



A GYRO TECHNOLOGIES INC. COMPANY

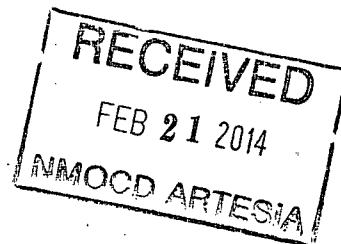
November 21, 2013

P.O. Box 261021
Corpus Christi, Texas 78426
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

15-40822

Devon Energy Production Co., L. P.
333 West Sheridan Ave
Oklahoma City, Oklahoma 73102-5010

Attn: Patti Riechers



Re: **Diamond PWU 22 No. 005H**

Please find enclosed a copy of the survey from 0.00' to 6285.00' ran on the above referenced well.

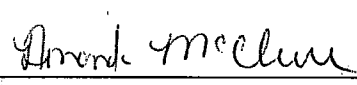
If I can be of any further service please do not hesitate to call me at 800-606-4976.

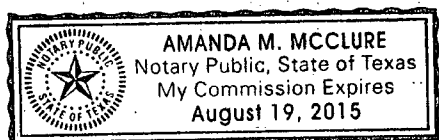
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 25 day of November, A.D., 2013, by Keith Havelka.


Amanda McClure
Notary Public, State of Texas

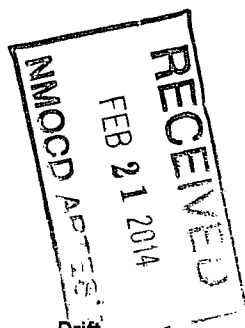




Company: Devon Energy Production Co.
 Lease/Well: Diamond PWU 22/No. 005H
 Location: S22 T19s R29e
 Rig Name: HP 223
 State/County: New Mexico/Eddy
 Latitude: 32.65, Longitude: -104.07
 GRID North is 0.14 Degrees East of True North
 VS-Azi: 0.00 Degrees



RKB : 25 Feet



DRILLOG HA GYRO SURVEY CALCULATIONS
 Filename: diamond pwu 22-5h gyro survey.ut
 Minimum Curvature Method
 Report Date/Time: 11/21/2013 / 11:10
 Vaughn Energy Services
 Gardendale, TX 79758
 (432) 563-5444
 Surveyor: Dustin Wedel
 Diamond PWU 22 No. 005H / API 30-015-40822

