

30-025-44198

DGP ENERGY, LLC

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

Sidetrack #2

Design: Sidetrack #2

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 #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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 #2				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2015	01/19/18	6.84	60.72	48,308.12600974

Design	Sidetrack #2				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10,920.00
Vertical Section:	Depth From (TVD) (usft)	+N/-S (usft)	+E/-W (usft)	Direction (°)	
	0.00	0.00	0.00	189.26	

Survey Program	Date 02/07/18				
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	10,920.00	Survey #1 (Sidetrack)	MWD+IGRF	OWSG MWD + IGRF or WMM	
10,948.00	18,864.00	Survey #1 (Sidetrack #2)	MWD+IGRF	OWSG MWD + IGRF or WMM	
18,925.00	18,925.00	Survey #2 (Sidetrack #2)	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	-3.24	0.15	0.15	0.00	
1,022.00	0.00	0.00	1,021.97	6.69	0.00	-6.60	0.14	-0.14	0.00	
1,490.00	0.00	0.00	1,489.97	6.69	0.00	-6.60	0.00	0.00	0.00	
1,952.00	0.50	0.00	1,951.96	8.70	0.00	-8.59	0.11	0.11	0.00	
1,966.00	0.09	270.88	1,965.96	8.77	-0.01	-8.65	3.62	-2.93	-636.57	
2,058.00	0.26	236.60	2,057.96	8.65	-0.26	-8.50	0.21	0.18	-37.26	

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Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)	
2,151.00	0.18	199.51	2,150.96	8.40	-0.48	-8.21	0.17	-0.09	-39.88	
2,244.00	0.09	247.85	2,243.96	8.23	-0.60	-8.03	0.15	-0.10	51.98	
2,336.00	0.35	226.06	2,335.96	8.01	-0.87	-7.77	0.29	0.28	-23.68	
2,429.00	0.53	265.78	2,428.96	7.78	-1.50	-7.44	0.37	0.19	42.71	
2,521.00	0.53	281.95	2,520.96	7.84	-2.34	-7.36	0.16	0.00	17.58	
2,613.00	0.35	311.66	2,612.95	8.11	-2.97	-7.53	0.31	-0.20	32.29	
2,706.00	0.53	332.58	2,705.95	8.68	-3.38	-8.03	0.26	0.19	22.49	
2,800.00	0.79	334.51	2,799.94	9.66	-3.86	-8.91	0.28	0.28	2.05	
2,892.00	1.06	2.46	2,891.93	11.08	-4.09	-10.27	0.56	0.29	30.38	
2,985.00	1.49	14.94	2,984.91	13.11	-3.75	-12.33	0.55	0.46	13.42	
3,077.00	1.67	16.35	3,076.87	15.55	-3.06	-14.85	0.20	0.20	1.53	
3,169.00	1.85	21.10	3,168.83	18.22	-2.15	-17.64	0.25	0.20	5.16	
3,261.00	2.02	25.49	3,260.78	21.07	-0.92	-20.65	0.25	0.18	4.77	
3,354.00	1.93	23.91	3,353.72	23.98	0.42	-23.74	0.11	-0.10	-1.70	
3,447.00	2.02	24.96	3,446.67	26.90	1.75	-26.83	0.10	0.10	1.13	
3,539.00	2.29	26.19	3,538.60	30.02	3.25	-30.15	0.30	0.29	1.34	
3,590.00	2.29	23.38	3,589.56	31.87	4.10	-32.11	0.22	0.00	-5.51	
3,631.00	2.29	28.65	3,630.53	33.34	4.82	-33.68	0.51	0.00	12.85	
3,723.00	1.32	28.13	3,722.48	35.88	6.20	-36.41	1.05	-1.05	-0.57	
3,816.00	0.35	33.22	3,815.47	37.07	6.86	-37.69	1.05	-1.04	5.47	
3,908.00	0.35	249.08	3,907.47	37.20	6.75	-37.80	0.72	0.00	-156.67	
4,001.00	0.26	9.67	4,000.47	37.31	6.52	-37.87	0.57	-0.10	129.67	
4,093.00	0.09	215.33	4,092.47	37.45	6.51	-38.02	0.37	-0.18	-167.76	
4,185.00	0.18	41.13	4,184.47	37.50	6.57	-38.07	0.29	0.10	-189.35	
4,278.00	0.26	17.58	4,277.47	37.82	6.73	-38.41	0.13	0.09	-25.32	
4,370.00	0.09	23.03	4,369.47	38.08	6.82	-38.68	0.19	-0.18	5.92	
4,463.00	0.44	329.59	4,462.47	38.46	6.67	-39.03	0.42	0.38	-57.46	
4,556.00	0.09	280.72	4,555.47	38.78	6.41	-39.31	0.42	-0.38	-52.55	
4,648.00	0.18	0.53	4,647.47	38.94	6.34	-39.45	0.20	0.10	86.75	
4,741.00	0.35	306.56	4,740.47	39.25	6.12	-39.72	0.31	0.18	-58.03	
4,834.00	0.18	271.94	4,833.47	39.43	5.74	-39.84	0.24	-0.18	-37.23	
4,955.00	0.97	252.42	4,954.46	39.12	4.58	-39.35	0.66	0.65	-16.13	
4,996.00	2.81	268.60	4,995.43	38.99	3.24	-39.01	4.63	4.49	39.46	
5,017.00	4.31	274.92	5,016.39	39.05	1.94	-38.85	7.37	7.14	30.10	
5,047.00	5.36	279.67	5,046.29	39.38	-0.56	-38.78	3.74	3.50	15.83	
5,141.00	4.84	281.43	5,139.91	40.90	-8.78	-38.96	0.58	-0.55	1.87	
5,233.00	6.33	292.50	5,231.48	43.61	-17.27	-40.27	1.99	1.62	12.03	
5,325.00	9.41	301.82	5,322.60	49.52	-28.35	-44.31	3.61	3.35	10.13	
5,418.00	11.17	296.89	5,414.11	57.61	-42.84	-49.96	2.11	1.89	-5.30	
5,511.00	11.96	292.84	5,505.22	65.42	-59.76	-54.95	1.22	0.85	-4.35	
5,604.00	12.31	291.44	5,596.14	72.78	-77.87	-59.30	0.49	0.38	-1.51	
5,697.00	11.78	291.44	5,687.09	79.88	-95.93	-63.40	0.57	-0.57	0.00	
5,789.00	11.70	291.79	5,777.17	86.77	-113.33	-67.40	0.12	-0.09	0.38	

