	103° 26' 20.994 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.48 °

Well	#1H					
Well Position	+N/-S	0.0 usft	Northing:	446,269.88 usft	Latitude:	32° 13' 25.500 N
	+E/-W	0.0 usft	Easting:	776,517.09 usft	Longitude:	103° 26' 20.994 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,492.0 usft

Wellbore	WB1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	3/25/2014	7.18	60.14	48,319

Design	Prelim Plan #1			
Audit Notes:				
Version:	Phase:	PROTOTYPE	Tie On Depth:	0.0
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	179.53

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,515.5	0.00	0.00	10,515.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,265.5	90.00	179.53	10,993.0	-477.4	4.0	12.00	12.00	0.00	179.53	
15,406.1	90.00	179.53	10,993.0	-4,617.9	38.2	0.00	0.00	0.00	0.00	2nd BSS BHL

chevron
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Project:	Delaware Basin - Southern Lea County	MD Reference:	WELL @ 3516.5usft (Original Well Elev)
Site:	Gamma Ridge 14-24-34 1H	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Prelim Plan #1		

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.0	0.00	0.00	0.0	0.0	0.0	0.0	0.00	0.00	0.00
100.0	0.00	0.00	100.0	0.0	0.0	0.0	0.00	0.00	0.00
200.0	0.00	0.00	200.0	0.0	0.0	0.0	0.00	0.00	0.00
300.0	0.00	0.00	300.0	0.0	0.0	0.0	0.00	0.00	0.00
400.0	0.00	0.00	400.0	0.0	0.0	0.0	0.00	0.00	0.00
500.0	0.00	0.00	500.0	0.0	0.0	0.0	0.00	0.00	0.00
600.0	0.00	0.00	600.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.00	0.00	700.0	0.0	0.0	0.0	0.00	0.00	0.00
800.0	0.00	0.00	800.0	0.0	0.0	0.0	0.00	0.00	0.00
900.0	0.00	0.00	900.0	0.0	0.0	0.0	0.00	0.00	0.00
1,000.0	0.00	0.00	1,000.0	0.0	0.0	0.0	0.00	0.00	0.00
1,100.0	0.00	0.00	1,100.0	0.0	0.0	0.0	0.00	0.00	0.00
1,200.0	0.00	0.00	1,200.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	0.00	0.00	1,300.0	0.0	0.0	0.0	0.00	0.00	0.00
1,400.0	0.00	0.00	1,400.0	0.0	0.0	0.0	0.00	0.00	0.00
1,500.0	0.00	0.00	1,500.0	0.0	0.0	0.0	0.00	0.00	0.00
1,600.0	0.00	0.00	1,600.0	0.0	0.0	0.0	0.00	0.00	0.00
1,700.0	0.00	0.00	1,700.0	0.0	0.0	0.0	0.00	0.00	0.00
1,800.0	0.00	0.00	1,800.0	0.0	0.0	0.0	0.00	0.00	0.00
1,900.0	0.00	0.00	1,900.0	0.0	0.0	0.0	0.00	0.00	0.00
2,000.0	0.00	0.00	2,000.0	0.0	0.0	0.0	0.00	0.00	0.00
2,100.0	0.00	0.00	2,100.0	0.0	0.0	0.0	0.00	0.00	0.00
2,200.0	0.00	0.00	2,200.0	0.0	0.0	0.0	0.00	0.00	0.00
2,300.0	0.00	0.00	2,300.0	0.0	0.0	0.0	0.00	0.00	0.00
2,400.0	0.00	0.00	2,400.0	0.0	0.0	0.0	0.00	0.00	0.00
2,500.0	0.00	0.00	2,500.0	0.0	0.0	0.0	0.00	0.00	0.00
2,600.0	0.00	0.00	2,600.0	0.0	0.0	0.0	0.00	0.00	0.00
2,700.0	0.00	0.00	2,700.0	0.0	0.0	0.0	0.00	0.00	0.00
2,800.0	0.00	0.00	2,800.0	0.0	0.0	0.0	0.00	0.00	0.00
2,900.0	0.00	0.00	2,900.0	0.0	0.0	0.0	0.00	0.00	0.00
3,000.0	0.00	0.00	3,000.0	0.0	0.0	0.0	0.00	0.00	0.00
3,100.0	0.00	0.00	3,100.0	0.0	0.0	0.0	0.00	0.00	0.00
3,200.0	0.00	0.00	3,200.0	0.0	0.0	0.0	0.00	0.00	0.00
3,300.0	0.00	0.00	3,300.0	0.0	0.0	0.0	0.00	0.00	0.00
3,400.0	0.00	0.00	3,400.0	0.0	0.0	0.0	0.00	0.00	0.00
3,500.0	0.00	0.00	3,500.0	0.0	0.0	0.0	0.00	0.00	0.00
3,600.0	0.00	0.00	3,600.0	0.0	0.0	0.0	0.00	0.00	0.00
3,700.0	0.00	0.00	3,700.0	0.0	0.0	0.0	0.00	0.00	0.00
3,800.0	0.00	0.00	3,800.0	0.0	0.0	0.0	0.00	0.00	0.00
3,900.0	0.00	0.00	3,900.0	0.0	0.0	0.0	0.00	0.00	0.00
4,000.0	0.00	0.00	4,000.0	0.0	0.0	0.0	0.00	0.00	0.00
4,100.0	0.00	0.00	4,100.0	0.0	0.0	0.0	0.00	0.00	0.00
4,200.0	0.00	0.00	4,200.0	0.0	0.0	0.0	0.00	0.00	0.00
4,300.0	0.00	0.00	4,300.0	0.0	0.0	0.0	0.00	0.00	0.00
4,400.0	0.00	0.00	4,400.0	0.0	0.0	0.0	0.00	0.00	0.00
4,500.0	0.00	0.00	4,500.0	0.0	0.0	0.0	0.00	0.00	0.00
4,600.0	0.00	0.00	4,600.0	0.0	0.0	0.0	0.00	0.00	0.00
4,700.0	0.00	0.00	4,700.0	0.0	0.0	0.0	0.00	0.00	0.00
4,800.0	0.00	0.00	4,800.0	0.0	0.0	0.0	0.00	0.00	0.00
4,900.0	0.00	0.00	4,900.0	0.0	0.0	0.0	0.00	0.00	0.00
5,000.0	0.00	0.00	5,000.0	0.0	0.0	0.0	0.00	0.00	0.00
5,100.0	0.00	0.00	5,100.0	0.0	0.0	0.0	0.00	0.00	0.00
5,200.0	0.00	0.00	5,200.0	0.0	0.0	0.0	0.00	0.00	0.00
5,300.0	0.00	0.00	5,300.0	0.0	0.0	0.0	0.00	0.00	0.00

