

30-025-44198

DGP ENERGY, LLC

Lea County, NM Nad83
Golden Tyche State 1621
#1H

Pilot Hole

Design: Pilot Hole

Standard Survey Report

07 February, 2018

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	COMPASS_GULFCOAST

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	Golden Tyche State 1621		
Site Position:		Northing:	700,220.30 usft
From:	Map	Easting:	839,718.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 55' 16.092 N
		Longitude:	103° 21' 39.421 W
		Grid Convergence:	0.53 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing: 700,220.30 usft
	+E/-W	0.00 usft	Easting: 839,718.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 55' 16.092 N
		Longitude:	103° 21' 39.421 W
		Ground Level:	3,910.00 usft

Wellbore	Pilot Hole		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF2015	11/20/17	6.86
			Dip Angle (°) 60.73
			Field Strength (nT) 48,354.42476031

Design	Pilot Hole		
Audit Notes:			
Version:	1.0	Phase:	ACTUAL
		Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)
	0.00	0.00	0.00
			Direction (°) 179.33

Survey Program	Date 02/07/18		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name
502.00	11,775.00	Survey #1 (Pilot Hole)	MWD+IGRF
11,851.00	11,851.00	Survey #2 (Pilot Hole)	BLIND
			Description
			OWSG MWD + IGRF or WMM
			OWSG BLIND

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	
Surface #1H										
502.00	0.75	0.00	501.99	3.29	0.00	-3.29	0.15	0.15	0.00	
1,022.00	0.00	0.00	1,021.97	6.69	0.00	-6.69	0.14	-0.14	0.00	
1,490.00	0.00	0.00	1,489.97	6.69	0.00	-6.69	0.00	0.00	0.00	
1,952.00	0.50	0.00	1,951.96	8.70	0.00	-8.70	0.11	0.11	0.00	
1,966.00	0.09	270.88	1,965.96	8.77	-0.01	-8.77	3.62	-2.93	-636.57	
2,058.00	0.26	236.60	2,057.96	8.65	-0.26	-8.65	0.21	0.18	-37.26	
2,151.00	0.18	199.51	2,150.96	8.40	-0.48	-8.40	0.17	-0.09	-39.88	
2,244.00	0.09	247.85	2,243.96	8.23	-0.60	-8.24	0.15	-0.10	51.98	

