

District I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

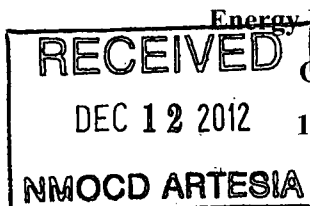
District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101
Revised November 14, 2012

Energy Minerals and Natural Resources



Oil Conservation Division

☐ AMENDED REPORT

1220 South St. Francis Dr.

Santa Fe, NM 87505

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

1. Operator Name and Address Chevron USA, Inc. 15 Smith Road Midland, TX 79705		2. OGRID Number 4323
3. Property Code 395 89	4. Property Name REMUDA BASIN 24 23 29 STATE	5. API Number 30-015-40905 S/S
		6. Well No. 1H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
A	24	23 S	29 E		150'	N	825'	E	Eddy

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
P	24	23 S	29 E		200'	S	825'	E	Eddy

9. Pool Information

Pool Name NASH DRAW; DELAWARE-BONE SPRING (AVALON SAND)	Pool Code 47545 97913
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Additional Well Information

11. Work Type N	12. Well Type O	13. Cable/Rotary R	14. Lease Type S	15. Ground Level Elevation 3006'
16. Multiple N	17. Proposed Depth 12,165'	18. Formation Bone Spring	19. Contractor TBD	20. Spud Date
Depth to Ground water 200'-350'		Distance from nearest fresh water well @ 1 Mile		Distance to nearest surface water 1.3 miles

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48#	225'	294	0'
Intermediate	11"	8 5/8"	32#	3125'	1463	0'
Production	7 7/8"	5 1/2"	17#	12,165'	2064	3005'

Casing/Cement Program: Additional Comments

Please see attached a detailed casing and cementing program and other information.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

23. I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that I have complied with 19.15.14.9 (A) NMAC ☐ and/or 19.15.14.9 (B) NMAC ☐ , if applicable. Signature: <i>Bryan Arrant</i>		OIL CONSERVATION DIVISION	
Printed name: Bryan Arrant-Agent for Chevron USA, Inc.		Approved By: <i>J. C. Shepard</i>	
Title: Regulatory Specialist II		Title: <i>66010515T</i>	
E-mail Address: bryan.arrant@chk.com		Approved Date: 12/13/2012 Expiration Date: 12/13/2014	
Date: 12/12/2012	Phone: (405)935-3782	Conditions of Approval Attached <i>NSL</i>	

REMUDA BASIN 24 23 29 STATE 1H
Unit A, Sec. 24, T-23-S R-29-E
Eddy County, New Mexico

NMOCD's forms C-102, C-144(CLEZ) pit permit, well bore diagram, directional planning report, and depth to ground water reports are enclosed. There are no known high levels of H₂S in this area. However, monitoring of H₂S and well readiness will be utilized in the drilling of this well. This permit application requires a NSL. Application will be filed with Santa Fe and copied for the Artesia District office. Application is for "drill only". Well is located in R-111-P.

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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 August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-40905	² Pool Code (97913)	³ Pool Name NASH DRAW; DELAWARE-BONE SPRING AVALON SAND
⁴ Property Code 39589	⁵ Property Name REMUDA BASIN 24 23 29 STATE	⁶ Well Number 1H
⁷ GRID No. 4323	⁸ Operator Name CHEVRON USA, INC.	⁹ Elevation 3006'

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
A	24	23 SOUTH	29 EAST, N.M.P.M.		150'	NORTH	825'	EAST	EDDY

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	24	23 SOUTH	29 EAST, N.M.P.M.		200'	SOUTH	825'	EAST	EDDY

¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. NSL-Pending
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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.

