

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Hobbs

FORM APPROVED
OMB No. 1004-0137
Expires: October 31, 2014**SUNDRY NOTICES AND REPORTS ON WELLS**
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.5. Lease Serial No.
NM 932230

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2.

7. If Unit of CA/Agreement, Name and/or No.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

RECEIVED

8. Well Name and Location
Madera 19 Federal #4H

2. Name of Operator

RMR OPERATING, LLC

9. API Well No.
30-025-41492

3a. Address

2515 MCKINNEY AVENUE SUITE 900
DALLAS, TEXAS 75201

3b. Phone No. (include area code)

214 - 871 - 0400

10. Field and Pool or Exploratory Area
JABALINA; DELAWARE,sw

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Surface 330' FSL & 1980' FWL Sec. 19, T-26S, R-35E
BHL 2310' FSL & 2216' FWL Sec. 18, T-26S, R-35E11. County or Parish, State
LEA COUNTY, NEW MEXICO

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☐ Other Plug Back current
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Lateral. Drill side track
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	Lateral

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

The lateral was drilled as proposed, a Peak open hole system was ran in the lateral. We lost a slip cage 10.78" long x 8.125" OD. The slips are 5.94" long x 2.313" wide x .775" thick, the casing was stuck, worked free and pulled from hole. An attempt was made to run concave mill and push debris to bottom, stuck mill at 12,600', worked free and pulled from hole. Ran in hole with 8 3/4" bit and ran in hole to bottom, circulated lateral and pulled from hole. Ran in hole with 8 3/4" bit, one jt of 4 1/2" drill pipe, 8 .5" string mill, and 4 1/2" drill pipe. Stuck with pit at 12,986', free pointde drill pipe and backed off ran in with jars, bumper subs and accelerators, worked pipe for 24 hours. The fishing tools quit working, free pointed and backed off, pulled out of hole with drill pipe and tools.

The back off was at 8,933' to bit at 12,986', ran in hole with disconnect, and drill pipe, screwed into fish. RU Halliburton circulated cement from bit at 12,986' to 8675'. Cement 12.6# Halid Lite 945 sacks 324 Bbls 1.93 yield 10.56 gals/sack.. Pulled to 40K over weight and released from disconnect, pulled out of hole with drill pipe. Ran in hole and tagged plug at 8,675', spotted class H 17.2# kick off cement, to 7,950'. Pulled out of hole with 4 1/2" drill pipe, lateral was kicked off at 8,455' we were 90 degrees at 9,307' to 16,035', the total length of lateral is 6,728'. The lateral was cemented from 12,986' to 7950', the lateral from 12,986 to 16,035 is open lateral.

Will pick up 5" string drill pipe and drill new curve and lateral as indicated in plan. Run Peak open hole system as proposed in orginal APD, with 5 1/2" HC P-110 GBCD with stage tools to circulate cement as proposed in orginal APD. The new lateral will be kicked off to the East of the orginal lateral and stay within the boundaries of this proration unit.

TVAC 9002' Proposed KO 8440' IN 8 3/4" OPEN Hole Proposed

Submit plat with new BHL

14. I hereby certify that the foregoing is true and correct. Name (Printed/Typed)

Tommy W. Folsom

Title EVP and Director of E & P

Signature

Date 01/27/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Office

APPROVED

JAN 29 2014

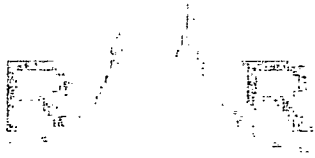
Date /s/ Chris Walls

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

FEB 11 2014



Red Mountain Resources

Lea County, New Mexico NAD 83

Madera 19 Fed

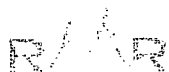
4H

ST01

Plan: Plan #2

Standard Planning Report

24 January, 2014



Wellplanning Planning Report

Database: EDM 5000.1 Single User Db
Company: Red Mountain Resources
Project: Lea County, New Mexico NAD 83
Site: Madera 19 Fed
Well: 4H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Site Madera 19 Fed
TVD Reference: WELL @ 3206.9usft (Original Well Elev)
MD Reference: WELL @ 3206.9usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, New Mexico NAD 83		
Map System:	US State Plane 1983	System Datum:	Ground Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

