

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, NM 87505

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

☐ AMENDED REPORT

RECEIVED

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 3002540986	² Pool Code 96660	³ Pool Name BERRY; BONE SPRING, SOUTH
⁴ Property Code 39699	⁵ Property Name MONK "21" STATE COM	⁶ Well Number 1H
⁷ OGRID No. 6137	⁸ Operator Name DEVON ENERGY PRODUCTION COMPANY, L.P.	⁹ Elevation 3734.4

¹⁰ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	21	21 S	34 E		330	NORTH	460	WEST	LEA

¹¹ 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
M	21	21 S	34 E		330	SOUTH	660	WEST	LEA

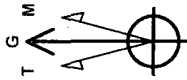
¹² Dedicated Acres 160	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

	17 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 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 a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature: <i>David Cook</i> Date: 2/5/2013 Printed Name: David Cook, Regulatory Specialist E-mail Address: David.Cook@dmn.com
	18 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. JANUARY 22, 2013 Date of Survey: <i>[Signature]</i> Signature and Seal of Professional Surveyor: <i>[Signature]</i> Certificate Number: FILIPON E. JARAMILLO, PLS 12797 SURVEY NO. 1525

DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: Monk 21 State Com
 Well: 1H
 Wellbore: OH
 Design: Plan #1



Azimuths to Grid North
 True North: -0.46°
 Magnetic North: 6.90°
 Magnetic Field
 Strength: 48608.2nT
 Dip Angle: 60.39°
 Date: 02/04/2013
 Model: IGRF2010

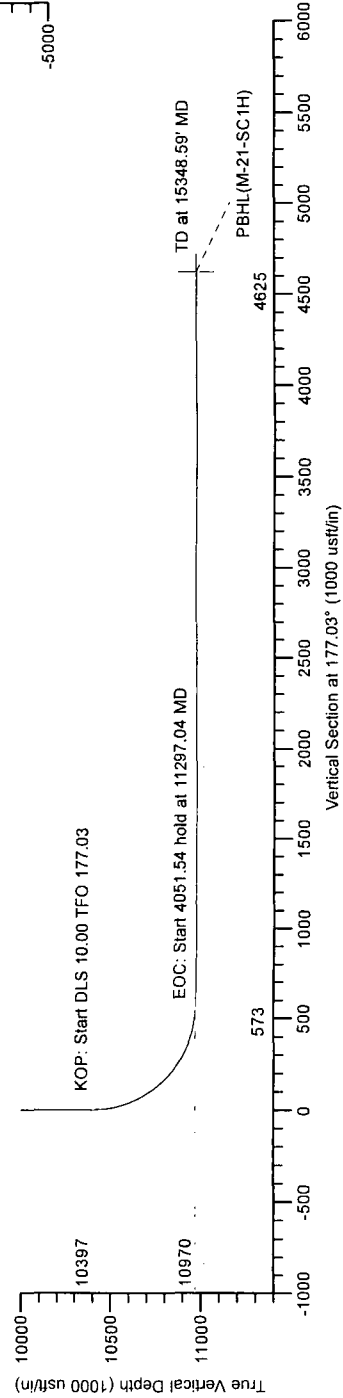
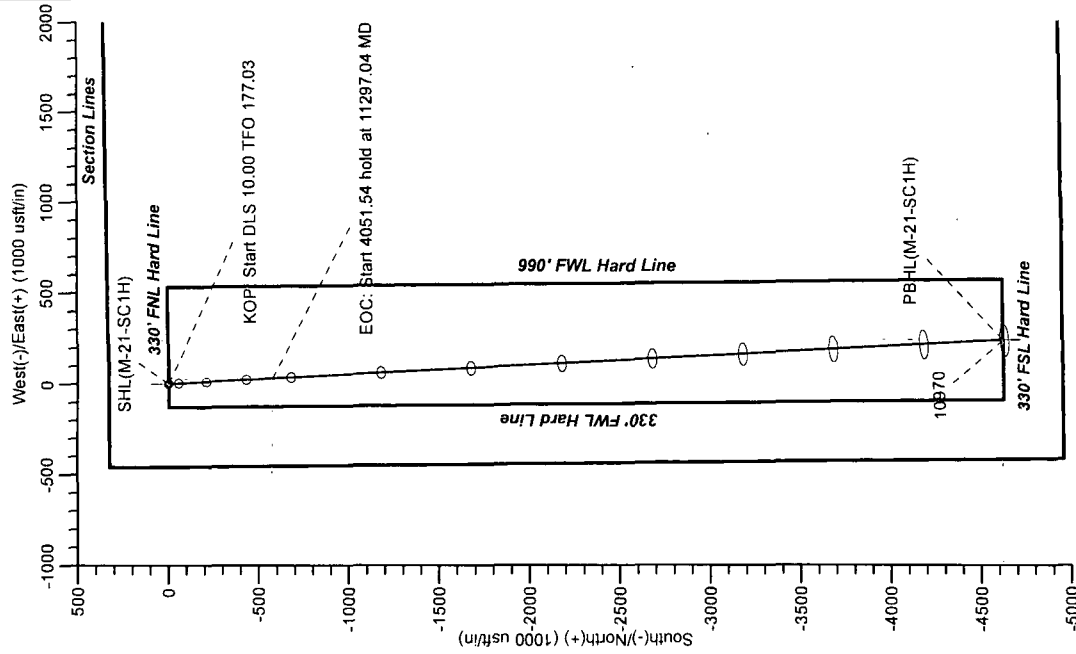
devon