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	COMPASS_GULFCOAST

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)	
2,336.00	0.35	226.06	2,335.96	8.01	-0.87	-8.02	0.29	0.28	-23.68	
2,429.00	0.53	265.78	2,428.96	7.78	-1.50	-7.80	0.37	0.19	42.71	
2,521.00	0.53	281.95	2,520.96	7.84	-2.34	-7.87	0.16	0.00	17.58	
2,613.00	0.35	311.66	2,612.95	8.11	-2.97	-8.15	0.31	-0.20	32.29	
2,706.00	0.53	332.58	2,705.95	8.68	-3.38	-8.72	0.26	0.19	22.49	
2,800.00	0.79	334.51	2,799.94	9.66	-3.86	-9.70	0.28	0.28	2.05	
2,892.00	1.06	2.46	2,891.93	11.08	-4.09	-11.13	0.56	0.29	30.38	
2,985.00	1.49	14.94	2,984.91	13.11	-3.75	-13.15	0.55	0.46	13.42	
3,077.00	1.67	16.35	3,076.87	15.55	-3.06	-15.58	0.20	0.20	1.53	
3,169.00	1.85	21.10	3,168.83	18.22	-2.15	-18.24	0.25	0.20	5.16	
3,261.00	2.02	25.49	3,260.78	21.07	-0.92	-21.08	0.25	0.18	4.77	
3,354.00	1.93	23.91	3,353.72	23.98	0.42	-23.97	0.11	-0.10	-1.70	
3,447.00	2.02	24.96	3,446.67	26.90	1.75	-26.88	0.10	0.10	1.13	
3,539.00	2.29	26.19	3,538.60	30.02	3.25	-29.98	0.30	0.29	1.34	
3,590.00	2.29	23.38	3,589.56	31.87	4.10	-31.82	0.22	0.00	-5.51	
3,631.00	2.29	28.65	3,630.53	33.34	4.82	-33.28	0.51	0.00	12.85	
3,723.00	1.32	28.13	3,722.48	35.88	6.20	-35.81	1.05	-1.05	-0.57	
3,816.00	0.35	33.22	3,815.47	37.07	6.86	-36.98	1.05	-1.04	5.47	
3,908.00	0.35	249.08	3,907.47	37.20	6.75	-37.12	0.72	0.00	-156.67	
4,001.00	0.26	9.67	4,000.47	37.31	6.52	-37.23	0.57	-0.10	129.67	
4,093.00	0.09	215.33	4,092.47	37.45	6.51	-37.38	0.37	-0.18	-167.76	
4,185.00	0.18	41.13	4,184.47	37.50	6.57	-37.43	0.29	0.10	-189.35	
4,278.00	0.26	17.58	4,277.47	37.82	6.73	-37.73	0.13	0.09	-25.32	
4,370.00	0.09	23.03	4,369.47	38.08	6.82	-38.00	0.19	-0.18	5.92	
4,463.00	0.44	329.59	4,462.47	38.46	6.67	-38.38	0.42	0.38	-57.46	
4,556.00	0.09	280.72	4,555.47	38.78	6.41	-38.70	0.42	-0.38	-52.55	
4,648.00	0.18	0.53	4,647.47	38.94	6.34	-38.86	0.20	0.10	86.75	
4,741.00	0.35	306.56	4,740.47	39.25	6.12	-39.18	0.31	0.18	-58.03	
4,834.00	0.18	271.94	4,833.47	39.43	5.74	-39.36	0.24	-0.18	-37.23	
4,950.00	0.44	255.76	4,949.46	39.32	5.13	-39.26	0.23	0.22	-13.95	
5,042.00	1.14	215.69	5,041.45	38.49	4.25	-38.44	0.93	0.76	-43.55	
5,135.00	1.58	200.04	5,134.43	36.54	3.27	-36.50	0.61	0.47	-16.83	
5,228.00	1.41	212.35	5,227.40	34.37	2.22	-34.34	0.39	-0.18	13.24	
5,320.00	1.06	200.74	5,319.38	32.61	1.32	-32.60	0.47	-0.38	-12.62	
5,413.00	1.23	213.40	5,412.36	30.98	0.46	-30.97	0.33	0.18	13.61	
5,505.00	1.14	198.46	5,504.34	29.28	-0.37	-29.29	0.35	-0.10	-16.24	
5,599.00	0.88	205.67	5,598.32	27.75	-0.98	-27.75	0.31	-0.28	7.67	
5,692.00	0.88	223.42	5,691.31	26.58	-1.78	-26.60	0.29	0.00	19.09	
5,784.00	0.88	221.31	5,783.30	25.54	-2.73	-25.57	0.04	0.00	-2.29	
5,876.00	1.14	203.21	5,875.29	24.17	-3.56	-24.21	0.44	0.28	-19.67	
5,971.00	1.32	211.29	5,970.27	22.36	-4.50	-22.41	0.26	0.19	8.51	
6,064.00	1.14	206.37	6,063.24	20.62	-5.47	-20.68	0.22	-0.19	-5.29	
6,156.00	1.06	200.04	6,155.23	19.00	-6.17	-19.07	0.16	-0.09	-6.88	