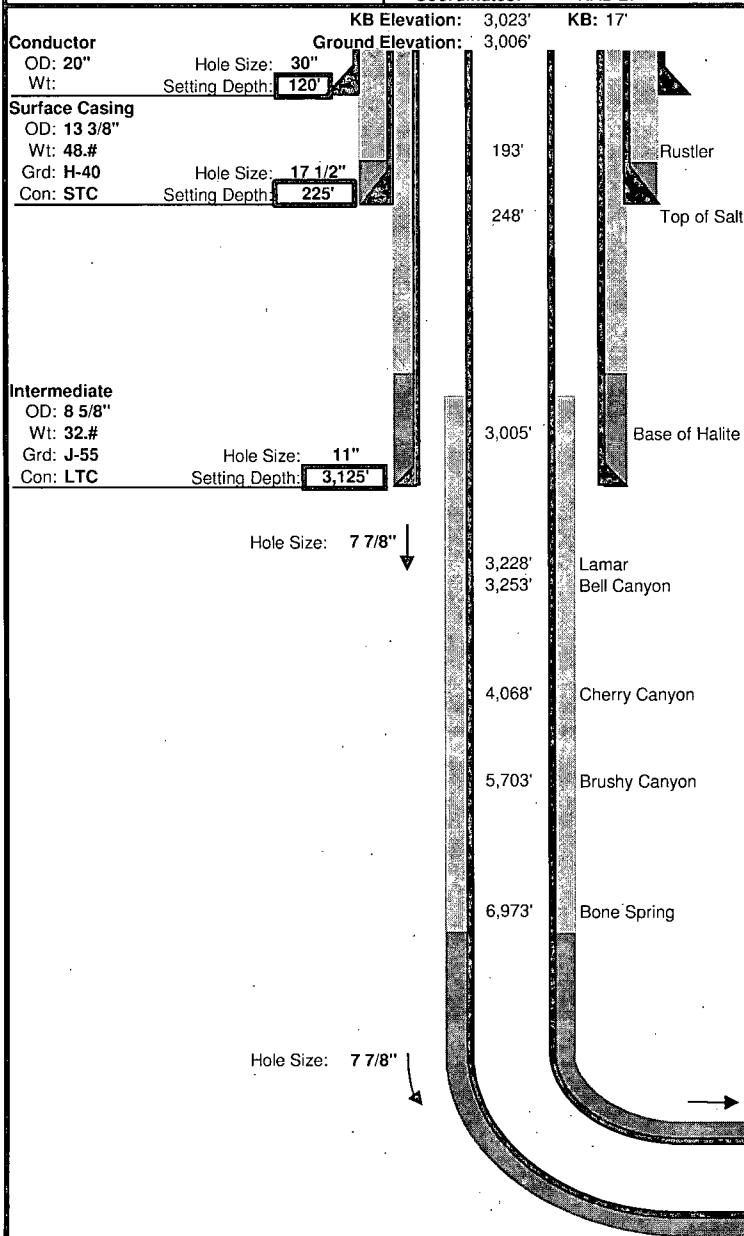
16 REMUDA BASIN 24 23 29 STATE NO. 1H WELL X= 624,061 NAD 27 Y= 472,077 LAT. 32.297218 LONG. 103.931829 X= 665,245 NAD83 Y= 472,137 LAT. 32.297341 LONG. 103.932320 ELEVATION +3006' NAVD 88	17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best 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 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>Bryan Arrant</i> 12/11/2012 Signature Date Bryan Arrant (Agent for Chevron) Printed Name bryan.arrant@chk.com E-mail Address



Drilling Engineer: Dan Melcher
Superintendent: Daniel Gipson
Geologist: Corey Dimond

Well Name: Remuda Basin 24-23-29 State 1H
Target: Upper Avalon
County, State: Eddy, NM
Surface Location: 150' FNL 825' FEL, Section 24, Township 23S, Range 29E
BH Location: 200' FSL 825' FEL, Section 24, Township 23S, Range 29E
SHL Latitude: 32.297218 SHL North: 472077
SHL Longitude: -103.931829 SHL East: 624061
BHL Latitude: 32.283589 BHL North: 467119
BHL Longitude: -103.931765 BHL East: 624100
Coordinates: NAD 27 Coordinates: NMSPCE

