

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

HOBBS OCD

FEB 22 2013

RECEIVED

State of New Mexico
Energy Minerals and Natural Resources
Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-101
 Revised November 14, 2012

☐ AMENDED REPORT

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		⁴ OGRID Number 4323
³ Property Code 39677		⁵ API Number 30025-41021
² Property Name MCCLOY RANCH 29 24 33 ST		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
C	29	24 S	33 E		100'	N	1980'	W	LEA

8. Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
N	29	24 S	28 E		330'	S	1980'	W	LEA

9. Pool Information

⁹ Pool Name TRISTE DRAW; BQNE SPRING, EAST	¹⁰ Pool Code 96682
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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 3536' GR
¹⁶ Multiple N	¹⁷ Proposed Depth 15,698'	¹⁸ Formation Bone Spring	¹⁹ Contractor TBD	²⁰ Spud Date
Depth to Ground water 70'		Distance from nearest fresh water well < 1/4 MILE		Distance to nearest surface water >16 MILES

21. Proposed Casing and Cement Program

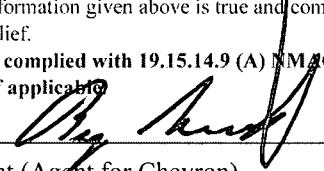
Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surface	17 1/2"	13 3/8"	48#	1300'	1800	0
Intermediate	12 1/4"	9 5/8"	40#	5000'	1800	0'
Production	8 3/4"	5 1/2"	17#	15,698'	1400	4500'

Casing/Cement Program: Additional Comments

SEE ATTACHMENTS FOR DETAILED INFORMATION.

22. Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	5000	5000	Shaffer

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:  Printed name: Bryan Arrant (Agent for Chevron) Title: Regulatory Specialist II E-mail Address: bryan.arrant@chk.com Date: 02/21/2013	OIL CONSERVATION DIVISION	
	Approved By: 	
	Title: Petroleum Engineer	
	Approved Date: 02/26/13	Expiration Date: 02/26/15
	Conditions of Approval Attached	

FEB 27 2013

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HOBBS OCD

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

FEB 22 2013

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☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-025-41021		² Pool Code (96682)		³ Pool Name TRISTE DRAW; BONE SPRING, EAST	
⁴ Property Code 39677		⁵ Property Name MCCLOY RANCH 29 24 33 ST			⁶ Well Number 1H
⁷ OGRID No. 4323		⁸ Operator Name CHEVRON U.S.A. INC.			⁹ Elevation 3536'

Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
C	29	24 SOUTH	33 EAST, N.M.P.M.		100'	NORTH	1980'	WEST	LEA

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
N	29	24 SOUTH	33 EAST, N.M.P.M.		330'	SOUTH	1980'	WEST	LEA

