

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2018

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.
NMNM06531A
6. Lessee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on page 2

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

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other

2. Name of Operator

LEGACY RESERVES OPERATING LP

Contact: SHERRY MORROW

E-Mail: smorrow@legacyp.com

3a. Address

303 W WALL SUITE 1600
MIDLAND, TX 79702

3b. Phone No. (include area code)

Ph: 432-221-6339

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

Sec 11 T20S R34E NWNE 140FNL 1790FEL
32.594501 N Lat, 103.528145 W Lon

8. Well Name and No.
LEA UNIT 100H

9. API Well No.

30-025-45211

10. Field and Pool or Exploratory Area
LEA

11. County or Parish, State

LEA COUNTY, NM

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	☐ Hydraulic Fracturing	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original APD
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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.

Legacy Reserves is proposing a revised Bottom Hole Location (BHL). The revised BHL is located 2538' FNL of Section 14. See attached Form C-102 for details. Also attached the updated Directional Plan with Anti-Collision Report to reflect new BHL.

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #436292 verified by the BLM Well Information System
For LEGACY RESERVES OPERATING LP, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 09/20/2018 (18PP1950SE)

Name (Printed/Typed) MATT DICKSON

Title DRILLING ENGINEER

Signature (Electronic Submission)

Date 09/20/2018

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By

Mustafa Hogue

Title

Petroleum Engineer
Carlsbad Field Office

Date 9/21/2018

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.

Office

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.

(Instructions on page 2)

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

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 Rd., Artec, 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. Frances 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

API Number	Pool Code	Pool Name
Property Code	Property Name LEA UNIT	Well Number 100H
OGRID No.	Operator Name LEGACY RESERVES OPERATING LP	Elevation 3665'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
B	11	20 S	34 E		140	NORTH	1790	EAST	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
G	14	20 S	34 E		2538	NORTH	2210	EAST	LEA
Dedicated Acres	Joint or Infill	Consolidation Code	Order No.						

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

NOTE:

1) Plane Coordinates shown hereon are Transverse Mercator Grid and Conform to the "New Mexico Coordinate System", New Mexico East Zone, North American Datum of 1983. Distances shown hereon are mean horizontal surface values.

SURFACE LOCATION
(NAD83)
Plane Coordinate
X = 789,317.0
Y = 580,948.9
Geodetic (D.D.)
32.59450115° N
103.52814107° W

FIRST TAKE POINT
(NAD83)
Plane Coordinate
X = 788,898.5
Y = 580,757.4
Geodetic (D.D.)
32.59398343° N
103.52950471° W

BOTTOM HOLE LOCATION & LAST TAKE POINT
(NAD83)
Plane Coordinate
X = 788,956.9
Y = 573,269.9
Geodetic (D.D.)
32.57340297° N
103.52949873° W

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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Sherry Morrow 9/19/2018
Signature Date
Sherry Morrow
Printed Name
smorrow@legacylp.com
E-mail Address

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.

December 20, 2017
Date of Survey
Signature & Seal of Professional Surveyor
Lindsay Gyax
NEW MEXICO
23263
PROFESSIONAL SURVEYOR
W.O. Num. 2017
Certificate No. Lindsay Gyax 23263

Scale
1" = 2000'

Legacy Reserves

Lea County, NM (NAD83)

Lea

Lea Unit #100H

Original Wellbore

Plan: Plan 1

Standard Planning Report

17 September, 2018



Database: EDM 5000.1 Single User Db
Company: Legacy Reserves
Project: Lea County, NM (NAD83)
Site: Lea
Well: Lea Unit #100H
Wellbore: Original Wellbore
Design: Plan 1

Local Co-ordinate Reference: Well Lea Unit #100H
TVD Reference: RKB @ 3683.00ft
MD Reference: RKB @ 3683.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Project	Lea County, NM (NAD83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Lea		
Site Position:		Northing:	567,587.000 usft
From:	Map	Easting:	797,256.100 usft
Position Uncertainty:	0.00 ft	Slot Radius:	13-3/16"
		Latitude:	32.557609°N
		Longitude:	-103.502704
		Grid Convergence:	0.45 °

Well	Lea Unit #100H		
Well Position	+N-S	13,361.91 ft	Northing: 580,948.886 usft
	+E-W	-7,939.12 ft	Easting: 789,317.000 usft
Position Uncertainty	0.00 ft	Wellhead Elevation:	3.683.00 ft
		Latitude:	32.594501°N
		Longitude:	-103.528141
		Ground Level:	3.665.00 ft

Wellbore	Original Wellbore		
Magnetics	Model Name	Sample Date	Declination
			(°)
	IGRF2000	2/27/2018	6.73
			Dip Angle
			(°)
			60.60
			Field Strength
			(nT)
			48,250.50000000

Design	Plan 1		
Audit Notes:			
Version:	Phase:	PROTOTYPE	Tie On Depth: 0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0.00	0.00	0.00
			Direction
			(°)
			182.68

Plan Survey Tool Program **Date** 9/17/2018

	Depth From	Depth To	Survey (Wellbore)	Tool Name	Remarks
	(ft)	(ft)			
1	0.00	18.671.03	Plan 1 (Original Wellbore)	MWD	
				MWD - Standard	

Plan Sections

Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(ft)	(ft)	Rate	Rate	Rate	(°)	
(ft)			(ft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,737.21	11.06	251.32	1,732.64	-22.72	-67.18	1.50	1.50	0.00	251.32	
3,300.97	11.06	251.32	3,267.37	-118.78	-351.32	0.00	0.00	0.00	0.00	
4,038.18	0.00	0.00	4,000.01	-141.50	-418.50	1.50	-1.50	0.00	180.00	
10,860.77	0.00	0.00	10,822.60	-141.50	-418.50	0.00	0.00	0.00	0.00	
11,610.77	90.00	179.56	11,300.07	-618.95	-414.83	12.00	12.00	0.00	179.56	
18,671.03	90.00	179.55	11,300.02	-7,679.00	-360.10	0.00	0.00	0.00	-85.20	BHL-100H