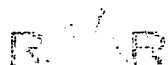
Site	Madera 19 Fed				
Site Position:		Northing:	373,138.76 usft	Latitude:	32° 1' 20.885 N
From:	Lat/Long	Easting:	827,888.47 usft	Longitude:	103° 24' 31.435 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.49 °

Well	4H					
Well Position	+N/-S	0.0 usft	Northing:	373,138.74 usft	Latitude:	32° 1' 20.885 N
	+E/-W	0.0 usft	Easting:	827,888.45 usft	Longitude:	103° 24' 31.435 W
Position Uncertainty	0.0 usft	Wellhead Elevation:	Ground Level:			3,183.9 usft

Wellbore	ST01				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	1/22/2014	7.17	59.96	48,253

Design	Plan #2			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	8,440.5
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)
	0.0	0.0	0.0	1.60

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
8,440.5	0.96	334.09	8,437.5	-7.0	82.2	0.00	0.00	0.00	0.00	
9,320.1	88.68	14.00	9,003.0	537.6	211.8	10.00	9.97	4.54	39.93	
9,520.0	88.68	10.00	9,007.6	733.1	253.4	2.00	0.00	-2.00	-90.05	
10,045.2	88.68	359.49	9,019.7	1,255.6	296.8	2.00	0.00	-2.00	-90.12	
11,184.9	88.68	359.49	9,046.0	2,395.0	286.7	0.00	0.00	0.00	0.00	TGTA(MAD19#4)
11,212.9	88.96	359.01	9,046.6	2,423.0	286.3	2.00	1.00	-1.73	-59.93	
12,140.2	88.96	359.01	9,063.4	3,350.0	270.3	0.00	0.00	0.00	0.00	TGTB(MAD19#4)
12,171.1	89.58	359.02	9,063.8	3,380.8	269.8	2.00	2.00	0.03	0.74	
13,661.5	89.58	359.02	9,074.8	4,871.0	244.2	0.00	0.00	0.00	0.00	TGTC(MAD19#4)
13,669.4	89.73	359.02	9,074.8	4,878.8	244.1	2.00	2.00	-0.02	-0.52	
14,993.8	89.73	359.02	9,081.0	6,203.1	221.3	0.00	0.00	0.00	0.00	TGTD(MAD19#4)
15,007.2	90.00	359.02	9,081.0	6,216.4	221.1	2.00	2.00	0.04	1.05	
16,050.3	90.00	359.02	9,081.0	7,259.4	203.2	0.00	0.00	0.00	0.00	PBHL(MAD19#4)