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Wellbore:	Sidetrack #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
5,882.00	11.70	293.37	5,868.24	94.01	-130.75	-71.74	0.34	0.00	1.70
5,976.00	12.05	295.48	5,960.22	102.02	-148.35	-76.81	0.59	0.37	2.24
6,069.00	12.75	295.30	6,051.05	110.58	-166.40	-82.35	0.75	0.75	-0.19
6,161.00	12.93	294.25	6,140.75	119.14	-184.96	-87.82	0.32	0.20	-1.14
6,255.00	12.31	294.78	6,232.48	127.66	-203.65	-93.22	0.67	-0.66	0.56
6,347.00	12.13	294.78	6,322.40	135.83	-221.33	-98.43	0.20	-0.20	0.00
6,439.00	12.31	294.60	6,412.31	143.96	-239.02	-103.61	0.20	0.20	-0.20
6,532.00	12.66	290.56	6,503.12	151.67	-257.58	-108.23	1.01	0.38	-4.34
6,626.00	13.63	286.16	6,594.65	158.37	-277.86	-111.58	1.48	1.03	-4.68
6,719.00	13.63	286.69	6,685.04	164.56	-298.88	-114.31	0.13	0.00	0.57
6,811.00	12.84	288.10	6,774.59	170.85	-318.98	-117.28	0.93	-0.86	1.53
6,904.00	12.75	285.81	6,865.28	176.86	-338.68	-120.04	0.55	-0.10	-2.46
6,996.00	12.66	285.64	6,955.03	182.34	-358.15	-122.32	0.11	-0.10	-0.18
7,089.00	12.13	285.81	7,045.86	187.75	-377.37	-124.57	0.57	-0.57	0.18
7,181.00	11.70	286.16	7,135.88	192.98	-395.63	-126.79	0.47	-0.47	0.38
7,273.00	11.78	290.38	7,225.96	198.85	-413.39	-129.72	0.94	0.09	4.59
7,366.00	12.40	291.09	7,316.89	205.75	-431.61	-133.60	0.69	0.67	0.76
7,458.00	13.01	290.73	7,406.64	212.97	-450.51	-137.68	0.67	0.66	-0.39
7,551.00	13.37	288.10	7,497.19	220.01	-470.52	-141.41	0.75	0.39	-2.83
7,644.00	13.28	288.27	7,587.68	226.70	-490.88	-144.74	0.11	-0.10	0.18
7,737.00	12.40	288.45	7,678.36	233.21	-510.50	-148.00	0.95	-0.95	0.19
7,830.00	12.31	289.50	7,769.20	239.68	-529.32	-151.36	0.26	-0.10	1.13
7,922.00	12.49	287.75	7,859.06	245.99	-548.04	-154.57	0.45	0.20	-1.90
8,014.00	12.13	287.22	7,948.94	251.88	-566.74	-157.38	0.41	-0.39	-0.58
8,107.00	11.34	287.92	8,040.00	257.59	-584.78	-160.11	0.86	-0.85	0.75
8,199.00	12.49	285.28	8,130.02	262.99	-602.98	-162.51	1.38	1.25	-2.87
8,291.00	13.81	283.35	8,219.60	268.15	-623.26	-164.34	1.51	1.43	-2.10
8,384.00	13.19	284.23	8,310.03	273.32	-644.35	-166.05	0.70	-0.67	0.95
8,477.00	12.31	282.30	8,400.74	278.04	-664.32	-167.49	1.05	-0.95	-2.08
8,569.00	12.49	283.00	8,490.59	282.37	-683.59	-168.66	0.25	0.20	0.76
8,662.00	12.22	284.76	8,581.44	287.14	-702.91	-170.26	0.50	-0.29	1.89
8,754.00	10.99	281.95	8,671.56	291.44	-720.91	-171.60	1.47	-1.34	-3.05
8,847.00	9.94	283.88	8,763.01	295.20	-737.37	-172.67	1.19	-1.13	2.08
8,940.00	13.10	291.61	8,854.13	301.01	-754.97	-175.57	3.77	3.40	8.31
9,032.00	14.33	293.55	8,943.50	309.39	-775.10	-180.61	1.43	1.34	2.11
9,125.00	13.81	293.72	9,033.71	318.46	-795.81	-186.22	0.56	-0.56	0.18
9,217.00	13.01	293.55	9,123.20	327.01	-815.36	-191.52	0.87	-0.87	-0.18
9,310.00	13.28	291.26	9,213.77	335.07	-834.91	-196.32	0.63	0.29	-2.46
9,403.00	13.72	290.03	9,304.20	342.72	-855.22	-200.60	0.56	0.47	-1.32
9,495.00	13.19	290.03	9,393.67	350.05	-875.34	-204.60	0.58	-0.58	0.00
9,588.00	12.49	290.73	9,484.35	357.25	-894.71	-208.58	0.77	-0.75	0.75
9,680.00	13.37	290.91	9,574.01	364.56	-913.95	-212.71	0.96	0.96	0.20
9,772.00	14.25	292.49	9,663.35	372.69	-934.35	-217.45	1.04	0.96	1.72
9,865.00	13.63	292.84	9,753.61	381.32	-955.02	-222.64	0.67	-0.67	0.38