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Well: Lea Unit #100H
Wellbore: Original Wellbore
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Local Co-ordinate Reference: Well Lea Unit #100H
TVD Reference: RKB @ 3683.00ft
MD Reference: RKB @ 3683.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	1.50	251.32	1,099.99	-0.42	-1.24	0.48	1.50	1.50	0.00
1,200.00	3.00	251.32	1,199.91	-1.68	-4.96	1.91	1.50	1.50	0.00
1,300.00	4.50	251.32	1,299.69	-3.77	-11.15	4.29	1.50	1.50	0.00
1,400.00	6.00	251.32	1,399.27	-6.70	-19.82	7.62	1.50	1.50	0.00
1,500.00	7.50	251.32	1,498.57	-10.47	-30.96	11.91	1.50	1.50	0.00
1,600.00	9.00	251.32	1,597.54	-15.06	-44.55	17.13	1.50	1.50	0.00
1,700.00	10.50	251.32	1,696.09	-20.49	-60.59	23.30	1.50	1.50	0.00
1,737.21	11.06	251.32	1,732.64	-22.72	-67.18	25.84	1.50	1.50	0.00
1,800.00	11.06	251.32	1,794.27	-26.57	-78.59	30.23	0.00	0.00	0.00
1,900.00	11.06	251.32	1,892.41	-32.72	-96.76	37.21	0.00	0.00	0.00
2,000.00	11.06	251.32	1,990.55	-38.86	-114.93	44.20	0.00	0.00	0.00
2,100.00	11.06	251.32	2,088.70	-45.00	-133.10	51.19	0.00	0.00	0.00
2,200.00	11.06	251.32	2,186.84	-51.15	-151.27	58.18	0.00	0.00	0.00
2,300.00	11.06	251.32	2,284.98	-57.29	-169.44	65.16	0.00	0.00	0.00
2,400.00	11.06	251.32	2,383.13	-63.43	-187.61	72.15	0.00	0.00	0.00
2,500.00	11.06	251.32	2,481.27	-69.58	-205.78	79.14	0.00	0.00	0.00
2,600.00	11.06	251.32	2,579.41	-75.72	-223.95	86.13	0.00	0.00	0.00
2,700.00	11.06	251.32	2,677.56	-81.86	-242.12	93.12	0.00	0.00	0.00
2,800.00	11.06	251.32	2,775.70	-88.01	-260.29	100.10	0.00	0.00	0.00
2,900.00	11.06	251.32	2,873.84	-94.15	-278.46	107.09	0.00	0.00	0.00
3,000.00	11.06	251.32	2,971.99	-100.29	-296.63	114.08	0.00	0.00	0.00
3,100.00	11.06	251.32	3,070.13	-106.44	-314.80	121.07	0.00	0.00	0.00
3,200.00	11.06	251.32	3,168.27	-112.58	-332.97	128.06	0.00	0.00	0.00
3,300.97	11.06	251.32	3,267.37	-118.78	-351.32	135.11	0.00	0.00	0.00
3,400.00	9.57	251.32	3,364.79	-124.46	-368.12	141.57	1.50	-1.50	0.00
3,500.00	8.07	251.32	3,463.61	-129.38	-382.64	147.16	1.50	-1.50	0.00
3,600.00	6.57	251.32	3,562.79	-133.46	-394.72	151.80	1.50	-1.50	0.00
3,700.00	5.07	251.32	3,662.27	-136.71	-404.33	155.50	1.50	-1.50	0.00
3,800.00	3.57	251.32	3,761.98	-139.12	-411.47	158.24	1.50	-1.50	0.00
3,900.00	2.07	251.32	3,861.86	-140.70	-416.13	160.04	1.50	-1.50	0.00
4,000.00	0.57	251.32	3,961.83	-141.44	-418.32	160.88	1.50	-1.50	0.00
4,038.18	0.00	0.00	4,000.01	-141.50	-418.50	160.95	1.50	-1.50	0.00
4,100.00	0.00	0.00	4,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,200.00	0.00	0.00	4,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,300.00	0.00	0.00	4,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,400.00	0.00	0.00	4,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,500.00	0.00	0.00	4,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,600.00	0.00	0.00	4,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,700.00	0.00	0.00	4,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,800.00	0.00	0.00	4,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
4,900.00	0.00	0.00	4,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,000.00	0.00	0.00	4,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,100.00	0.00	0.00	5,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00

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Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
5,200.00	0.00	0.00	5,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,300.00	0.00	0.00	5,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,400.00	0.00	0.00	5,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,500.00	0.00	0.00	5,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,600.00	0.00	0.00	5,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,700.00	0.00	0.00	5,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,800.00	0.00	0.00	5,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
5,900.00	0.00	0.00	5,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,000.00	0.00	0.00	5,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,100.00	0.00	0.00	6,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,200.00	0.00	0.00	6,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,300.00	0.00	0.00	6,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,400.00	0.00	0.00	6,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,500.00	0.00	0.00	6,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,600.00	0.00	0.00	6,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,700.00	0.00	0.00	6,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,800.00	0.00	0.00	6,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
6,900.00	0.00	0.00	6,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,000.00	0.00	0.00	6,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,100.00	0.00	0.00	7,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,200.00	0.00	0.00	7,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,300.00	0.00	0.00	7,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,400.00	0.00	0.00	7,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,500.00	0.00	0.00	7,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,600.00	0.00	0.00	7,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,700.00	0.00	0.00	7,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,800.00	0.00	0.00	7,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
7,900.00	0.00	0.00	7,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,000.00	0.00	0.00	7,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,100.00	0.00	0.00	8,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,200.00	0.00	0.00	8,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,300.00	0.00	0.00	8,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,400.00	0.00	0.00	8,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,500.00	0.00	0.00	8,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,600.00	0.00	0.00	8,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,700.00	0.00	0.00	8,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,800.00	0.00	0.00	8,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
8,900.00	0.00	0.00	8,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,000.00	0.00	0.00	8,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,100.00	0.00	0.00	9,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,200.00	0.00	0.00	9,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,300.00	0.00	0.00	9,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,400.00	0.00	0.00	9,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,500.00	0.00	0.00	9,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,600.00	0.00	0.00	9,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,700.00	0.00	0.00	9,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,800.00	0.00	0.00	9,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
9,900.00	0.00	0.00	9,861.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,000.00	0.00	0.00	9,961.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,100.00	0.00	0.00	10,061.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,200.00	0.00	0.00	10,161.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,300.00	0.00	0.00	10,261.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,400.00	0.00	0.00	10,361.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,500.00	0.00	0.00	10,461.83	-141.50	-418.50	160.95	0.00	0.00	0.00