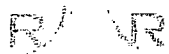
Wellplanning Planning Report

Database: EDM 5000.1 Single User Db
Company: Red Mountain Resources
Project: Lea County, New Mexico NAD 83
Site: Madera 19 Fed
Well: 4H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Site Madera 19 Fed
TVD Reference: WELL @ 3206.9usft (Original Well Elev)
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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)
5,249.0	1.90	102.50	5,247.0	7.8	77.3	10.0	0.00	0.00	0.00
5,451.0	1.10	106.40	5,448.9	6.5	82.5	8.8	0.40	-0.40	1.93
5,547.0	1.10	103.20	5,544.9	6.0	84.3	8.4	0.06	0.00	-3.33
5,642.0	1.10	122.70	5,639.9	5.3	85.9	7.8	0.39	0.00	20.53
5,737.0	1.10	122.40	5,734.9	4.4	87.4	6.8	0.01	0.00	-0.32
5,832.0	1.10	112.90	5,829.8	3.5	89.1	6.0	0.19	0.00	-10.00
5,927.0	1.20	117.80	5,924.8	2.7	90.8	5.3	0.15	0.11	5.16
6,022.0	1.10	115.30	6,019.8	1.8	92.5	4.5	0.12	-0.11	-2.63
6,117.0	1.20	117.30	6,114.8	1.0	94.2	3.7	0.11	0.11	2.11
6,212.0	1.20	107.60	6,209.8	0.2	96.0	3.0	0.21	0.00	-10.21
6,307.0	1.10	107.80	6,304.8	-0.3	97.8	2.4	0.11	-0.11	0.21
6,402.0	0.90	106.60	6,399.7	-0.8	99.4	2.0	0.21	-0.21	-1.26
6,496.0	1.10	107.30	6,493.7	-1.3	101.0	1.5	0.21	0.21	0.74
6,592.0	1.10	115.50	6,589.7	-2.0	102.7	0.9	0.16	0.00	8.54
6,687.0	1.10	100.80	6,684.7	-2.5	104.4	0.4	0.30	0.00	-15.47
6,782.0	1.10	100.20	6,779.7	-2.9	106.2	0.1	0.01	0.00	-0.63
6,877.0	1.10	110.40	6,874.7	-3.4	108.0	-0.3	0.21	0.00	10.74
6,972.0	1.20	115.90	6,969.6	-4.1	109.7	-1.0	0.16	0.11	5.79
7,066.0	1.10	114.50	7,063.6	-4.9	111.4	-1.8	0.11	-0.11	-1.49
7,162.0	1.10	104.00	7,159.6	-5.5	113.2	-2.3	0.21	0.00	-10.94
7,257.0	0.90	140.50	7,254.6	-6.3	114.5	-3.1	0.69	-0.21	38.42
7,351.0	1.10	227.10	7,348.6	-7.5	114.3	-4.3	1.47	0.21	92.13
7,446.0	1.20	225.20	7,443.6	-8.8	112.9	-5.6	0.11	0.11	-2.00
7,541.0	2.30	259.10	7,538.5	-9.9	110.4	-6.8	1.54	1.16	35.68