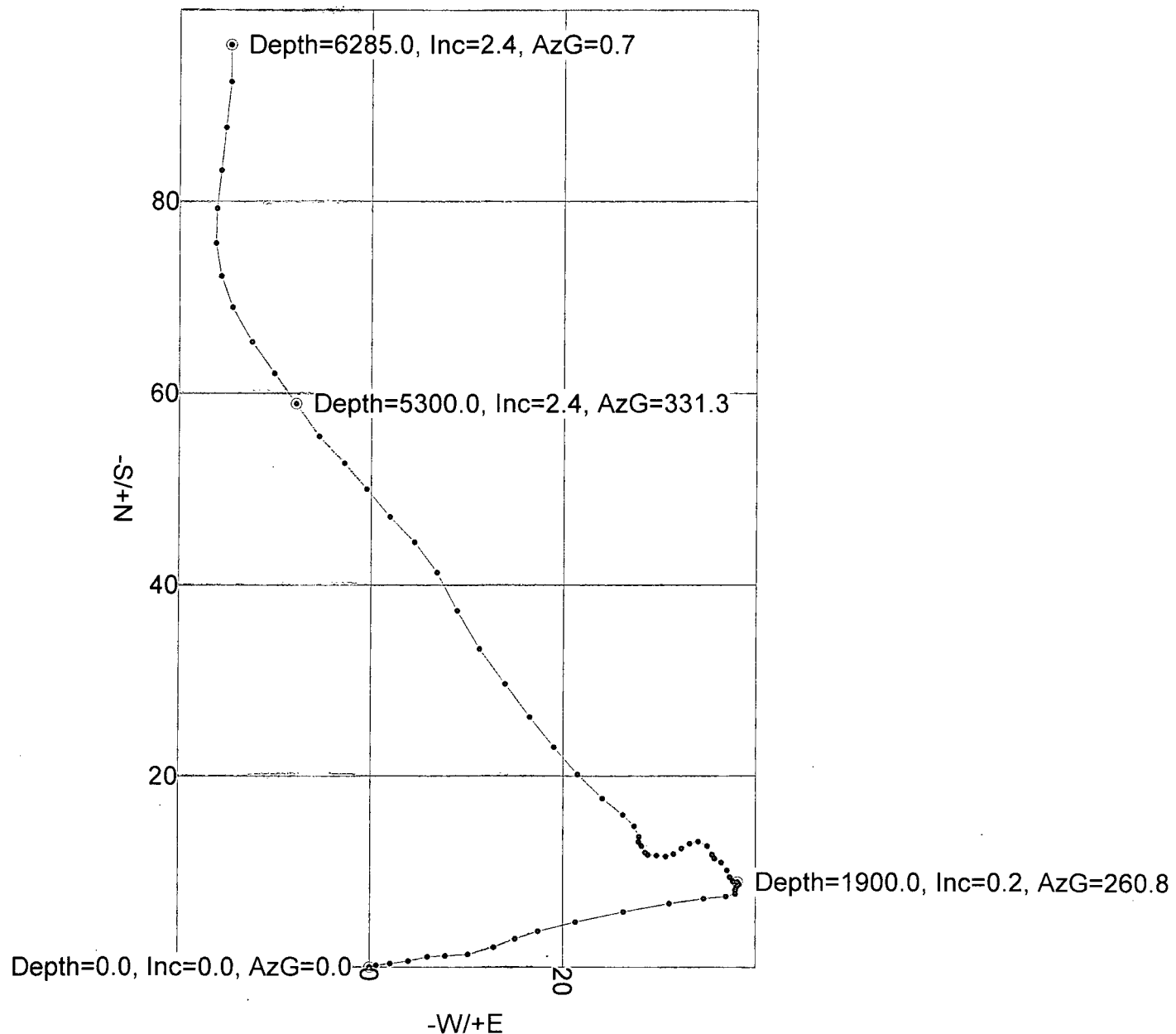
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.83	74.23	100.00	0.20	0.70	0.20	0.73	74.23	0.83
200.00	0.89	90.34	199.99	0.39	2.18	0.39	2.21	79.82	0.25
300.00	1.30	77.16	299.97	0.64	4.06	0.64	4.11	81.06	0.48
400.00	1.01	76.99	399.95	1.09	6.03	1.09	6.13	79.75	0.29
500.00	1.11	95.52	499.93	1.20	7.86	1.20	7.95	81.34	0.35
600.00	1.58	80.19	599.90	1.34	10.18	1.34	10.27	82.51	0.59
700.00	1.59	68.77	699.86	2.08	12.84	2.08	13.01	80.81	0.32
800.00	1.12	67.94	799.84	2.95	15.04	2.95	15.33	78.91	0.47
900.00	1.79	74.33	899.80	3.74	17.45	3.74	17.84	77.91	0.68
1000.00	2.77	77.39	999.72	4.69	21.31	4.69	21.82	77.60	0.99
1100.00	3.06	78.21	1099.59	5.76	26.28	5.76	26.90	77.64	0.29
1200.00	2.57	81.63	1199.47	6.63	31.11	6.63	31.81	77.97	0.51
1300.00	1.58	81.90	1299.41	7.15	34.70	7.15	35.43	78.35	0.99
1400.00	1.03	86.88	1399.38	7.40	36.96	7.40	37.70	78.69	0.56
1500.00	0.25	19.96	1499.37	7.65	37.94	7.65	38.70	78.60	0.96
1600.00	0.24	335.86	1599.37	8.05	37.93	8.05	38.77	78.01	0.19
1700.00	0.27	60.34	1699.37	8.36	38.04	8.36	38.95	77.60	0.34
1800.00	0.26	15.35	1799.37	8.70	38.30	8.70	39.28	77.20	0.20