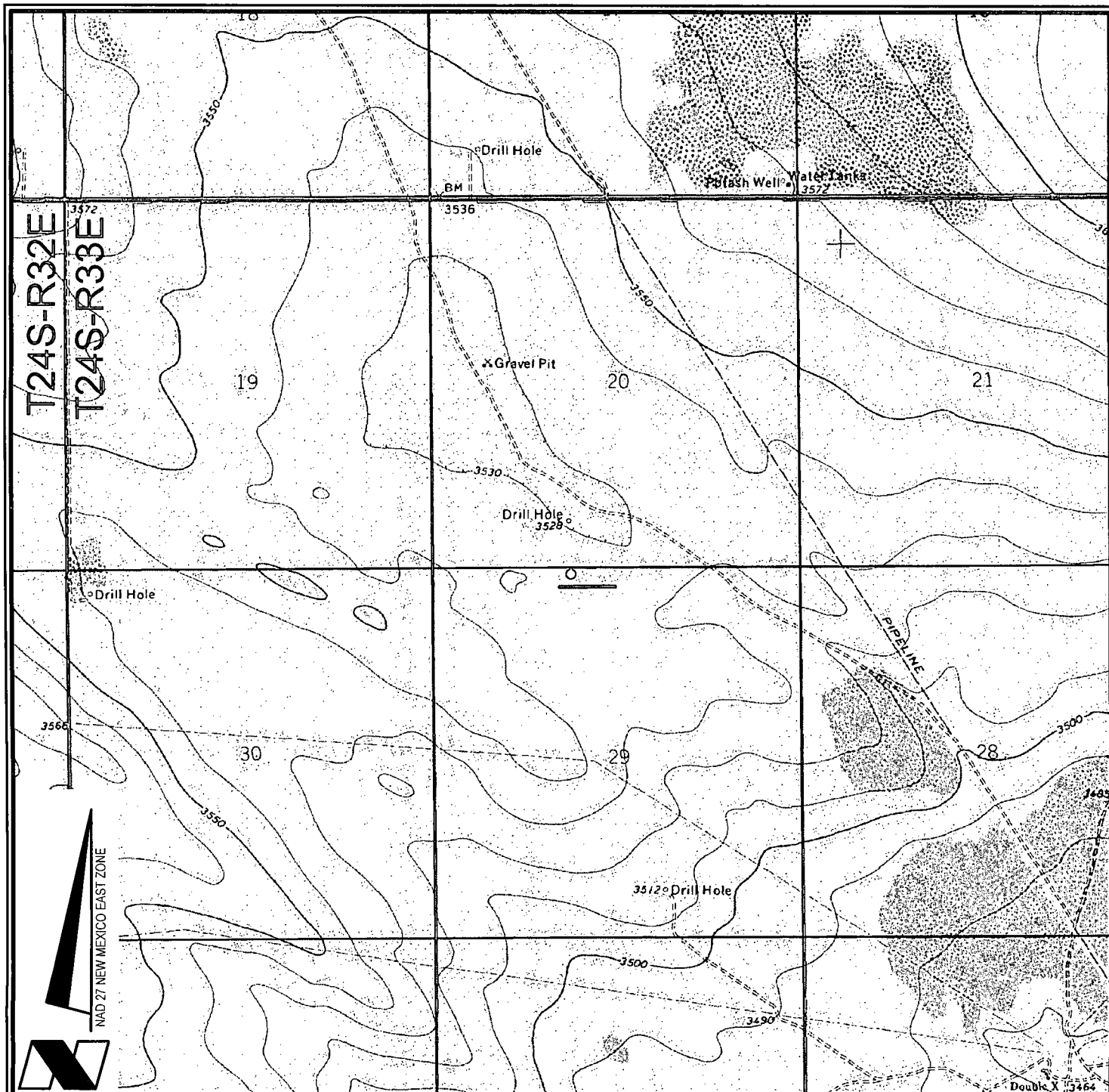
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

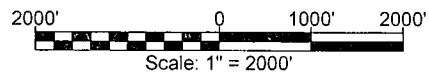
	MCCLOY RANCH 29 24 33 ST 1H X= 728,092 NAD 27 Y= 435,629 LAT. 32.195511 LONG. 103.595982 X= 769,276 NAD83 Y= 435,687 LAT. 32.195635 LONG. 103.596459 ELEVATION +3536' NAVD 83	OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or undivided 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the Division. Signature: <i>Bryan Arrant</i> Date: 02/05/2013 Printed Name: Bryan Arrant (Agent for Chevron) E-mail Address: bryan.arrant@chk.com
	PROPOSED BOTTOM HOLE LOCATION X= 728,127 NAD 27 Y= 430,745 LAT. 32.182086 LONG. 103.595974 X= 769,312 NAD83 Y= 430,804 LAT. 32.182211 LONG. 103.596451	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. Date of Survey: FEB 22, 2013 Signature and Seal: <i>Wm. J. Daniel III</i> Professional Surveyor Seal: Wm. J. DANIEL III NEW MEXICO 15073 REGISTERED PROFESSIONAL SURVEYOR Certificate Number: 15073

MCCLOY RANCH 29 24 33 ST 1H

NMOCD's forms C-102, C-144(CLEZ) pit permit, casing program, directional planning report, depth to ground water report, and other information is 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. Surface hole will be drilled with fresh water mud, intermediate-brine and production hole with cut-brine.