Drilling Rig: Trinidad 110
Directional: Phoenix
Drilling Mud: Nova
Cement: Schlumberger
Wellhead: Sunbelt
Property Number: 647200
AFE Number: 172680



Wellhead Equipment	
A Section	13-3/8" x 13-5/8" 5K SOW
B Section	13-5/8" 5K x 11" 5K
C Section	11" 5K X 7-1/16" 10K w/10k gate valve
D Section	N/A
Required BOP Stack	13-5/8" 5K- Double, Annular, Rot Head w/orbit valve

Mud				
Depth	Type	Weight	F. Vis	FL
0' - 225'	Spud Mud	8.4 - 8.7	32 - 34	NC - NC
225' - 3,125'	Brine	9.5 - 10.1	28 - 29	NC - NC
3,125' - 6,933'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC
6,933' - 7,685'	Cut Brine	8.3 - 9.5	32 - 36	15 - 25
7,685' - 12,165'	FW/Cut Brine	8.3 - 9.5	28 - 29	NC - NC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface	Lead	0'	125'	13.7	1.65	250	81
	Tail	125'	225'	14.8	1.33	250	213
Intermediate	Lead	0'	2,625'	12.0	1.99	250	1127
	Tail	2,625'	3,125'	14.2	1.37	250	336
Production	Lead	2,625'	6,933'	12.4	2.19	100	643
	Tail	6,933'	12,165'	14.5	1.28	100	1421

Type	Logs	Interval	Vendor
OH	Triple Combo	Base of Curve to Int Csg	TBD
LWD	MWD Gamma	Curve and Lateral	Phoenix

Directional Plan						
Target Line:	7,412' @ 0' VS w/90.1 deg inclination					
Target Window:	20' above, 20' below, 50' left, 50' right					
	MD	INC	AZM	TVD	VS	DLS
KOP	6,933'	0.00	0.00	6,933'	0'	0.00
EOB	7,685'	90.10	179.55	7,411'	478'	12.00
TD	12,165'	90.10	179.55	7,403'	4,958'	0.00
Hardlines:	Lateral- 330' from parallel lease lines. Vertical- Actual Lease Lines					
Notes:	Please note SHL and BHL distance from lease lines					

Permian District

NM -Eddy [Non-PLU Avalon Project]

Remuda Basin 24-23-29 State 1H

Well #1

Wellbore #1

Plan: Plat 06Dec12

Standard Planning Report

11 December, 2012

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Remuda Basin 24-23-29 State 1H
Company:	Permian District	TVD Reference:	WELL @ 3023.0usft (Original Well Elev)
Project:	NM -Eddy (Non-PLU Avalon Project)	MD Reference:	WELL @ 3023.0usft (Original Well Elev)
Site:	Remuda Basin 24-23-29 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 06Dec12		

Project	NM -Eddy (Non-PLU Avalon Project)		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Remuda Basin 24-23-29 State 1H		
Site Position:		Northing:	472,077.00 ft
From:	Map	Easting:	624,061.00 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	32° 17' 51.09612420 N
		Longitude:	104° 3' 56.19372516 W
		Grid Convergence:	0.14 °

Well	Well #1		
Well Position	+N/-S	0.0 usft	Northing:
	+E/-W	0.0 usft	Easting:
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,006.0 usft
		Latitude:	32° 17' 51.09612420 N
		Longitude:	104° 3' 56.19372516 W
		Ground Level:	3,006.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2010	12/11/2012	7.63
			Dip Angle
			(°)
			60.13
			Field Strength
			(nT)
			48,437

Design	Plat 06Dec12		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.0	0.0	0.0
			Direction
			(°)
			179.55

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	
6,933.7	0.00	0.00	6,933.7	0.0	0.0	0.00	0.00	0.00	0.00	
7,684.5	90.10	179.55	7,411.2	-478.3	3.8	12.00	12.00	0.00	179.55	
12,164.4	90.10	179.55	7,403.3	-4,958.0	39.0	0.00	0.00	0.00	0.00	Remuda Basin 24-23-