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Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
9,958.00	13.10	293.37	9,844.10	389.76	-974.80	-227.78	0.58	-0.57	0.57
10,050.00	12.57	293.37	9,933.80	397.86	-993.56	-232.76	0.58	-0.58	0.00
10,143.00	12.31	293.72	10,024.61	405.87	-1,011.92	-237.70	0.29	-0.28	0.38
10,235.00	12.13	293.72	10,114.53	413.70	-1,029.75	-242.56	0.20	-0.20	0.00
10,298.00	11.87	295.13	10,176.15	419.11	-1,041.68	-245.99	0.62	-0.41	2.24
10,329.00	11.38	291.00	10,206.52	421.56	-1,047.42	-247.48	3.11	-1.58	-13.32
10,361.00	11.12	280.63	10,237.90	423.26	-1,053.40	-248.20	6.37	-0.81	-32.41
10,391.00	11.82	269.38	10,267.31	423.76	-1,059.32	-247.74	7.80	2.33	-37.50
10,422.00	13.23	261.03	10,297.57	423.18	-1,066.00	-246.08	7.39	4.55	-26.94
10,454.00	14.11	256.63	10,328.67	421.70	-1,073.41	-243.44	4.26	2.75	-13.75
10,485.00	14.11	254.44	10,358.73	419.82	-1,080.73	-240.40	1.72	0.00	-7.06
10,516.00	14.20	252.68	10,388.79	417.67	-1,088.00	-237.11	1.42	0.29	-5.68
10,547.00	13.98	251.10	10,418.86	415.33	-1,095.17	-233.64	1.43	-0.71	-5.10
10,578.00	14.02	248.37	10,448.94	412.73	-1,102.20	-229.95	2.13	0.13	-8.81
10,608.00	14.37	245.47	10,478.02	409.84	-1,108.97	-226.01	2.64	1.17	-9.67
10,639.00	14.64	242.13	10,508.03	406.42	-1,115.93	-221.50	2.84	0.87	-10.77
10,670.00	15.43	239.23	10,537.97	402.47	-1,122.94	-216.49	3.52	2.55	-9.35
10,701.00	16.92	236.59	10,567.75	397.88	-1,130.25	-210.78	5.36	4.81	-8.52
10,732.00	18.59	234.48	10,597.27	392.53	-1,138.03	-204.24	5.77	5.39	-6.81
10,764.00	19.87	233.42	10,627.48	386.32	-1,146.55	-196.74	4.15	4.00	-3.31
10,796.00	19.74	232.11	10,657.59	379.76	-1,155.19	-188.88	1.45	-0.41	-4.09
10,827.00	19.03	232.11	10,686.83	373.44	-1,163.31	-181.34	2.29	-2.29	0.00
10,859.00	17.98	232.99	10,717.18	367.26	-1,171.37	-173.94	3.40	-3.28	2.75
10,890.00	17.41	232.11	10,746.71	361.54	-1,178.85	-167.08	2.03	-1.84	-2.84
10,920.00	17.32	231.94	10,775.34	356.03	-1,185.91	-160.51	0.34	-0.30	-0.57
10,948.00	16.70	228.85	10,802.12	350.81	-1,192.22	-154.35	3.91	-2.21	-11.04
10,980.00	17.05	222.08	10,832.74	344.30	-1,198.82	-146.86	6.23	1.09	-21.16
11,012.00	17.98	213.56	10,863.27	336.70	-1,204.70	-138.41	8.51	2.91	-26.63
11,043.00	19.96	207.23	10,892.58	328.01	-1,209.77	-129.02	9.20	6.39	-20.42
11,074.00	22.33	203.01	10,921.50	317.88	-1,214.49	-118.26	9.08	7.65	-13.61
11,106.00	25.41	200.20	10,950.76	305.84	-1,219.24	-105.61	10.26	9.63	-8.78
11,138.00	28.26	198.09	10,979.31	292.19	-1,223.96	-91.38	9.39	8.91	-6.59
11,169.00	30.81	196.33	11,006.28	277.59	-1,228.47	-76.25	8.69	8.23	-5.68
11,200.00	33.45	194.66	11,032.53	261.71	-1,232.87	-59.86	8.98	8.52	-5.39
11,231.00	36.57	193.52	11,057.92	244.46	-1,237.19	-42.14	10.28	10.06	-3.68
11,246.00	38.11	193.34	11,069.84	235.61	-1,239.30	-33.07	10.29	10.27	-1.20
11,323.00	44.57	191.67	11,127.62	185.98	-1,250.26	17.68	8.51	8.39	-2.17
11,354.00	47.16	189.47	11,149.21	164.11	-1,254.34	39.92	9.78	8.35	-7.10
11,385.00	49.89	186.57	11,169.74	141.11	-1,257.56	63.14	11.25	8.81	-9.35
11,416.00	53.41	184.11	11,188.98	116.91	-1,259.81	87.38	12.95	11.35	-7.94
11,446.00	57.27	182.62	11,206.03	92.28	-1,261.25	111.92	13.50	12.87	-4.97
11,478.00	60.44	181.65	11,222.58	64.92	-1,262.27	139.09	10.24	9.91	-3.03
11,508.00	62.33	181.56	11,236.95	38.60	-1,263.01	165.19	6.31	6.30	-0.30