DESIGN TARGET DETAILS

Name	MD	Inc	Azi	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
SHL(M-21-SC1H)	0.00	0.00	0.00	0.00	0.00	0.00	536024.97	803901.4532°	28° 14.580' N	103° 28' 55.039' W
PBHL(M-21-SC1H)	90.00	177.03	10970.00	-4618.27	239.96	531406.70	804141.4132°	27° 28.865' N	103° 28' 52.668' W	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSec	Annotation
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	10397.04	0.00	0.00	10397.04	0.00	0.00	0.00	0.00	0.00	KOP: Start DLS 10.00 TFO 177.03
3	11297.04	90.00	177.03	10970.00	-572.19	29.73	10.00	177.03	572.96	EOC: Start 4051.54 hold at 11297.04 MD
4	15348.59	90.00	177.03	10970.00	-4618.27	239.96	0.00	0.00	4624.50	TD at 15348.59' MD



LEAM DRILLING SYSTEMS LLC
 2010 East Davis, Conroe, Texas 77301
 Phone: 936/756-7577, Fax 936/756-7595

Plan: Plan #1 (1H/OH)
 Monk 21 State Com
 Created By: Tyler Carlson
 Date: 16/26, February 04, 2013
 Approved: _____
 Date: _____

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	GE 3734' + KB 18' @ 3752.00usft (Permitting)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 3734' + KB 18' @ 3752.00usft (Permitting)
Site:	Monk 21 State Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Lea County, NM (NAD-83)		
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site	Monk 21 State Com				
Site Position:		Northing:	536,024.97 usft	Latitude:	32° 28' 14.580 N
From:	Map	Easting:	803,901.45 usft	Longitude:	103° 28' 55.039 W
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "	Grid Convergence:	0.46 °

Well	1H					
Well Position	+N/-S	0.00 usft	Northing:	536,024.97 usft	Latitude:	32° 28' 14.580 N
	+E/-W	0.00 usft	Easting:	803,901.45 usft	Longitude:	103° 28' 55.039 W
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:			3,734.00 usft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	02/04/13	7.36	60.39	48,608

Design	Plan #1				
Audit Notes:					
Version:	Phase:	PLAN	Tie On Depth:	0.00	
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	177.03	

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
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
10,397.04	0.00	0.00	10,397.04	0.00	0.00	0.00	0.00	0.00	0.00	
11,297.04	90.00	177.03	10,970.00	-572.19	29.73	10.00	10.00	19.67	177.03	
15,348.59	90.00	177.03	10,970.00	-4,618.27	239.96	0.00	0.00	0.00	0.00	PBHL(M-21-SC1H)

LEAM Drilling Systems LLC

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Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
0.00	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	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	0.00	0.00	5,100.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

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Wellbore:	OH		
Design:	Plan #1		