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	COMPASS_GULFCOAST

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)
6,249.00	1.23	207.07	6,248.21	17.30	-6.91	-17.38	0.24	0.18	7.56
6,341.00	1.32	211.99	6,340.19	15.52	-7.93	-15.62	0.15	0.10	5.35
6,434.00	1.23	205.49	6,433.16	13.72	-8.92	-13.82	0.18	-0.10	-6.99
6,527.00	1.14	207.60	6,526.14	11.99	-9.78	-12.11	0.11	-0.10	2.27
6,621.00	1.06	195.12	6,620.13	10.33	-10.44	-10.45	0.27	-0.09	-13.28
6,713.00	0.88	215.51	6,712.11	8.93	-11.07	-9.06	0.42	-0.20	22.16
6,806.00	1.14	206.54	6,805.10	7.52	-11.90	-7.66	0.33	0.28	-9.65
6,898.00	0.88	210.94	6,897.08	6.10	-12.67	-6.24	0.29	-0.28	4.78
6,991.00	0.79	234.32	6,990.07	5.11	-13.56	-5.27	0.38	-0.10	25.14
7,083.00	0.79	238.89	7,082.07	4.41	-14.62	-4.58	0.07	0.00	4.97
7,175.00	0.70	239.59	7,174.06	3.80	-15.65	-3.98	0.10	-0.10	0.76
7,268.00	0.79	237.66	7,267.05	3.17	-16.68	-3.36	0.10	0.10	-2.08
7,360.00	0.62	208.83	7,359.04	2.39	-17.45	-2.60	0.42	-0.18	-31.34
7,453.00	0.62	209.53	7,452.04	1.52	-17.95	-1.73	0.01	0.00	0.75
7,546.00	0.70	251.19	7,545.03	0.89	-18.73	-1.11	0.51	0.09	44.80
7,639.00	0.53	258.75	7,638.03	0.63	-19.69	-0.86	0.20	-0.18	8.13
7,732.00	0.62	263.50	7,731.02	0.49	-20.61	-0.73	0.11	0.10	5.11
7,824.00	0.79	252.95	7,823.02	0.24	-21.71	-0.50	0.23	0.18	-11.47
7,917.00	0.79	257.87	7,916.01	-0.08	-22.95	-0.19	0.07	0.00	5.29
8,009.00	0.62	254.53	8,008.00	-0.34	-24.05	0.06	0.19	-0.18	-3.63
8,101.00	0.53	252.25	8,099.99	-0.61	-24.94	0.32	0.10	-0.10	-2.48
8,194.00	0.70	213.22	8,192.99	-1.21	-25.66	0.91	0.47	0.18	-41.97
8,286.00	0.44	59.77	8,284.99	-1.51	-25.66	1.21	1.21	-0.28	-166.79
8,379.00	0.70	89.47	8,377.98	-1.32	-24.79	1.03	0.41	0.28	31.94
8,472.00	0.44	74.18	8,470.98	-1.22	-23.87	0.94	0.32	-0.28	-16.44
8,564.00	0.53	141.33	8,562.98	-1.45	-23.27	1.18	0.59	0.10	72.99
8,657.00	0.62	177.01	8,655.97	-2.29	-22.97	2.02	0.39	0.10	38.37
8,749.00	0.62	177.54	8,747.97	-3.29	-22.93	3.02	0.01	0.00	0.58
8,842.00	0.79	210.24	8,840.96	-4.34	-23.23	4.07	0.46	0.18	35.16
8,935.00	1.06	205.31	8,933.95	-5.67	-23.92	5.39	0.30	0.29	-5.30
9,027.00	0.97	212.87	9,025.93	-7.10	-24.70	6.81	0.18	-0.10	8.22
9,120.00	0.88	215.86	9,118.92	-8.34	-25.55	8.04	0.11	-0.10	3.22
9,212.00	1.14	217.97	9,210.91	-9.63	-26.53	9.32	0.29	0.28	2.29
9,305.00	1.06	207.60	9,303.89	-11.12	-27.49	10.80	0.23	-0.09	-11.15
9,398.00	0.97	209.36	9,396.87	-12.57	-28.28	12.24	0.10	-0.10	1.89
9,490.00	0.62	184.57	9,488.87	-13.75	-28.70	13.41	0.53	-0.38	-26.95
9,583.00	0.70	198.28	9,581.86	-14.79	-28.92	14.45	0.19	0.09	14.74
9,675.00	0.88	174.73	9,673.85	-16.03	-29.03	15.68	0.40	0.20	-25.60
9,767.00	0.62	164.18	9,765.84	-17.21	-28.83	16.87	0.32	-0.28	-11.47
9,864.00	0.53	181.23	9,862.84	-18.16	-28.70	17.82	0.20	-0.09	17.58
9,957.00	0.62	203.21	9,955.83	-19.05	-28.90	18.71	0.25	0.10	23.63
10,050.00	0.88	195.29	10,048.83	-20.20	-29.29	19.86	0.30	0.28	-8.52
10,142.00	0.97	189.14	10,140.81	-21.66	-29.60	21.31	0.15	0.10	-6.68

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Pilot Hole	Survey Calculation Method:	Minimum Curvature
Design:	Pilot Hole	Database:	COMPASS_GULFCOAST