7,636.0	2.30	259.70	7,633.4	-10.6	106.6	-7.6	0.03	0.00	0.63
7,731.0	2.60	268.60	7,728.3	-11.0	102.6	-8.1	0.51	0.32	9.37
7,826.0	2.60	276.00	7,823.3	-10.8	98.3	-8.0	0.35	0.00	7.79
7,921.0	2.10	274.80	7,918.2	-10.4	94.4	-7.8	0.53	-0.53	-1.26
8,016.0	1.80	272.10	8,013.1	-10.2	91.2	-7.6	0.33	-0.32	-2.84
8,111.0	1.40	275.70	8,108.1	-10.1	88.5	-7.6	0.43	-0.42	3.79
8,206.0	1.60	295.90	8,203.0	-9.4	86.2	-6.9	0.59	0.21	21.26
8,301.0	1.10	303.30	8,298.0	-8.3	84.2	-5.9	0.56	-0.53	7.79
8,396.0	1.10	294.80	8,393.0	-7.4	82.7	-5.1	0.17	0.00	-8.95
8,422.0	0.70	311.50	8,419.0	-7.2	82.3	-4.9	1.82	-1.54	64.23
8,440.5	0.96	334.09	8,437.5	-7.0	82.2	-4.7	2.22	1.39	122.10
KOP - 8440.5 'MD, 0.96° INC, 334.09° AZI									
8,450.0	1.79	353.98	8,447.0	-6.8	82.1	-4.4	10.00	8.79	209.35
8,500.0	6.71	8.79	8,496.8	-3.1	82.5	-0.8	10.00	9.84	29.62
8,550.0	11.70	11.05	8,546.2	4.8	83.9	7.1	10.00	9.97	4.52
8,600.0	16.69	11.97	8,594.6	16.8	86.3	19.2	10.00	9.99	1.84
8,650.0	21.69	12.47	8,641.8	32.8	89.8	35.4	10.00	9.99	1.01
8,700.0	26.69	12.79	8,687.4	52.8	94.3	55.5	10.00	10.00	0.64
8,750.0	31.69	13.02	8,731.1	76.6	99.8	79.4	10.00	10.00	0.45
8,800.0	36.68	13.19	8,772.4	103.9	106.1	106.9	10.00	10.00	0.34
8,850.0	41.68	13.32	8,811.2	134.7	113.4	137.8	10.00	10.00	0.27
8,900.0	46.68	13.43	8,847.0	168.6	121.4	171.9	10.00	10.00	0.22
8,950.0	51.68	13.53	8,879.7	205.4	130.3	208.9	10.00	10.00	0.19
9,000.0	56.68	13.61	8,908.9	244.7	139.8	248.6	10.00	10.00	0.16
9,050.0	61.68	13.68	8,934.6	286.5	149.9	290.6	10.00	10.00	0.15
9,100.0	66.68	13.75	8,956.3	330.2	160.6	334.6	10.00	10.00	0.13
9,150.0	71.68	13.81	8,974.1	375.5	171.7	380.2	10.00	10.00	0.12
9,200.0	76.68	13.87	8,987.7	422.2	183.2	427.2	10.00	10.00	0.12
9,250.0	81.67	13.92	8,997.1	469.9	195.0	475.2	10.00	10.00	0.11
9,300.0	86.67	13.98	9,002.2	518.2	207.0	523.8	10.00	10.00	0.11



