

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
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 312-025-30587	Pool Code 97393	Pool Name GRAMA RIDGE; WOLF CAMP WEST
Property Code	Property Name SLICK MESA STATE 27 STATE	Well Number 1H
GRID No. 14187	Operator Name MARSHALL & WINSTON, INC	Elevation 3700'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	27	21-S	34-E		660	SOUTH	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
C	27	21-S	34-E		330	NORTH	1980	WEST	LEA

Dedicated Acres 160	Joint or Infill	Consolidation Code	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

	GEODETIC COORDINATES NAD 27 NME SURFACE LOCATION Y=526476.1 N X=769600.9 E LAT.=32.444363° N LONG.=103.459412° W BOTTOM HOLE LOCATION Y=530766.5 N X=769564.8 E	OPERATOR CERTIFICATION I hereby certify that the information 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 mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____ E-mail Address _____
	CORNER COORDINATES TABLE A - Y=531089.7 N, X=768900.7 E B - Y=531103.1 N, X=770218.9 E C - Y=525822.3 N, X=770267.0 E D - Y=525809.4 N, X=768947.1 E	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. JULY 31, 2013 Date of Survey _____ Signature of Professional Surveyor: _____ RONALD J. EIDSON NEW MEXICO 3239 08/12/2013 Cert. No. 12641 Professional Surveyor Ronald J. Eidson 3239 BKL JWSC W.O.: 13.11.0874

JUN 06 2014



Marshall & Winston, Inc

**Lea County, NM
Sec 27, T21S, R34E
Slick Mesa State 27 #1H**

Wellbore #1

HOBBS OCD

MAY 28 2014

Plan: Design #1

RECEIVED

DDC Well Planning Report

22 November, 2013



Database: EDM 5000.1 Single User Db
Company: Marshall & Winston, Inc
Project: Lea County, NM
Site: Sec 27, T21S, R34E
Well: Slick Mesa State 27 #1H
Wellbore: Wellbore #1
Design: Design #1

Local Co-ordinate Reference: Well Slick Mesa State 27 #1H
TVD Reference: WELL @ 3700.0usft (Original Well Elev)
MD Reference: WELL @ 3700.0usft (Original Well Elev)
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM		
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	Sec 27, T21S, R34E				
Site Position:		Northing:	526,476.10 usft	Latitude:	32° 26' 39.708 N
From:	Map	Easting:	769,600.90 usft	Longitude:	103° 27' 33.882 W
Position Uncertainty:	0.0 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.47 °

Well	Slick Mesa State 27 #1H					
Well Position	+N/-S	0.0 usft	Northing:	526,476.10 usft	Latitude:	32° 26' 39.708 N
	+E/-W	0.0 usft	Easting:	769,600.90 usft	Longitude:	103° 27' 33.882 W
Position Uncertainty		0.0 usft	Wellhead Elevation:		Ground Level:	3,700.0 usft

Wellbore	Wellbore #1				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/1/2013	7.27	60.35	48,529

Design	Design #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.0	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.0	0.0	0.0	359.52	

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
10,762.5	0.00	0.00	10,762.5	0.0	0.0	0.00	0.00	0.00	0.00	
11,512.5	90.00	359.52	11,240.0	477.4	-4.0	12.00	12.00	0.00	359.52	
15,325.6	90.00	359.52	11,240.0	4,290.4	-36.1	0.00	0.00	0.00	0.00	PBHL - Slick Mesa