VICINITY MAP



CHEVRON U.S.A. INC.
 MCCLOY RANCH 29 24 33 ST NO. 1H WELL
 LOCATED 100' FNL AND 1980' FWL
 SECTION 29, T24S-R33E
 LEA COUNTY, NEW MEXICO



Lafayette New Orleans Houston
 135 Regency Sq. Lafayette, LA 70508
 Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO

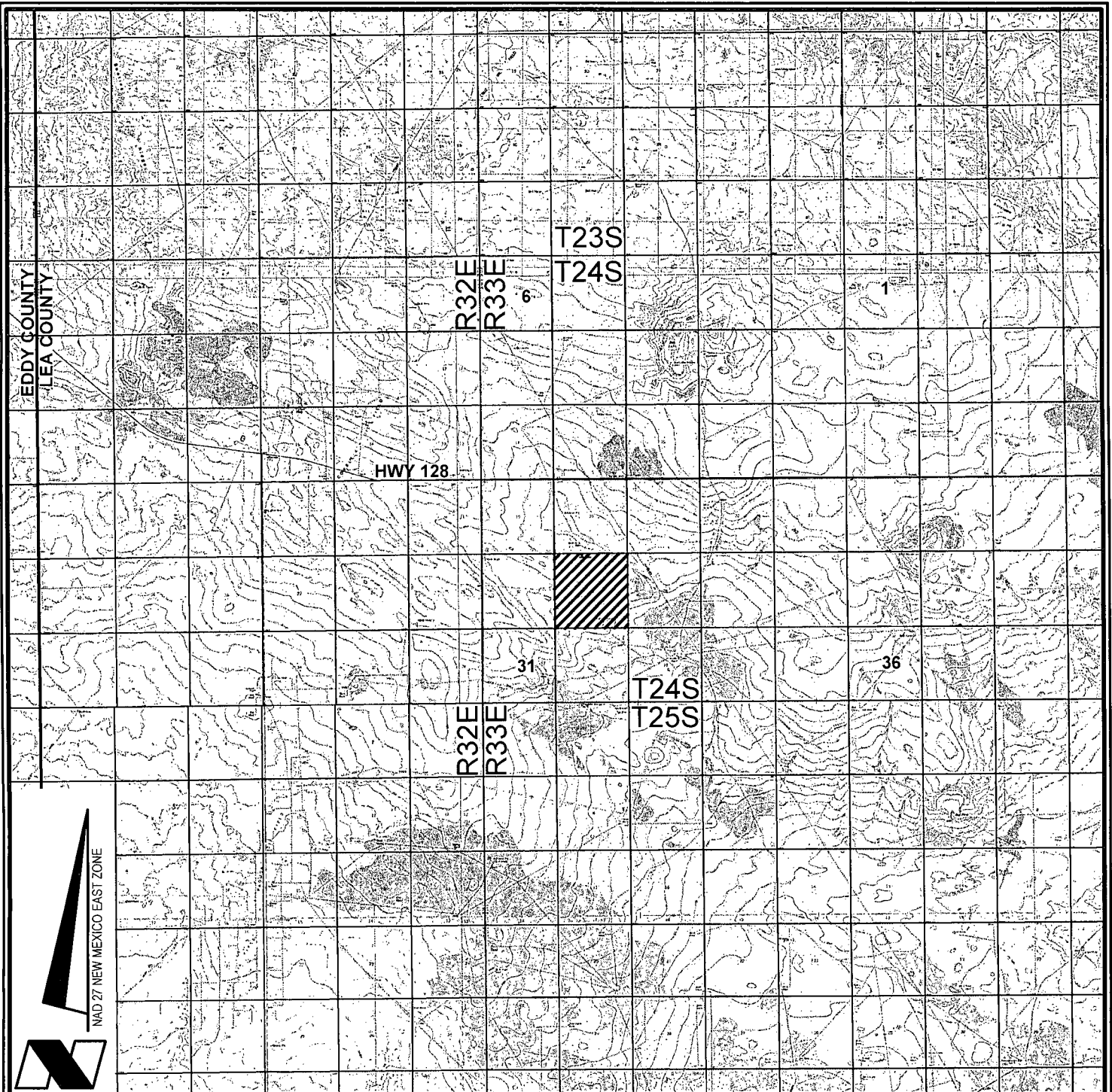
REVISED:

DATE: 01/16/2013

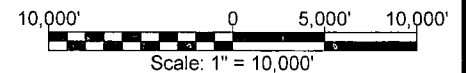
PROJ. MGR.: DBM

SHEET 1 OF 3 SHEETS

FILENAME: T:\2012\2128714\DWG\CUI_McCloy Ranch 29 24 33 St 1H_APD.dwg



VICINITY MAP



CHEVRON U.S.A. INC.