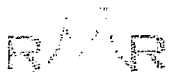
Wellplanning Planning Report

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9,320.1	88.68	14.00	9,003.0	537.6	211.8	543.4	9.98	9.98	0.11
EOC- 9320.1 'MD, 88.68° INC, 14.00° AZI									
9,400.0	88.68	12.40	9,004.8	615.4	230.1	621.6	2.00	0.00	-2.00
9,500.0	88.68	10.40	9,007.1	713.4	249.8	720.1	2.00	0.00	-2.00
9,520.0	88.68	10.00	9,007.6	733.1	253.4	739.9	2.00	0.00	-2.00
9,600.0	88.68	8.40	9,009.5	812.0	266.2	819.2	2.00	0.00	-2.00
9,700.0	88.67	6.40	9,011.8	911.2	279.0	918.6	2.00	0.00	-2.00
9,800.0	88.67	4.40	9,014.1	1,010.7	288.4	1,018.4	2.00	0.00	-2.00
9,900.0	88.68	2.40	9,016.4	1,110.5	294.4	1,118.3	2.00	0.00	-2.00
10,000.0	88.68	0.40	9,018.7	1,210.4	296.8	1,218.3	2.00	0.00	-2.00
10,045.2	88.68	359.49	9,019.7	1,255.6	296.8	1,263.4	2.00	0.00	-2.00
10,100.0	88.68	359.49	9,021.0	1,310.4	296.3	1,318.2	0.00	0.00	0.00
10,200.0	88.68	359.49	9,023.3	1,410.4	295.4	1,418.1	0.00	0.00	0.00
10,300.0	88.68	359.49	9,025.6	1,510.3	294.5	1,518.0	0.00	0.00	0.00
10,400.0	88.68	359.49	9,027.9	1,610.3	293.6	1,617.9	0.00	0.00	0.00
10,500.0	88.68	359.49	9,030.2	1,710.3	292.7	1,717.8	0.00	0.00	0.00
10,600.0	88.68	359.49	9,032.5	1,810.2	291.9	1,817.7	0.00	0.00	0.00
10,700.0	88.68	359.49	9,034.8	1,910.2	291.0	1,917.6	0.00	0.00	0.00
10,800.0	88.68	359.49	9,037.1	2,010.2	290.1	2,017.5	0.00	0.00	0.00
10,900.0	88.68	359.49	9,039.4	2,110.1	289.2	2,117.4	0.00	0.00	0.00
11,000.0	88.68	359.49	9,041.7	2,210.1	288.3	2,217.3	0.00	0.00	0.00
11,100.0	88.68	359.49	9,044.0	2,310.1	287.5	2,317.3	0.00	0.00	0.00
11,184.9	88.68	359.49	9,046.0	2,395.0	286.7	2,402.1	0.00	0.00	0.00
TGTA(MAD19#4)									
11,200.0	88.83	359.23	9,046.3	2,410.1	286.5	2,417.2	2.00	1.00	-1.73
11,212.9	88.96	359.01	9,046.6	2,423.0	286.3	2,430.1	2.00	1.00	-1.73
11,300.0	88.96	359.01	9,048.2	2,510.0	284.8	2,517.0	0.00	0.00	0.00
11,400.0	88.96	359.01	9,050.0	2,610.0	283.1	2,616.9	0.00	0.00	0.00
11,500.0	88.96	359.01	9,051.8	2,710.0	281.4	2,716.8	0.00	0.00	0.00
11,600.0	88.96	359.01	9,053.6	2,809.9	279.6	2,816.7	0.00	0.00	0.00
11,700.0	88.96	359.01	9,055.4	2,909.9	277.9	2,916.6	0.00	0.00	0.00
11,800.0	88.96	359.01	9,057.2	3,009.9	276.2	3,016.4	0.00	0.00	0.00
11,900.0	88.96	359.01	9,059.0	3,109.8	274.5	3,116.3	0.00	0.00	0.00
12,000.0	88.96	359.01	9,060.9	3,209.8	272.7	3,216.2	0.00	0.00	0.00
12,100.0	88.96	359.01	9,062.7	3,309.8	271.0	3,316.1	0.00	0.00	0.00
12,140.2	88.96	359.01	9,063.4	3,350.0	270.3	3,356.3	0.00	0.00	0.00
TGTB(MAD19#4)									
12,171.1	89.58	359.02	9,063.8	3,380.8	269.8	3,387.1	2.00	2.00	0.03
12,200.0	89.58	359.02	9,064.0	3,409.8	269.3	3,416.0	0.00	0.00	0.00
12,300.0	89.58	359.02	9,064.7	3,509.7	267.6	3,515.9	0.00	0.00	0.00
12,400.0	89.58	359.02	9,065.5	3,609.7	265.8	3,615.8	0.00	0.00	0.00
12,500.0	89.58	359.02	9,066.2	3,709.7	264.1	3,715.7	0.00	0.00	0.00
12,600.0	89.58	359.02	9,067.0	3,809.7	262.4	3,815.6	0.00	0.00	0.00
12,700.0	89.58	359.02	9,067.7	3,909.7	260.7	3,915.4	0.00	0.00	0.00
12,800.0	89.58	359.02	9,068.4	4,009.6	259.0	4,015.3	0.00	0.00	0.00
12,900.0	89.58	359.02	9,069.2	4,109.6	257.3	4,115.2	0.00	0.00	0.00
13,000.0	89.58	359.02	9,069.9	4,209.6	255.5	4,215.1	0.00	0.00	0.00
13,100.0	89.58	359.02	9,070.7	4,309.6	253.8	4,315.0	0.00	0.00	0.00
13,200.0	89.58	359.02	9,071.4	4,409.6	252.1	4,414.9	0.00	0.00	0.00
13,300.0	89.58	359.02	9,072.1	4,509.6	250.4	4,514.8	0.00	0.00	0.00
13,400.0	89.58	359.02	9,072.9	4,609.5	248.7	4,614.7	0.00	0.00	0.00
13,500.0	89.58	359.02	9,073.6	4,709.5	247.0	4,714.6	0.00	0.00	0.00
13,600.0	89.58	359.02	9,074.3	4,809.5	245.3	4,814.5	0.00	0.00	0.00



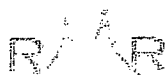
Wellplanning Planning Report

Database: EDM 5000.1 Single User Db
Company: Red Mountain Resources
Project: Lea County, New Mexico NAD 83
Site: Madera 19 Fed
Well: 4H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Site Madera 19 Fed
TVD Reference: WELL @ 3206.9usft (Original Well Elev)
MD Reference: WELL @ 3206.9usft (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)
13,661.5	89.58	359.02	9,074.8	4,871.0	244.2	4,875.9	0.00	0.00	0.00
TGTC(MAD19#4)									
13,669.4	89.73	359.02	9,074.8	4,878.8	244.1	4,883.8	2.00	2.00	-0.02
13,700.0	89.73	359.02	9,075.0	4,909.5	243.5	4,914.4	0.00	0.00	0.00
13,800.0	89.73	359.02	9,075.5	5,009.5	241.8	5,014.3	0.00	0.00	0.00
13,900.0	89.73	359.02	9,075.9	5,109.5	240.1	5,114.2	0.00	0.00	0.00
14,000.0	89.73	359.02	9,076.4	5,209.4	238.4	5,214.1	0.00	0.00	0.00
14,100.0	89.73	359.02	9,076.8	5,309.4	236.7	5,314.0	0.00	0.00	0.00
14,200.0	89.73	359.02	9,077.3	5,409.4	234.9	5,413.9	0.00	0.00	0.00
14,300.0	89.73	359.02	9,077.8	5,509.4	233.2	5,513.8	0.00	0.00	0.00
14,400.0	89.73	359.02	9,078.2	5,609.4	231.5	5,613.7	0.00	0.00	0.00
14,500.0	89.73	359.02	9,078.7	5,709.4	229.8	5,713.6	0.00	0.00	0.00
14,600.0	89.73	359.02	9,079.2	5,809.3	228.1	5,813.5	0.00	0.00	0.00
14,700.0	89.73	359.02	9,079.6	5,909.3	226.4	5,913.4	0.00	0.00	0.00
14,800.0	89.73	359.02	9,080.1	6,009.3	224.6	6,013.3	0.00	0.00	0.00
14,900.0	89.73	359.02	9,080.6	6,109.3	222.9	6,113.2	0.00	0.00	0.00
14,993.8	89.73	359.02	9,081.0	6,203.1	221.3	6,206.8	0.00	0.00	0.00
TGTD(MAD19#4)									
15,007.2	90.00	359.02	9,081.0	6,216.4	221.1	6,220.2	2.00	2.00	0.04
15,100.0	90.00	359.02	9,081.0	6,309.3	219.5	6,313.0	0.00	0.00	0.00
15,200.0	90.00	359.02	9,081.0	6,409.3	217.8	6,412.9	0.00	0.00	0.00
15,300.0	90.00	359.02	9,081.0	6,509.2	216.1	6,512.8	0.00	0.00	0.00
15,400.0	90.00	359.02	9,081.0	6,609.2	214.4	6,612.7	0.00	0.00	0.00
15,500.0	90.00	359.02	9,081.0	6,709.2	212.7	6,712.6	0.00	0.00	0.00
15,600.0	90.00	359.02	9,081.0	6,809.2	210.9	6,812.5	0.00	0.00	0.00
15,700.0	90.00	359.02	9,081.0	6,909.2	209.2	6,912.4	0.00	0.00	0.00
15,800.0	90.00	359.02	9,081.0	7,009.2	207.5	7,012.3	0.00	0.00	0.00
15,900.0	90.00	359.02	9,081.0	7,109.2	205.8	7,112.1	0.00	0.00	0.00
16,000.0	90.00	359.02	9,081.0	7,209.1	204.1	7,212.0	0.00	0.00	0.00
16,050.0	90.00	359.02	9,081.0	7,259.1	203.3	7,262.0	0.00	0.00	0.00
BHL - 16050.0 'MD, 90.00° INC, 359.02° AZI									
16,050.3	90.00	359.02	9,081.0	7,259.4	203.2	7,262.3	0.00	0.00	0.00
PBHL(MAD19#4)									



Wellplanning Planning Report

Database: EDM 5000.1 Single User Db
Company: Red Mountain Resources
Project: Lea County, New Mexico NAD 83
Site: Madera 19 Fed
Well: 4H
Wellbore: ST01
Design: Plan #2

Local Co-ordinate Reference: Site Madera 19 Fed
TVD Reference: WELL @ 3206.9usft (Original Well Elev)
MD Reference: WELL @ 3206.9usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Design Targets

Target Name									
- hit/miss target	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- Shape	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(usft)		
TGTA(MAD19#4)	0.00	0.00	9,046.0	2,395.0	286.7	375,533.76	828,175.17	32° 1' 44.559 N	103° 24' 27.867 W
- plan hits target center									
- Point									
TGTB(MAD19#4)	0.00	0.00	9,063.4	3,350.0	270.3	376,488.76	828,158.77	32° 1' 54.011 N	103° 24' 27.962 W
- plan hits target center									
- Point									
TGTC(MAD19#4)	0.00	0.00	9,074.8	4,871.0	244.2	378,009.76	828,132.67	32° 2' 9.063 N	103° 24' 28.114 W
- plan hits target center									
- Point									
PBHL(MAD19#4)	0.00	0.00	9,081.0	7,259.4	203.2	380,398.16	828,091.72	32° 2' 32.700 N	103° 24' 28.352 W
- plan hits target center									
- Point									
TGTD(MAD19#4)	0.00	0.00	9,081.0	6,203.1	221.3	379,341.81	828,109.78	32° 2' 22.246 N	103° 24' 28.247 W
- plan hits target center									
- Point									

Plan Annotations

Measured	Vertical	Local Coordinates		
Depth	Depth	+N/-S	+E/-W	Comment
(usft)	(usft)	(usft)	(usft)	
8,440.5	8,437.5	-7.0	82.2	KOP - 8440.5 'MD, 0.96° INC, 334.09° AZI
9,320.1	9,003.0	537.6	211.8	EOC - 9320.1 'MD, 88.68° INC, 14.00° AZI
16,050.0	9,081.0	7,259.1	203.3	BHL - 16050.0 'MD, 90.00° INC, 359.02° AZI

Lead Ship
12-55, January 21 2014
Nexus Directional Solutions
3825 CR 1285
Odessa TX 79705



Azimuths to Grid North
True North: -0.49°
Magnetic North: 6.68°

Magnetic Field
Strength: 48253.2nT
Dip Angle: 59.96°
Date: 1/22/2014
Model: IGRF2010

To convert a Magnetic Direction to a Grid Direction, Add 6.68°
To convert a True Direction to a Grid Direction, Subtract 0.49°

WELL DETAILS:

WELL @ 3206.9usft (Original Well Elev)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.0	0.0	373138.74	827888.45	32° 1' 20.885 N	103° 24' 31.435 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSecl	Target
8440.5	0.96	334.09	8437.5	-22.6	82.2	0.00	0.00	-20.2	
9320.1	88.68	14.00	9003.0	522.0	211.8	10.00	39.93	527.8	
9520.0	88.68	10.00	9007.6	717.5	253.4	2.00	-90.05	724.4	
10044.9	88.69	359.50	9019.7	1239.7	296.8	2.00	-90.04	1247.5	
11200.5	88.69	359.50	9046.0	2395.0	286.7	0.00	0.00	2402.1	TGTA(MAD19#4)
11228.4	88.96	359.01	9066.6	2422.9	286.3	2.00	-61.58	2430.0	
12155.8	88.96	359.01	9063.4	3350.0	270.3	0.00	0.00	3356.3	TGTB(MAD19#4)
12186.6	89.58	359.02	9063.8	3380.8	269.8	2.00	0.74	3387.1	
13677.1	89.58	359.02	9074.8	4871.0	244.2	0.00	0.00	4875.9	TGTC(MAD19#4)
13684.9	89.73	359.02	9074.8	4878.8	244.1	2.00	-0.52	4883.8	
15009.3	89.73	359.02	9081.0	6203.1	221.3	0.00	0.00	6206.8	TGTD(MAD19#4)
15022.7	90.00	359.02	9081.0	6216.4	221.1	2.00	1.05	6220.2	
16065.8	90.00	359.02	9081.0	7259.4	203.2	0.00	0.00	7262.3	PBHL(MAD19#4)

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
TGTA(MAD19#4)	9046.0	2395.0	286.7	375533.76	828175.17
TGTB(MAD19#4)	9063.4	3350.0	270.3	376488.76	828158.77
TGTC(MAD19#4)	9074.8	4871.0	244.2	378009.76	828132.67
PBHL(MAD19#4)	9081.0	7259.4	203.2	380398.16	828091.72
TGTD(MAD19#4)	9081.0	6203.1	221.3	379341.81	828109.76

Map System: US State Plane 1983
Datum: North American Datum 1983
Ellipsoid: GRS 1980
Zone Name: New Mexico Eastern Zone
Local Origin: Site Madera 19 Fed, Grid North
Latitude: 32° 1' 20.885 N
Longitude: 103° 24' 31.435 W
Grid East: 827888.47
Grid North: 373138.76
Scale Factor: 1.0000

Geomagnetic Model: IGRF2010
Sample Date: 22-Jan-14
Magnetic Declination: 7.17°
Dip Angle from Horizontal: 59.96°
Magnetic Field Strength: 48253

To convert a Magnetic Direction to a Grid Direction, Add 6.68°
To convert a Magnetic Direction to a True Direction, Add 7.17° East
To convert a True Direction to a Grid Direction, Subtract 0.49°

