

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

HOBBS OCD Energy Minerals and Natural Resources

Oil Conservation Division

☐ AMENDED REPORT

DEC 11 2012

1220 South St. Francis Dr.

Santa Fe, NM 87505

RECEIVED

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. Project Code 310 789	4. Property Name MCCLOY RANCH 2 24 32 STATE COM.	5. API Number 30-025-40879
		6. Well No. 3H

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	2	24 S	32 E		100'	S	1502'	E	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
B	2	24 S	32 E		150'	N	1502'	E	LEA

9. Pool Information

Pool Name	Pool Code
TRISTE DRAW; HONE SPRING	96603

Additional Well Information

11. Work Type NEW WELL	12. Well Type OIL	13. Cable/Rotary R	14. Lease Type S	15. Ground Level Elevation 3605' GR
16. Multiple N	17. Proposed Depth 14,518'	18. Formation Bone Spring	19. Contractor TBD	20. Spud Date ASAP
Depth to Ground water Avg. Well Depth-529'		Distance from nearest fresh water well @ 1.5 miles		Distance to nearest surface water @16.5 miles

21. Proposed Casing and Cement Program

Type	Hole Size	Casing Size	Casing Weight/lb	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48	1300'	1371	0'
Intermediate	11"	8 5/8"	32#	4775'	1504	0'
Production	7 7/8"	5 1/2"	17#	14,518'	1919	4775'

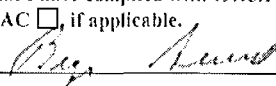
Casing/Cement Program: Additional Comments

Detailed casing, cementing and other regulatory information is attached.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	

Permit Expires 2 Years From Approval
Date Unless Drilling Underway

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: 		OIL CONSERVATION DIVISION	
Printed name: Bryan Arrant (Agent for Chevron)		Approved By: 	
Title: Regulatory Specialist II		Title:	
E-mail Address: bryan.arrant@chk.com		Approved Date: DEC 11 2012 Expiration Date:	
Date: 11/27/2012	Phone: 405.935.3782	Conditions of Approval Attached	

DEC 12 2012

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HOBBS OCD

State of New Mexico

Energy, Minerals & Natural Resources Department

DEC 11 2012 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

RECEIVED

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-40879		² Pool Code (96603)	³ Pool Name TRISTE DRAW; BONE SPRING
⁴ Property Code 310784	⁵ Property Name MCCLOY RANCH 2 24 32 STATE COM		⁶ Well Number 3H
⁷ OGRID No. 4323	⁸ Operator Name CHEVRON USA, INC.		⁹ Elevation 3605'

¹⁰ Surface Location

U1. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	2	24 SOUTH	32 EAST, N.M.P.M.		100'	SOUTH	1502'	EAST	LEA

¹¹ Bottom Hole Location If Different From Surface

U1. or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	2	24 SOUTH	32 EAST, N.M.P.M.		150'	NORTH	1502'	EAST	LEA

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

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.

PROPOSED BOTTOM HOLE LOCATION X= 713,955 NAD 27 Y= 456,582 LAT. 32.253366 LONG. 103.641241 X= 755,139 NAD83 Y= 456,642 LAT. 32.253490 LONG. 103.641722 MCCLOY RANCH 2 24 32 STATE COM 3H X= 714,002 NAD 27 Y= 451,570 LAT. 32.239588 LONG. 103.641193 X= 755,166 NAD83 Y= 451,629 LAT. 32.239712 LONG. 103.641674 ELEVATION +3603' NAD 83	Project Area Producing Area Projected Penetration Point 330' FSL & 1502' FEL	¹⁶ 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 does not own a working interest or released 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 a owner of such an interest working interest, or the voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. <i>Bryan Arrant</i> 11/20/2012 Signature Date Bryan Arrant (Agent) Printed Name bryan.arrant@chk.com E-mail Address ¹⁷ 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. Nov 19, 2012 Date of Survey Signature and Seal of Professional Surveyor 15078 Certificate Number W. J. DANIEL III NEW MEXICO REGISTERED PROFESSIONAL SURVEYOR 15078
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SHL Latitude:	SHL North:
SHL Longitude:	SHL East:
BHL Latitude:	BHL North:
BHL Longitude:	BHL East:
Coordinates:	Coordinates:

Drilling Rig:
Directional:
Drilling Mud:
Cement:
Wellhead:
Property Number:
AFE Number:

Hole Size: 7 7/8"

Hole Size: 7 7/8"

Hole Size: 7 7/8"

Production Casing
OD: 5 1/2"
Wt: 17.7#
Grd: P-110
Conn: LTC

Cement							
Slurry	Top	Btm	Wt	Yld	%Exc	Bbl	Sx
Surface							
Lead	0'	1,200'	13.7	1.65	150	356	121
Tail	1,200'	1,300'	14.8	1.33	150	38	160
Intermediate							
Lead	0'	4,275'	12.0	1.99	150	447	126
Tail	4,275'	4,775'	14.2	1.37	150	59	243
Production							
Lead	4,275'	9,233'	12.4	2.19	75	257	658
Tail	9,233'	14,518'	14.5	1.28	75	287	126

LOGS	Type	Logs	Interval	Vendor

[illegible]



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	POD Subbasin	County	Q 64	Q 16	Q 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water Column
<u>C 01932</u>	C		ED	3	1	12	24S	32E		628633	3567188*	492	
<u>C 03527 POD1</u>	C		LE	1	2	3	03	24S	32E	625770	3568487	500	
<u>C 03528 POD1</u>	C		LE	1	1	2	15	24S	32E	628040	3568129	541	
<u>C 03530 POD1</u>	C		LE	3	4	3	07	24S	32E	620886	3568156	550	
<u>C 03555 POD1</u>	C		LE	2	2	1	05	24S	32E	622709	3569231	560	

Average Depth to Water:

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Minimum Depth:

--

Maximum Depth:

--

Record Count: 5

Basin/County Search:

Basin: Carlsbad

Subbasin: Carlsbad

PLSS Search:

Section(s): 1-36

Township: 24S

Range: 32E

*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.

11/27/12 11:29 AM

WATER COLUMN/ AVERAGE
DEPTH TO WATER

MCCLOY RANCH 2 24 32 STATE COM 3H
Unit O, Sec. 2, T-24-S R-32 E
100' FSL & 1502' FEL
Lea County, NM

NMOCD's forms C-102, C-144(CLEZ) pit permit, well bore diagram, directional planning report, are attached. 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. Application for NSL will be filed with Santa Fe .This application is for "drill only."

HOBBS OCD

DEC 11 2012

RECEIVED

Permian District

NM- Lea- Avalon

McCloy Ranch 2-24-32 ST COM 3H

Well #1

Wellbore #1

Plan: Plat 11-19-12

Standard Planning Report

27 November, 2012

Chesapeake Operating

Planning Report

Database: Drilling Database
Company: Permian District
Project: NM- Lea- Avalon
Site: McCloy Ranch 2-24-32 ST COM 3H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat 11-19-12

Local Co-ordinate Reference: Site McCloy Ranch 2-24-32 ST COM 3H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	NM- Lea- Avalon		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site McCloy Ranch 2-24-32 ST COM 3H

Site Position: Northing: 451,570.00 ft Latitude: 32° 14' 22.50566090 N
From: Map Easting: 714,002.00 ft Longitude: 103° 38' 28.31505225 W
Position Uncertainty: 0.0 usft Slot Radius: 13.200 in Grid Convergence: 0.37 °

Well: Well #1
Well Position: +N/-S 0.0 usft Northing: 451,570.00 ft Latitude: 32° 14' 22.50566090 N
 +E/-W 0.0 usft Easting: 714,002.00 ft Longitude: 103° 38' 28.31505225 W
Position Uncertainty: 0.0 usft Wellhead Elevation: Ground Level: 0.0 usft

Wellbore Wellbore #1

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	10/30/2012	7.45	60.18	48,548

Design Plat 11-19-12

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	359.46

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	
9,233.1	0.00	0.00	9,233.1	0.0	0.0	0.00	0.00	0.00	0.00	
9,987.3	90.50	359.46	9,710.5	481.6	-4.5	12.00	12.00	0.00	359.46	
14,518.0	90.50	359.46	9,671.0	5,012.0	-47.0	0.00	0.00	0.00	0.00	MR 2-24-32 3H- B1

Chesapeake Operating

Planning Report

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MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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

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Wellbore: Wellbore #1
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North Reference: Grid
Survey Calculation Method: Minimum Curvature