MCCLOY RANCH 29 24 33 ST NO. 1H WELL

LOCATED 100' FNL AND 1980' FWL

SECTION 29, T24S-R33E

LEA COUNTY, NEW MEXICO



Lafayette New Orleans Houston
135 Regency Sq. Lafayette, LA 70508
Ph. 337-237-2200 Fax. 337-232-3299
www.fenstermaker.com

DRAWN BY: BMO

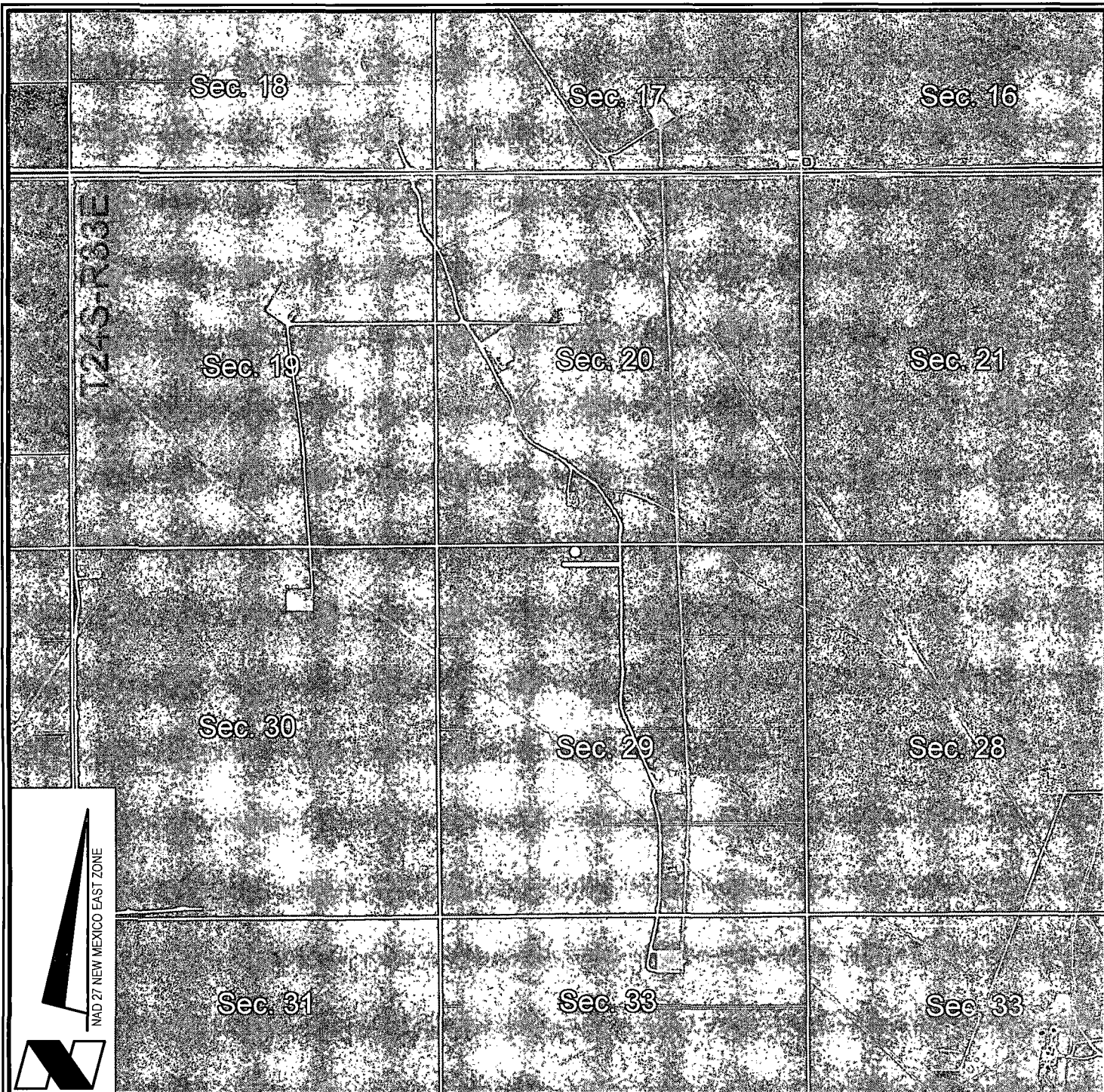
REVISED:

DATE: 01/16/2013

PROJ. MGR.: DBM

SHEET 2 OF 3 SHEETS

FILENAME: T:\2012\2128714\DWG\CUI_McCloy Ranch 29 24 33 St 1H_APD.dwg



VICINITY MAP

2000' 0 1000' 2000'
Scale: 1" = 2000'

