



COG Operating LLC

Lea County(NAD83)

Lazy J "27" State

#1H

OH

Plan: Design #1

Pathfinder X & Y Planning Report

13 April, 2011

PATHFINDER
A Schlumberger Company

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Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Well #1H
WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Project	Lea County(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	Lazy J "27" State		
Site Position:		Northing:	786,162.040 usft
From:	Map	Easting:	762,758.670 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	33° 9' 32.517 N
		Longitude:	103° 36' 35.288 W
		Grid Convergence:	0.40 "

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft		Wellhead Elevation:
			usft
			Latitude:
			33° 9' 32.517 N
			Longitude:
			103° 36' 35.288 W
			Ground Level:
			4,235.70 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Wellbore
	IGRF200510	03/28/11	7.69
			61.07
			49.224

Design	Design #1		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth (ft)		
	0.00	0.00	0.00
			89.52

Survey Tool Program	Date 04/13/11		
From:	To:	Survey Wellbore	Tool Name
(usft)	(usft)		
0.00	13,416.24	Design #1 (OH)	MWD
			MWD - Standard



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Planned Survey

MD (usft)	Tag (")	Age (y)	Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)	True Depth (usft)
0.00	0.00	0.00	0.00	4,254.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
100.00	0.00	0.00	100.00	4,154.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
200.00	0.00	0.00	200.00	4,054.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
300.00	0.00	0.00	300.00	3,954.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
400.00	0.00	0.00	400.00	3,854.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
500.00	0.00	0.00	500.00	3,754.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
600.00	0.00	0.00	600.00	3,654.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
700.00	0.00	0.00	700.00	3,554.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
800.00	0.00	0.00	800.00	3,454.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
900.00	0.00	0.00	900.00	3,354.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,000.00	0.00	0.00	1,000.00	3,254.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,100.00	0.00	0.00	1,100.00	3,154.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,200.00	0.00	0.00	1,200.00	3,054.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,300.00	0.00	0.00	1,300.00	2,954.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,400.00	0.00	0.00	1,400.00	2,854.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,500.00	0.00	0.00	1,500.00	2,754.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,600.00	0.00	0.00	1,600.00	2,654.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,700.00	0.00	0.00	1,700.00	2,554.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,800.00	0.00	0.00	1,800.00	2,454.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
1,900.00	0.00	0.00	1,900.00	2,354.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,000.00	0.00	0.00	2,000.00	2,254.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,100.00	0.00	0.00	2,100.00	2,154.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,200.00	0.00	0.00	2,200.00	2,054.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,300.00	0.00	0.00	2,300.00	1,954.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,400.00	0.00	0.00	2,400.00	1,854.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,500.00	0.00	0.00	2,500.00	1,754.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
2,600.00	0.00	0.00	2,600.00	1,654.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67



Pathfinder
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Wellbore: OH
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Minimum Curvature
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Planned Survey

MD (usft)	Inc (°)											
2,700.00	0.00	0.00	2,700.00	1,554.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
2,800.00	0.00	0.00	2,800.00	1,454.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
2,900.00	0.00	0.00	2,900.00	1,354.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,000.00	0.00	0.00	3,000.00	1,254.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,100.00	0.00	0.00	3,100.00	1,154.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,200.00	0.00	0.00	3,200.00	1,054.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,300.00	0.00	0.00	3,300.00	954.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,400.00	0.00	0.00	3,400.00	854.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,500.00	0.00	0.00	3,500.00	754.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,600.00	0.00	0.00	3,600.00	654.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,700.00	0.00	0.00	3,700.00	554.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,800.00	0.00	0.00	3,800.00	454.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
3,900.00	0.00	0.00	3,900.00	354.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,000.00	0.00	0.00	4,000.00	254.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,100.00	0.00	0.00	4,100.00	154.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,200.00	0.00	0.00	4,200.00	54.20	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,300.00	0.00	0.00	4,300.00	-45.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,400.00	0.00	0.00	4,400.00	-145.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,500.00	0.00	0.00	4,500.00	-245.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,600.00	0.00	0.00	4,600.00	-345.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,700.00	0.00	0.00	4,700.00	-445.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,800.00	0.00	0.00	4,800.00	-545.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
4,900.00	0.00	0.00	4,900.00	-645.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
5,000.00	0.00	0.00	5,000.00	-745.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
5,100.00	0.00	0.00	5,100.00	-845.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
5,200.00	0.00	0.00	5,200.00	-945.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	
5,300.00	0.00	0.00	5,300.00	-1,045.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67	



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WELL @ 4254.20usft (Original Well Elev)
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Planned Survey

MD (usft)	Inc (usft)									Northings (usft)	Eastings (usft)
5,400.00	0.00	0.00	5,400.00	-1,145.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,500.00	0.00	0.00	5,500.00	-1,245.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,600.00	0.00	0.00	5,600.00	-1,345.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,700.00	0.00	0.00	5,700.00	-1,445.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,800.00	0.00	0.00	5,800.00	-1,545.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
5,900.00	0.00	0.00	5,900.00	-1,645.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,000.00	0.00	0.00	6,000.00	-1,745.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,100.00	0.00	0.00	6,100.00	-1,845.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,200.00	0.00	0.00	6,200.00	-1,945.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,300.00	0.00	0.00	6,300.00	-2,045.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,400.00	0.00	0.00	6,400.00	-2,145.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,500.00	0.00	0.00	6,500.00	-2,245.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,600.00	0.00	0.00	6,600.00	-2,345.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,700.00	0.00	0.00	6,700.00	-2,445.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,800.00	0.00	0.00	6,800.00	-2,545.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
6,900.00	0.00	0.00	6,900.00	-2,645.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,000.00	0.00	0.00	7,000.00	-2,745.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,100.00	0.00	0.00	7,100.00	-2,845.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,200.00	0.00	0.00	7,200.00	-2,945.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,300.00	0.00	0.00	7,300.00	-3,045.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,400.00	0.00	0.00	7,400.00	-3,145.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,500.00	0.00	0.00	7,500.00	-3,245.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,600.00	0.00	0.00	7,600.00	-3,345.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,700.00	0.00	0.00	7,700.00	-3,445.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,800.00	0.00	0.00	7,800.00	-3,545.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
7,900.00	0.00	0.00	7,900.00	-3,645.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,000.00	0.00	0.00	8,000.00	-3,745.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67



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Pathfinder X & Y Planning Report

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WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
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Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD: (usft)	Inc (°)	Ass (°)	True (usft)	True (usft)	True (usft)	True (usft)	True (usft)	True (usft)	True (usft)	North (usft)	East (usft)
8,100.00	0.00	0.00	8,100.00	-3,845.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,200.00	0.00	0.00	8,200.00	-3,845.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,300.00	0.00	0.00	8,300.00	-4,045.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,400.00	0.00	0.00	8,400.00	-4,145.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,500.00	0.00	0.00	8,500.00	-4,245.80	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,522.50	0.00	0.00	8,522.50	-4,268.30	0.00	0.00	0.00	0.00	0.00	786,162.04	762,758.67
8,525.00	0.30	89.52	8,525.00	-4,270.80	0.00	0.01	0.01	0.01	12.00	786,162.04	762,758.68
8,550.00	3.30	89.52	8,549.98	-4,295.78	0.01	0.79	0.79	0.79	12.00	786,162.05	762,759.46
8,575.00	6.30	89.52	8,574.89	-4,320.69	0.02	2.88	2.88	2.88	12.00	786,162.06	762,761.55
8,600.00	9.30	89.52	8,599.66	-4,345.46	0.05	6.28	6.28	6.28	12.00	786,162.09	762,764.95
8,625.00	12.30	89.52	8,624.21	-4,370.01	0.09	10.96	10.96	10.96	12.00	786,162.13	762,769.63
8,650.00	15.30	89.52	8,648.49	-4,394.29	0.14	16.92	16.92	16.92	12.00	786,162.18	762,775.59
8,675.00	18.30	89.52	8,672.42	-4,418.22	0.20	24.14	24.15	24.15	12.00	786,162.24	762,782.81
8,700.00	21.30	89.52	8,695.94	-4,441.74	0.27	32.61	32.61	32.61	12.00	786,162.31	762,791.28
8,725.00	24.30	89.52	8,718.98	-4,464.78	0.35	42.30	42.30	42.30	12.00	786,162.39	762,800.97
8,750.00	27.30	89.52	8,741.49	-4,487.29	0.45	53.18	53.18	53.18	12.00	786,162.49	762,811.85
8,775.00	30.30	89.52	8,763.40	-4,509.20	0.55	65.22	65.22	65.22	12.00	786,162.59	762,823.89
8,800.00	33.30	89.52	8,784.64	-4,530.44	0.66	78.39	78.39	78.39	12.00	786,162.70	762,837.06
8,825.00	36.30	89.52	8,805.17	-4,550.97	0.78	92.65	92.66	92.66	12.00	786,162.82	762,851.32
8,850.00	39.30	89.52	8,824.92	-4,570.72	0.90	107.97	107.98	107.98	12.00	786,162.94	762,866.64
8,875.00	42.30	89.52	8,843.84	-4,589.64	1.04	124.30	124.31	124.31	12.00	786,163.08	762,882.97
8,900.00	45.30	89.52	8,861.89	-4,607.69	1.19	141.60	141.61	141.61	12.00	786,163.23	762,900.27
8,925.00	48.30	89.52	8,879.00	-4,624.80	1.34	159.82	159.83	159.83	12.00	786,163.38	762,918.49
8,950.00	51.30	89.52	8,895.14	-4,640.94	1.50	178.92	178.92	178.92	12.00	786,163.54	762,937.59
8,975.00	54.30	89.52	8,910.25	-4,656.05	1.67	198.83	198.83	198.83	12.00	786,163.71	762,957.50
9,000.00	57.30	89.52	8,924.30	-4,670.10	1.84	219.50	219.51	219.51	12.00	786,163.88	762,978.17
9,025.00	60.30	89.52	8,937.25	-4,683.05	2.02	240.88	240.89	240.89	12.00	786,164.06	762,999.55



Well #1H
WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

COMPASS 5000.1 Build 42



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
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Wellbore: OH
Design: Design #1

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Minimum Curvature
EDM 5000.1 Single User Db

Planned Survey

MD (usft)	Loc (°)										
11,000.00	90.00	89.52	9,000.00	-4,745.80	18.47	2,204.87	2,204.94	0.00	786,180.51	764,963.54	
11,100.00	90.00	89.52	9,000.00	-4,745.80	19.31	2,304.86	2,304.94	0.00	786,181.35	765,063.53	
11,200.00	90.00	89.52	9,000.00	-4,745.80	20.15	2,404.86	2,404.94	0.00	786,182.19	765,163.53	
11,300.00	90.00	89.52	9,000.00	-4,745.80	20.99	2,504.86	2,504.94	0.00	786,183.03	765,263.53	
11,400.00	90.00	89.52	9,000.00	-4,745.80	21.82	2,604.85	2,604.94	0.00	786,183.86	765,363.52	
11,500.00	90.00	89.52	9,000.00	-4,745.80	22.66	2,704.85	2,704.94	0.00	786,184.70	765,463.52	
11,600.00	90.00	89.52	9,000.00	-4,745.80	23.50	2,804.85	2,804.94	0.00	786,185.54	765,563.52	
11,700.00	90.00	89.52	9,000.00	-4,745.80	24.34	2,904.84	2,904.94	0.00	786,186.38	765,663.51	
11,800.00	90.00	89.52	9,000.00	-4,745.80	25.17	3,004.84	3,004.94	0.00	786,187.21	765,763.51	
11,900.00	90.00	89.52	9,000.00	-4,745.80	26.01	3,104.84	3,104.94	0.00	786,188.05	765,863.51	
12,000.00	90.00	89.52	9,000.00	-4,745.80	26.85	3,204.83	3,204.94	0.00	786,188.89	765,963.50	
12,100.00	90.00	89.52	9,000.00	-4,745.80	27.69	3,304.83	3,304.94	0.00	786,189.73	766,063.50	
12,200.00	90.00	89.52	9,000.00	-4,745.80	28.52	3,404.83	3,404.94	0.00	786,190.56	766,163.50	
12,300.00	90.00	89.52	9,000.00	-4,745.80	29.36	3,504.82	3,504.94	0.00	786,191.40	766,263.49	
12,400.00	90.00	89.52	9,000.00	-4,745.80	30.20	3,604.82	3,604.94	0.00	786,192.24	766,363.49	
12,500.00	90.00	89.52	9,000.00	-4,745.80	31.04	3,704.81	3,704.94	0.00	786,193.08	766,463.48	
12,600.00	90.00	89.52	9,000.00	-4,745.80	31.88	3,804.81	3,804.94	0.00	786,193.92	766,563.48	
12,700.00	90.00	89.52	9,000.00	-4,745.80	32.71	3,904.81	3,904.94	0.00	786,194.75	766,663.48	
12,800.00	90.00	89.52	9,000.00	-4,745.80	33.55	4,004.80	4,004.94	0.00	786,195.59	766,763.47	
12,900.00	90.00	89.52	9,000.00	-4,745.80	34.39	4,104.80	4,104.94	0.00	786,196.43	766,863.47	
13,000.00	90.00	89.52	9,000.00	-4,745.80	35.23	4,204.80	4,204.94	0.00	786,197.27	766,963.47	
13,100.00	90.00	89.52	9,000.00	-4,745.80	36.06	4,304.79	4,304.94	0.00	786,198.10	767,063.46	
13,200.00	90.00	89.52	9,000.00	-4,745.80	36.90	4,404.79	4,404.94	0.00	786,198.94	767,163.46	
13,300.00	90.00	89.52	9,000.00	-4,745.80	37.74	4,504.79	4,504.94	0.00	786,199.78	767,263.46	
13,400.00	90.00	89.52	9,000.00	-4,745.80	38.58	4,604.78	4,604.94	0.00	786,200.62	767,363.45	
13,416.24	90.00	89.52	9,000.00	-4,745.80	38.71	4,621.02	4,621.18	0.00	786,200.75	767,379.69	

PBHL(Lazy#1H)



Pathfinder
Pathfinder X & Y Planning Report

PATHFINDER
A Schlumberger Company

Company: COG Operating LLC
Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Design: Design #1

Well #1H
WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Well #1H
WELL @ 4254.20usft (Original Well Elev)
WELL @ 4254.20usft (Original Well Elev)
Grid
Minimum Curvature
EDM 5000.1 Single User Db

Checked By: _____ Approved By: _____ Date: _____



Azimuths to Grid North
True North: -0.40°
Magnetic North: 7.29°

Magnetic Field
Strength: 49224.1 nT
Dip Angle: 61.07°
Date: 03/28/2011
Model: IGRF200510

PATHFINDER
A Schlumberger Company

Project: Lea County(NAD83)
Site: Lazy J "27" State
Well: #1H
Wellbore: OH
Plan: Design #1 (#1H/OH)

WELL DETAILS: #1H						
Ground Elevation: 4235.70						
RGS Elevation: WELL @ 4234.30usft (Original Well Elev)						
Rig Name: Original Well Elev						
WU-S	WU-W	North	East	Latitude	Longitude	Grid
0.00	0.00	789182.040	782758.870	33° 9' 32.517 N	103° 36' 35.289 W	

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)					
Name	TVD	WU-S	WU-W	North	East
PSHL.Lazy#1H	000.00	33.53	4821.02	789230.570	787375.690
				Point	

SECTION DETAILS									
MD	Inc	Ad	TVD	WU-S	WU-W	Diag	TFace	VFace	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
8322.50	0.00	8.90	8322.50	0.00	0.00	0.00	0.00	0.00	
8272.56	80.00	83.52	9000.00	4.00	477.48	52.00	82.52	477.58	
13416.24	90.00	83.52	9000.00	35.71	4821.02	0.00	0.00	4821.18	PSHL.Lazy#1H

