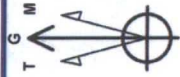


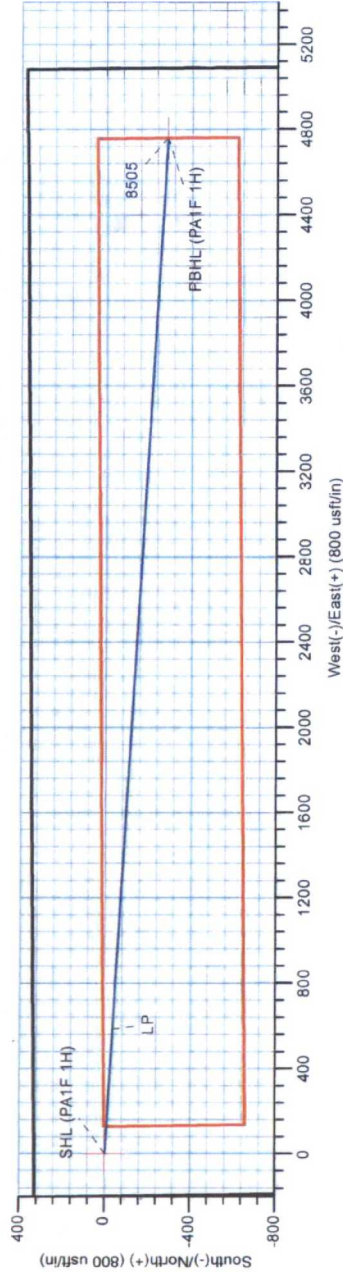
DEVON ENERGY

Project: Lea County, NM (NAD-83)
 Site: Purple Ace 1 Fed 1H
 Well: 1H
 Wellbore: OH
 Design: Plan #1

PROJECT DETAILS: Lea County, NM (NAD-83)
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone



Azimuths to Grid North
 True North: -0.53°
 Magnetic North: 6.64°
 Magnetic Field
 Strength: 48143.25nT
 Dip Angle: 59.99°
 Date: 2/16/2015
 Model: BGGM2014