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
1900.00	0.24	260.80	1899.37	8.89	38.16	8.89	39.18	76.89	0.42
2000.00	0.31	291.61	1999.37	8.95	37.70	8.95	38.75	76.64	0.16
2100.00	0.42	346.51	2099.37	9.40	37.37	9.40	38.53	75.88	0.35
2200.00	0.49	331.95	2199.36	10.13	37.08	10.13	38.44	74.71	0.14
2300.00	0.68	315.96	2299.36	10.94	36.46	10.94	38.07	73.29	0.25
2400.00	0.31	264.78	2399.35	11.35	35.78	11.35	37.54	72.40	0.55
2500.00	0.49	2.28	2499.35	11.75	35.53	11.75	37.43	71.70	0.61
2600.00	0.82	315.09	2599.35	12.68	35.05	12.68	37.27	70.10	0.60
2700.00	0.50	263.39	2699.34	13.14	34.11	13.14	36.55	68.93	0.64
2800.00	0.55	249.78	2799.34	12.92	33.22	12.92	35.64	68.74	0.14
2900.00	0.60	230.64	2899.33	12.42	32.36	12.42	34.66	69.00	0.20
3000.00	0.55	238.00	2999.33	11.83	31.54	11.83	33.69	69.44	0.09
3100.00	0.48	267.05	3099.32	11.56	30.71	11.56	32.82	69.38	0.27
3200.00	0.67	284.35	3199.32	11.68	29.73	11.68	31.94	68.55	0.25
3300.00	0.41	256.54	3299.31	11.74	28.82	11.74	31.12	67.83	0.36
3400.00	0.38	10.51	3399.31	11.98	28.53	11.98	30.95	67.22	0.66
3500.00	0.65	311.94	3499.31	12.68	28.17	12.68	30.90	65.76	0.55
3600.00	0.11	65.91	3599.31	13.10	27.84	13.10	30.77	64.80	0.70
3700.00	0.58	355.30	3699.31	13.64	27.89	13.64	31.05	63.94	0.55
3800.00	0.86	321.51	3799.30	14.73	27.38	14.73	31.10	61.72	0.50
3900.00	1.08	310.47	3899.28	15.93	26.20	15.93	30.66	58.70	0.29
4000.00	2.05	308.20	3999.24	17.65	24.08	17.65	29.85	53.76	0.96
4100.00	2.11	320.55	4099.18	20.17	21.50	20.17	29.49	46.83	0.45
4200.00	2.21	317.98	4199.11	23.03	19.04	23.03	29.88	39.58	0.14
4300.00	2.42	324.44	4299.03	26.18	16.52	26.18	30.96	32.26	0.33
4400.00	2.53	322.65	4398.93	29.65	13.96	29.65	32.77	25.20	0.14
4500.00	2.68	325.38	4498.83	33.34	11.28	33.34	35.19	18.70	0.19
4600.00	2.62	334.47	4598.72	37.32	8.97	37.32	38.38	13.52	0.42
4700.00	2.54	330.71	4698.62	41.31	6.91	41.31	41.88	9.49	0.19
4800.00	2.01	314.02	4798.54	44.46	4.56	44.46	44.69	5.86	0.84
4900.00	2.24	317.18	4898.48	47.11	1.97	47.11	47.15	2.40	0.25
5000.00	2.11	323.00	4998.40	50.01	-0.46	50.01	50.01	359.47	0.25
5100.00	1.98	315.35	5098.34	52.71	-2.78	52.71	52.78	356.98	0.30
5200.00	2.42	317.76	5198.27	55.50	-5.42	55.50	55.77	354.43	0.45
5300.00	2.41	331.31	5298.18	58.91	-7.85	58.91	59.43	352.41	0.57
5400.00	2.09	316.41	5398.10	62.08	-10.11	62.08	62.89	350.75	0.66
5500.00	2.58	330.80	5498.02	65.36	-12.47	65.36	66.54	349.20	0.76
5600.00	2.18	329.40	5597.93	68.96	-14.53	68.96	70.48	348.10	0.40
5700.00	1.89	353.49	5697.87	72.24	-15.69	72.24	73.92	347.75	0.89