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)
10,234.00	1.06	210.76	10,232.80	-23.16	-30.16	22.80	0.42	0.10	23.50
10,327.00	0.88	183.52	10,325.79	-24.61	-30.64	24.25	0.53	-0.19	-29.29
10,420.00	0.97	208.48	10,418.78	-26.01	-31.06	25.65	0.44	0.10	26.84
10,514.00	0.44	201.27	10,512.77	-27.05	-31.57	26.68	0.57	-0.56	-7.67
10,606.00	0.53	194.06	10,604.76	-27.79	-31.80	27.42	0.12	0.10	-7.84
10,699.00	0.53	168.75	10,697.76	-28.63	-31.82	28.25	0.25	0.00	-27.22
10,794.00	1.06	155.04	10,792.75	-29.86	-31.37	29.49	0.59	0.56	-14.43
10,888.00	1.58	147.31	10,886.73	-31.74	-30.30	31.38	0.58	0.55	-8.22
10,954.00	1.76	150.12	10,952.70	-33.38	-29.30	33.04	0.30	0.27	4.26
11,049.00	1.93	146.08	11,047.65	-35.97	-27.68	35.65	0.23	0.18	-4.25
11,144.00	2.46	152.05	11,142.58	-39.10	-25.84	38.80	0.61	0.56	6.28
11,236.00	2.37	151.17	11,234.50	-42.51	-23.99	42.23	0.11	-0.10	-0.96
11,328.00	2.37	161.02	11,326.42	-45.98	-22.46	45.71	0.44	0.00	10.71
11,420.00	2.55	155.39	11,418.33	-49.64	-20.99	49.39	0.33	0.20	-6.12
11,512.00	2.81	166.29	11,510.23	-53.69	-19.60	53.45	0.62	0.28	11.85
11,604.00	3.25	170.33	11,602.11	-58.45	-18.63	58.23	0.53	0.48	4.39
11,697.00	3.78	174.73	11,694.93	-64.10	-17.90	63.89	0.64	0.57	4.73
11,775.00	3.96	177.72	11,772.75	-69.35	-17.56	69.14	0.35	0.23	3.83
11,851.00	3.96	177.72	11,848.57	-74.60	-17.35	74.39	0.00	0.00	0.00

BHL PH #1H

Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Surface #1H	0.00	0.00	0.00	0.00	0.00	700,220.30	839,718.20	32° 55' 16.092 N	103° 21' 39.421 W
- actual wellpath hits target center									
- Point									
BHL PH #1H	0.00	0.00	11,848.57	-74.60	-17.35	700,145.70	839,700.85	32° 55' 15.356 N	103° 21' 39.632 W
- actual wellpath hits target center									
- Point									

Checked By: _____ Approved By: _____ Date: _____

DGP ENERGY, LLC

**Lea County, NM Nad83
Golden Tyche State 1621
#1H**

Sidetrack

Design: Sidetrack

Standard Survey Report

07 February, 2018

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	COMPASS_GULFCOAST

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	Golden Tyche State 1621		
Site Position:		Northing:	700,220.30 usft
From:	Map	Easting:	839,718.20 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13.20 in
		Latitude:	32° 55' 16.092 N
		Longitude:	103° 21' 39.421 W
		Grid Convergence:	0.53 °

Well	#1H		
Well Position	+N/-S	0.00 usft	Northing: 700,220.30 usft
	+E/-W	0.00 usft	Easting: 839,718.20 usft
Position Uncertainty	0.00 usft	Wellhead Elevation:	usft
		Latitude:	32° 55' 16.092 N
		Longitude:	103° 21' 39.421 W
		Ground Level:	3,910.00 usft

Wellbore	Sidetrack				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/10/18	6.84	60.72	48,310.69757893

Design	Sidetrack				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	4,834.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	277.90	

Survey Program	Date 01/16/18				
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description	
502.00	4,834.00	Survey #1 (Pilot Hole)	MWD+IGRF	OWSG MWD + IGRF or WMM	
4,955.00	11,253.00	Survey #1 (Sidetrack)	MWD+IGRF	OWSG MWD + IGRF or WMM	
11,315.00	11,315.00	Survey #2 (Sidetrack)	BLIND	OWSG BLIND	