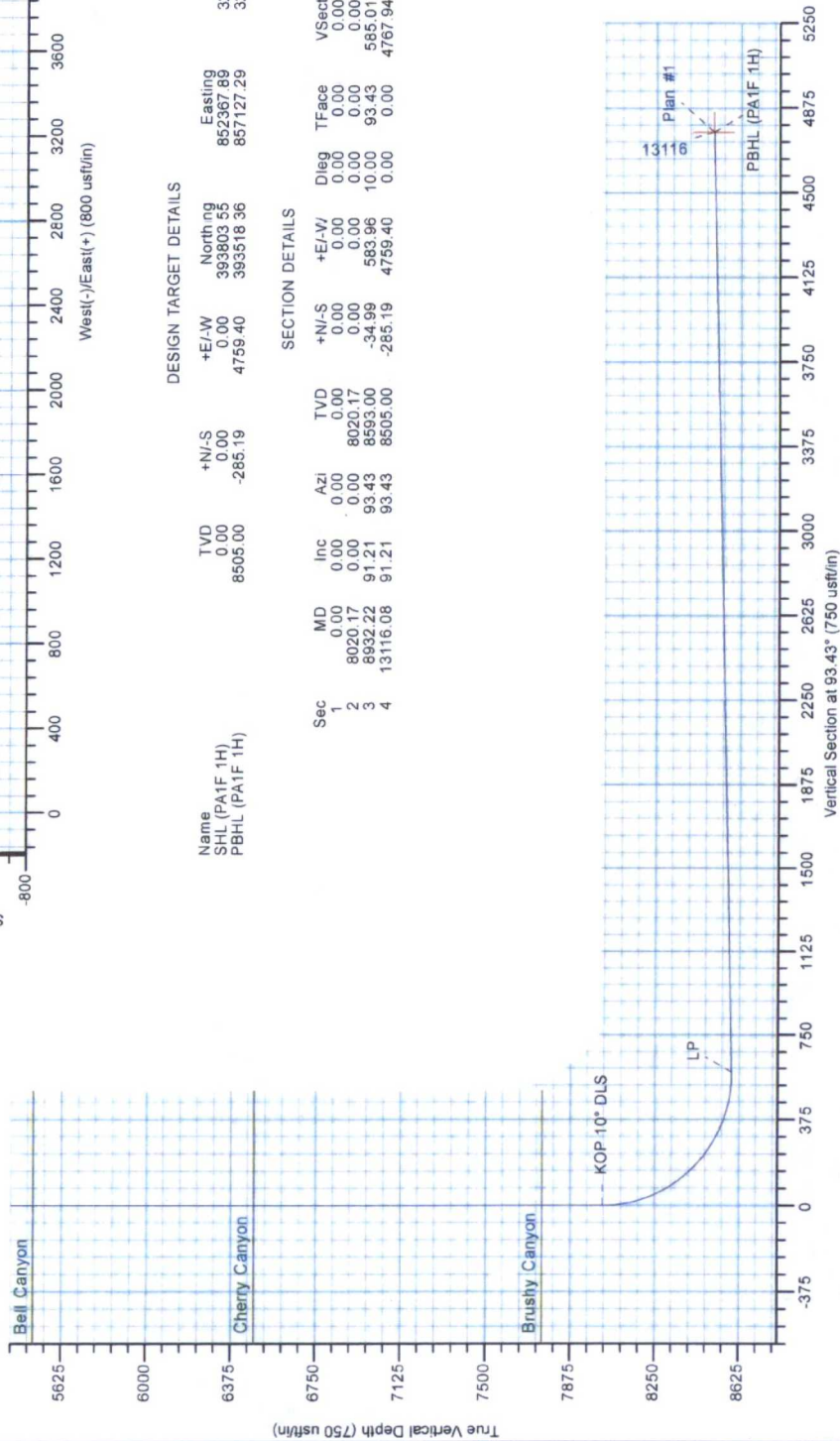


DESIGN TARGET DETAILS

Name	+E/-W	North ng	Easting	Latitude	Longitude
SHL (PA1F 1H)	0.00	393803.55	852367.89	32° 4' 43.198 N	103° 19' 44.886 W
PBHL (PA1F 1H)	4759.40	393518.36	857127.29	32° 4' 39.934 N	103° 18' 49.607 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Annotation
1	8020.17	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP 10° DLS
2	8932.22	91.21	93.43	8020.17	0.00	0.00	0.00	0.00	0.00	LP
3	13116.08	91.21	93.43	8505.00	-34.99	583.96	10.00	93.43	585.01	LP
4				8505.00	-285.19	4759.40	0.00	0.00	4767.94	TD



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

Plan: Plan #1 (1H/0H)
 Purple Ace 1 Fed 1H
 Created By: Brady Deaver
 Date: 13.06 February 16 2015
 Approved: _____
 Date: _____



LEAM

Drilling Systems, Inc.

DEVON ENERGY

Lea County, NM (NAD-83)

Purple Ace 1 Fed 1H

1H

OH

Plan: Plan #1

Standard Planning Report

16 February, 2015


devon



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Site:	Purple Ace 1 Fed 1H	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	Purple Ace 1 Fed 1H		
Site Position:		Northing:	393,803.55 usft
From:	Map	Easting:	852,367.89 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 4' 43.198 N
		Longitude:	103° 19' 44.886 W
		Grid Convergence:	0.53 °

Well	1H, Madera		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	3,092.70 usft
		Latitude:	32° 4' 43.198 N
		Longitude:	103° 19' 44.886 W
		Ground Level:	3,067.70 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
			(°)
	BGGM2014	2/16/2015	7.18
			Dip Angle
			(°)
			Field Strength
			(nT)
			59.99
			48,143