Database: EDM 5000.1 Single User Db
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Site: Lea
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Wellbore: Original Wellbore
Design: Plan 1

Local Co-ordinate Reference: Well Lea Unit #100H
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MD Reference: RKB @ 3683.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
10,600.00	0.00	0.00	10,561.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,700.00	0.00	0.00	10,661.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,800.00	0.00	0.00	10,761.83	-141.50	-418.50	160.95	0.00	0.00	0.00
10,860.77	0.00	0.00	10,822.60	-141.50	-418.50	160.95	0.00	0.00	0.00
10,875.00	1.71	179.56	10,836.83	-141.71	-418.50	161.16	12.00	12.00	0.00
10,900.00	4.71	179.56	10,861.79	-143.11	-418.49	162.56	12.00	12.00	0.00
10,925.00	7.71	179.56	10,886.64	-145.81	-418.47	165.26	12.00	12.00	0.00
10,950.00	10.71	179.56	10,911.31	-149.81	-418.44	169.25	12.00	12.00	0.00
10,975.00	13.71	179.56	10,935.74	-155.10	-418.40	174.53	12.00	12.00	0.00
11,000.00	16.71	179.56	10,959.87	-161.66	-418.35	181.08	12.00	12.00	0.00
11,025.00	19.71	179.56	10,983.61	-169.47	-418.29	188.87	12.00	12.00	0.00
11,050.00	22.71	179.56	11,006.92	-178.51	-418.22	197.90	12.00	12.00	0.00
11,075.00	25.71	179.56	11,029.71	-188.76	-418.14	208.14	12.00	12.00	0.00
11,100.00	28.71	179.56	11,051.95	-200.19	-418.05	219.55	12.00	12.00	0.00
11,125.00	31.71	179.56	11,073.55	-212.76	-417.95	232.11	12.00	12.00	0.00
11,150.00	34.71	179.56	11,094.46	-226.45	-417.85	245.78	12.00	12.00	0.00
11,175.00	37.71	179.56	11,114.63	-241.22	-417.74	260.52	12.00	12.00	0.00
11,200.00	40.71	179.56	11,134.00	-257.02	-417.61	276.30	12.00	12.00	0.00
11,225.00	43.71	179.56	11,152.52	-273.81	-417.48	293.07	12.00	12.00	0.00
11,250.00	46.71	179.56	11,170.13	-291.55	-417.35	310.78	12.00	12.00	0.00
11,275.00	49.71	179.56	11,186.79	-310.19	-417.21	329.39	12.00	12.00	0.00
11,300.00	52.71	179.56	11,202.45	-329.67	-417.06	348.85	12.00	12.00	0.00
11,325.00	55.71	179.56	11,217.07	-349.95	-416.90	369.09	12.00	12.00	0.00
11,350.00	58.71	179.56	11,230.61	-370.96	-416.74	390.07	12.00	12.00	0.00
11,375.00	61.71	179.56	11,243.03	-392.65	-416.57	411.73	12.00	12.00	0.00
11,400.00	64.71	179.56	11,254.30	-414.97	-416.40	434.02	12.00	12.00	0.00
11,425.00	67.71	179.56	11,264.38	-437.84	-416.23	456.85	12.00	12.00	0.00
11,450.00	70.71	179.56	11,273.25	-461.21	-416.05	480.19	12.00	12.00	0.00
11,475.00	73.71	179.56	11,280.89	-485.01	-415.86	503.95	12.00	12.00	0.00
11,500.00	76.71	179.56	11,287.27	-509.17	-415.68	528.09	12.00	12.00	0.00
11,525.00	79.71	179.56	11,292.38	-533.64	-415.49	552.52	12.00	12.00	0.00
11,550.00	82.71	179.56	11,296.20	-558.35	-415.30	577.19	12.00	12.00	0.00
11,575.00	85.71	179.56	11,298.73	-583.21	-415.11	602.02	12.00	12.00	0.00
11,600.00	88.71	179.56	11,299.94	-608.18	-414.92	626.95	12.00	12.00	0.00
11,610.77	90.00	179.56	11,300.07	-618.95	-414.83	637.70	12.00	12.00	0.00
11,700.00	90.00	179.56	11,300.07	-708.18	-414.15	726.80	0.00	0.00	0.00
11,800.00	90.00	179.56	11,300.07	-808.17	-413.38	826.65	0.00	0.00	0.00
11,900.00	90.00	179.56	11,300.07	-908.17	-412.61	926.50	0.00	0.00	0.00
12,000.00	90.00	179.56	11,300.07	-1,008.17	-411.84	1,026.35	0.00	0.00	0.00
12,100.00	90.00	179.56	11,300.07	-1,108.17	-411.07	1,126.21	0.00	0.00	0.00
12,200.00	90.00	179.56	11,300.07	-1,208.16	-410.31	1,226.06	0.00	0.00	0.00
12,300.00	90.00	179.56	11,300.07	-1,308.16	-409.54	1,325.91	0.00	0.00	0.00
12,400.00	90.00	179.56	11,300.07	-1,408.16	-408.77	1,425.76	0.00	0.00	0.00
12,500.00	90.00	179.56	11,300.07	-1,508.15	-408.00	1,525.61	0.00	0.00	0.00
12,600.00	90.00	179.56	11,300.07	-1,608.15	-407.23	1,625.46	0.00	0.00	0.00
12,700.00	90.00	179.56	11,300.07	-1,708.15	-406.46	1,725.31	0.00	0.00	0.00
12,800.00	90.00	179.56	11,300.06	-1,808.15	-405.69	1,825.16	0.00	0.00	0.00
12,900.00	90.00	179.56	11,300.06	-1,908.14	-404.92	1,925.01	0.00	0.00	0.00
13,000.00	90.00	179.56	11,300.06	-2,008.14	-404.15	2,024.87	0.00	0.00	0.00
13,100.00	90.00	179.56	11,300.06	-2,108.14	-403.37	2,124.72	0.00	0.00	0.00
13,200.00	90.00	179.56	11,300.06	-2,208.13	-402.60	2,224.57	0.00	0.00	0.00