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	
Surface #1H										
502.00	0.75	0.00	501.99	3.29	0.00	0.45	0.15	0.15	0.00	
1,022.00	0.00	0.00	1,021.97	6.69	0.00	0.92	0.14	-0.14	0.00	
1,490.00	0.00	0.00	1,489.97	6.69	0.00	0.92	0.00	0.00	0.00	
1,952.00	0.50	0.00	1,951.96	8.70	0.00	1.20	0.11	0.11	0.00	
1,966.00	0.09	270.88	1,965.96	8.77	-0.01	1.22	3.62	-2.93	-636.57	
2,058.00	0.26	236.60	2,057.96	8.65	-0.26	1.44	0.21	0.18	-37.26	
2,151.00	0.18	199.51	2,150.96	8.40	-0.48	1.63	0.17	-0.09	-39.88	

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	COMPASS_GULFCOAST

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)	
2,244.00	0.09	247.85	2,243.96	8.23	-0.60	1.72	0.15	-0.10	51.98	
2,336.00	0.35	226.06	2,335.96	8.01	-0.87	1.96	0.29	0.28	-23.68	
2,429.00	0.53	265.78	2,428.96	7.78	-1.50	2.56	0.37	0.19	42.71	
2,521.00	0.53	281.95	2,520.96	7.84	-2.34	3.40	0.16	0.00	17.58	
2,613.00	0.35	311.66	2,612.95	8.11	-2.97	4.05	0.31	-0.20	32.29	
2,706.00	0.53	332.58	2,705.95	8.68	-3.38	4.54	0.26	0.19	22.49	
2,800.00	0.79	334.51	2,799.94	9.66	-3.86	5.15	0.28	0.28	2.05	
2,892.00	1.06	2.46	2,891.93	11.08	-4.09	5.58	0.56	0.29	30.38	
2,985.00	1.49	14.94	2,984.91	13.11	-3.75	5.51	0.55	0.46	13.42	
3,077.00	1.67	16.35	3,076.87	15.55	-3.06	5.17	0.20	0.20	1.53	
3,169.00	1.85	21.10	3,168.83	18.22	-2.15	4.63	0.25	0.20	5.16	
3,261.00	2.02	25.49	3,260.78	21.07	-0.92	3.80	0.25	0.18	4.77	
3,354.00	1.93	23.91	3,353.72	23.98	0.42	2.87	0.11	-0.10	-1.70	
3,447.00	2.02	24.96	3,446.67	26.90	1.75	1.96	0.10	0.10	1.13	
3,539.00	2.29	26.19	3,538.60	30.02	3.25	0.91	0.30	0.29	1.34	
3,590.00	2.29	23.38	3,589.56	31.87	4.10	0.32	0.22	0.00	-5.51	
3,631.00	2.29	28.65	3,630.53	33.34	4.82	-0.19	0.51	0.00	12.85	
3,723.00	1.32	28.13	3,722.48	35.88	6.20	-1.21	1.05	-1.05	-0.57	
3,816.00	0.35	33.22	3,815.47	37.07	6.86	-1.70	1.05	-1.04	5.47	
3,908.00	0.35	249.08	3,907.47	37.20	6.75	-1.58	0.72	0.00	-156.67	
4,001.00	0.26	9.67	4,000.47	37.31	6.52	-1.33	0.57	-0.10	129.67	
4,093.00	0.09	215.33	4,092.47	37.45	6.51	-1.31	0.37	-0.18	-167.76	
4,185.00	0.18	41.13	4,184.47	37.50	6.57	-1.35	0.29	0.10	-189.35	
4,278.00	0.26	17.58	4,277.47	37.82	6.73	-1.47	0.13	0.09	-25.32	
4,370.00	0.09	23.03	4,369.47	38.08	6.82	-1.52	0.19	-0.18	5.92	
4,463.00	0.44	329.59	4,462.47	38.46	6.67	-1.32	0.42	0.38	-57.46	
4,556.00	0.09	280.72	4,555.47	38.78	6.41	-1.03	0.42	-0.38	-52.55	
4,648.00	0.18	0.53	4,647.47	38.94	6.34	-0.94	0.20	0.10	86.75	
4,741.00	0.35	306.56	4,740.47	39.25	6.12	-0.67	0.31	0.18	-58.03	
4,834.00	0.18	271.94	4,833.47	39.43	5.74	-0.27	0.24	-0.18	-37.23	
4,955.00	0.97	252.42	4,954.46	39.12	4.58	0.84	0.66	0.65	-16.13	
4,996.00	2.81	268.60	4,995.43	38.99	3.24	2.15	4.63	4.49	39.46	
5,017.00	4.31	274.92	5,016.39	39.05	1.94	3.44	7.37	7.14	30.10	
5,047.00	5.36	279.67	5,046.29	39.38	-0.56	5.97	3.74	3.50	15.83	
5,141.00	4.84	281.43	5,139.91	40.90	-8.78	14.31	0.58	-0.55	1.87	
5,233.00	6.33	292.50	5,231.48	43.61	-17.27	23.10	1.99	1.62	12.03	
5,325.00	9.41	301.82	5,322.60	49.52	-28.35	34.88	3.61	3.35	10.13	
5,418.00	11.17	296.89	5,414.11	57.61	-42.84	50.35	2.11	1.89	-5.30	
5,511.00	11.96	292.84	5,505.22	65.42	-59.76	68.18	1.22	0.85	-4.35	
5,604.00	12.31	291.44	5,596.14	72.78	-77.87	87.13	0.49	0.38	-1.51	
5,697.00	11.78	291.44	5,687.09	79.88	-95.93	106.00	0.57	-0.57	0.00	
5,789.00	11.70	291.79	5,777.17	86.77	-113.33	124.18	0.12	-0.09	0.38	
5,882.00	11.70	293.37	5,868.24	94.01	-130.75	142.42	0.34	0.00	1.70	