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Remuda Basin 24-23-29 State 1H
Company:	Permian District	TVD Reference:	WELL @ 3023.0usft (Original Well Elev)
Project:	NM Eddy [Non-PLU Avalon Project]	MD Reference:	WELL @ 3023.0usft (Original Well Elev)
Site:	Remuda Basin 24-23-29 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 06Dec12		

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	

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Remuda Basin 24-23-29 State 1H
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Project:	NM -Eddy (Non-PLU Avalon Project)	MD Reference:	WELL @ 3023.0usft (Original Well Elev)
Site:	Remuda Basin 24-23-29 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 06Dec12		

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)
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
6,933.7	0.00	0.00	6,933.7	0.0	0.0	0.0	0.00	0.00	0.00
6,950.0	1.96	179.55	6,950.0	-0.3	0.0	0.3	12.00	12.00	0.00
6,975.0	4.96	179.55	6,974.9	-1.8	0.0	1.8	12.00	12.00	0.00
7,000.0	7.96	179.55	6,999.8	-4.6	0.0	4.6	12.00	12.00	0.00
7,025.0	10.96	179.55	7,024.4	-8.7	0.1	8.7	12.00	12.00	0.00
7,050.0	13.96	179.55	7,048.9	-14.1	0.1	14.1	12.00	12.00	0.00
7,075.0	16.96	179.55	7,072.9	-20.8	0.2	20.8	12.00	12.00	0.00
7,100.0	19.96	179.55	7,096.7	-28.7	0.2	28.7	12.00	12.00	0.00
7,125.0	22.96	179.55	7,119.9	-37.8	0.3	37.8	12.00	12.00	0.00
7,150.0	25.96	179.55	7,142.7	-48.2	0.4	48.2	12.00	12.00	0.00
7,175.0	28.96	179.55	7,164.9	-59.7	0.5	59.7	12.00	12.00	0.00
7,200.0	31.96	179.55	7,186.4	-72.4	0.6	72.4	12.00	12.00	0.00
7,225.0	34.96	179.55	7,207.3	-86.1	0.7	86.1	12.00	12.00	0.00
7,250.0	37.96	179.55	7,227.4	-101.0	0.8	101.0	12.00	12.00	0.00
7,275.0	40.96	179.55	7,246.7	-116.9	0.9	116.9	12.00	12.00	0.00
7,300.0	43.96	179.55	7,265.1	-133.7	1.1	133.7	12.00	12.00	0.00
7,325.0	46.96	179.55	7,282.6	-151.6	1.2	151.6	12.00	12.00	0.00
7,350.0	49.96	179.55	7,299.2	-170.3	1.3	170.3	12.00	12.00	0.00
7,375.0	52.96	179.55	7,314.8	-189.8	1.5	189.8	12.00	12.00	0.00
7,400.0	55.96	179.55	7,329.3	-210.2	1.7	210.2	12.00	12.00	0.00
7,425.0	58.96	179.55	7,342.8	-231.2	1.8	231.2	12.00	12.00	0.00
7,450.0	61.96	179.55	7,355.1	-253.0	2.0	253.0	12.00	12.00	0.00
7,475.0	64.96	179.55	7,366.3	-275.3	2.2	275.3	12.00	12.00	0.00
7,500.0	67.96	179.55	7,376.3	-298.2	2.3	298.3	12.00	12.00	0.00
7,525.0	70.96	179.55	7,385.0	-321.7	2.5	321.7	12.00	12.00	0.00
7,550.0	73.96	179.55	7,392.6	-345.5	2.7	345.5	12.00	12.00	0.00
7,575.0	76.96	179.55	7,398.8	-369.7	2.9	369.7	12.00	12.00	0.00
7,600.0	79.96	179.55	7,403.9	-394.2	3.1	394.2	12.00	12.00	0.00
7,625.0	82.96	179.55	7,407.6	-418.9	3.3	418.9	12.00	12.00	0.00
7,650.0	85.96	179.55	7,410.0	-443.8	3.5	443.8	12.00	12.00	0.00
7,675.0	88.96	179.55	7,411.1	-468.7	3.7	468.8	12.00	12.00	0.00
7,684.5	90.10	179.55	7,411.2	-478.3	3.8	478.3	12.00	12.00	0.00
7,700.0	90.10	179.55	7,411.1	-493.7	3.9	493.8	0.00	0.00	0.00
7,800.0	90.10	179.55	7,411.0	-593.7	4.7	593.8	0.00	0.00	0.00
7,900.0	90.10	179.55	7,410.8	-693.7	5.5	693.8	0.00	0.00	0.00
8,000.0	90.10	179.55	7,410.6	-793.7	6.2	793.8	0.00	0.00	0.00
8,100.0	90.10	179.55	7,410.4	-893.7	7.0	893.8	0.00	0.00	0.00
8,200.0	90.10	179.55	7,410.3	-993.7	7.8	993.8	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site Remuda Basin 24-23-29 State 1H
Company:	Permian District	TVD Reference:	WELL @ 3023.0usft (Original Well Elev)
Project:	NM -Eddy (Non-PLU Avalon Project)	MD Reference:	WELL @ 3023.0usft (Original Well Elev)
Site:	Remuda Basin 24-23-29 State 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 06Dec12		