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Local Co-ordinate Reference: Well Slick Mesa State 27 #1H
TVD Reference: WELL @ 3700.0usft (Original Well Elev)
MD Reference: WELL @ 3700.0usft (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)
Build @ 12°/100'									
10,762.5	0.00	0.00	10,762.5	0.0	0.0	0.0	0.00	0.00	0.00
10,775.0	1.50	359.52	10,775.0	0.2	0.0	0.2	12.00	12.00	0.00
10,800.0	4.50	359.52	10,800.0	1.5	0.0	1.5	12.00	12.00	0.00
10,825.0	7.50	359.52	10,824.8	4.1	0.0	4.1	12.00	12.00	0.00
10,850.0	10.50	359.52	10,849.5	8.0	-0.1	8.0	12.00	12.00	0.00
10,875.0	13.50	359.52	10,874.0	13.2	-0.1	13.2	12.00	12.00	0.00
10,900.0	16.50	359.52	10,898.1	19.7	-0.2	19.7	12.00	12.00	0.00
10,925.0	19.50	359.52	10,921.9	27.4	-0.2	27.4	12.00	12.00	0.00
10,950.0	22.50	359.52	10,945.2	36.3	-0.3	36.3	12.00	12.00	0.00
10,975.0	25.50	359.52	10,968.1	46.5	-0.4	46.5	12.00	12.00	0.00
11,000.0	28.50	359.52	10,990.3	57.8	-0.5	57.8	12.00	12.00	0.00
11,025.0	31.50	359.52	11,012.0	70.3	-0.6	70.3	12.00	12.00	0.00
11,050.0	34.50	359.52	11,032.9	84.0	-0.7	84.0	12.00	12.00	0.00
11,075.0	37.50	359.52	11,053.2	98.6	-0.8	98.6	12.00	12.00	0.00
11,100.0	40.50	359.52	11,072.6	114.4	-1.0	114.4	12.00	12.00	0.00
11,125.0	43.50	359.52	11,091.2	131.1	-1.1	131.1	12.00	12.00	0.00
11,150.0	46.50	359.52	11,108.9	148.8	-1.3	148.8	12.00	12.00	0.00
11,175.0	49.50	359.52	11,125.6	167.3	-1.4	167.3	12.00	12.00	0.00
11,200.0	52.50	359.52	11,141.3	186.8	-1.6	186.8	12.00	12.00	0.00
11,225.0	55.50	359.52	11,156.0	207.0	-1.7	207.0	12.00	12.00	0.00
11,250.0	58.50	359.52	11,169.6	228.0	-1.9	228.0	12.00	12.00	0.00
11,275.0	61.50	359.52	11,182.1	249.6	-2.1	249.6	12.00	12.00	0.00
11,300.0	64.50	359.52	11,193.5	271.9	-2.3	271.9	12.00	12.00	0.00
11,325.0	67.50	359.52	11,203.6	294.7	-2.5	294.7	12.00	12.00	0.00
11,350.0	70.50	359.52	11,212.6	318.0	-2.7	318.1	12.00	12.00	0.00
11,375.0	73.50	359.52	11,220.3	341.8	-2.9	341.8	12.00	12.00	0.00
11,400.0	76.50	359.52	11,226.8	366.0	-3.1	366.0	12.00	12.00	0.00
11,425.0	79.50	359.52	11,232.0	390.4	-3.3	390.4	12.00	12.00	0.00
11,450.0	82.50	359.52	11,235.9	415.1	-3.5	415.1	12.00	12.00	0.00
11,475.0	85.50	359.52	11,238.5	440.0	-3.7	440.0	12.00	12.00	0.00
11,500.0	88.50	359.52	11,239.8	464.9	-3.9	464.9	12.00	12.00	0.00
EOB @ 11513' MD / 90° Inc / 11240' TVD									
11,512.5	90.00	359.52	11,240.0	477.4	-4.0	477.5	12.00	12.00	0.00
11,600.0	90.00	359.52	11,240.0	564.9	-4.8	564.9	0.00	0.00	0.00
11,700.0	90.00	359.52	11,240.0	664.9	-5.6	664.9	0.00	0.00	0.00
11,800.0	90.00	359.52	11,240.0	764.9	-6.4	764.9	0.00	0.00	0.00
11,900.0	90.00	359.52	11,240.0	864.9	-7.3	864.9	0.00	0.00	0.00
12,000.0	90.00	359.52	11,240.0	964.9	-8.1	964.9	0.00	0.00	0.00
12,100.0	90.00	359.52	11,240.0	1,064.9	-9.0	1,064.9	0.00	0.00	0.00
12,200.0	90.00	359.52	11,240.0	1,164.9	-9.8	1,164.9	0.00	0.00	0.00
12,300.0	90.00	359.52	11,240.0	1,264.9	-10.6	1,264.9	0.00	0.00	0.00
12,400.0	90.00	359.52	11,240.0	1,364.9	-11.5	1,364.9	0.00	0.00	0.00
12,500.0	90.00	359.52	11,240.0	1,464.9	-12.3	1,464.9	0.00	0.00	0.00
12,600.0	90.00	359.52	11,240.0	1,564.9	-13.2	1,564.9	0.00	0.00	0.00
12,700.0	90.00	359.52	11,240.0	1,664.9	-14.0	1,664.9	0.00	0.00	0.00
12,800.0	90.00	359.52	11,240.0	1,764.9	-14.8	1,764.9	0.00	0.00	0.00
12,900.0	90.00	359.52	11,240.0	1,864.9	-15.7	1,864.9	0.00	0.00	0.00
13,000.0	90.00	359.52	11,240.0	1,964.9	-16.5	1,964.9	0.00	0.00	0.00
13,100.0	90.00	359.52	11,240.0	2,064.9	-17.4	2,064.9	0.00	0.00	0.00
13,200.0	90.00	359.52	11,240.0	2,164.9	-18.2	2,164.9	0.00	0.00	0.00
13,300.0	90.00	359.52	11,240.0	2,264.8	-19.1	2,264.9	0.00	0.00	0.00
13,400.0	90.00	359.52	11,240.0	2,364.8	-19.9	2,364.9	0.00	0.00	0.00
13,500.0	90.00	359.52	11,240.0	2,464.8	-20.7	2,464.9	0.00	0.00	0.00