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)
5,200.00	0.00	0.00	5,200.00	0.00	0.00	0.00	0.00	0.00	0.00
5,300.00	0.00	0.00	5,300.00	0.00	0.00	0.00	0.00	0.00	0.00
5,400.00	0.00	0.00	5,400.00	0.00	0.00	0.00	0.00	0.00	0.00
5,500.00	0.00	0.00	5,500.00	0.00	0.00	0.00	0.00	0.00	0.00
5,600.00	0.00	0.00	5,600.00	0.00	0.00	0.00	0.00	0.00	0.00
5,700.00	0.00	0.00	5,700.00	0.00	0.00	0.00	0.00	0.00	0.00
5,800.00	0.00	0.00	5,800.00	0.00	0.00	0.00	0.00	0.00	0.00
5,900.00	0.00	0.00	5,900.00	0.00	0.00	0.00	0.00	0.00	0.00
6,000.00	0.00	0.00	6,000.00	0.00	0.00	0.00	0.00	0.00	0.00
6,100.00	0.00	0.00	6,100.00	0.00	0.00	0.00	0.00	0.00	0.00
6,200.00	0.00	0.00	6,200.00	0.00	0.00	0.00	0.00	0.00	0.00
6,300.00	0.00	0.00	6,300.00	0.00	0.00	0.00	0.00	0.00	0.00
6,400.00	0.00	0.00	6,400.00	0.00	0.00	0.00	0.00	0.00	0.00
6,500.00	0.00	0.00	6,500.00	0.00	0.00	0.00	0.00	0.00	0.00
6,600.00	0.00	0.00	6,600.00	0.00	0.00	0.00	0.00	0.00	0.00
6,700.00	0.00	0.00	6,700.00	0.00	0.00	0.00	0.00	0.00	0.00
6,800.00	0.00	0.00	6,800.00	0.00	0.00	0.00	0.00	0.00	0.00
6,900.00	0.00	0.00	6,900.00	0.00	0.00	0.00	0.00	0.00	0.00
7,000.00	0.00	0.00	7,000.00	0.00	0.00	0.00	0.00	0.00	0.00
7,100.00	0.00	0.00	7,100.00	0.00	0.00	0.00	0.00	0.00	0.00
7,200.00	0.00	0.00	7,200.00	0.00	0.00	0.00	0.00	0.00	0.00
7,300.00	0.00	0.00	7,300.00	0.00	0.00	0.00	0.00	0.00	0.00
7,400.00	0.00	0.00	7,400.00	0.00	0.00	0.00	0.00	0.00	0.00
7,500.00	0.00	0.00	7,500.00	0.00	0.00	0.00	0.00	0.00	0.00
7,600.00	0.00	0.00	7,600.00	0.00	0.00	0.00	0.00	0.00	0.00
7,700.00	0.00	0.00	7,700.00	0.00	0.00	0.00	0.00	0.00	0.00
7,800.00	0.00	0.00	7,800.00	0.00	0.00	0.00	0.00	0.00	0.00
7,900.00	0.00	0.00	7,900.00	0.00	0.00	0.00	0.00	0.00	0.00
8,000.00	0.00	0.00	8,000.00	0.00	0.00	0.00	0.00	0.00	0.00
8,100.00	0.00	0.00	8,100.00	0.00	0.00	0.00	0.00	0.00	0.00
8,200.00	0.00	0.00	8,200.00	0.00	0.00	0.00	0.00	0.00	0.00
8,300.00	0.00	0.00	8,300.00	0.00	0.00	0.00	0.00	0.00	0.00
8,400.00	0.00	0.00	8,400.00	0.00	0.00	0.00	0.00	0.00	0.00
8,500.00	0.00	0.00	8,500.00	0.00	0.00	0.00	0.00	0.00	0.00
8,600.00	0.00	0.00	8,600.00	0.00	0.00	0.00	0.00	0.00	0.00
8,700.00	0.00	0.00	8,700.00	0.00	0.00	0.00	0.00	0.00	0.00
8,800.00	0.00	0.00	8,800.00	0.00	0.00	0.00	0.00	0.00	0.00
8,900.00	0.00	0.00	8,900.00	0.00	0.00	0.00	0.00	0.00	0.00
9,000.00	0.00	0.00	9,000.00	0.00	0.00	0.00	0.00	0.00	0.00
9,100.00	0.00	0.00	9,100.00	0.00	0.00	0.00	0.00	0.00	0.00
9,200.00	0.00	0.00	9,200.00	0.00	0.00	0.00	0.00	0.00	0.00
9,300.00	0.00	0.00	9,300.00	0.00	0.00	0.00	0.00	0.00	0.00
9,400.00	0.00	0.00	9,400.00	0.00	0.00	0.00	0.00	0.00	0.00
9,500.00	0.00	0.00	9,500.00	0.00	0.00	0.00	0.00	0.00	0.00
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,700.00	0.00	0.00	9,700.00	0.00	0.00	0.00	0.00	0.00	0.00
9,800.00	0.00	0.00	9,800.00	0.00	0.00	0.00	0.00	0.00	0.00
9,900.00	0.00	0.00	9,900.00	0.00	0.00	0.00	0.00	0.00	0.00
10,000.00	0.00	0.00	10,000.00	0.00	0.00	0.00	0.00	0.00	0.00
10,100.00	0.00	0.00	10,100.00	0.00	0.00	0.00	0.00	0.00	0.00
10,200.00	0.00	0.00	10,200.00	0.00	0.00	0.00	0.00	0.00	0.00
10,300.00	0.00	0.00	10,300.00	0.00	0.00	0.00	0.00	0.00	0.00