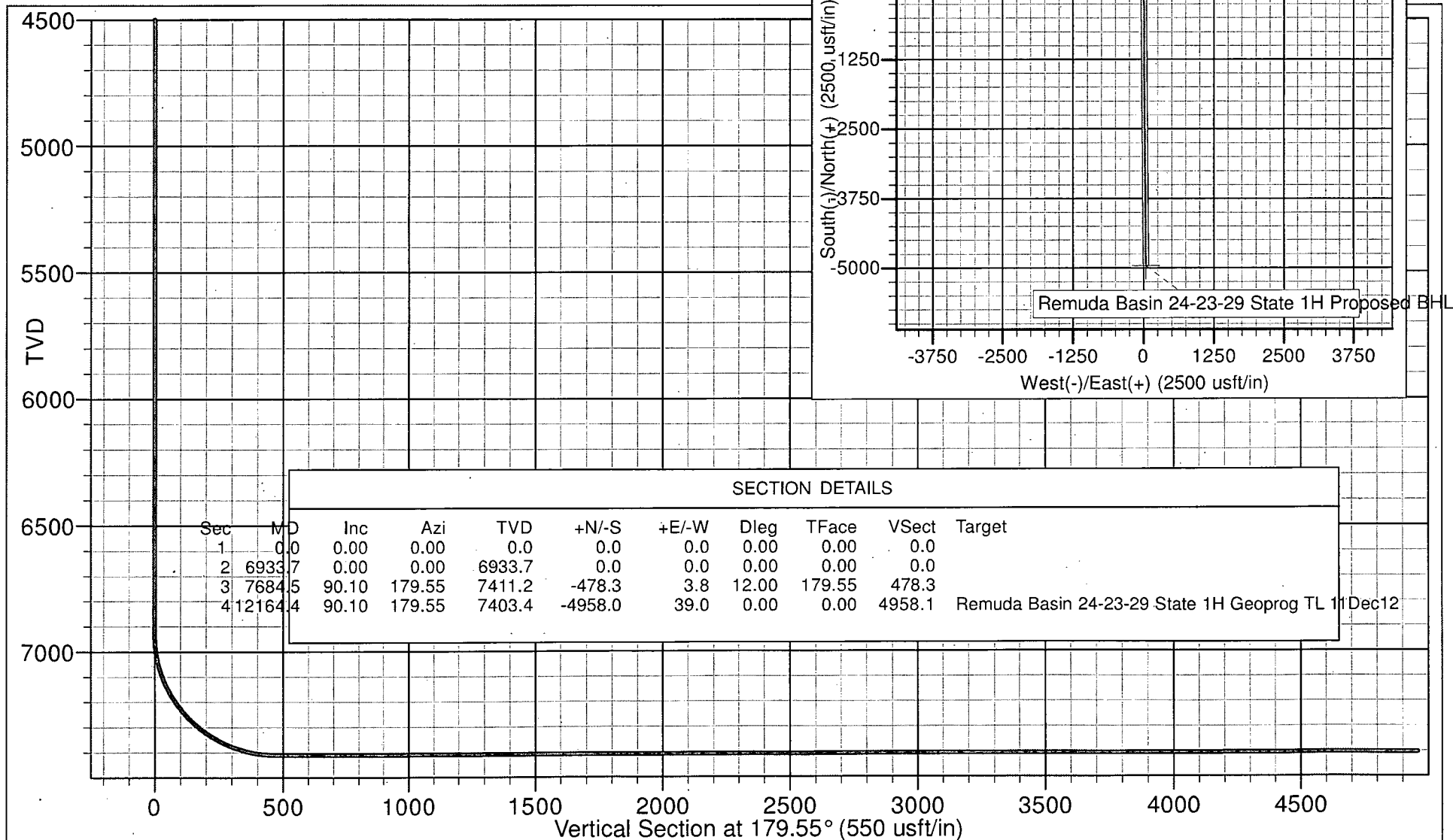
Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
8,300.0	90.10	179.55	7,410.1	-1,093.7	8.6	1,093.8	0.00	0.00	0.00	
8,400.0	90.10	179.55	7,409.9	-1,193.7	9.4	1,193.8	0.00	0.00	0.00	
8,500.0	90.10	179.55	7,409.7	-1,293.7	10.2	1,293.8	0.00	0.00	0.00	
8,600.0	90.10	179.55	7,409.6	-1,393.7	11.0	1,393.8	0.00	0.00	0.00	
8,700.0	90.10	179.55	7,409.4	-1,493.7	11.7	1,493.8	0.00	0.00	0.00	
8,800.0	90.10	179.55	7,409.2	-1,593.7	12.5	1,593.8	0.00	0.00	0.00	
8,900.0	90.10	179.55	7,409.0	-1,693.7	13.3	1,693.8	0.00	0.00	0.00	
9,000.0	90.10	179.55	7,408.9	-1,793.7	14.1	1,793.8	0.00	0.00	0.00	
9,100.0	90.10	179.55	7,408.7	-1,893.7	14.9	1,893.8	0.00	0.00	0.00	
9,200.0	90.10	179.55	7,408.5	-1,993.7	15.7	1,993.8	0.00	0.00	0.00	
9,300.0	90.10	179.55	7,408.3	-2,093.7	16.5	2,093.8	0.00	0.00	0.00	
9,400.0	90.10	179.55	7,408.2	-2,193.7	17.3	2,193.8	0.00	0.00	0.00	
9,500.0	90.10	179.55	7,408.0	-2,293.7	18.0	2,293.8	0.00	0.00	0.00	
9,600.0	90.10	179.55	7,407.8	-2,393.7	18.8	2,393.8	0.00	0.00	0.00	
9,700.0	90.10	179.55	7,407.7	-2,493.7	19.6	2,493.8	0.00	0.00	0.00	
9,800.0	90.10	179.55	7,407.5	-2,593.7	20.4	2,593.8	0.00	0.00	0.00	
9,900.0	90.10	179.55	7,407.3	-2,693.7	21.2	2,693.8	0.00	0.00	0.00	
10,000.0	90.10	179.55	7,407.1	-2,793.7	22.0	2,793.8	0.00	0.00	0.00	
10,100.0	90.10	179.55	7,407.0	-2,893.7	22.8	2,893.8	0.00	0.00	0.00	