13,300.00	90.00	179.56	11,300.06	-2,308.13	-401.83	2,324.42	0.00	0.00	0.00
13,400.00	90.00	179.56	11,300.06	-2,408.13	-401.06	2,424.27	0.00	0.00	0.00
13,500.00	90.00	179.56	11,300.06	-2,508.12	-400.29	2,524.12	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
13,600.00	90.00	179.56	11,300.06	-2,608.12	-399.52	2,623.97	0.00	0.00	0.00
13,700.00	90.00	179.56	11,300.06	-2,708.12	-398.75	2,723.82	0.00	0.00	0.00
13,800.00	90.00	179.56	11,300.06	-2,808.12	-397.97	2,823.67	0.00	0.00	0.00
13,900.00	90.00	179.56	11,300.06	-2,908.11	-397.20	2,923.53	0.00	0.00	0.00
14,000.00	90.00	179.56	11,300.06	-3,008.11	-396.43	3,023.38	0.00	0.00	0.00
14,100.00	90.00	179.56	11,300.06	-3,108.11	-395.65	3,123.23	0.00	0.00	0.00
14,200.00	90.00	179.56	11,300.06	-3,208.10	-394.88	3,223.08	0.00	0.00	0.00
14,300.00	90.00	179.56	11,300.06	-3,308.10	-394.11	3,322.93	0.00	0.00	0.00
14,400.00	90.00	179.56	11,300.06	-3,408.10	-393.33	3,422.78	0.00	0.00	0.00
14,500.00	90.00	179.56	11,300.06	-3,508.09	-392.56	3,522.63	0.00	0.00	0.00
14,600.00	90.00	179.56	11,300.06	-3,608.09	-391.79	3,622.48	0.00	0.00	0.00
14,700.00	90.00	179.56	11,300.06	-3,708.09	-391.01	3,722.33	0.00	0.00	0.00
14,800.00	90.00	179.56	11,300.06	-3,808.09	-390.24	3,822.19	0.00	0.00	0.00
14,900.00	90.00	179.56	11,300.06	-3,908.08	-389.46	3,922.04	0.00	0.00	0.00
15,000.00	90.00	179.56	11,300.06	-4,008.08	-388.69	4,021.89	0.00	0.00	0.00
15,100.00	90.00	179.56	11,300.06	-4,108.08	-387.91	4,121.74	0.00	0.00	0.00
15,200.00	90.00	179.56	11,300.05	-4,208.07	-387.14	4,221.59	0.00	0.00	0.00
15,300.00	90.00	179.56	11,300.05	-4,308.07	-386.36	4,321.44	0.00	0.00	0.00
15,400.00	90.00	179.56	11,300.05	-4,408.07	-385.59	4,421.29	0.00	0.00	0.00
15,500.00	90.00	179.56	11,300.05	-4,508.06	-384.81	4,521.14	0.00	0.00	0.00
15,600.00	90.00	179.56	11,300.05	-4,608.06	-384.03	4,620.99	0.00	0.00	0.00
15,700.00	90.00	179.56	11,300.05	-4,708.06	-383.26	4,720.84	0.00	0.00	0.00
15,800.00	90.00	179.56	11,300.05	-4,808.06	-382.48	4,820.69	0.00	0.00	0.00
15,900.00	90.00	179.55	11,300.05	-4,908.05	-381.71	4,920.54	0.00	0.00	0.00
16,000.00	90.00	179.55	11,300.05	-5,008.05	-380.93	5,020.40	0.00	0.00	0.00
16,100.00	90.00	179.55	11,300.05	-5,108.05	-380.15	5,120.25	0.00	0.00	0.00
16,200.00	90.00	179.55	11,300.05	-5,208.04	-379.37	5,220.10	0.00	0.00	0.00
16,300.00	90.00	179.55	11,300.05	-5,308.04	-378.60	5,319.95	0.00	0.00	0.00
16,400.00	90.00	179.55	11,300.05	-5,408.04	-377.82	5,419.80	0.00	0.00	0.00
16,500.00	90.00	179.55	11,300.05	-5,508.03	-377.04	5,519.65	0.00	0.00	0.00
16,600.00	90.00	179.55	11,300.04	-5,608.03	-376.26	5,619.50	0.00	0.00	0.00
16,700.00	90.00	179.55	11,300.04	-5,708.03	-375.48	5,719.35	0.00	0.00	0.00
16,800.00	90.00	179.55	11,300.04	-5,808.03	-374.71	5,819.20	0.00	0.00	0.00
16,900.00	90.00	179.55	11,300.04	-5,908.02	-373.93	5,919.05	0.00	0.00	0.00
17,000.00	90.00	179.55	11,300.04	-6,008.02	-373.15	6,018.90	0.00	0.00	0.00
17,100.00	90.00	179.55	11,300.04	-6,108.02	-372.37	6,118.75	0.00	0.00	0.00
17,200.00	90.00	179.55	11,300.04	-6,208.01	-371.59	6,218.60	0.00	0.00	0.00
17,300.00	90.00	179.55	11,300.04	-6,308.01	-370.81	6,318.46	0.00	0.00	0.00
17,400.00	90.00	179.55	11,300.04	-6,408.01	-370.03	6,418.31	0.00	0.00	0.00
17,500.00	90.00	179.55	11,300.04	-6,508.00	-369.25	6,518.16	0.00	0.00	0.00
17,600.00	90.00	179.55	11,300.03	-6,608.00	-368.47	6,618.01	0.00	0.00	0.00
17,700.00	90.00	179.55	11,300.03	-6,708.00	-367.69	6,717.86	0.00	0.00	0.00
17,800.00	90.00	179.55	11,300.03	-6,807.99	-366.91	6,817.71	0.00	0.00	0.00
17,900.00	90.00	179.55	11,300.03	-6,907.99	-366.13	6,917.56	0.00	0.00	0.00
18,000.00	90.00	179.55	11,300.03	-7,007.99	-365.35	7,017.41	0.00	0.00	0.00
18,100.00	90.00	179.55	11,300.03	-7,107.99	-364.57	7,117.26	0.00	0.00	0.00
18,200.00	90.00	179.55	11,300.03	-7,207.98	-363.78	7,217.11	0.00	0.00	0.00
18,300.00	90.00	179.55	11,300.03	-7,307.98	-363.00	7,316.96	0.00	0.00	0.00
18,400.00	90.00	179.55	11,300.03	-7,407.98	-362.22	7,416.81	0.00	0.00	0.00
18,500.00	90.00	179.55	11,300.02	-7,507.97	-361.44	7,516.66	0.00	0.00	0.00
18,600.00	90.00	179.55	11,300.02	-7,607.97	-360.66	7,616.51	0.00	0.00	0.00
18,671.03	90.00	179.55	11,300.02	-7,679.00	-360.10	7,687.44	0.00	0.00	0.00