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MD Reference: WELL @ 3700.0usft (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)
13,600.0	90.00	359.52	11,240.0	2,564.8	-21.6	2,564.9	0.00	0.00	0.00
13,700.0	90.00	359.52	11,240.0	2,664.8	-22.4	2,664.9	0.00	0.00	0.00
13,800.0	90.00	359.52	11,240.0	2,764.8	-23.3	2,764.9	0.00	0.00	0.00
13,900.0	90.00	359.52	11,240.0	2,864.8	-24.1	2,864.9	0.00	0.00	0.00
14,000.0	90.00	359.52	11,240.0	2,964.8	-24.9	2,964.9	0.00	0.00	0.00
14,100.0	90.00	359.52	11,240.0	3,064.8	-25.8	3,064.9	0.00	0.00	0.00
14,200.0	90.00	359.52	11,240.0	3,164.8	-26.6	3,164.9	0.00	0.00	0.00
14,300.0	90.00	359.52	11,240.0	3,264.8	-27.5	3,264.9	0.00	0.00	0.00
14,400.0	90.00	359.52	11,240.0	3,364.8	-28.3	3,364.9	0.00	0.00	0.00
14,500.0	90.00	359.52	11,240.0	3,464.8	-29.2	3,464.9	0.00	0.00	0.00
14,600.0	90.00	359.52	11,240.0	3,564.8	-30.0	3,564.9	0.00	0.00	0.00
14,700.0	90.00	359.52	11,240.0	3,664.8	-30.8	3,664.9	0.00	0.00	0.00
14,800.0	90.00	359.52	11,240.0	3,764.8	-31.7	3,764.9	0.00	0.00	0.00
14,900.0	90.00	359.52	11,240.0	3,864.8	-32.5	3,864.9	0.00	0.00	0.00
15,000.0	90.00	359.52	11,240.0	3,964.8	-33.4	3,964.9	0.00	0.00	0.00
15,100.0	90.00	359.52	11,240.0	4,064.8	-34.2	4,064.9	0.00	0.00	0.00
15,200.0	90.00	359.52	11,240.0	4,164.8	-35.0	4,164.9	0.00	0.00	0.00
15,300.0	90.00	359.52	11,240.0	4,264.8	-35.9	4,264.9	0.00	0.00	0.00
TD @ 15326' MD / 11240' TVD									
15,325.6	90.00	359.52	11,240.0	4,290.4	-36.1	4,290.6	0.00	0.00	0.00

Design Targets

Target Name

- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- Shape									
PBHL - Slick Mesa St:	0.00	0.00	11,240.0	4,290.4	-36.1	530,766.50	769,564.80	32° 27' 22.163 N	103° 27' 33.893 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,762.5	10,762.5	0.0	0.0	Build @ 12°/100'
11,512.5	11,240.0	477.4	-4.0	EOB @ 11513' MD / 90° Inc / 11240' TVD
15,325.6	11,240.0	4,290.4	-36.1	TD @ 15326' MD / 11240' TVD

AFE No. API # 30- Permit No. Project No.	 Slick Mesa 27-1H Lea County, NM Proposed Wellbore Sketch	AFE Information Dry Hole: Days: Proposed TD: 15,325' TMD 11,240' TVD v
<u>Well Information</u> Surface Location: Lea County, NM, Section 27 T21S R34E		