10,200.0	90.10	179.55	7,406.8	-2,993.7	23.5	2,993.8	0.00	0.00	0.00	
10,300.0	90.10	179.55	7,406.6	-3,093.7	24.3	3,093.8	0.00	0.00	0.00	
10,400.0	90.10	179.55	7,406.4	-3,193.7	25.1	3,193.8	0.00	0.00	0.00	
10,500.0	90.10	179.55	7,406.3	-3,293.7	25.9	3,293.8	0.00	0.00	0.00	
10,600.0	90.10	179.55	7,406.1	-3,393.7	26.7	3,393.8	0.00	0.00	0.00	
10,700.0	90.10	179.55	7,405.9	-3,493.6	27.5	3,493.8	0.00	0.00	0.00	
10,800.0	90.10	179.55	7,405.7	-3,593.6	28.3	3,593.8	0.00	0.00	0.00	
10,900.0	90.10	179.55	7,405.6	-3,693.6	29.1	3,693.8	0.00	0.00	0.00	
11,000.0	90.10	179.55	7,405.4	-3,793.6	29.8	3,793.8	0.00	0.00	0.00	
11,100.0	90.10	179.55	7,405.2	-3,893.6	30.6	3,893.8	0.00	0.00	0.00	
11,200.0	90.10	179.55	7,405.0	-3,993.6	31.4	3,993.8	0.00	0.00	0.00	
11,300.0	90.10	179.55	7,404.9	-4,093.6	32.2	4,093.8	0.00	0.00	0.00	
11,400.0	90.10	179.55	7,404.7	-4,193.6	33.0	4,193.8	0.00	0.00	0.00	
11,500.0	90.10	179.55	7,404.5	-4,293.6	33.8	4,293.8	0.00	0.00	0.00	
11,600.0	90.10	179.55	7,404.3	-4,393.6	34.6	4,393.8	0.00	0.00	0.00	
11,700.0	90.10	179.55	7,404.2	-4,493.6	35.3	4,493.8	0.00	0.00	0.00	
11,800.0	90.10	179.55	7,404.0	-4,593.6	36.1	4,593.8	0.00	0.00	0.00	
11,900.0	90.10	179.55	7,403.8	-4,693.6	36.9	4,693.8	0.00	0.00	0.00	
12,000.0	90.10	179.55	7,403.6	-4,793.6	37.7	4,793.8	0.00	0.00	0.00	
12,100.0	90.10	179.55	7,403.5	-4,893.6	38.5	4,893.8	0.00	0.00	0.00	
12,164.4	90.10	179.55	7,403.3	-4,958.0	39.0	4,958.1	0.00	0.00	0.00	