LEAM Drilling Systems LLC

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10,397.04	0.00	0.00	10,397.04	0.00	0.00	0.00	0.00	0.00	0.00
KOP: Start DLS 10.00 TFO 177.03									
10,400.00	0.30	177.03	10,400.00	-0.01	0.00	0.01	10.00	10.00	0.00
10,450.00	5.30	177.03	10,449.92	-2.44	0.13	2.45	10.00	10.00	0.00
10,500.00	10.30	177.03	10,499.45	-9.21	0.48	9.23	10.00	10.00	0.00
10,550.00	15.30	177.03	10,548.19	-20.27	1.05	20.30	10.00	10.00	0.00
10,600.00	20.30	177.03	10,595.78	-35.52	1.85	35.57	10.00	10.00	0.00
10,650.00	25.30	177.03	10,641.86	-54.86	2.85	54.94	10.00	10.00	0.00
10,700.00	30.30	177.03	10,686.08	-78.14	4.06	78.25	10.00	10.00	0.00
10,750.00	35.30	177.03	10,728.10	-105.18	5.46	105.32	10.00	10.00	0.00
10,800.00	40.30	177.03	10,767.59	-135.77	7.05	135.95	10.00	10.00	0.00
10,850.00	45.30	177.03	10,804.27	-169.68	8.82	169.91	10.00	10.00	0.00
10,900.00	50.30	177.03	10,837.85	-206.66	10.74	206.94	10.00	10.00	0.00
10,950.00	55.30	177.03	10,868.07	-246.42	12.80	246.75	10.00	10.00	0.00
11,000.00	60.30	177.03	10,894.71	-288.65	15.00	289.04	10.00	10.00	0.00
11,050.00	65.30	177.03	10,917.56	-333.05	17.30	333.50	10.00	10.00	0.00
11,100.00	70.30	177.03	10,936.45	-379.27	19.71	379.78	10.00	10.00	0.00
11,150.00	75.30	177.03	10,951.24	-426.95	22.18	427.52	10.00	10.00	0.00
11,200.00	80.30	177.03	10,961.80	-475.74	24.72	476.38	10.00	10.00	0.00
11,250.00	85.30	177.03	10,968.07	-525.26	27.29	525.97	10.00	10.00	0.00
11,297.04	90.00	177.03	10,970.00	-572.19	29.73	572.96	10.00	10.00	0.00
EOC: Start 4051.54 hold at 11297.04 MD									
11,300.00	90.00	177.03	10,970.00	-575.14	29.88	575.92	0.00	0.00	0.00
11,400.00	90.00	177.03	10,970.00	-675.01	35.07	675.92	0.00	0.00	0.00
11,500.00	90.00	177.03	10,970.00	-774.87	40.26	775.92	0.00	0.00	0.00
11,600.00	90.00	177.03	10,970.00	-874.74	45.45	875.92	0.00	0.00	0.00
11,700.00	90.00	177.03	10,970.00	-974.60	50.64	975.92	0.00	0.00	0.00
11,800.00	90.00	177.03	10,970.00	-1,074.47	55.83	1,075.92	0.00	0.00	0.00
11,900.00	90.00	177.03	10,970.00	-1,174.33	61.02	1,175.92	0.00	0.00	0.00
12,000.00	90.00	177.03	10,970.00	-1,274.20	66.20	1,275.92	0.00	0.00	0.00
12,100.00	90.00	177.03	10,970.00	-1,374.06	71.39	1,375.92	0.00	0.00	0.00
12,200.00	90.00	177.03	10,970.00	-1,473.93	76.58	1,475.92	0.00	0.00	0.00
12,300.00	90.00	177.03	10,970.00	-1,573.79	81.77	1,575.92	0.00	0.00	0.00
12,400.00	90.00	177.03	10,970.00	-1,673.66	86.96	1,675.92	0.00	0.00	0.00
12,500.00	90.00	177.03	10,970.00	-1,773.52	92.15	1,775.92	0.00	0.00	0.00
12,600.00	90.00	177.03	10,970.00	-1,873.39	97.34	1,875.92	0.00	0.00	0.00
12,700.00	90.00	177.03	10,970.00	-1,973.25	102.53	1,975.92	0.00	0.00	0.00
12,800.00	90.00	177.03	10,970.00	-2,073.12	107.72	2,075.92	0.00	0.00	0.00
12,900.00	90.00	177.03	10,970.00	-2,172.98	112.90	2,175.92	0.00	0.00	0.00
13,000.00	90.00	177.03	10,970.00	-2,272.85	118.09	2,275.92	0.00	0.00	0.00
13,100.00	90.00	177.03	10,970.00	-2,372.72	123.28	2,375.92	0.00	0.00	0.00
13,200.00	90.00	177.03	10,970.00	-2,472.58	128.47	2,475.92	0.00	0.00	0.00
13,300.00	90.00	177.03	10,970.00	-2,572.45	133.66	2,575.92	0.00	0.00	0.00
13,400.00	90.00	177.03	10,970.00	-2,672.31	138.85	2,675.92	0.00	0.00	0.00
13,500.00	90.00	177.03	10,970.00	-2,772.18	144.04	2,775.92	0.00	0.00	0.00
13,600.00	90.00	177.03	10,970.00	-2,872.04	149.23	2,875.92	0.00	0.00	0.00
13,700.00	90.00	177.03	10,970.00	-2,971.91	154.41	2,975.92	0.00	0.00	0.00
13,800.00	90.00	177.03	10,970.00	-3,071.77	159.60	3,075.92	0.00	0.00	0.00
13,900.00	90.00	177.03	10,970.00	-3,171.64	164.79	3,175.92	0.00	0.00	0.00
14,000.00	90.00	177.03	10,970.00	-3,271.50	169.98	3,275.92	0.00	0.00	0.00
14,100.00	90.00	177.03	10,970.00	-3,371.37	175.17	3,375.92	0.00	0.00	0.00
14,200.00	90.00	177.03	10,970.00	-3,471.23	180.36	3,475.92	0.00	0.00	0.00