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	COMPASS_GULFCOAST

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)
5,976.00	12.05	295.48	5,960.22	102.02	-148.35	160.96	0.59	0.37	2.24
6,069.00	12.75	295.30	6,051.05	110.58	-166.40	180.01	0.75	0.75	-0.19
6,161.00	12.93	294.25	6,140.75	119.14	-184.96	199.57	0.32	0.20	-1.14
6,255.00	12.31	294.78	6,232.48	127.66	-203.65	219.25	0.67	-0.66	0.56
6,347.00	12.13	294.78	6,322.40	135.83	-221.33	237.89	0.20	-0.20	0.00
6,439.00	12.31	294.60	6,412.31	143.96	-239.02	256.53	0.20	0.20	-0.20
6,532.00	12.66	290.56	6,503.12	151.67	-257.58	275.97	1.01	0.38	-4.34
6,626.00	13.63	286.16	6,594.65	158.37	-277.86	296.98	1.48	1.03	-4.68
6,719.00	13.63	286.69	6,685.04	164.56	-298.88	318.65	0.13	0.00	0.57
6,811.00	12.84	288.10	6,774.59	170.85	-318.98	339.43	0.93	-0.86	1.53
6,904.00	12.75	285.81	6,865.28	176.86	-338.68	359.76	0.55	-0.10	-2.46
6,996.00	12.66	285.64	6,955.03	182.34	-358.15	379.81	0.11	-0.10	-0.18
7,089.00	12.13	285.81	7,045.86	187.75	-377.37	399.58	0.57	-0.57	0.18
7,181.00	11.70	286.16	7,135.88	192.98	-395.63	418.39	0.47	-0.47	0.38
7,273.00	11.78	290.38	7,225.96	198.85	-413.39	436.79	0.94	0.09	4.59
7,366.00	12.40	291.09	7,316.89	205.75	-431.61	455.78	0.69	0.67	0.76
7,458.00	13.01	290.73	7,406.64	212.97	-450.51	475.49	0.67	0.66	-0.39
7,551.00	13.37	288.10	7,497.19	220.01	-470.52	496.28	0.75	0.39	-2.83
7,644.00	13.28	288.27	7,587.68	226.70	-490.88	517.37	0.11	-0.10	0.18
7,737.00	12.40	288.45	7,678.36	233.21	-510.50	537.69	0.95	-0.95	0.19
7,830.00	12.31	289.50	7,769.20	239.68	-529.32	557.22	0.26	-0.10	1.13
7,922.00	12.49	287.75	7,859.06	245.99	-548.04	576.63	0.45	0.20	-1.90
8,014.00	12.13	287.22	7,948.94	251.88	-566.74	595.97	0.41	-0.39	-0.58
8,107.00	11.34	287.92	8,040.00	257.59	-584.78	614.62	0.86	-0.85	0.75
8,199.00	12.49	285.28	8,130.02	262.99	-602.98	633.39	1.38	1.25	-2.87
8,291.00	13.81	283.35	8,219.60	268.15	-623.26	654.19	1.51	1.43	-2.10
8,384.00	13.19	284.23	8,310.03	273.32	-644.35	675.78	0.70	-0.67	0.95
8,477.00	12.31	282.30	8,400.74	278.04	-664.32	696.21	1.05	-0.95	-2.08
8,569.00	12.49	283.00	8,490.59	282.37	-683.59	715.90	0.25	0.20	0.76
8,662.00	12.22	284.76	8,581.44	287.14	-702.91	735.69	0.50	-0.29	1.89
8,754.00	10.99	281.95	8,671.56	291.44	-720.91	754.10	1.47	-1.34	-3.05
8,847.00	9.94	283.88	8,763.01	295.20	-737.37	770.93	1.19	-1.13	2.08
8,940.00	13.10	291.61	8,854.13	301.01	-754.97	789.16	3.77	3.40	8.31
9,032.00	14.33	293.55	8,943.50	309.39	-775.10	810.25	1.43	1.34	2.11
9,125.00	13.81	293.72	9,033.71	318.46	-795.81	832.01	0.56	-0.56	0.18
9,217.00	13.01	293.55	9,123.20	327.01	-815.36	852.55	0.87	-0.87	-0.18
9,310.00	13.28	291.26	9,213.77	335.07	-834.91	873.02	0.63	0.29	-2.46
9,403.00	13.72	290.03	9,304.20	342.72	-855.22	894.20	0.56	0.47	-1.32
9,495.00	13.19	290.03	9,393.67	350.05	-875.34	915.12	0.58	-0.58	0.00
9,588.00	12.49	290.73	9,484.35	357.25	-894.71	935.30	0.77	-0.75	0.75
9,680.00	13.37	290.91	9,574.01	364.56	-913.95	955.37	0.96	0.96	0.20
9,772.00	14.25	292.49	9,663.35	372.69	-934.35	976.69	1.04	0.96	1.72
9,865.00	13.63	292.84	9,753.61	381.32	-955.02	998.35	0.67	-0.67	0.38
9,958.00	13.10	293.37	9,844.10	389.76	-974.80	1,019.10	0.58	-0.57	0.57

Precision Drilling Corporation

Survey Report

Company:	DGP ENERGY, LLC	Local Co-ordinate Reference:	Well #1H
Project:	Lea County, NM Nad83	TVD Reference:	3910'GL+25'KB @ 3935.00usft
Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack	Database:	COMPASS_GULFCOAST