Design	Plan #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			93.43

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	
8,020.17	0.00	0.00	8,020.17	0.00	0.00	0.00	0.00	0.00	0.00	
8,932.22	91.21	93.43	8,593.00	-34.99	583.96	10.00	10.00	10.24	93.43	
13,116.08	91.21	93.43	8,505.00	-285.19	4,759.40	0.00	0.00	0.00	0.00	PBHL (PA1F 1H)



LEAM Drilling Systems LLC

Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Site:	Purple Ace 1 Fed 1H	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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
SHL (PA1F 1H)									
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
Rustler									
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
1,490.00	0.00	0.00	1,490.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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



LEAM Drilling Systems LLC

Planning Report



Database: EDM 5000.1 Single User Db
 Company: DEVON ENERGY
 Project: Lea County, NM (NAD-83)
 Site: Purple Ace 1 Fed 1H
 Well: 1H
 Wellbore: OH
 Design: Plan #1

Local Co-ordinate Reference: Well 1H
 TVD Reference: 3067.7' GL + 25' RKB @ 3092.70usft
 MD Reference: 3067.7' GL + 25' RKB @ 3092.70usft
 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)	
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	
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	
Base Salt										
5,320.00	0.00	0.00	5,320.00	0.00	0.00	0.00	0.00	0.00	0.00	
Lamar										
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	
Bell Canyon										
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	
6,477.00	0.00	0.00	6,477.00	0.00	0.00	0.00	0.00	0.00	0.00	
Cherry Canyon										
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	
7,750.00	0.00	0.00	7,750.00	0.00	0.00	0.00	0.00	0.00	0.00	
Brushy Canyon										
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	
8,020.17	0.00	0.00	8,020.17	0.00	0.00	0.00	0.00	0.00	0.00	
KOP 10° DLS										
8,050.00	2.98	93.43	8,049.99	-0.05	0.77	0.78	10.00	10.00	0.00	
8,100.00	7.98	93.43	8,099.74	-0.33	5.54	5.55	10.00	10.00	0.00	
8,150.00	12.98	93.43	8,148.89	-0.88	14.62	14.65	10.00	10.00	0.00	
8,200.00	17.98	93.43	8,197.06	-1.67	27.94	27.99	10.00	10.00	0.00	
8,250.00	22.98	93.43	8,243.89	-2.72	45.40	45.48	10.00	10.00	0.00	
8,300.00	27.98	93.43	8,289.01	-4.01	66.87	66.99	10.00	10.00	0.00	
8,350.00	32.98	93.43	8,332.08	-5.52	92.18	92.34	10.00	10.00	0.00	
8,400.00	37.98	93.43	8,372.78	-7.26	121.14	121.36	10.00	10.00	0.00	
8,450.00	42.98	93.43	8,410.80	-9.20	153.53	153.81	10.00	10.00	0.00	
8,500.00	47.98	93.43	8,445.85	-11.33	189.11	189.45	10.00	10.00	0.00	
8,550.00	52.98	93.43	8,477.65	-13.64	227.60	228.01	10.00	10.00	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:	3067.7' GL + 25' RKB @ 3092.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Site:	Purple Ace 1 Fed 1H	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)
8,600.00	57.98	93.43	8,505.98	-16.10	268.71	269.19	10.00	10.00	0.00
8,650.00	62.98	93.43	8,530.60	-18.70	312.13	312.69	10.00	10.00	0.00
8,700.00	67.98	93.43	8,551.34	-21.42	357.53	358.17	10.00	10.00	0.00
8,750.00	72.98	93.43	8,568.04	-24.24	404.55	405.28	10.00	10.00	0.00
8,800.00	77.98	93.43	8,580.57	-27.14	452.85	453.67	10.00	10.00	0.00
8,850.00	82.98	93.43	8,588.84	-30.08	502.06	502.96	10.00	10.00	0.00