Design Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
Remuda Basin 24-23-29	-0.10	179.55	7,403.3	-4,958.0	39.0	467,119.00	624,100.00	32° 17' 2.03162427 N	34° 3' 55.88357931 W	
- plan hits target center										
- Rectangle (sides W100.0 H4,958.2 D40.0)										

Project: NM -Eddy [Non-PLU Avalon Project]
 Site: Remuda Basin 24-23-29 State 1H
 Well: Well #1
 Wellbore: Wellbore #1
 Design: Plat 06Dec12

PROJECT DETAILS: NM -Eddy [Non-PLU Avalon Project]

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





New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters)

(In feet)

POD Number	Code	Subbasin	County	Q	Q	Q	Sec	Tws	Rng	X	Depth Y	Depth Well	Water Column
C_02486	C		ED	3	2	3	19	23S	30E	601304	3572832*	350	
											Average Depth to Water:	--	
											Minimum Depth:	--	
											Maximum Depth:	--	

Record Count: 1

Basin/County Search:

Basin: Carlsbad

County: Eddy

PLSS Search:

Section(s): 19

Township: 23S

Range: 30E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/12 8:46 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER



New Mexico Office of the State Engineer

Water Column/Average Depth to Water

(A CLW##### in the POD suffix indicates the POD has been replaced & no longer serves a water right file.)

(R=POD has been replaced,
O=orphaned,
C=the file is closed)

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	POD Code	Subbasin	County	Q Q Q	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
C 02797			ED	2	3	22	23S	29E	596540	3572895*	200	
											Average Depth to Water:	--
											Minimum Depth:	--
											Maximum Depth:	--

Record Count: 1

Basin/County Search:

Basin: Carlsbad

County: Eddy

PLSS Search:

Section(s): 22

Township: 23S

Range: 29E

*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.

12/11/12 8:45 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER