

30-025-42199

HOBBS OCD

OCT 21 2014

RECEIVED

DEVON ENERGY

Lea County, NM (NAD-83)

Sawyer 22 Fee

1H

OH

Plan: Plan #1

Standard Planning Report

13 October, 2014

OCT 27 2014

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
Site:	Sawyer 22 Fee	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	Sawyer 22 Fee		
Site Position:		Northing:	565,559.67 usft
From:	Map	Easting:	815,601.65 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 33' 5.865 N
		Longitude:	103° 26' 35.595 W
		Grid Convergence:	0.48 °

Well	1H		
Well Position	+N/-S	0.00 usft	Northing: 565,559.67 usft
	+E/-W	0.00 usft	Easting: 815,601.65 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	0.00 usft
		Latitude:	32° 33' 5.865 N
		Longitude:	103° 26' 35.595 W
		Ground Level:	3,684.10 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2014	10/13/2014	(°)
			7.30
			Dip Angle
			(°)
			60.42
			Field Strength
			(nT)
			48,454

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
			(°)
			356.92

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9,695.08	0.00	0.00	9,695.08	0.00	0.00	0.00	0.00	0.00	0.00	
10,601.74	90.67	356.92	10,268.00	578.78	-31.11	10.00	10.00	-0.34	356.92	
14,904.17	90.67	356.92	10,218.00	4,874.72	-261.98	0.00	0.00	0.00	0.00	PBHL (S22F 1H)

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Site:	Sawyer 22 Fee	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 (\$22F 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
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
1,998.00	0.00	0.00	1,998.00	0.00	0.00	0.00	0.00	0.00	0.00
Rustler									
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
2,298.00	0.00	0.00	2,298.00	0.00	0.00	0.00	0.00	0.00	0.00
Top Salt									
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
3,648.00	0.00	0.00	3,648.00	0.00	0.00	0.00	0.00	0.00	0.00
Base Salt									
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
3,918.00	0.00	0.00	3,918.00	0.00	0.00	0.00	0.00	0.00	0.00
Yates									
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

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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)
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
4,998.00	0.00	0.00	4,998.00	0.00	0.00	0.00	0.00	0.00	0.00
Queen									
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
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
5,943.00	0.00	0.00	5,943.00	0.00	0.00	0.00	0.00	0.00	0.00
Delaware									
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
8,093.00	0.00	0.00	8,093.00	0.00	0.00	0.00	0.00	0.00	0.00
Lwr Brushy Canyon									
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
8,323.00	0.00	0.00	8,323.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS LM									
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

LEAM Drilling Systems LLC

Planning Report

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Company:	DEVON ENERGY	TVD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
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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)
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
9,538.00	0.00	0.00	9,538.00	0.00	0.00	0.00	0.00	0.00	0.00
1st BS SS									
9,600.00	0.00	0.00	9,600.00	0.00	0.00	0.00	0.00	0.00	0.00
9,695.08	0.00	0.00	9,695.08	0.00	0.00	0.00	0.00	0.00	0.00
KOP 10" DLS									
9,700.00	0.49	356.92	9,700.00	0.02	0.00	0.02	10.00	10.00	0.00
9,750.00	5.49	356.92	9,749.92	2.63	-0.14	2.63	10.00	10.00	0.00
9,800.00	10.49	356.92	9,799.41	9.57	-0.51	9.58	10.00	10.00	0.00
9,849.88	15.48	356.92	9,848.00	20.75	-1.12	20.78	10.00	10.00	0.00
2nd BS LM									
9,850.00	15.49	356.92	9,848.12	20.79	-1.12	20.82	10.00	10.00	0.00
9,900.00	20.49	356.92	9,895.66	36.20	-1.95	36.26	10.00	10.00	0.00
9,950.00	25.49	356.92	9,941.67	55.70	-2.99	55.78	10.00	10.00	0.00
10,000.00	30.49	356.92	9,985.81	79.13	-4.25	79.24	10.00	10.00	0.00
10,050.00	35.49	356.92	10,027.73	106.30	-5.71	106.46	10.00	10.00	0.00
10,100.00	40.49	356.92	10,067.13	137.03	-7.36	137.23	10.00	10.00	0.00
10,150.00	45.49	356.92	10,103.69	171.06	-9.19	171.31	10.00	10.00	0.00
10,200.00	50.49	356.92	10,137.14	208.15	-11.19	208.45	10.00	10.00	0.00
10,250.00	55.49	356.92	10,167.22	248.01	-13.33	248.37	10.00	10.00	0.00
10,300.00	60.49	356.92	10,193.72	290.33	-15.60	290.75	10.00	10.00	0.00
10,330.44	63.54	356.92	10,208.00	317.17	-17.05	317.63	10.00	10.00	0.00
2nd BS SS									
10,350.00	65.49	356.92	10,216.42	334.80	-17.99	335.28	10.00	10.00	0.00
10,400.00	70.49	356.92	10,235.15	381.08	-20.48	381.63	10.00	10.00	0.00
10,450.00	75.49	356.92	10,249.77	428.80	-23.05	429.42	10.00	10.00	0.00
10,500.00	80.49	356.92	10,260.17	477.62	-25.67	478.31	10.00	10.00	0.00
10,550.00	85.49	356.92	10,266.27	527.16	-28.33	527.92	10.00	10.00	0.00
10,601.74	90.67	356.92	10,268.00	578.78	-31.11	579.62	10.00	10.00	0.00
LP									
10,700.00	90.67	356.92	10,266.86	676.89	-36.38	677.87	0.00	0.00	0.00
10,800.00	90.67	356.92	10,265.70	776.74	-41.74	777.86	0.00	0.00	0.00
10,900.00	90.67	356.92	10,264.53	876.59	-47.11	877.86	0.00	0.00	0.00
11,000.00	90.67	356.92	10,263.37	976.44	-52.48	977.85	0.00	0.00	0.00
11,100.00	90.67	356.92	10,262.21	1,076.29	-57.84	1,077.84	0.00	0.00	0.00
11,200.00	90.67	356.92	10,261.05	1,176.14	-63.21	1,177.84	0.00	0.00	0.00
11,300.00	90.67	356.92	10,259.88	1,275.99	-68.57	1,277.83	0.00	0.00	0.00
11,400.00	90.67	356.92	10,258.72	1,375.84	-73.94	1,377.82	0.00	0.00	0.00
11,500.00	90.67	356.92	10,257.56	1,475.69	-79.31	1,477.82	0.00	0.00	0.00
11,600.00	90.67	356.92	10,256.40	1,575.54	-84.67	1,577.81	0.00	0.00	0.00
11,700.00	90.67	356.92	10,255.24	1,675.39	-90.04	1,677.80	0.00	0.00	0.00
11,800.00	90.67	356.92	10,254.07	1,775.23	-95.41	1,777.80	0.00	0.00	0.00
11,900.00	90.67	356.92	10,252.91	1,875.08	-100.77	1,877.79	0.00	0.00	0.00
12,000.00	90.67	356.92	10,251.75	1,974.93	-106.14	1,977.78	0.00	0.00	0.00
12,100.00	90.67	356.92	10,250.59	2,074.78	-111.50	2,077.78	0.00	0.00	0.00
12,200.00	90.67	356.92	10,249.43	2,174.63	-116.87	2,177.77	0.00	0.00	0.00
12,300.00	90.67	356.92	10,248.26	2,274.48	-122.24	2,277.76	0.00	0.00	0.00
12,400.00	90.67	356.92	10,247.10	2,374.33	-127.60	2,377.76	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:	3684.1' GL + 25' RKB @ 3709.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
Site:	Sawyer 22 Fee	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)
12,500.00	90.67	356.92	10,245.94	2,474.18	-132.97	2,477.75	0.00	0.00	0.00
12,600.00	90.67	356.92	10,244.78	2,574.03	-138.33	2,577.74	0.00	0.00	0.00
12,700.00	90.67	356.92	10,243.62	2,673.88	-143.70	2,677.74	0.00	0.00	0.00
12,800.00	90.67	356.92	10,242.45	2,773.73	-149.07	2,777.73	0.00	0.00	0.00
12,900.00	90.67	356.92	10,241.29	2,873.58	-154.43	2,877.72	0.00	0.00	0.00
13,000.00	90.67	356.92	10,240.13	2,973.42	-159.80	2,977.72	0.00	0.00	0.00
13,100.00	90.67	356.92	10,238.97	3,073.27	-165.17	3,077.71	0.00	0.00	0.00
13,200.00	90.67	356.92	10,237.80	3,173.12	-170.53	3,177.70	0.00	0.00	0.00
13,300.00	90.67	356.92	10,236.64	3,272.97	-175.90	3,277.70	0.00	0.00	0.00
13,400.00	90.67	356.92	10,235.48	3,372.82	-181.26	3,377.69	0.00	0.00	0.00
13,500.00	90.67	356.92	10,234.32	3,472.67	-186.63	3,477.68	0.00	0.00	0.00
13,600.00	90.67	356.92	10,233.16	3,572.52	-192.00	3,577.68	0.00	0.00	0.00
13,700.00	90.67	356.92	10,231.99	3,672.37	-197.36	3,677.67	0.00	0.00	0.00
13,800.00	90.67	356.92	10,230.83	3,772.22	-202.73	3,777.66	0.00	0.00	0.00
13,900.00	90.67	356.92	10,229.67	3,872.07	-208.09	3,877.66	0.00	0.00	0.00
14,000.00	90.67	356.92	10,228.51	3,971.92	-213.46	3,977.65	0.00	0.00	0.00
14,100.00	90.67	356.92	10,227.35	4,071.77	-218.83	4,077.64	0.00	0.00	0.00
14,200.00	90.67	356.92	10,226.18	4,171.61	-224.19	4,177.63	0.00	0.00	0.00
14,300.00	90.67	356.92	10,225.02	4,271.46	-229.56	4,277.63	0.00	0.00	0.00
14,400.00	90.67	356.92	10,223.86	4,371.31	-234.93	4,377.62	0.00	0.00	0.00
14,500.00	90.67	356.92	10,222.70	4,471.16	-240.29	4,477.61	0.00	0.00	0.00
14,600.00	90.67	356.92	10,221.54	4,571.01	-245.66	4,577.61	0.00	0.00	0.00
14,700.00	90.67	356.92	10,220.37	4,670.86	-251.02	4,677.60	0.00	0.00	0.00
14,800.00	90.67	356.92	10,219.21	4,770.71	-256.39	4,777.59	0.00	0.00	0.00
14,904.17	90.67	356.92	10,218.00	4,874.72	-261.98	4,881.75	0.00	0.00	0.00
TD - PBHL (S22F 1H)									

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SHL (S22F 1H)	0.00	0.00	0.00	0.00	0.00	565,559.67	815,601.65	32° 33' 5.865 N	103° 26' 35.595 W
- hit/miss target									
- plan hits target center									
- Point									
PBHL (S22F 1H)	0.00	0.00	10,218.00	4,874.72	-261.98	570,434.39	815,339.67	32° 33' 54.118 N	103° 26' 38.180 W
- plan hits target center									
- Point									

LEAM Drilling Systems LLC

Planning Report

Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well 1H
Company:	DEVON ENERGY	TVD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
Project:	Lea County, NM (NAD-83)	MD Reference:	3684.1' GL + 25' RKB @ 3709.10usft
Site:	Sawyer 22 Fee	North Reference:	Grid
Well:	1H	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,998.00	1,998.00	Rustler		0.00	
2,298.00	2,298.00	Top Salt		0.00	
3,648.00	3,648.00	Base Salt		0.00	
3,918.00	3,918.00	Yates		0.00	
4,998.00	4,998.00	Queen		0.00	
5,943.00	5,943.00	Delaware		0.00	
8,093.00	8,093.00	Lwr Brushy Canyon		0.00	
8,323.00	8,323.00	1st BS LM		0.00	
9,538.00	9,538.00	1st BS SS		0.00	
9,849.88	9,848.00	2nd BS LM		0.00	
10,330.44	10,208.00	2nd BS SS		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		+N/-S (usft)	+E/-W (usft)	
9,695.08	9,695.08	0.00	0.00	KOP 10° DLS
10,601.74	10,268.00	578.78	-31.11	LP
14,904.17	10,218.00	4,874.72	-261.98	TD