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Survey Calculation Method: Minimum Curvature

Design Targets

Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(usft)	(usft)		
- Shape									
FTP-100H	0.00	0.00	11,035.02	-191.49	-418.50	580,757.400	788,898.500	32.593984°N	-103.529505
- plan misses target center by 0.40ft at 11080.97ft MD (11035.07 TVD, -191.38 N, -418.12 E)									
- Point									
BHL-100H	0.00	0.00	11,300.02	-7,679.00	-360.10	573,269.900	788,956.900	32.573403°N	-103.529499
- plan hits target center									
- Point									

Legacy Reserves
Lea Unit #100H - Plan 1

Lea County, NM (NAD83)
Lea
Your Ref:

Measured Depth (ft)	Incl.	Azim.	Depth (ft)	Vertical Northings (ft)	Eastings (ft)	Vertical Section Rate (dega/100ft)	Dogleg	
0.00		0.000	0.000	0.00	0.00	0.00	0.00	0.00
100.00		0.000	0.000	100.00	0.00	0.00	0.00	0.00
200.00		0.000	0.000	200.00	0.00	0.00	0.00	0.00
300.00		0.000	0.000	300.00	0.00	0.00	0.00	0.00
400.00		0.000	0.000	400.00	0.00	0.00	0.00	0.00
500.00		0.000	0.000	500.00	0.00	0.00	0.00	0.00
600.00		0.000	0.000	600.00	0.00	0.00	0.00	0.00
700.00		0.000	0.000	700.00	0.00	0.00	0.00	0.00
800.00		0.000	0.000	800.00	0.00	0.00	0.00	0.00
900.00		0.000	0.000	900.00	0.00	0.00	0.00	0.00
1000.00		0.000	0.000	1000.00	0.00	0.00	0.00	0.00
1100.00		1.500	251.319	1099.99	-0.42	-1.24	0.48	1.50
1200.00		3.000	251.319	1199.91	-1.68	-4.96	1.91	1.50
1300.00		4.500	251.319	1299.69	-3.77	-11.15	4.29	1.50
1400.00		6.000	251.319	1399.27	-6.70	-19.82	7.62	1.50
1500.00		7.500	251.319	1498.57	-10.47	-30.96	11.91	1.50
1600.00		9.000	251.319	1597.54	-15.06	-44.55	17.13	1.50
1700.00		10.500	251.319	1696.09	-20.49	-60.59	23.30	1.50
1737.21		11.058	251.319	1732.64	-22.72	-67.18	25.84	1.50
1800.00		11.058	251.319	1794.27	-26.57	-78.59	30.23	0.00
1900.00		11.058	251.319	1892.41	-32.72	-96.76	37.21	0.00
2000.00		11.058	251.319	1990.55	-38.86	-114.93	44.20	0.00
2100.00		11.058	251.319	2088.70	-45.00	-133.10	51.19	0.00
2200.00		11.058	251.319	2186.84	-51.15	-151.27	58.18	0.00
2300.00		11.058	251.319	2284.98	-57.29	-169.44	65.16	0.00
2400.00		11.058	251.319	2383.13	-63.43	-187.61	72.15	0.00
2500.00		11.058	251.319	2481.27	-69.58	-205.78	79.14	0.00
2600.00		11.058	251.319	2579.41	-75.72	-223.95	86.13	0.00
2700.00		11.058	251.319	2677.56	-81.86	-242.12	93.12	0.00
2800.00		11.058	251.319	2775.70	-88.01	-260.29	100.10	0.00
2900.00		11.058	251.319	2873.84	-94.15	-278.46	107.09	0.00
3000.00		11.058	251.319	2971.99	-100.29	-296.63	114.08	0.00
3100.00		11.058	251.319	3070.13	-106.44	-314.80	121.07	0.00
3200.00		11.058	251.319	3168.27	-112.58	-332.97	128.06	0.00
3300.97		11.058	251.319	3267.37	-118.78	-351.32	135.11	0.00
3400.00		9.573	251.319	3364.79	-124.46	-368.12	141.57	1.50
3500.00		8.073	251.319	3463.61	-129.38	-382.64	147.16	1.50
3600.00		6.573	251.319	3562.79	-133.46	-394.72	151.80	1.50
3700.00		5.073	251.319	3662.27	-136.71	-404.33	155.50	1.50
3800.00		3.573	251.319	3761.98	-139.12	-411.47	158.24	1.50
3900.00		2.073	251.319	3861.86	-140.70	-416.13	160.04	1.50
4000.00		0.573	251.319	3961.83	-141.44	-418.32	160.88	1.50
4038.18		0.000	0.000	4000.01	-141.50	-418.50	160.95	1.50
4100.00		0.000	0.000	4061.83	-141.50	-418.50	160.95	0.00
4200.00		0.000	0.000	4161.83	-141.50	-418.50	160.95	0.00
4300.00		0.000	0.000	4261.83	-141.50	-418.50	160.95	0.00
4400.00		0.000	0.000	4361.83	-141.50	-418.50	160.95	0.00
4500.00		0.000	0.000	4461.83	-141.50	-418.50	160.95	0.00
4600.00		0.000	0.000	4561.83	-141.50	-418.50	160.95	0.00
4700.00		0.000	0.000	4661.83	-141.50	-418.50	160.95	0.00
4800.00		0.000	0.000	4761.83	-141.50	-418.50	160.95	0.00
4900.00		0.000	0.000	4861.83	-141.50	-418.50	160.95	0.00
5000.00		0.000	0.000	4961.83	-141.50	-418.50	160.95	0.00
5100.00		0.000	0.000	5061.83	-141.50	-418.50	160.95	0.00
5200.00		0.000	0.000	5161.83	-141.50	-418.50	160.95	0.00
5300.00		0.000	0.000	5261.83	-141.50	-418.50	160.95	0.00
5400.00		0.000	0.000	5361.83	-141.50	-418.50	160.95	0.00