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)
10,050.00	12.57	293.37	9,933.80	397.86	-993.56	1,038.79	0.58	-0.58	0.00
10,143.00	12.31	293.72	10,024.61	405.87	-1,011.92	1,058.08	0.29	-0.28	0.38
10,235.00	12.13	293.72	10,114.53	413.70	-1,029.75	1,076.82	0.20	-0.20	0.00
10,298.00	11.87	295.13	10,176.15	419.11	-1,041.68	1,089.38	0.62	-0.41	2.24
10,329.00	11.38	291.00	10,206.52	421.56	-1,047.42	1,095.40	3.11	-1.58	-13.32
10,361.00	11.12	280.63	10,237.90	423.26	-1,053.40	1,101.56	6.37	-0.81	-32.41
10,391.00	11.82	269.38	10,267.31	423.76	-1,059.32	1,107.49	7.80	2.33	-37.50
10,422.00	13.23	261.03	10,297.57	423.18	-1,066.00	1,114.02	7.39	4.55	-26.94
10,454.00	14.11	256.63	10,328.67	421.70	-1,073.41	1,121.16	4.26	2.75	-13.75
10,485.00	14.11	254.44	10,358.73	419.82	-1,080.73	1,128.15	1.72	0.00	-7.06
10,516.00	14.20	252.68	10,388.79	417.67	-1,088.00	1,135.06	1.42	0.29	-5.68
10,547.00	13.98	251.10	10,418.86	415.33	-1,095.17	1,141.84	1.43	-0.71	-5.10
10,578.00	14.02	248.37	10,448.94	412.73	-1,102.20	1,148.45	2.13	0.13	-8.81
10,608.00	14.37	245.47	10,478.02	409.84	-1,108.97	1,154.75	2.64	1.17	-9.67
10,639.00	14.64	242.13	10,508.03	406.42	-1,115.93	1,161.18	2.84	0.87	-10.77
10,670.00	15.43	239.23	10,537.97	402.47	-1,122.94	1,167.58	3.52	2.55	-9.35
10,701.00	16.92	236.59	10,567.75	397.88	-1,130.25	1,174.19	5.36	4.81	-8.52
10,732.00	18.59	234.48	10,597.27	392.53	-1,138.03	1,181.17	5.77	5.39	-6.81
10,764.00	19.87	233.42	10,627.48	386.32	-1,146.55	1,188.75	4.15	4.00	-3.31
10,796.00	19.74	232.11	10,657.59	379.76	-1,155.19	1,196.40	1.45	-0.41	-4.09
10,827.00	19.03	232.11	10,686.83	373.44	-1,163.31	1,203.58	2.29	-2.29	0.00
10,859.00	17.98	232.99	10,717.18	367.26	-1,171.37	1,210.71	3.40	-3.28	2.75
10,890.00	17.41	232.11	10,746.71	361.54	-1,178.85	1,217.34	2.03	-1.84	-2.84
10,920.00	17.32	231.94	10,775.34	356.03	-1,185.91	1,223.57	0.34	-0.30	-0.57
10,952.00	18.15	229.83	10,805.82	349.87	-1,193.47	1,230.21	3.28	2.59	-6.59
10,984.00	19.43	225.43	10,836.12	342.92	-1,201.07	1,236.79	5.97	4.00	-13.75
11,015.00	20.88	221.73	10,865.22	335.18	-1,208.42	1,243.00	6.23	4.68	-11.94
11,046.00	23.08	218.13	10,893.97	326.28	-1,215.85	1,249.14	8.32	7.10	-11.61
11,077.00	26.55	215.75	10,922.10	315.87	-1,223.65	1,255.44	11.65	11.19	-7.68
11,109.00	31.87	212.50	10,950.02	302.93	-1,232.37	1,262.30	17.34	16.63	-10.16
11,141.00	36.70	210.39	10,976.46	287.55	-1,241.76	1,269.48	15.54	15.09	-6.59
11,172.00	40.31	208.46	11,000.71	270.74	-1,251.22	1,276.55	12.27	11.65	-6.23
11,203.00	43.43	207.05	11,023.79	252.43	-1,260.85	1,283.57	10.51	10.06	-4.55
11,234.00	45.67	205.38	11,045.89	232.92	-1,270.45	1,290.40	8.15	7.23	-5.39
11,253.00	46.51	204.50	11,059.06	220.51	-1,276.22	1,294.41	5.54	4.42	-4.63
11,315.00	46.51	204.50	11,101.73	179.57	-1,294.87	1,307.27	0.00	0.00	0.00
BHL ST #1H									

Precision Drilling Corporation

Survey Report

Company: DGP ENERGY, LLC Project: Lea County, NM Nad83 Site: Golden Tyche State 1621 Well: #1H Wellbore: Sidetrack Design: Sidetrack	Local Co-ordinate Reference: Well #1H TVD Reference: 3910'GL+25'KB @ 3935.00usft MD Reference: 3910'GL+25'KB @ 3935.00usft North Reference: Grid Survey Calculation Method: Minimum Curvature Database: COMPASS_GULFCOAST
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Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
Surface #1H	0.00	0.00	0.00	0.00	0.00	700,220.30	839,718.20	32° 55' 16.092 N	103° 21' 39.421 W
- hit/miss target									
- Shape									
- actual wellpath hits target center									
- Point									
BHL ST #1H	0.00	0.00	11,101.73	179.57	-1,294.87	700,399.87	838,423.32	32° 55' 17.987 N	103° 21' 54.591 W
- actual wellpath hits target center									
- Point									

Checked By: _____	Approved By: _____	Date: _____
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