8,900.00	87.98	93.43	8,592.77	-33.06	551.80	552.79	10.00	10.00	0.00
8,932.22	91.21	93.43	8,593.00	-34.99	583.96	585.01	10.00	10.00	0.00
LP									
9,000.00	91.21	93.43	8,591.58	-39.04	651.60	652.77	0.00	0.00	0.00
9,100.00	91.21	93.43	8,589.47	-45.03	751.40	752.75	0.00	0.00	0.00
9,200.00	91.21	93.43	8,587.37	-51.01	851.20	852.73	0.00	0.00	0.00
9,300.00	91.21	93.43	8,585.27	-56.99	951.00	952.71	0.00	0.00	0.00
9,400.00	91.21	93.43	8,583.16	-62.97	1,050.80	1,052.68	0.00	0.00	0.00
9,500.00	91.21	93.43	8,581.06	-68.95	1,150.60	1,152.66	0.00	0.00	0.00
9,600.00	91.21	93.43	8,578.96	-74.93	1,250.40	1,252.64	0.00	0.00	0.00
9,700.00	91.21	93.43	8,576.85	-80.91	1,350.20	1,352.62	0.00	0.00	0.00
9,800.00	91.21	93.43	8,574.75	-86.89	1,449.99	1,452.59	0.00	0.00	0.00
9,900.00	91.21	93.43	8,572.65	-92.87	1,549.79	1,552.57	0.00	0.00	0.00
10,000.00	91.21	93.43	8,570.54	-98.85	1,649.59	1,652.55	0.00	0.00	0.00
10,100.00	91.21	93.43	8,568.44	-104.83	1,749.39	1,752.53	0.00	0.00	0.00
10,200.00	91.21	93.43	8,566.34	-110.81	1,849.19	1,852.51	0.00	0.00	0.00
10,300.00	91.21	93.43	8,564.23	-116.79	1,948.99	1,952.48	0.00	0.00	0.00
10,400.00	91.21	93.43	8,562.13	-122.77	2,048.79	2,052.46	0.00	0.00	0.00
10,500.00	91.21	93.43	8,560.03	-128.75	2,148.59	2,152.44	0.00	0.00	0.00
10,600.00	91.21	93.43	8,557.92	-134.73	2,248.39	2,252.42	0.00	0.00	0.00
10,700.00	91.21	93.43	8,555.82	-140.71	2,348.18	2,352.40	0.00	0.00	0.00
10,800.00	91.21	93.43	8,553.72	-146.69	2,447.98	2,452.37	0.00	0.00	0.00
10,900.00	91.21	93.43	8,551.61	-152.67	2,547.78	2,552.35	0.00	0.00	0.00
11,000.00	91.21	93.43	8,549.51	-158.65	2,647.58	2,652.33	0.00	0.00	0.00
11,100.00	91.21	93.43	8,547.41	-164.63	2,747.38	2,752.31	0.00	0.00	0.00
11,200.00	91.21	93.43	8,545.30	-170.61	2,847.18	2,852.29	0.00	0.00	0.00
11,300.00	91.21	93.43	8,543.20	-176.59	2,946.98	2,952.26	0.00	0.00	0.00
11,400.00	91.21	93.43	8,541.10	-182.57	3,046.78	3,052.24	0.00	0.00	0.00
11,500.00	91.21	93.43	8,538.99	-188.55	3,146.57	3,152.22	0.00	0.00	0.00
11,600.00	91.21	93.43	8,536.89	-194.53	3,246.37	3,252.20	0.00	0.00	0.00
11,700.00	91.21	93.43	8,534.79	-200.51	3,346.17	3,352.17	0.00	0.00	0.00
11,800.00	91.21	93.43	8,532.68	-206.49	3,445.97	3,452.15	0.00	0.00	0.00
11,900.00	91.21	93.43	8,530.58	-212.47	3,545.77	3,552.13	0.00	0.00	0.00
12,000.00	91.21	93.43	8,528.48	-218.45	3,645.57	3,652.11	0.00	0.00	0.00
12,100.00	91.21	93.43	8,526.37	-224.43	3,745.37	3,752.09	0.00	0.00	0.00
12,200.00	91.21	93.43	8,524.27	-230.41	3,845.17	3,852.06	0.00	0.00	0.00
12,300.00	91.21	93.43	8,522.17	-236.39	3,944.97	3,952.04	0.00	0.00	0.00
12,400.00	91.21	93.43	8,520.06	-242.37	4,044.76	4,052.02	0.00	0.00	0.00
12,500.00	91.21	93.43	8,517.96	-248.35	4,144.56	4,152.00	0.00	0.00	0.00
12,600.00	91.21	93.43	8,515.86	-254.33	4,244.36	4,251.98	0.00	0.00	0.00
12,700.00	91.21	93.43	8,513.75	-260.31	4,344.16	4,351.95	0.00	0.00	0.00
12,800.00	91.21	93.43	8,511.65	-266.29	4,443.96	4,451.93	0.00	0.00	0.00
12,900.00	91.21	93.43	8,509.55	-272.27	4,543.76	4,551.91	0.00	0.00	0.00
13,000.00	91.21	93.43	8,507.44	-278.25	4,643.56	4,651.89	0.00	0.00	0.00
13,100.00	91.21	93.43	8,505.34	-284.23	4,743.36	4,751.86	0.00	0.00	0.00
13,116.08	91.21	93.43	8,505.00	-285.19	4,759.40	4,767.94	0.00	0.00	0.00
TD - PBHL (PA1F 1H)									