5500.00	0.000	0.000	5461.83	-141.50	-418.50	160.95	0.00
5600.00	0.000	0.000	5561.83	-141.50	-418.50	160.95	0.00
5700.00	0.000	0.000	5661.83	-141.50	-418.50	160.95	0.00
5800.00	0.000	0.000	5761.83	-141.50	-418.50	160.95	0.00
5900.00	0.000	0.000	5861.83	-141.50	-418.50	160.95	0.00
6000.00	0.000	0.000	5961.83	-141.50	-418.50	160.95	0.00
6100.00	0.000	0.000	6061.83	-141.50	-418.50	160.95	0.00
6200.00	0.000	0.000	6161.83	-141.50	-418.50	160.95	0.00
6300.00	0.000	0.000	6261.83	-141.50	-418.50	160.95	0.00
6400.00	0.000	0.000	6361.83	-141.50	-418.50	160.95	0.00
6500.00	0.000	0.000	6461.83	-141.50	-418.50	160.95	0.00
6600.00	0.000	0.000	6561.83	-141.50	-418.50	160.95	0.00
6700.00	0.000	0.000	6661.83	-141.50	-418.50	160.95	0.00
6800.00	0.000	0.000	6761.83	-141.50	-418.50	160.95	0.00
6900.00	0.000	0.000	6861.83	-141.50	-418.50	160.95	0.00
7000.00	0.000	0.000	6961.83	-141.50	-418.50	160.95	0.00
7100.00	0.000	0.000	7061.83	-141.50	-418.50	160.95	0.00
7200.00	0.000	0.000	7161.83	-141.50	-418.50	160.95	0.00
7300.00	0.000	0.000	7261.83	-141.50	-418.50	160.95	0.00
7400.00	0.000	0.000	7361.83	-141.50	-418.50	160.95	0.00
7500.00	0.000	0.000	7461.83	-141.50	-418.50	160.95	0.00
7600.00	0.000	0.000	7561.83	-141.50	-418.50	160.95	0.00
7700.00	0.000	0.000	7661.83	-141.50	-418.50	160.95	0.00
7800.00	0.000	0.000	7761.83	-141.50	-418.50	160.95	0.00
7900.00	0.000	0.000	7861.83	-141.50	-418.50	160.95	0.00
8000.00	0.000	0.000	7961.83	-141.50	-418.50	160.95	0.00
8100.00	0.000	0.000	8061.83	-141.50	-418.50	160.95	0.00
8200.00	0.000	0.000	8161.83	-141.50	-418.50	160.95	0.00
8300.00	0.000	0.000	8261.83	-141.50	-418.50	160.95	0.00
8400.00	0.000	0.000	8361.83	-141.50	-418.50	160.95	0.00
8500.00	0.000	0.000	8461.83	-141.50	-418.50	160.95	0.00
8600.00	0.000	0.000	8561.83	-141.50	-418.50	160.95	0.00
8700.00	0.000	0.000	8661.83	-141.50	-418.50	160.95	0.00
8800.00	0.000	0.000	8761.83	-141.50	-418.50	160.95	0.00
8900.00	0.000	0.000	8861.83	-141.50	-418.50	160.95	0.00
9000.00	0.000	0.000	8961.83	-141.50	-418.50	160.95	0.00
9100.00	0.000	0.000	9061.83	-141.50	-418.50	160.95	0.00
9200.00	0.000	0.000	9161.83	-141.50	-418.50	160.95	0.00
9300.00	0.000	0.000	9261.83	-141.50	-418.50	160.95	0.00
9400.00	0.000	0.000	9361.83	-141.50	-418.50	160.95	0.00
9500.00	0.000	0.000	9461.83	-141.50	-418.50	160.95	0.00
9600.00	0.000	0.000	9561.83	-141.50	-418.50	160.95	0.00
9700.00	0.000	0.000	9661.83	-141.50	-418.50	160.95	0.00
9800.00	0.000	0.000	9761.83	-141.50	-418.50	160.95	0.00
9900.00	0.000	0.000	9861.83	-141.50	-418.50	160.95	0.00
10000.00	0.000	0.000	9961.83	-141.50	-418.50	160.95	0.00
10100.00	0.000	0.000	10061.83	-141.50	-418.50	160.95	0.00
10200.00	0.000	0.000	10161.83	-141.50	-418.50	160.95	0.00
10300.00	0.000	0.000	10261.83	-141.50	-418.50	160.95	0.00
10400.00	0.000	0.000	10361.83	-141.50	-418.50	160.95	0.00
10500.00	0.000	0.000	10461.83	-141.50	-418.50	160.95	0.00
10600.00	0.000	0.000	10561.83	-141.50	-418.50	160.95	0.00
10700.00	0.000	0.000	10661.83	-141.50	-418.50	160.95	0.00
10800.00	0.000	0.000	10761.83	-141.50	-418.50	160.95	0.00
10860.77	0.000	0.000	10822.60	-141.50	-418.50	160.95	0.00
10875.00	1.708	179.560	10836.83	-141.71	-418.50	161.16	12.00
10900.00	4.708	179.560	10861.79	-143.11	-418.49	162.56	12.00
10925.00	7.708	179.560	10886.64	-145.81	-418.47	165.26	12.00
10950.00	10.708	179.560	10911.31	-149.81	-418.44	169.25	12.00
10975.00	13.708	179.560	10935.74	-155.10	-418.40	174.53	12.00
11000.00	16.708	179.560	10959.86	-161.66	-418.35	181.08	12.00
11025.00	19.708	179.560	10983.61	-169.47	-418.29	188.87	12.00
11050.00	22.708	179.560	11006.91	-178.51	-418.22	197.90	12.00
11075.00	25.708	179.560	11029.71	-188.76	-418.14	208.14	12.00
11100.00	28.708	179.560	11051.95	-200.19	-418.05	219.55	12.00
11125.00	31.708	179.560	11073.55	-212.76	-417.95	232.11	12.00
11150.00	34.708	179.560	11094.46	-226.45	-417.85	245.78	12.00
11175.00	37.707	179.560	11114.63	-241.22	-417.74	260.52	12.00
11200.00	40.707	179.560	11134.00	-257.02	-417.61	276.30	12.00
11225.00	43.707	179.560	11152.52	-273.81	-417.48	293.07	12.00
11250.00	46.707	179.560	11170.13	-291.55	-417.35	310.78	12.00
11275.00	49.707	179.560	11186.79	-310.19	-417.21	329.39	12.00
11300.00	52.707	179.560	11202.45	-329.67	-417.06	348.85	12.00
11325.00	55.707	179.560	11217.07	-349.95	-416.90	369.09	12.00