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
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
9,233.1	0.00	0.00	9,233.1	0.0	0.0	0.0	0.00	0.00	0.00
9,300.0	8.03	359.46	9,299.8	4.7	0.0	4.7	12.00	12.00	0.00
9,400.0	20.03	359.46	9,396.6	28.9	-0.3	28.9	12.00	12.00	0.00
9,500.0	32.03	359.46	9,486.3	72.7	-0.7	72.7	12.00	12.00	0.00
9,600.0	44.03	359.46	9,564.9	134.2	-1.3	134.2	12.00	12.00	0.00
9,700.0	56.03	359.46	9,629.1	210.6	-2.0	210.7	12.00	12.00	0.00
9,800.0	68.03	359.46	9,675.9	298.8	-2.8	298.8	12.00	12.00	0.00
9,900.0	80.03	359.46	9,703.3	394.8	-3.7	394.8	12.00	12.00	0.00
9,987.3	90.50	359.46	9,710.5	481.6	-4.5	481.6	12.00	12.00	0.00
10,000.0	90.50	359.46	9,710.4	494.3	-4.6	494.4	0.00	0.00	0.00
10,100.0	90.50	359.46	9,709.6	594.3	-5.6	594.3	0.00	0.00	0.00
10,200.0	90.50	359.46	9,708.7	694.3	-6.5	694.3	0.00	0.00	0.00
10,300.0	90.50	359.46	9,707.8	794.3	-7.4	794.3	0.00	0.00	0.00
10,400.0	90.50	359.46	9,706.9	894.3	-8.4	894.3	0.00	0.00	0.00
10,500.0	90.50	359.46	9,706.1	994.3	-9.3	994.3	0.00	0.00	0.00

Chesapeake Operating Planning Report

Database: Drilling Database
Company: Permian District
Project: NM- Lea- Avalon
Site: McCloy Ranch 2-24-32 ST COM 3H
Well: Well #1
Wellbore: Wellbore #1
Design: Plat 11-19-12