-  = FEDERAL LAND
-  = FEE LAND
-  = STATE LAND

CHEVRON U.S.A. INC.
MCCLOY RANCH 29 24 33 ST NO. 1H WELL
 LOCATED 100' FNL AND 1980' FWL
 SECTION 29, T24S-R33E
 LEA COUNTY, NEW MEXICO



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 135 Regency Sq. Lafayette, LA 70508
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www.fenstermaker.com

DRAWN BY: BMO

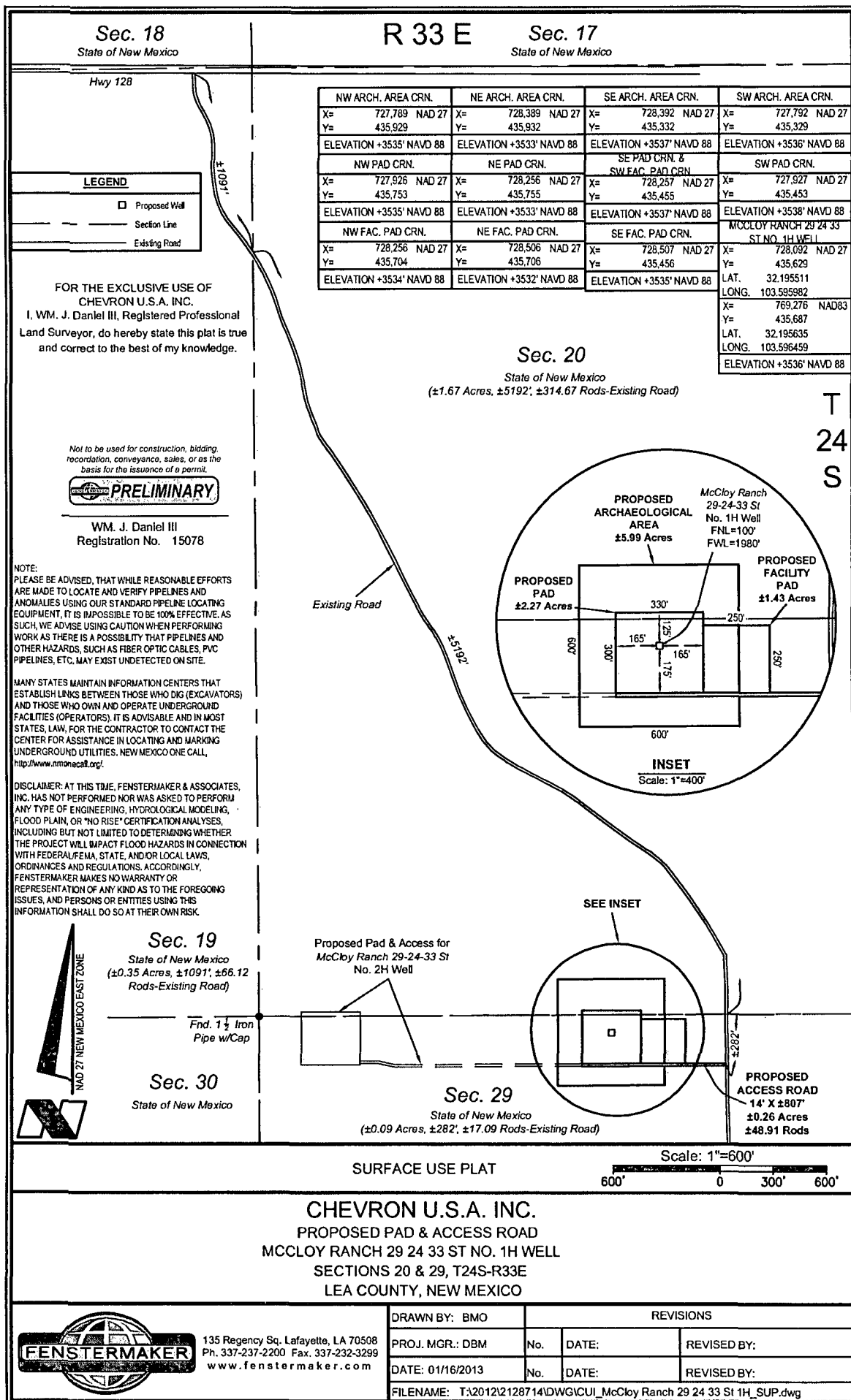
REVISED:

DATE: 01/16/2013

PROJ. MGR.: DBM

SHEET 3 OF 3 SHEETS

FILENAME: T:\2012\128714\DWG\CUI_McCloy Ranch 29 24 33 St 1H_APD.dwg



McCloy Ranch 29-24-33 ST 1H

Type	Hole Size (")	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	1,300	0	1,300	1,800
Intermediate	12.25	9.625	40	5,000	0	5,000	1,800
Production	8.75	5.5	17	15,698	4,500	11,322	1,400
		** Lateral will be an OH Packer Completion (no cement) from 15,698' (TD) to 11,322' (End of Curve). There will be a stage tool at the End of Curve to cement back up to 500' inside Intermediate csg thru.					

Permian District

**NM - Bone Spring Sand Project
McCloy Ranch 29-24-33 ST 1H
Well #1**

HOBBS OCD

FEB 22 2013

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Wellbore #1

Plan: Plat 20Feb13

Standard Planning Report

20 February, 2013

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3553.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3553.0usft
Site:	McCloy Ranch 29-24-33 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 20Feb13		

Project	NM - Bone Spring Sand Project		
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 29-24-33 ST 1H		
Site Position:		Northing:	435,629.00 ft
From:	Map	Easting:	728,092.00 ft
Position Uncertainty:	0.0 usft	Slot Radius:	13.200 in
		Latitude:	32° 11' 43.83254658 N
		Longitude:	103° 35' 45.54522034 W
		Grid Convergence:	0.39 °

Well:	Well #1		
Well Position	+N/-S	0.0 usft	Northing: 435,629.00 ft
	+E/-W	0.0 usft	Easting: 728,092.00 ft
Position Uncertainty	0.0 usft	Wellhead Elevation:	3,536.0 usft
		Latitude:	32° 11' 43.83254658 N
		Longitude:	103° 35' 45.54522034 W
		Ground Level:	3,536.0 usft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2010	2/20/2013	7.39
			Dip Angle (°)
			60.11
			Field Strength (nT)
			48,427

Design	Plat 20Feb13		
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 (°)
			179.59

Plan Sections										
Measured	Depth	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO
	(usft)	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)
				(usft)			(°/100usft)	(°/100usft)	(°/100usft)	
	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00
	10,571.7	0.00	0.00	10,571.7	0.0	0.0	0.00	0.00	0.00	0.00
	11,322.5	90.10	179.59	11,049.1	-478.3	3.4	12.00	12.00	0.00	179.59
	15,698.3	90.10	179.59	11,041.5	-4,854.0	35.0	0.00	0.00	0.00	0.00
										McCloy Ranch 29-2

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3553.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3553.0usft
Site:	McCloy Ranch 29-24-33 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 20Feb13		

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 McCloy Ranch 29-24-33 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3553.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3553.0usft
Site:	McCloy Ranch 29-24-33 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 20Feb13		

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
9,300.0	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
10,571.7	0.00	0.00	10,571.7	0.0	0.0	0.0	0.00	0.00	0.00
10,575.0	0.40	179.59	10,575.0	0.0	0.0	0.0	12.00	12.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3553.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3553.0usft
Site:	McCloy Ranch 29-24-33 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat: 20Feb13		