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 #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
11,539.00	64.75	181.83	11,250.76	10.86	-1,263.83	192.70	7.85	7.81	0.87
11,570.00	68.35	181.92	11,263.10	-17.56	-1,264.76	220.90	11.62	11.61	0.29
11,600.00	72.40	182.35	11,273.17	-45.79	-1,265.81	248.93	13.57	13.50	1.43
11,631.00	75.78	181.92	11,281.67	-75.58	-1,266.92	278.51	10.98	10.90	-1.39
11,662.00	78.20	180.77	11,288.64	-105.78	-1,267.63	308.42	8.60	7.81	-3.71
11,692.00	80.35	180.25	11,294.23	-135.25	-1,267.89	337.56	7.37	7.17	-1.73
11,723.00	82.86	180.25	11,298.75	-165.91	-1,268.02	367.84	8.10	8.10	0.00
FTP #1H									
11,755.00	85.01	180.07	11,302.13	-197.73	-1,268.11	399.26	6.74	6.72	-0.56
11,818.00	89.41	180.60	11,305.20	-260.64	-1,268.48	461.41	7.03	6.98	0.84
11,850.00	89.85	180.07	11,305.41	-292.64	-1,268.67	493.02	2.15	1.38	-1.66
11,880.00	90.42	180.25	11,305.34	-322.64	-1,268.75	522.64	1.99	1.90	0.60
11,911.00	90.59	179.81	11,305.06	-353.64	-1,268.77	553.24	1.52	0.55	-1.42
12,003.00	94.15	179.37	11,301.26	-445.54	-1,268.11	643.84	3.90	3.87	-0.48
12,094.00	91.60	179.37	11,296.69	-536.41	-1,267.11	733.37	2.80	-2.80	0.00
12,186.00	90.64	179.37	11,294.90	-628.39	-1,266.10	823.98	1.04	-1.04	0.00
12,278.00	89.89	179.89	11,294.47	-720.39	-1,265.51	914.68	0.99	-0.82	0.57
12,370.00	90.64	178.58	11,294.05	-812.37	-1,264.28	1,005.27	1.64	0.82	-1.42
12,462.00	90.55	179.89	11,293.09	-904.36	-1,263.05	1,095.86	1.43	-0.10	1.42
12,554.00	90.68	177.87	11,292.10	-996.33	-1,261.25	1,186.34	2.20	0.14	-2.20
12,646.00	92.09	180.68	11,289.88	-1,088.29	-1,260.09	1,276.91	3.42	1.53	3.05
12,739.00	90.42	180.33	11,287.84	-1,181.26	-1,260.91	1,368.80	1.83	-1.80	-0.38
12,831.00	90.81	179.02	11,286.85	-1,273.25	-1,260.39	1,459.51	1.49	0.42	-1.42
12,923.00	90.20	180.16	11,286.04	-1,365.24	-1,259.73	1,550.20	1.41	-0.66	1.24
13,015.00	90.68	180.77	11,285.34	-1,457.23	-1,260.47	1,641.11	0.84	0.52	0.66
13,107.00	91.25	181.74	11,283.79	-1,549.20	-1,262.49	1,732.20	1.22	0.62	1.05
13,199.00	88.35	182.62	11,284.11	-1,641.12	-1,265.99	1,823.49	3.29	-3.15	0.96
13,291.00	88.13	182.18	11,286.93	-1,732.99	-1,269.84	1,914.78	0.53	-0.24	-0.48
13,384.00	89.19	182.27	11,289.11	-1,825.90	-1,273.45	2,007.06	1.14	1.14	0.10
13,476.00	90.51	179.98	11,289.35	-1,917.87	-1,275.25	2,098.12	2.87	1.43	-2.49
13,569.00	92.13	179.63	11,287.21	-2,010.84	-1,274.94	2,189.83	1.78	1.74	-0.38
13,661.00	90.15	178.75	11,285.38	-2,102.81	-1,273.64	2,280.39	2.36	-2.15	-0.96
13,753.00	88.70	178.66	11,286.30	-2,194.78	-1,271.56	2,370.82	1.58	-1.58	-0.10
13,845.00	90.68	179.37	11,286.80	-2,286.76	-1,269.98	2,461.35	2.29	2.15	0.77
13,936.00	91.74	178.75	11,284.88	-2,377.72	-1,268.48	2,550.89	1.35	1.16	-0.68
14,028.00	93.01	178.14	11,281.06	-2,469.61	-1,265.99	2,641.18	1.53	1.38	-0.66
14,120.00	92.53	176.47	11,276.62	-2,561.40	-1,261.67	2,731.07	1.89	-0.52	-1.82
14,212.00	91.56	177.26	11,273.33	-2,653.20	-1,256.64	2,820.87	1.36	-1.05	0.86
14,303.00	90.59	178.05	11,271.63	-2,744.10	-1,252.92	2,909.99	1.37	-1.07	0.87
14,395.00	90.73	180.42	11,270.57	-2,836.08	-1,251.69	3,000.57	2.58	0.15	2.58
14,426.00	91.16	181.04	11,270.06	-2,867.08	-1,252.09	3,031.22	2.43	1.39	2.00
14,456.00	91.82	181.39	11,269.28	-2,897.06	-1,252.72	3,060.92	2.49	2.20	1.17
14,487.00	90.95	181.56	11,268.53	-2,928.04	-1,253.52	3,091.62	2.86	-2.81	0.55
14,517.00	90.99	182.09	11,268.02	-2,958.02	-1,254.48	3,121.37	1.77	0.13	1.77