Local Co-ordinate Reference: Site McCloy Ranch 2-24-32 ST COM 3H
TVD Reference: WELL @ 0.0usft (Original Well Elev)
MD Reference: WELL @ 0.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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)
10,600.0	90.50	359.46	9,705.2	1,094.3	-10.3	1,094.3	0.00	0.00	0.00
10,700.0	90.50	359.46	9,704.3	1,194.3	-11.2	1,194.3	0.00	0.00	0.00
10,800.0	90.50	359.46	9,703.4	1,294.3	-12.1	1,294.3	0.00	0.00	0.00
10,900.0	90.50	359.46	9,702.6	1,394.3	-13.1	1,394.3	0.00	0.00	0.00
11,000.0	90.50	359.46	9,701.7	1,494.2	-14.0	1,494.3	0.00	0.00	0.00
11,100.0	90.50	359.46	9,700.8	1,594.2	-14.9	1,594.3	0.00	0.00	0.00
11,200.0	90.50	359.46	9,700.0	1,694.2	-15.9	1,694.3	0.00	0.00	0.00
11,300.0	90.50	359.46	9,699.1	1,794.2	-16.8	1,794.3	0.00	0.00	0.00
11,400.0	90.50	359.46	9,698.2	1,894.2	-17.8	1,894.3	0.00	0.00	0.00
11,500.0	90.50	359.46	9,697.3	1,994.2	-18.7	1,994.3	0.00	0.00	0.00
11,600.0	90.50	359.46	9,696.5	2,094.2	-19.6	2,094.3	0.00	0.00	0.00
11,700.0	90.50	359.46	9,695.6	2,194.2	-20.6	2,194.3	0.00	0.00	0.00
11,800.0	90.50	359.46	9,694.7	2,294.2	-21.5	2,294.3	0.00	0.00	0.00
11,900.0	90.50	359.46	9,693.8	2,394.2	-22.5	2,394.3	0.00	0.00	0.00
12,000.0	90.50	359.46	9,693.0	2,494.2	-23.4	2,494.3	0.00	0.00	0.00
12,100.0	90.50	359.46	9,692.1	2,594.2	-24.3	2,594.3	0.00	0.00	0.00
12,200.0	90.50	359.46	9,691.2	2,694.1	-25.3	2,694.3	0.00	0.00	0.00
12,300.0	90.50	359.46	9,690.4	2,794.1	-26.2	2,794.3	0.00	0.00	0.00
12,400.0	90.50	359.46	9,689.5	2,894.1	-27.1	2,894.3	0.00	0.00	0.00
12,500.0	90.50	359.46	9,688.6	2,994.1	-28.1	2,994.3	0.00	0.00	0.00
12,600.0	90.50	359.46	9,687.7	3,094.1	-29.0	3,094.2	0.00	0.00	0.00
12,700.0	90.50	359.46	9,686.9	3,194.1	-30.0	3,194.2	0.00	0.00	0.00
12,800.0	90.50	359.46	9,686.0	3,294.1	-30.9	3,294.2	0.00	0.00	0.00
12,900.0	90.50	359.46	9,685.1	3,394.1	-31.8	3,394.2	0.00	0.00	0.00
13,000.0	90.50	359.46	9,684.2	3,494.1	-32.8	3,494.2	0.00	0.00	0.00
13,100.0	90.50	359.46	9,683.4	3,594.1	-33.7	3,594.2	0.00	0.00	0.00
13,200.0	90.50	359.46	9,682.5	3,694.1	-34.6	3,694.2	0.00	0.00	0.00
13,300.0	90.50	359.46	9,681.6	3,794.1	-35.6	3,794.2	0.00	0.00	0.00
13,400.0	90.50	359.46	9,680.8	3,894.0	-36.5	3,894.2	0.00	0.00	0.00
13,500.0	90.50	359.46	9,679.9	3,994.0	-37.5	3,994.2	0.00	0.00	0.00
13,600.0	90.50	359.46	9,679.0	4,094.0	-38.4	4,094.2	0.00	0.00	0.00
13,700.0	90.50	359.46	9,678.1	4,194.0	-39.3	4,194.2	0.00	0.00	0.00
13,800.0	90.50	359.46	9,677.3	4,294.0	-40.3	4,294.2	0.00	0.00	0.00
13,900.0	90.50	359.46	9,676.4	4,394.0	-41.2	4,394.2	0.00	0.00	0.00
14,000.0	90.50	359.46	9,675.5	4,494.0	-42.1	4,494.2	0.00	0.00	0.00
14,100.0	90.50	359.46	9,674.6	4,594.0	-43.1	4,594.2	0.00	0.00	0.00
14,200.0	90.50	359.46	9,673.8	4,694.0	-44.0	4,694.2	0.00	0.00	0.00
14,300.0	90.50	359.46	9,672.9	4,794.0	-45.0	4,794.2	0.00	0.00	0.00
14,400.0	90.50	359.46	9,672.0	4,894.0	-45.9	4,894.2	0.00	0.00	0.00
14,500.0	90.50	359.46	9,671.2	4,994.0	-46.8	4,994.2	0.00	0.00	0.00
14,518.0	90.50	359.46	9,671.0	5,012.0	-47.0	5,012.2	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 2-24-32 ST COM 3H
Company:	Permian District	TVD Reference:	WELL @ 0.0usft (Original Well Elev)
Project:	NM- Lea- Avalon	MD Reference:	WELL @ 0.0usft (Original Well Elev)
Site:	McCloy Ranch 2-24-32 ST COM 3H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 11-19-12		

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude
- hit/miss target	(°)	(°)	(usft)	(usft)	(usft)	(ft)	(ft)		
- Shape									
MR 2-24-32 3H- BHL-	0.00	0.01	9,671.0	5,012.0	-47.0	456,582.00	713,955.00	15' 12.10542318 N	38' 28.48615234 W
- plan hits target center									
- Point									
MR 2-24-32 3H- SHL-	0.00	0.00	9,715.0	0.0	0.0	451,570.00	714,002.00	14' 22.50566090 N	38' 28.31505225 W
- plan misses target center by 201.3usft at 9600.0usft MD (9564.9 TVD, 134.2 N, -1.3 E)									
- Point									

Project: NM- Lea- Avalon
 Site: McCloy Ranch 2-24-32 ST COM 3H
 Well: Well #1
 Wellbore: Wellbore #1
 Design: Plat 11-19-12

PROJECT DETAILS: NM- Lea- Avalon

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: New Mexico East 3001