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	GE 3734' + KB 18' @ 3752.00usft (Permitting)
Project:	Lea County, NM (NAD-83)	MD Reference:	GE 3734' + KB 18' @ 3752.00usft (Permitting)
Site:	Monk 21 State Com	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

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)
14,300.00	90.00	177.03	10,970.00	-3,571.10	185.55	3,575.92	0.00	0.00	0.00
14,400.00	90.00	177.03	10,970.00	-3,670.96	190.74	3,675.92	0.00	0.00	0.00
14,500.00	90.00	177.03	10,970.00	-3,770.83	195.92	3,775.92	0.00	0.00	0.00
14,600.00	90.00	177.03	10,970.00	-3,870.69	201.11	3,875.92	0.00	0.00	0.00
14,700.00	90.00	177.03	10,970.00	-3,970.56	206.30	3,975.92	0.00	0.00	0.00
14,800.00	90.00	177.03	10,970.00	-4,070.43	211.49	4,075.92	0.00	0.00	0.00
14,900.00	90.00	177.03	10,970.00	-4,170.29	216.68	4,175.92	0.00	0.00	0.00
15,000.00	90.00	177.03	10,970.00	-4,270.16	221.87	4,275.92	0.00	0.00	0.00
15,100.00	90.00	177.03	10,970.00	-4,370.02	227.06	4,375.92	0.00	0.00	0.00
15,200.00	90.00	177.03	10,970.00	-4,469.89	232.25	4,475.92	0.00	0.00	0.00
15,300.00	90.00	177.03	10,970.00	-4,569.75	237.44	4,575.92	0.00	0.00	0.00
15,348.59	90.00	177.03	10,970.00	-4,618.27	239.96	4,624.50	0.00	0.00	0.00
TD at 15348.59' MD									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
- hit/miss target									
- Shape									
SHL(M-21-SC1H)	0.00	0.00	0.00	0.00	0.00	536,024.97	803,901.45	32° 28' 14.580 N	103° 28' 55.039 W
- plan hits target center									
- Point									
PBHL(M-21-SC1H)	0.00	0.00	10,970.00	-4,618.27	239.96	531,406.70	804,141.40	32° 27' 28.865 N	103° 28' 52.668 W
- plan hits target center									
- Point									

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
10,397.04	10,397.04	0.00	0.00	KOP: Start DLS 10.00 TFO 177.03
11,297.04	10,970.00	-572.19	29.73	EOC: Start 4051.54 hold at 11297.04 MD
15,348.59	10,970.00	-4,618.27	239.96	TD at 15348.59' MD