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 #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
14,548.00	90.64	182.09	11,267.58	-2,989.00	-1,255.61	3,152.12	1.13	-1.13	0.00
14,578.00	89.05	181.74	11,267.66	-3,018.98	-1,256.61	3,181.87	5.43	-5.30	-1.17
14,609.00	89.05	181.74	11,268.17	-3,049.96	-1,257.55	3,212.60	0.00	0.00	0.00
14,640.00	89.19	181.12	11,268.65	-3,080.95	-1,258.32	3,243.31	2.05	0.45	-2.00
14,670.00	89.58	181.30	11,268.97	-3,110.94	-1,258.96	3,273.01	1.43	1.30	0.60
14,702.00	89.93	180.95	11,269.11	-3,142.93	-1,259.58	3,304.69	1.55	1.09	-1.09
14,734.00	89.98	179.98	11,269.13	-3,174.93	-1,259.84	3,336.31	3.04	0.16	-3.03
14,765.00	89.58	179.28	11,269.25	-3,205.93	-1,259.64	3,366.87	2.60	-1.29	-2.26
14,797.00	89.89	179.72	11,269.40	-3,237.93	-1,259.36	3,398.41	1.68	0.97	1.38
14,829.00	90.11	180.16	11,269.40	-3,269.93	-1,259.33	3,429.99	1.54	0.69	1.38
14,861.00	89.45	179.89	11,269.52	-3,301.93	-1,259.35	3,461.57	2.23	-2.06	-0.84
14,893.00	89.32	180.33	11,269.87	-3,333.93	-1,259.41	3,493.16	1.43	-0.41	1.38
14,924.00	89.27	180.25	11,270.25	-3,364.92	-1,259.56	3,523.78	0.30	-0.16	-0.26
14,954.00	89.63	180.07	11,270.54	-3,394.92	-1,259.65	3,553.40	1.34	1.20	-0.60
14,986.00	89.85	179.98	11,270.68	-3,426.92	-1,259.66	3,584.99	0.74	0.69	-0.28
15,018.00	90.99	179.54	11,270.45	-3,458.92	-1,259.53	3,616.55	3.82	3.56	-1.38
15,050.00	91.91	179.63	11,269.64	-3,490.91	-1,259.30	3,648.08	2.89	2.88	0.28
15,081.00	92.57	179.81	11,268.43	-3,521.88	-1,259.14	3,678.63	2.21	2.13	0.58
15,113.00	92.48	179.98	11,267.02	-3,553.85	-1,259.09	3,710.17	0.60	-0.28	0.53
15,145.00	92.00	179.89	11,265.76	-3,585.83	-1,259.05	3,741.72	1.53	-1.50	-0.28
15,175.00	93.10	179.72	11,264.43	-3,615.80	-1,258.95	3,771.29	3.71	3.67	-0.57
15,206.00	92.57	179.89	11,262.90	-3,646.76	-1,258.84	3,801.83	1.80	-1.71	0.55
15,237.00	90.68	180.07	11,262.02	-3,677.74	-1,258.83	3,832.41	6.12	-6.10	0.58
15,267.00	89.89	180.07	11,261.87	-3,707.74	-1,258.87	3,862.02	2.63	-2.63	0.00
15,298.00	89.63	179.63	11,262.00	-3,738.74	-1,258.79	3,892.60	1.65	-0.84	-1.42
15,328.00	90.11	179.81	11,262.07	-3,768.74	-1,258.64	3,922.19	1.71	1.60	0.60
15,359.00	90.59	180.07	11,261.88	-3,799.74	-1,258.61	3,952.78	1.76	1.55	0.84
15,390.00	91.21	180.25	11,261.39	-3,830.74	-1,258.69	3,983.38	2.08	2.00	0.58
15,420.00	91.69	179.72	11,260.63	-3,860.73	-1,258.69	4,012.98	2.38	1.60	-1.77
15,451.00	90.86	178.58	11,259.94	-3,891.72	-1,258.23	4,043.49	4.55	-2.68	-3.68
15,481.00	90.11	177.87	11,259.69	-3,921.70	-1,257.30	4,072.94	3.44	-2.50	-2.37
15,512.00	90.37	178.05	11,259.56	-3,952.68	-1,256.19	4,103.33	1.02	0.84	0.58
15,543.00	90.59	177.87	11,259.30	-3,983.66	-1,255.09	4,133.73	0.92	0.71	-0.58
15,573.00	90.73	177.61	11,258.95	-4,013.63	-1,253.91	4,163.13	0.98	0.47	-0.87
15,604.00	90.86	177.70	11,258.52	-4,044.61	-1,252.64	4,193.49	0.51	0.42	0.29
15,635.00	90.86	177.52	11,258.06	-4,075.58	-1,251.35	4,223.85	0.58	0.00	-0.58
15,665.00	90.90	177.17	11,257.60	-4,105.54	-1,249.96	4,253.20	1.17	0.13	-1.17
15,696.00	91.38	176.99	11,256.98	-4,136.49	-1,248.38	4,283.49	1.65	1.55	-0.58
15,727.00	92.57	177.78	11,255.91	-4,167.44	-1,246.96	4,313.81	4.61	3.84	2.55
15,758.00	93.80	178.66	11,254.19	-4,198.38	-1,246.00	4,344.19	4.88	3.97	2.84
15,789.00	93.80	179.45	11,252.13	-4,229.31	-1,245.49	4,374.63	2.54	0.00	2.55
15,819.00	93.14	180.16	11,250.32	-4,259.25	-1,245.39	4,404.17	3.23	-2.20	2.37
15,858.00	91.78	180.33	11,248.64	-4,298.21	-1,245.56	4,442.65	3.51	-3.49	0.44