LEAM Drilling Systems LLC
Planning Report



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3067.7' GL + 25' RKB @ 3092.70usft
Site:	Purple Ace 1 Fed 1H	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (PA1F 1H) - plan hits target center - Point	0.00	0.00	0.00	0.00	0.00	393,803.55	852,367.89	32° 4' 43.198 N	103° 19' 44.886 W
PBHL (PA1F 1H) - plan hits target center - Point	0.00	0.00	8,505.00	-285.19	4,759.40	393,518.36	857,127.29	32° 4' 39.934 N	103° 18' 49.607 W

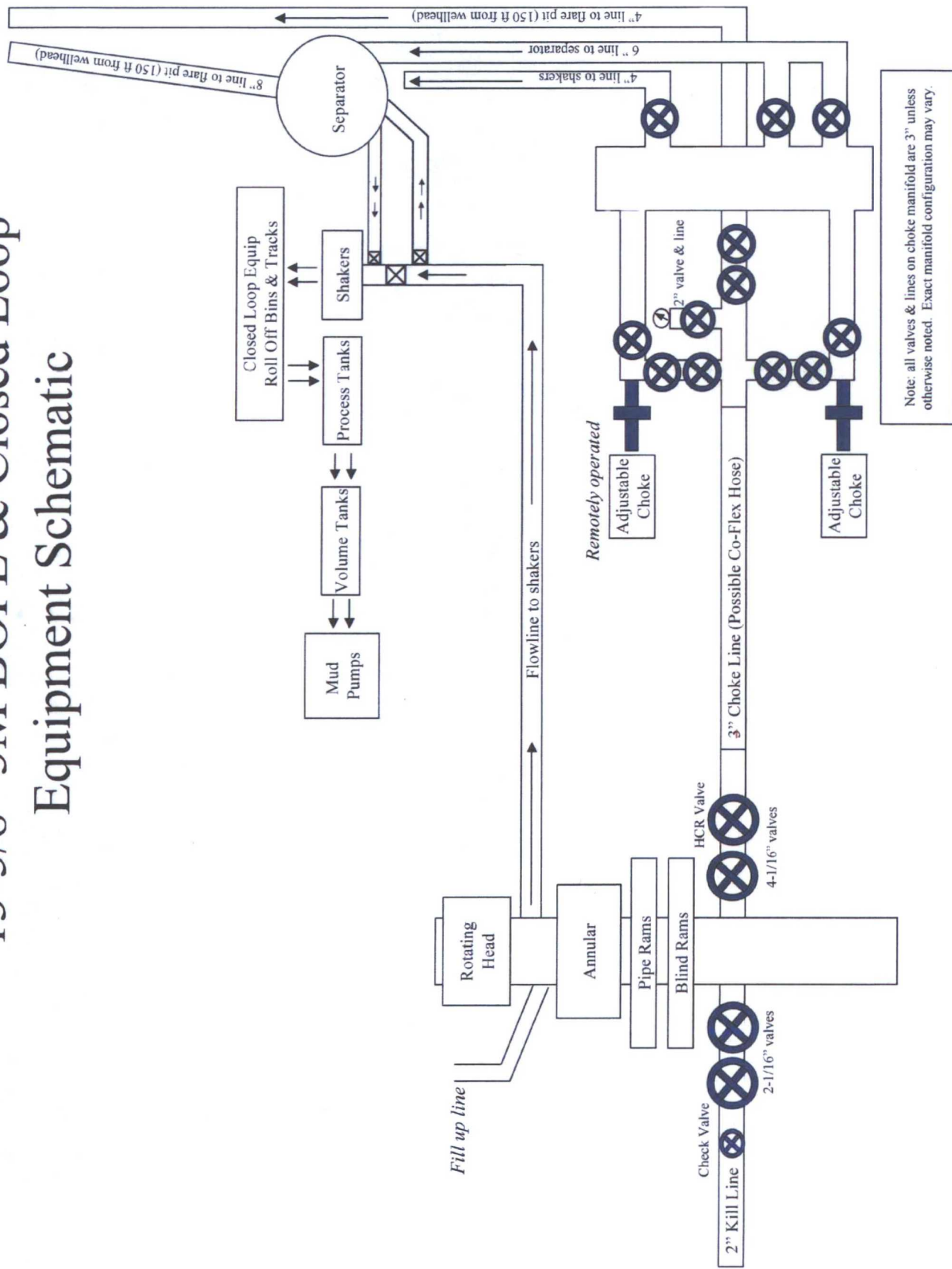
Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,100.00	1,100.00	Rustler		0.00	
1,490.00	1,490.00	Top Salt		0.00	
5,300.00	5,300.00	Base Salt		0.00	
5,320.00	5,320.00	Lamar		0.00	
5,500.00	5,500.00	Bell Canyon		0.00	
6,477.00	6,477.00	Cherry Canyon		0.00	
7,750.00	7,750.00	Brushy Canyon		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
8,020.17	8,020.17	0.00	0.00	KOP 10° DLS
8,932.22	8,593.00	-34.99	583.96	LP
13,116.08	8,505.00	-285.19	4,759.40	TD

13-5/8" 3M BOPE & Closed Loop Equipment Schematic





Fluid Technology

ContiTech Beattie Corp.
Website: www.contitechbeattie.com

Monday, June 14, 2010

RE: Drilling & Production Hoses
Lifting & Safety Equipment

To Heimerich & Payne,

A Continental ContiTech hose assembly can perform as intended and suitable for the application regardless of whether the hose is secured or unsecured in its configuration. As a manufacturer of High Pressure Hose Assemblies for use in Drilling & Production, we do offer the corresponding lifting and safety equipment, this has the added benefit of easing the lifting and handling of each hose assembly whilst affording hose longevity by ensuring correct handling methods and procedures as well as securing the hose in the unlikely event of a failure; but in no way does the lifting and safety equipment affect the performance of the hoses providing the hoses have been handled and installed correctly. It is good practice to use lifting & safety equipment but not mandatory.

Should you have any questions or require any additional information/clarifications then please do not hesitate to contact us.

ContiTech Beattie is part of the Continental AG Corporation and can offer the full support resources associated with a global organization.