chevron
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Wellbore:	WB1		
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5,400.0	0.00	0.00	5,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,500.0	0.00	0.00	5,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,600.0	0.00	0.00	5,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,700.0	0.00	0.00	5,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,800.0	0.00	0.00	5,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
5,900.0	0.00	0.00	5,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,000.0	0.00	0.00	6,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,100.0	0.00	0.00	6,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,200.0	0.00	0.00	6,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,300.0	0.00	0.00	6,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,400.0	0.00	0.00	6,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,500.0	0.00	0.00	6,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,600.0	0.00	0.00	6,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,700.0	0.00	0.00	6,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,800.0	0.00	0.00	6,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
6,900.0	0.00	0.00	6,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,000.0	0.00	0.00	7,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,100.0	0.00	0.00	7,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,200.0	0.00	0.00	7,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,300.0	0.00	0.00	7,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,400.0	0.00	0.00	7,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,500.0	0.00	0.00	7,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,600.0	0.00	0.00	7,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,700.0	0.00	0.00	7,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,800.0	0.00	0.00	7,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
7,900.0	0.00	0.00	7,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,000.0	0.00	0.00	8,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,100.0	0.00	0.00	8,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,200.0	0.00	0.00	8,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,300.0	0.00	0.00	8,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,400.0	0.00	0.00	8,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,500.0	0.00	0.00	8,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,600.0	0.00	0.00	8,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,700.0	0.00	0.00	8,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,800.0	0.00	0.00	8,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
8,900.0	0.00	0.00	8,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,000.0	0.00	0.00	9,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,100.0	0.00	0.00	9,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,200.0	0.00	0.00	9,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,300.0	0.00	0.00	9,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,400.0	0.00	0.00	9,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,500.0	0.00	0.00	9,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,600.0	0.00	0.00	9,600.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,700.0	0.00	0.00	9,700.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,800.0	0.00	0.00	9,800.0	0.0	0.0	0.0	0.00	0.00	0.00	
9,900.0	0.00	0.00	9,900.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,000.0	0.00	0.00	10,000.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,100.0	0.00	0.00	10,100.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,200.0	0.00	0.00	10,200.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,300.0	0.00	0.00	10,300.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,400.0	0.00	0.00	10,400.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,500.0	0.00	0.00	10,500.0	0.0	0.0	0.0	0.00	0.00	0.00	
10,515.5	0.00	0.00	10,515.5	0.0	0.0	0.0	0.00	0.00	0.00	
10,600.0	10.14	179.53	10,599.6	-7.5	0.1	7.5	12.00	12.00	0.00	

chevron
Planning Report

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Project:	Delaware Basin - Southern Lea County	MD Reference:	WELL @ 3516.5usft (Original Well Elev)
Site:	Gamma Ridge 14-24-34 1H	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Prelim Plan #1		