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 #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)	
15,882.00	91.74	180.25	11,247.91	-4,322.20	-1,245.68	4,466.34	0.37	-0.17	-0.33	
15,913.00	92.35	179.81	11,246.80	-4,353.18	-1,245.70	4,496.92	2.43	1.97	-1.42	
15,944.00	92.62	179.45	11,245.46	-4,384.15	-1,245.50	4,527.46	1.45	0.87	-1.16	
15,976.00	90.95	179.37	11,244.46	-4,416.13	-1,245.17	4,558.97	5.22	-5.22	-0.25	
16,008.00	91.34	179.10	11,243.82	-4,448.12	-1,244.74	4,590.47	1.48	1.22	-0.84	
16,039.00	90.77	179.10	11,243.25	-4,479.11	-1,244.25	4,620.98	1.84	-1.84	0.00	
16,070.00	89.63	178.66	11,243.14	-4,510.11	-1,243.65	4,651.47	3.94	-3.68	-1.42	
16,101.00	89.93	178.05	11,243.26	-4,541.09	-1,242.76	4,681.91	2.19	0.97	-1.97	
16,131.00	90.46	177.87	11,243.16	-4,571.07	-1,241.69	4,711.33	1.87	1.77	-0.60	
16,162.00	90.68	177.52	11,242.85	-4,602.05	-1,240.44	4,741.70	1.33	0.71	-1.13	
16,186.00	90.51	176.91	11,242.60	-4,626.02	-1,239.28	4,765.17	2.64	-0.71	-2.54	
16,216.00	90.73	176.64	11,242.28	-4,655.97	-1,237.59	4,794.46	1.16	0.73	-0.90	
16,247.00	91.12	176.38	11,241.78	-4,686.91	-1,235.70	4,824.69	1.51	1.26	-0.84	
16,278.00	90.99	176.38	11,241.20	-4,717.84	-1,233.74	4,854.90	0.42	-0.42	0.00	
16,309.00	88.92	177.70	11,241.23	-4,748.80	-1,232.14	4,885.20	7.92	-6.68	4.26	
16,340.00	88.40	177.78	11,241.95	-4,779.76	-1,230.92	4,915.57	1.70	-1.68	0.26	
16,370.00	88.35	177.61	11,242.80	-4,809.73	-1,229.72	4,944.95	0.59	-0.17	-0.57	
16,401.00	88.18	178.05	11,243.74	-4,840.69	-1,228.54	4,975.32	1.52	-0.55	1.42	
16,432.00	88.18	179.72	11,244.73	-4,871.67	-1,227.94	5,005.79	5.38	0.00	5.39	
16,462.00	88.04	179.63	11,245.72	-4,901.65	-1,227.77	5,035.36	0.55	-0.47	-0.30	
16,493.00	88.18	179.28	11,246.74	-4,932.63	-1,227.47	5,065.89	1.22	0.45	-1.13	
16,525.00	88.35	179.02	11,247.71	-4,964.62	-1,227.00	5,097.38	0.97	0.53	-0.81	
16,556.00	88.31	179.10	11,248.61	-4,995.60	-1,226.49	5,127.87	0.29	-0.13	0.26	
16,587.00	88.40	179.54	11,249.50	-5,026.58	-1,226.12	5,158.39	1.45	0.29	1.42	
16,617.00	89.71	179.63	11,250.00	-5,056.58	-1,225.91	5,187.96	4.38	4.37	0.30	
16,648.00	90.59	180.42	11,249.92	-5,087.58	-1,225.92	5,218.56	3.81	2.84	2.55	
16,678.00	90.37	180.16	11,249.66	-5,117.58	-1,226.07	5,248.19	1.14	-0.73	-0.87	
16,709.00	90.11	179.89	11,249.53	-5,148.57	-1,226.09	5,278.79	1.21	-0.84	-0.87	
16,740.00	89.89	179.72	11,249.53	-5,179.57	-1,225.98	5,309.37	0.90	-0.71	-0.55	
16,770.00	89.89	180.07	11,249.59	-5,209.57	-1,225.92	5,338.97	1.17	0.00	1.17	
16,800.00	89.05	178.40	11,249.87	-5,239.57	-1,225.52	5,368.51	6.23	-2.80	-5.57	
16,831.00	88.26	176.91	11,250.60	-5,270.53	-1,224.26	5,398.86	5.44	-2.55	-4.81	
16,862.00	88.13	177.17	11,251.57	-5,301.48	-1,222.66	5,429.15	0.94	-0.42	0.84	
16,892.00	88.35	177.96	11,252.50	-5,331.44	-1,221.38	5,458.51	2.73	0.73	2.63	
16,923.00	87.91	178.84	11,253.51	-5,362.41	-1,220.52	5,488.94	3.17	-1.42	2.84	
16,954.00	87.66	178.93	11,254.71	-5,393.38	-1,219.91	5,519.41	0.86	-0.81	0.29	
16,984.00	87.74	179.37	11,255.91	-5,423.35	-1,219.47	5,548.92	1.49	0.27	1.47	
17,015.00	88.13	180.16	11,257.03	-5,454.33	-1,219.34	5,579.47	2.84	1.26	2.55	
17,046.00	87.78	180.60	11,258.13	-5,485.31	-1,219.55	5,610.08	1.81	-1.13	1.42	
17,076.00	88.35	180.77	11,259.15	-5,515.29	-1,219.91	5,639.73	1.98	1.90	0.57	
17,107.00	89.27	180.33	11,259.79	-5,546.28	-1,220.20	5,670.36	3.29	2.97	-1.42	
17,137.00	90.02	180.33	11,259.97	-5,576.28	-1,220.38	5,700.00	2.50	2.50	0.00	
17,168.00	90.29	180.60	11,259.89	-5,607.28	-1,220.63	5,730.63	1.23	0.87	0.87	