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	2.10	348.04	5797.81	75.68	-16.25	75.68	77.40	347.88	0.28
5900.00	2.16	14.93	5897.74	79.29	-16.15	79.29	80.92	348.49	0.99
6000.00	2.45	358.57	5997.66	83.24	-15.72	83.24	84.71	349.31	0.72
6100.00	2.73	13.35	6097.56	87.70	-15.22	87.70	89.01	350.15	0.72
6200.00	2.83	359.04	6197.45	92.49	-14.71	92.49	93.65	350.96	0.70
6285.00	2.38	0.70	6282.36	96.35	-14.73	96.35	97.47	351.31	0.54



Vaughn Energy Services
Gardendale, TX 79758
(432) 563-5444
Surveyor: Dustin Wedel
Diamond PWU 22 No. 005H / API 30-015-40822



VES Survey Date: 11/11/2013



DIAMOND PWU 22-5H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name PARKWAY WEST	Project Group DELAWARE BASIN	State/Province NM			
Surface Legal Location SEC22 T19S R29E	API/UWI 3001540822	Latitude (°) 32° 39' 5.546" N	Longitude (°) 104° 4' 12.481" W	Ground Elev... 3,332.70	KB - GL (ft) 25.00	Orig KB Elev (ft) 3,357.70	Tubing Head Elevation (ft)

Wellbores

Wellbore Name OH	Parent Wellbore	Kick Off Depth (ftKB) 0.0	Vertical Section Direction (°)
Actual Deviation Survey SPERRY MWD, Proposed? No	Definitive? No	Proposed? No	Proposed Deviation Survey

Deviation Survey

Date 11/12/2013		Description SPERRY MWD			
MD Tie In (ftKB) 0.00	TVD Tie In (ftKB) 0.00	Inclination Tie In (°) 0.00	Azimuth Tie In (°) 0.00	NSTie In (ft) 0.00	EW Tie In (ft) 0.00