11350.00	58.707	179.560	11230.61	-370.96	-416.74	390.07	12.00
11375.00	61.707	179.560	11243.03	-392.65	-416.57	411.73	12.00
11400.00	64.707	179.560	11254.29	-414.97	-416.40	434.02	12.00
11425.00	67.707	179.560	11264.38	-437.84	-416.23	456.85	12.00
11450.00	70.707	179.560	11273.25	-461.21	-416.05	480.19	12.00
11475.00	73.707	179.560	11280.89	-485.01	-415.86	503.95	12.00
11500.00	76.707	179.560	11287.27	-509.17	-415.68	528.09	12.00
11525.00	79.707	179.560	11292.38	-533.64	-415.49	552.52	12.00
11550.00	82.707	179.560	11296.20	-558.35	-415.30	577.19	12.00
11575.00	85.707	179.560	11298.73	-583.21	-415.11	602.02	12.00
11600.00	88.707	179.560	11299.94	-608.18	-414.92	626.95	12.00
11610.77	90.000	179.560	11300.07	-618.95	-414.83	637.70	12.00
11700.00	90.000	179.560	11300.07	-708.18	-414.15	726.80	0.00
11800.00	90.000	179.560	11300.07	-808.17	-413.38	826.65	0.00
11900.00	90.000	179.560	11300.07	-908.17	-412.61	926.50	0.00
12000.00	90.000	179.560	11300.07	-1008.17	-411.84	1026.35	0.00
12100.00	90.000	179.559	11300.07	-1108.17	-411.07	1126.21	0.00
12200.00	90.000	179.559	11300.07	-1208.16	-410.31	1226.06	0.00
12300.00	90.000	179.559	11300.07	-1308.16	-409.54	1325.91	0.00
12400.00	90.000	179.559	11300.07	-1408.16	-408.77	1425.76	0.00
12500.00	90.000	179.559	11300.07	-1508.15	-408.00	1525.61	0.00
12600.00	90.000	179.559	11300.06	-1608.15	-407.23	1625.46	0.00
12700.00	90.000	179.559	11300.06	-1708.15	-406.46	1725.31	0.00
12800.00	90.000	179.559	11300.06	-1808.15	-405.69	1825.16	0.00
12900.00	90.000	179.558	11300.06	-1908.14	-404.92	1925.01	0.00
13000.00	90.000	179.558	11300.06	-2008.14	-404.15	2024.87	0.00
13100.00	90.000	179.558	11300.06	-2108.14	-403.37	2124.72	0.00
13200.00	90.000	179.558	11300.06	-2208.13	-402.60	2224.57	0.00
13300.00	90.000	179.558	11300.06	-2308.13	-401.83	2324.42	0.00
13400.00	90.000	179.558	11300.06	-2408.13	-401.06	2424.27	0.00
13500.00	90.000	179.558	11300.06	-2508.12	-400.29	2524.12	0.00
13600.00	90.000	179.558	11300.06	-2608.12	-399.52	2623.97	0.00
13700.00	90.000	179.558	11300.06	-2708.12	-398.75	2723.82	0.00
13800.00	90.000	179.557	11300.06	-2808.12	-397.97	2823.67	0.00
13900.00	90.000	179.557	11300.06	-2908.11	-397.20	2923.53	0.00
14000.00	90.000	179.557	11300.06	-3008.11	-396.43	3023.38	0.00
14100.00	90.000	179.557	11300.06	-3108.11	-395.65	3123.23	0.00
14200.00	90.000	179.557	11300.06	-3208.10	-394.88	3223.08	0.00
14300.00	90.000	179.557	11300.06	-3308.10	-394.11	3322.93	0.00
14400.00	90.000	179.557	11300.06	-3408.10	-393.33	3422.78	0.00
14500.00	90.000	179.557	11300.06	-3508.09	-392.56	3522.63	0.00
14600.00	90.000	179.556	11300.06	-3608.09	-391.79	3622.48	0.00
14700.00	90.000	179.556	11300.06	-3708.09	-391.01	3722.33	0.00
14800.00	90.000	179.556	11300.06	-3808.09	-390.24	3822.18	0.00
14900.00	90.000	179.556	11300.06	-3908.08	-389.46	3922.04	0.00
15000.00	90.000	179.556	11300.06	-4008.08	-388.69	4021.89	0.00
15100.00	90.000	179.556	11300.06	-4108.08	-387.91	4121.74	0.00
15200.00	90.000	179.556	11300.05	-4208.07	-387.14	4221.59	0.00
15300.00	90.000	179.556	11300.05	-4308.07	-386.36	4321.44	0.00
15400.00	90.000	179.556	11300.05	-4408.07	-385.59	4421.29	0.00
15500.00	90.000	179.555	11300.05	-4508.06	-384.81	4521.14	0.00
15600.00	90.000	179.555	11300.05	-4608.06	-384.03	4620.99	0.00
15700.00	90.000	179.555	11300.05	-4708.06	-383.26	4720.84	0.00
15800.00	90.000	179.555	11300.05	-4808.06	-382.48	4820.69	0.00
15900.00	90.000	179.555	11300.05	-4908.05	-381.71	4920.54	0.00
16000.00	90.000	179.555	11300.05	-5008.05	-380.93	5020.40	0.00
16100.00	90.000	179.555	11300.05	-5108.05	-380.15	5120.25	0.00
16200.00	90.000	179.555	11300.05	-5208.04	-379.37	5220.10	0.00
16300.00	90.000	179.554	11300.05	-5308.04	-378.60	5319.95	0.00
16400.00	90.000	179.554	11300.05	-5408.04	-377.82	5419.80	0.00
16500.00	90.000	179.554	11300.05	-5508.03	-377.04	5519.65	0.00
16600.00	90.000	179.554	11300.04	-5608.03	-376.26	5619.50	0.00
16700.00	90.001	179.554	11300.04	-5708.03	-375.48	5719.35	0.00
16800.00	90.001	179.554	11300.04	-5808.03	-374.71	5819.20	0.00
16900.00	90.001	179.554	11300.04	-5908.02	-373.93	5919.05	0.00
17000.00	90.001	179.554	11300.04	-6008.02	-373.15	6018.90	0.00
17100.00	90.001	179.554	11300.04	-6108.02	-372.37	6118.75	0.00
17200.00	90.001	179.553	11300.04	-6208.01	-371.59	6218.60	0.00
17300.00	90.001	179.553	11300.04	-6308.01	-370.81	6318.46	0.00
17400.00	90.001	179.553	11300.04	-6408.01	-370.03	6418.31	0.00
17500.00	90.001	179.553	11300.04	-6508.00	-369.25	6518.16	0.00
17600.00	90.001	179.553	11300.03	-6608.00	-368.47	6618.01	0.00
17700.00	90.001	179.553	11300.03	-6708.00	-367.69	6717.86	0.00
17800.00	90.001	179.553	11300.03	-6807.99	-366.91	6817.71	0.00