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	3.40	179.59	10,600.0	-0.8	0.0	0.8	12.00	12.00	0.00
10,625.0	6.40	179.59	10,624.9	-3.0	0.0	3.0	12.00	12.00	0.00
10,650.0	9.40	179.59	10,649.6	-6.4	0.0	6.4	12.00	12.00	0.00
10,675.0	12.40	179.59	10,674.2	-11.1	0.1	11.1	12.00	12.00	0.00
10,700.0	15.40	179.59	10,698.5	-17.1	0.1	17.1	12.00	12.00	0.00
10,725.0	18.40	179.59	10,722.4	-24.4	0.2	24.4	12.00	12.00	0.00
10,750.0	21.40	179.59	10,745.9	-32.9	0.2	32.9	12.00	12.00	0.00
10,775.0	24.40	179.59	10,768.9	-42.6	0.3	42.6	12.00	12.00	0.00
10,800.0	27.40	179.59	10,791.4	-53.6	0.4	53.6	12.00	12.00	0.00
10,825.0	30.40	179.59	10,813.3	-65.6	0.5	65.6	12.00	12.00	0.00
10,850.0	33.40	179.59	10,834.5	-78.8	0.6	78.9	12.00	12.00	0.00
10,875.0	36.40	179.59	10,855.0	-93.2	0.7	93.2	12.00	12.00	0.00
10,900.0	39.40	179.59	10,874.7	-108.5	0.8	108.5	12.00	12.00	0.00
10,925.0	42.40	179.59	10,893.6	-124.9	0.9	124.9	12.00	12.00	0.00
10,950.0	45.40	179.59	10,911.6	-142.2	1.0	142.2	12.00	12.00	0.00
10,975.0	48.40	179.59	10,928.7	-160.5	1.2	160.5	12.00	12.00	0.00
11,000.0	51.40	179.59	10,944.8	-179.6	1.3	179.6	12.00	12.00	0.00
11,025.0	54.40	179.59	10,959.9	-199.5	1.4	199.5	12.00	12.00	0.00
11,050.0	57.40	179.59	10,973.9	-220.2	1.6	220.2	12.00	12.00	0.00
11,075.0	60.40	179.59	10,986.8	-241.6	1.7	241.6	12.00	12.00	0.00
11,100.0	63.40	179.59	10,998.6	-263.7	1.9	263.7	12.00	12.00	0.00
11,125.0	66.40	179.59	11,009.2	-286.3	2.1	286.3	12.00	12.00	0.00
11,150.0	69.40	179.59	11,018.6	-309.5	2.2	309.5	12.00	12.00	0.00
11,175.0	72.40	179.59	11,026.8	-333.1	2.4	333.1	12.00	12.00	0.00
11,200.0	75.40	179.59	11,033.7	-357.1	2.6	357.1	12.00	12.00	0.00
11,225.0	78.40	179.59	11,039.4	-381.4	2.8	381.5	12.00	12.00	0.00
11,250.0	81.40	179.59	11,043.8	-406.0	2.9	406.1	12.00	12.00	0.00
11,275.0	84.40	179.59	11,046.9	-430.9	3.1	430.9	12.00	12.00	0.00
11,300.0	87.40	179.59	11,048.6	-455.8	3.3	455.8	12.00	12.00	0.00
11,322.5	90.10	179.59	11,049.1	-478.3	3.4	478.3	12.00	12.00	0.00
11,400.0	90.10	179.59	11,049.0	-555.8	4.0	555.8	0.00	0.00	0.00
11,500.0	90.10	179.59	11,048.8	-655.8	4.7	655.8	0.00	0.00	0.00
11,600.0	90.10	179.59	11,048.7	-755.8	5.4	755.8	0.00	0.00	0.00
11,700.0	90.10	179.59	11,048.5	-855.8	6.2	855.8	0.00	0.00	0.00
11,800.0	90.10	179.59	11,048.3	-955.8	6.9	955.8	0.00	0.00	0.00
11,900.0	90.10	179.59	11,048.1	-1,055.8	7.6	1,055.8	0.00	0.00	0.00
12,000.0	90.10	179.59	11,048.0	-1,155.8	8.3	1,155.8	0.00	0.00	0.00
12,100.0	90.10	179.59	11,047.8	-1,255.8	9.1	1,255.8	0.00	0.00	0.00
12,200.0	90.10	179.59	11,047.6	-1,355.8	9.8	1,355.8	0.00	0.00	0.00
12,300.0	90.10	179.59	11,047.4	-1,455.8	10.5	1,455.8	0.00	0.00	0.00
12,400.0	90.10	179.59	11,047.3	-1,555.7	11.2	1,555.8	0.00	0.00	0.00
12,500.0	90.10	179.59	11,047.1	-1,655.7	11.9	1,655.8	0.00	0.00	0.00
12,600.0	90.10	179.59	11,046.9	-1,755.7	12.7	1,755.8	0.00	0.00	0.00
12,700.0	90.10	179.59	11,046.7	-1,855.7	13.4	1,855.8	0.00	0.00	0.00
12,800.0	90.10	179.59	11,046.6	-1,955.7	14.1	1,955.8	0.00	0.00	0.00
12,900.0	90.10	179.59	11,046.4	-2,055.7	14.8	2,055.8	0.00	0.00	0.00
13,000.0	90.10	179.59	11,046.2	-2,155.7	15.5	2,155.8	0.00	0.00	0.00
13,100.0	90.10	179.59	11,046.0	-2,255.7	16.3	2,255.8	0.00	0.00	0.00
13,200.0	90.10	179.59	11,045.9	-2,355.7	17.0	2,355.8	0.00	0.00	0.00
13,300.0	90.10	179.59	11,045.7	-2,455.7	17.7	2,455.8	0.00	0.00	0.00
13,400.0	90.10	179.59	11,045.5	-2,555.7	18.4	2,555.8	0.00	0.00	0.00
13,500.0	90.10	179.59	11,045.3	-2,655.7	19.1	2,655.8	0.00	0.00	0.00
13,600.0	90.10	179.59	11,045.2	-2,755.7	19.9	2,755.8	0.00	0.00	0.00
13,700.0	90.10	179.59	11,045.0	-2,855.7	20.6	2,855.8	0.00	0.00	0.00