Planned Survey

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,700.0	22.14	179.53	10,695.4	-35.2	0.3	35.2	12.00	12.00	0.00
10,800.0	34.14	179.53	10,783.5	-82.3	0.7	82.3	12.00	12.00	0.00
10,900.0	46.14	179.53	10,859.8	-146.6	1.2	146.6	12.00	12.00	0.00
11,000.0	58.14	179.53	10,921.0	-225.4	1.9	225.4	12.00	12.00	0.00
11,100.0	70.14	179.53	10,964.6	-315.2	2.6	315.2	12.00	12.00	0.00
11,200.0	82.14	179.53	10,988.5	-412.1	3.4	412.1	12.00	12.00	0.00
11,265.5	90.00	179.53	10,993.0	-477.4	4.0	477.5	12.00	12.00	0.00
11,300.0	90.00	179.53	10,993.0	-511.9	4.2	511.9	0.00	0.00	0.00
11,400.0	90.00	179.53	10,993.0	-611.9	5.1	611.9	0.00	0.00	0.00
11,500.0	90.00	179.53	10,993.0	-711.9	5.9	711.9	0.00	0.00	0.00
11,600.0	90.00	179.53	10,993.0	-811.9	6.7	811.9	0.00	0.00	0.00
11,700.0	90.00	179.53	10,993.0	-911.9	7.5	911.9	0.00	0.00	0.00
11,800.0	90.00	179.53	10,993.0	-1,011.9	8.4	1,011.9	0.00	0.00	0.00
11,900.0	90.00	179.53	10,993.0	-1,111.9	9.2	1,111.9	0.00	0.00	0.00
12,000.0	90.00	179.53	10,993.0	-1,211.9	10.0	1,211.9	0.00	0.00	0.00
12,100.0	90.00	179.53	10,993.0	-1,311.9	10.9	1,311.9	0.00	0.00	0.00
12,200.0	90.00	179.53	10,993.0	-1,411.9	11.7	1,411.9	0.00	0.00	0.00
12,300.0	90.00	179.53	10,993.0	-1,511.9	12.5	1,511.9	0.00	0.00	0.00
12,400.0	90.00	179.53	10,993.0	-1,611.9	13.3	1,611.9	0.00	0.00	0.00
12,500.0	90.00	179.53	10,993.0	-1,711.9	14.2	1,711.9	0.00	0.00	0.00
12,600.0	90.00	179.53	10,993.0	-1,811.9	15.0	1,811.9	0.00	0.00	0.00
12,700.0	90.00	179.53	10,993.0	-1,911.9	15.8	1,911.9	0.00	0.00	0.00
12,800.0	90.00	179.53	10,993.0	-2,011.9	16.6	2,011.9	0.00	0.00	0.00
12,900.0	90.00	179.53	10,993.0	-2,111.9	17.5	2,111.9	0.00	0.00	0.00
13,000.0	90.00	179.53	10,993.0	-2,211.9	18.3	2,211.9	0.00	0.00	0.00
13,100.0	90.00	179.53	10,993.0	-2,311.9	19.1	2,311.9	0.00	0.00	0.00
13,200.0	90.00	179.53	10,993.0	-2,411.8	20.0	2,411.9	0.00	0.00	0.00
13,300.0	90.00	179.53	10,993.0	-2,511.8	20.8	2,511.9	0.00	0.00	0.00
13,400.0	90.00	179.53	10,993.0	-2,611.8	21.6	2,611.9	0.00	0.00	0.00
13,500.0	90.00	179.53	10,993.0	-2,711.8	22.4	2,711.9	0.00	0.00	0.00
13,600.0	90.00	179.53	10,993.0	-2,811.8	23.3	2,811.9	0.00	0.00	0.00
13,700.0	90.00	179.53	10,993.0	-2,911.8	24.1	2,911.9	0.00	0.00	0.00
13,800.0	90.00	179.53	10,993.0	-3,011.8	24.9	3,011.9	0.00	0.00	0.00
13,900.0	90.00	179.53	10,993.0	-3,111.8	25.7	3,111.9	0.00	0.00	0.00
14,000.0	90.00	179.53	10,993.0	-3,211.8	26.6	3,211.9	0.00	0.00	0.00
14,100.0	90.00	179.53	10,993.0	-3,311.8	27.4	3,311.9	0.00	0.00	0.00
14,200.0	90.00	179.53	10,993.0	-3,411.8	28.2	3,411.9	0.00	0.00	0.00
14,300.0	90.00	179.53	10,993.0	-3,511.8	29.1	3,511.9	0.00	0.00	0.00
14,400.0	90.00	179.53	10,993.0	-3,611.8	29.9	3,611.9	0.00	0.00	0.00
14,500.0	90.00	179.53	10,993.0	-3,711.8	30.7	3,711.9	0.00	0.00	0.00
14,600.0	90.00	179.53	10,993.0	-3,811.8	31.5	3,811.9	0.00	0.00	0.00
14,700.0	90.00	179.53	10,993.0	-3,911.8	32.4	3,911.9	0.00	0.00	0.00
14,800.0	90.00	179.53	10,993.0	-4,011.8	33.2	4,011.9	0.00	0.00	0.00
14,900.0	90.00	179.53	10,993.0	-4,111.8	34.0	4,111.9	0.00	0.00	0.00
15,000.0	90.00	179.53	10,993.0	-4,211.8	34.8	4,211.9	0.00	0.00	0.00
15,100.0	90.00	179.53	10,993.0	-4,311.8	35.7	4,311.9	0.00	0.00	0.00
15,200.0	90.00	179.53	10,993.0	-4,411.8	36.5	4,411.9	0.00	0.00	0.00
15,300.0	90.00	179.53	10,993.0	-4,511.8	37.3	4,511.9	0.00	0.00	0.00
15,400.0	90.00	179.53	10,993.0	-4,611.8	38.2	4,611.9	0.00	0.00	0.00
15,406.1	90.00	179.53	10,993.0	-4,617.9	38.2	4,618.0	0.00	0.00	0.00