17900.00	90.001	179.553	11300.03	-6907.99	-366.13	6917.56	0.00
18000.00	90.001	179.552	11300.03	-7007.99	-365.35	7017.41	0.00
18100.00	90.001	179.552	11300.03	-7107.99	-364.57	7117.26	0.00
18200.00	90.001	179.552	11300.03	-7207.98	-363.78	7217.11	0.00
18300.00	90.001	179.552	11300.03	-7307.98	-363.00	7316.96	0.00
18400.00	90.001	179.552	11300.03	-7407.98	-362.22	7416.81	0.00
18500.00	90.001	179.552	11300.02	-7507.97	-361.44	7516.66	0.00
18600.00	90.001	179.552	11300.02	-7607.97	-360.66	7616.51	0.00
18671.03	90.001	179.552	11300.02	-7679.00	-360.10	7687.44	0.00

All data are in feet unless otherwise stated. Directions and coordinates are relative to Grid North.
Vertical depths are relative to RKB. Northings and Eastings are relative to Well.

The Dogleg Severity is in Degrees per 100 feet.

Vertical Section is from Slot and calculated along an Azimuth of 182.685° (Grid).

Coordinate System is North American Datum 1983 US State Plane 1983, New Mexico Eastern Zone.

Central meridian is -104.333°.

Grid Convergence at Surface is 0.434°.

Based upon Minimum Curvature type calculations, at a Measured Depth of 18671.03ft.,
the Bottom Hole Displacement is 7687.44ft., in the Direction of 182.685° (Grid).