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 #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
17,199.00	89.89	180.33	11,259.84	-5,638.28	-1,220.88	5,761.27	1.56	-1.29	-0.87
17,229.00	90.07	179.98	11,259.85	-5,668.28	-1,220.96	5,790.89	1.31	0.60	-1.17
17,260.00	90.51	179.63	11,259.70	-5,699.28	-1,220.86	5,821.47	1.81	1.42	-1.13
17,291.00	92.18	179.72	11,258.97	-5,730.27	-1,220.68	5,852.03	5.39	5.39	0.29
17,321.00	92.62	179.81	11,257.71	-5,760.24	-1,220.56	5,881.59	1.50	1.47	0.30
17,352.00	92.75	179.81	11,256.26	-5,791.21	-1,220.45	5,912.14	0.42	0.42	0.00
17,383.00	92.09	179.28	11,254.95	-5,822.18	-1,220.21	5,942.66	2.73	-2.13	-1.71
17,414.00	91.34	178.84	11,254.02	-5,853.16	-1,219.70	5,973.16	2.80	-2.42	-1.42
17,444.00	90.77	178.31	11,253.47	-5,883.14	-1,218.95	6,002.63	2.59	-1.90	-1.77
17,474.00	90.07	177.87	11,253.25	-5,913.13	-1,217.95	6,032.06	2.76	-2.33	-1.47
17,504.00	90.37	178.84	11,253.14	-5,943.11	-1,217.09	6,061.52	3.38	1.00	3.23
17,535.00	90.33	179.10	11,252.95	-5,974.11	-1,216.54	6,092.02	0.85	-0.13	0.84
17,566.00	89.80	177.78	11,252.91	-6,005.09	-1,215.69	6,122.47	4.59	-1.71	-4.26
17,596.00	88.84	176.29	11,253.27	-6,035.05	-1,214.14	6,151.79	5.91	-3.20	-4.97
17,627.00	88.97	176.47	11,253.86	-6,065.98	-1,212.18	6,182.00	0.72	0.42	0.58
17,658.00	90.24	178.05	11,254.07	-6,096.95	-1,210.70	6,212.32	6.54	4.10	5.10
17,689.00	90.68	180.33	11,253.82	-6,127.94	-1,210.26	6,242.84	7.49	1.42	7.35
17,720.00	90.42	179.37	11,253.53	-6,158.94	-1,210.18	6,273.42	3.21	-0.84	-3.10
17,752.00	90.33	179.54	11,253.32	-6,190.94	-1,209.88	6,304.95	0.60	-0.28	0.53
17,783.00	91.16	180.68	11,252.91	-6,221.93	-1,209.94	6,335.55	4.55	2.68	3.68
17,814.00	91.30	180.86	11,252.25	-6,252.92	-1,210.35	6,366.21	0.74	0.45	0.58
17,846.00	90.29	179.45	11,251.80	-6,284.92	-1,210.44	6,397.80	5.42	-3.16	-4.41
17,876.00	90.07	179.37	11,251.71	-6,314.92	-1,210.13	6,427.36	0.78	-0.73	-0.27
17,908.00	90.86	180.33	11,251.45	-6,346.91	-1,210.05	6,458.92	3.89	2.47	3.00
17,939.00	91.03	180.77	11,250.94	-6,377.91	-1,210.35	6,489.56	1.52	0.55	1.42
17,970.00	90.20	179.37	11,250.61	-6,408.91	-1,210.38	6,520.16	5.25	-2.68	-4.52
18,001.00	89.36	178.84	11,250.73	-6,439.90	-1,209.90	6,550.68	3.20	-2.71	-1.71
18,032.00	89.27	179.45	11,251.10	-6,470.90	-1,209.44	6,581.19	1.99	-0.29	1.97
18,064.00	89.23	179.72	11,251.52	-6,502.89	-1,209.20	6,612.73	0.85	-0.13	0.84
18,096.00	88.84	178.66	11,252.05	-6,534.88	-1,208.75	6,644.23	3.53	-1.22	-3.31
18,126.00	88.09	177.78	11,252.86	-6,564.86	-1,207.82	6,673.67	3.85	-2.50	-2.93
18,158.00	88.18	177.78	11,253.90	-6,596.82	-1,206.58	6,705.01	0.28	0.28	0.00
18,189.00	88.18	178.40	11,254.88	-6,627.78	-1,205.55	6,735.41	2.00	0.00	2.00
18,221.00	88.18	178.84	11,255.90	-6,659.76	-1,204.78	6,766.84	1.37	0.00	1.38
18,315.00	90.24	179.72	11,257.20	-6,753.74	-1,203.60	6,859.40	2.38	2.19	0.94
18,408.00	89.32	179.02	11,257.55	-6,846.73	-1,202.58	6,951.02	1.24	-0.99	-0.75
18,501.00	89.49	178.93	11,258.52	-6,939.71	-1,200.91	7,042.52	0.21	0.18	-0.10
18,594.00	90.77	179.89	11,258.31	-7,032.70	-1,199.95	7,134.14	1.72	1.38	1.03
18,687.00	89.49	179.02	11,258.10	-7,125.69	-1,199.07	7,225.78	1.66	-1.38	-0.94
18,780.00	91.91	180.77	11,256.96	-7,218.68	-1,198.90	7,317.52	3.21	2.60	1.88
18,806.00	91.83	180.77	11,256.11	-7,244.66	-1,199.25	7,343.23	0.31	-0.31	0.00
LTP #1H									
18,863.44	91.65	180.77	11,254.37	-7,302.06	-1,200.02	7,400.00	0.31	-0.31	0.00
PBHL ST2 #1H p3									