chevron
Planning Report

Database:	EDMSHARE_R5000	Local Co-ordinate Reference:	Site Gramma Ridge 14-24-34 1H
Company:	Chevron U.S.A. Inc.	TVD Reference:	WELL @ 3516.5usft (Original Well Elev)
Project:	Delaware Basin - Southern Lea County	MD Reference:	WELL @ 3516.5usft (Original Well Elev)
Site:	Gramma Ridge 14-24-34 1H	North Reference:	Grid
Well:	#1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	WB1		
Design:	Prelim Plan #1		

Design Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
- Shape									
2nd BSS BHL	0.00	0.00	10,993.0	-4,617.9	38.2	441,652.00	776,555.30	32° 12' 39.802 N	103° 26' 20.997 W
- plan hits target center									
- Rectangle (sides W100.0 H4,618.0 D0.0)									

Casing Points					
Measured Depth	Vertical Depth	Name	Casing Diameter	Hole Diameter	
(usft)	(usft)		(")	(")	
1,200.0	1,200.0	13 3/8" Surface Casing	13-3/8	17-1/2	
5,340.0	5,340.0	9 5/8" Intermediate Casing	9-5/8	12-1/4	
15,406.0	10,993.0	5 1/2" Production Casing	5-1/2	8-1/2	

Formations						
Measured Depth	Vertical Depth	Name	Lithology	Dip	Dip Direction	
(usft)	(usft)			(°)	(°)	
1,069.0	1,069.0	Rustler	ANHYDRITIC LIMESTONE	0.00		
1,123.0	1,123.0	Magenta Dolomite	DOLOMITE	0.00		
1,675.0	1,675.0	Salado	SALT	0.00		
3,767.0	3,767.0	Castile	ANHYDRITE	0.00		
5,288.0	5,288.0	Lamar	Limestone, shale streaks	0.00		
5,335.0	5,335.0	Bell Canyon	Sand/Shale	0.00		
6,297.0	6,297.0	Cherry Canyon	SANDY SHALE	0.00		
7,721.0	7,721.0	Brushy Canyon	SANDY SHALE	0.00		
9,061.0	9,061.0	Bone Spring Limestone	LIMESTONE	0.00		
10,211.0	10,211.0	1st Bone Spring	SANDSTONE	0.00		
10,744.7	10,736.0	2nd Bone Spring	SANDSTONE	0.00		