Chesapeake Operating

Planning Report

Database:	Drilling Database	Local Co-ordinate Reference:	Site McCloy Ranch 29-24-33 ST 1H
Company:	Permian District	TVD Reference:	RKB @ 3553.0usft
Project:	NM - Bone Spring Sand Project	MD Reference:	RKB @ 3553.0usft
Site:	McCloy Ranch 29-24-33 ST 1H	North Reference:	Grid
Well:	Well #1	Survey Calculation Method:	Minimum Curvature
Wellbore:	Wellbore #1		
Design:	Plat 20Feb13		

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)
13,800.0	90.10	179.59	11,044.8	-2,955.7	21.3	2,955.8	0.00	0.00	0.00
13,900.0	90.10	179.59	11,044.6	-3,055.7	22.0	3,055.8	0.00	0.00	0.00
14,000.0	90.10	179.59	11,044.5	-3,155.7	22.8	3,155.8	0.00	0.00	0.00
14,100.0	90.10	179.59	11,044.3	-3,255.7	23.5	3,255.8	0.00	0.00	0.00
14,200.0	90.10	179.59	11,044.1	-3,355.7	24.2	3,355.8	0.00	0.00	0.00
14,300.0	90.10	179.59	11,043.9	-3,455.7	24.9	3,455.8	0.00	0.00	0.00
14,400.0	90.10	179.59	11,043.8	-3,555.7	25.6	3,555.8	0.00	0.00	0.00
14,500.0	90.10	179.59	11,043.6	-3,655.7	26.4	3,655.8	0.00	0.00	0.00
14,600.0	90.10	179.59	11,043.4	-3,755.7	27.1	3,755.8	0.00	0.00	0.00
14,700.0	90.10	179.59	11,043.2	-3,855.7	27.8	3,855.8	0.00	0.00	0.00
14,800.0	90.10	179.59	11,043.1	-3,955.7	28.5	3,955.8	0.00	0.00	0.00
14,900.0	90.10	179.59	11,042.9	-4,055.7	29.2	4,055.8	0.00	0.00	0.00
15,000.0	90.10	179.59	11,042.7	-4,155.7	30.0	4,155.8	0.00	0.00	0.00
15,100.0	90.10	179.59	11,042.5	-4,255.7	30.7	4,255.8	0.00	0.00	0.00
15,200.0	90.10	179.59	11,042.4	-4,355.7	31.4	4,355.8	0.00	0.00	0.00
15,300.0	90.10	179.59	11,042.2	-4,455.7	32.1	4,455.8	0.00	0.00	0.00
15,400.0	90.10	179.59	11,042.0	-4,555.7	32.8	4,555.8	0.00	0.00	0.00
15,500.0	90.10	179.59	11,041.8	-4,655.7	33.6	4,655.8	0.00	0.00	0.00
15,600.0	90.10	179.59	11,041.7	-4,755.7	34.3	4,755.8	0.00	0.00	0.00
15,698.3	90.10	179.59	11,041.5	-4,854.0	35.0	4,854.1	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									
McCloy Ranch 29-24- - plan hits target center - Point	0.00	0.00	0.0	0.0	0.0	435,629.00	728,092.00	11' 43.83254658 N 35'	45.54522034 W
McCloy Ranch 29-24- - plan hits target center - Point	0.00	0.00	11,041.5	-4,854.0	35.0	430,775.00	728,127.00	10' 55.79694432 N 35'	45.52519257 W

Project: NM - Bone Spring Sand Project
 Site: McCloy Ranch 29-24-33 ST 1H
 Well: Well #1
 Wellbore: Wellbore #1
 Design: Plat 20Feb13

PROJECT DETAILS: NM - Bone Spring Sand Project

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