Precision Drilling Corporation

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Site:	Golden Tyche State 1621	MD Reference:	3910'GL+25'KB @ 3935.00usft
Well:	#1H	North Reference:	Grid
Wellbore:	Sidetrack #2	Survey Calculation Method:	Minimum Curvature
Design:	Sidetrack #2	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)
18,864.00	91.65	180.77	11,254.35	-7,302.63	-1,200.03	7,400.56	0.31	-0.31	0.00
18,925.00	91.65	180.77	11,252.60	-7,363.60	-1,200.85	7,460.87	0.00	0.00	0.00
BHL ST2 #1H									

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
Surface #1H - actual wellpath hits target center - Point	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
BHL ST2 #1H - actual wellpath hits target center - Point	0.00	0.00	11,252.60	-7,363.60	-1,200.85	692,856.70	838,517.35	32° 54' 3.349 N	103° 21' 54.300 W
LTP #1H - actual wellpath hits target center - Point	0.00	0.00	11,256.11	-7,244.66	-1,199.25	692,975.64	838,518.95	32° 54' 4.526 N	103° 21' 54.269 W
FTP #1H - actual wellpath hits target center - Point	0.00	0.00	11,298.75	-165.91	-1,268.02	700,054.38	838,450.17	32° 55' 14.566 N	103° 21' 54.313 W
PBHL ST2 #1H p3 - actual wellpath misses target center by 50.66usft at 18863.51usft MD (11254.37 TVD, -7302.14 N, -1200.02 E) - Point	0.00	0.00	11,305.00	-7,303.60	-1,200.00	692,916.70	838,518.20	32° 54' 3.943 N	103° 21' 54.284 W

Design Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	+E/-W (usft)	Comment
11,723.00	11,298.75	-165.91	-1,268.02	FTP
18,806.00	11,256.11	-7,244.66	-1,199.25	LTP