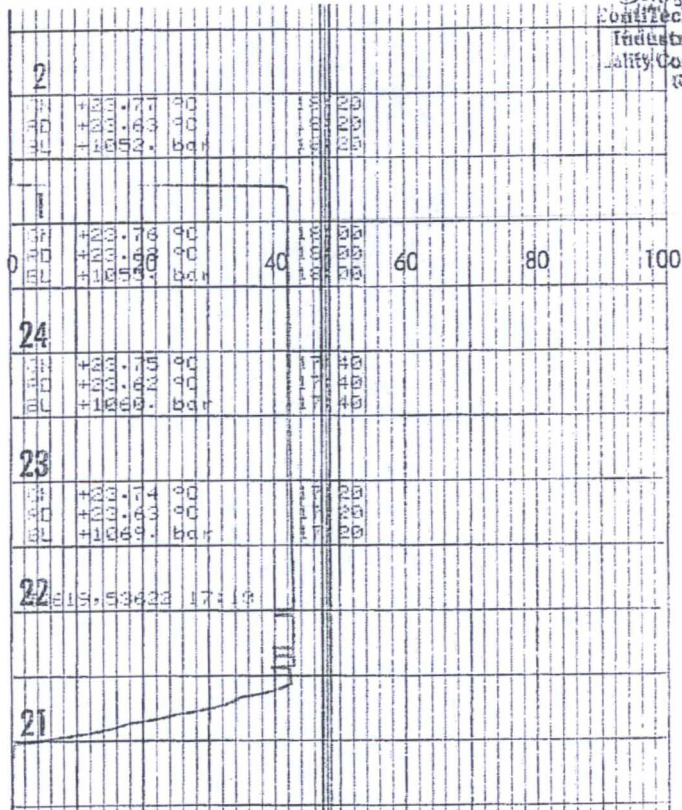
Best regards,

Robin Hodgson
Sales Manager
ContiTech Beattie Corp

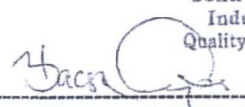
ContiTech Beattie Corp,
11535 Brittmoore Park Drive,
Houston, TX 77041
Phone: +1 (832) 327-0141
Fax: +1 (832) 327-0148
www.contitechbeattie.com



HARTMANN &



Back
Contitech Rubber
Industrial Kft.
Quality Control Dept.
(2)

QUALITY CONTROL INSPECTION AND TEST CERTIFICATE				CERT. N°: 1713	
PURCHASER: ContiTech Beattie Co.				P.O. N°: 002808	
CONTITECH ORDER N°: 426127		HOSE TYPE: 3" ID Choke and Kill Hose			
HOSE SERIAL N°: 53622		NOMINAL / ACTUAL LENGTH: 10,67 m			
W.P. 68,96 MPa 10000 psi		T.P. 103,4 MPa 15000 psi		Duration: 60 min.	
Pressure test with water at ambient temperature See attachment. (1 page) ↑ 10 mm = 10 Min. → 10 mm = 25 MPa					
COUPLINGS Type		Serial N°		Quality	
3" coupling with 4 1/16" Flange end		5503 2029		AISI 4130 AISI 4130	
				Heat N° N1590P 27566	
INFOCHIP INSTALLED				API Spec 16 C Temperature rate: "B"	
All metal parts are flawless				Hose conform to NACE MR 01-75	
WE CERTIFY THAT THE ABOVE HOSE HAS BEEN MANUFACTURED IN ACCORDANCE WITH THE TERMS OF THE ORDER INSPECTED AND PRESSURE TESTED AS ABOVE WITH SATISFACTORY RESULT.					
STATEMENT OF CONFORMITY: We hereby certify that the above items/equipment supplied by us are in conformity with the terms, conditions and specifications of the above Purchaser Order and that these items/equipment were fabricated inspected and tested in accordance with the referenced standards, codes and specifications and meet the relevant acceptance criteria and design requirements.					
COUNTRY OF ORIGIN HUNGARY/EU					
Date: 25. August. 2008		Inspector		Quality Control ContiTech Rubber Industrial Kft. Quality Control Dept.  	

DEVON ENERGY

QUOTE LAYOUT
F18648
REF: DM100161737
DM100151315

PRIVATE AND CONFIDENTIAL		REVISIONS	DESCRIPTION					DM100161771-2A	
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		B 1-22-14		K. VU		05-08-13			
		C 5-13-14		Z. MARQUEZ		05-08-13			
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				K. TAHA		05-08-13			
				APPROVED BY R. HAMILTON		05-08-13			

DEVON ENERGY
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