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/11/2...	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	100.00	0.83	74.23	100.00	0.70	0.20	0.70	0.83	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	200.00	0.89	90.34	199.99	2.17	0.39	2.17	0.25	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	300.00	1.30	77.16	299.97	4.06	0.64	4.05	0.48	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	400.00	1.01	76.99	399.95	6.03	1.09	6.02	0.29	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	500.00	1.11	95.52	499.93	7.85	1.19	7.84	0.36	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	600.00	1.58	80.19	599.90	10.18	1.33	10.16	0.59	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	700.00	1.59	68.77	699.86	12.83	2.07	12.82	0.32	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	800.00	1.12	67.94	799.84	15.04	2.94	15.01	0.47	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	900.00	1.79	74.33	899.80	17.46	3.73	17.42	0.69	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,000.00	2.77	77.39	999.72	21.33	4.68	21.29	0.99	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,100.00	3.06	78.21	1,099.59	26.31	5.75	26.26	0.29	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,200.00	2.57	81.63	1,199.47	31.15	6.62	31.09	0.52	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,300.00	1.58	81.90	1,299.41	34.74	7.14	34.67	0.99	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,400.00	1.03	86.88	1,399.38	37.00	7.39	36.93	0.56	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,500.00	0.25	19.96	1,499.37	37.98	7.64	37.90	0.96	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,600.00	0.24	335.86	1,599.37	37.97	8.04	37.89	0.18	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,700.00	0.27	60.34	1,699.37	38.09	8.35	38.01	0.34	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,800.00	0.26	15.35	1,799.37	38.36	8.68	38.28	0.20	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	1,900.00	0.24	260.80	1,899.37	38.21	8.87	38.13	0.42	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,000.00	0.31	291.61	1,999.37	37.76	8.93	37.67	0.16	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,100.00	0.42	346.51	2,099.37	37.42	9.39	37.34	0.35	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,200.00	0.49	331.95	2,199.36	37.15	10.12	37.05	0.13	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,300.00	0.68	315.96	2,299.36	36.54	10.93	36.44	0.25	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,400.00	0.31	264.78	2,399.36	35.86	11.33	35.75	0.54	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,500.00	0.49	2.28	2,499.35	35.61	11.73	35.50	0.61	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,600.00	0.82	315.09	2,599.35	35.13	12.66	35.01	0.61	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,700.00	0.50	263.39	2,699.34	34.20	13.12	34.07	0.64	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,800.00	0.55	249.78	2,799.34	33.31	12.91	33.19	0.13	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	2,900.00	0.60	230.64	2,899.33	32.45	12.41	32.34	0.20	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,000.00	0.55	238.00	2,999.33	31.64	11.82	31.52	0.09	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,100.00	0.48	267.05	3,099.32	30.81	11.54	30.70	0.27	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,200.00	0.67	284.35	3,199.32	29.82	11.67	29.71	0.26	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,300.00	0.41	256.54	3,299.31	28.91	11.73	28.80	0.36	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,400.00	0.38	10.51	3,399.31	28.63	11.97	28.51	0.66	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,500.00	0.65	311.94	3,499.31	28.27	12.68	28.15	0.56	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,600.00	0.11	65.91	3,599.31	27.94	13.10	27.82	0.70	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,700.00	0.58	355.30	3,699.31	27.99	13.64	27.86	0.55	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,800.00	0.86	321.51	3,799.30	27.49	14.73	27.35	0.50	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	3,900.00	1.08	310.47	3,899.28	26.32	15.93	26.17	0.29	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,000.00	2.05	308.20	3,999.25	24.22	17.65	24.05	0.97	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,100.00	2.11	320.55	4,099.18	21.67	20.18	21.47	0.45	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,200.00	2.21	317.98	4,199.11	19.23	23.03	19.01	0.14	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,300.00	2.42	324.44	4,299.03	16.75	26.18	16.49	0.33	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,400.00	2.53	322.65	4,398.93	14.21	29.65	13.93	0.13	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,500.00	2.68	325.38	4,498.83	11.58	33.33	11.26	0.19	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,600.00	2.62	334.47	4,598.72	9.31	37.32	8.95	0.42	GYRO	VAUHG N ENERGY SERVICES



DIAMOND PWU 22-5H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name PARKWAY WEST	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC22 T19S R29E	API/UWI 3001540822	Latitude (°) 32° 39' 5.546" N	Longitude (°) 104° 4' 12.481" W	Ground Elev... 3,332.70
				KB - GL (ft) 25.00
				Orig KB Elev (ft) 3,357.70
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (°)	Azm (°)	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS (°/100ft)	Survey Tool	Survey Company
11/11/2...	4,700.00	2.54	330.71	4,698.62	7.28	41.31	6.88	0.19	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,800.00	2.01	314.02	4,798.55	4.96	44.46	4.53	0.84	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	4,900.00	2.24	317.18	4,898.48	2.40	47.12	1.94	0.26	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,000.00	2.11	323.00	4,998.40	-0.01	50.02	-0.49	0.26	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,100.00	1.98	315.35	5,098.34	-2.31	52.72	-2.82	0.30	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,200.00	2.42	317.76	5,198.27	-4.91	55.51	-5.45	0.45	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,300.00	2.41	331.31	5,298.18	-7.31	58.92	-7.88	0.57	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,400.00	2.09	316.41	5,398.10	-9.54	62.08	-10.15	0.66	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,500.00	2.58	330.80	5,498.02	-11.87	65.37	-12.50	0.76	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,600.00	2.18	329.40	5,597.93	-13.90	68.97	-14.57	0.40	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,700.00	1.89	353.49	5,697.87	-15.02	72.25	-15.72	0.90	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,800.00	2.10	348.04	5,797.81	-15.56	75.68	-16.29	0.28	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	5,900.00	2.16	14.93	5,897.75	-15.41	79.29	-16.18	0.99	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	6,000.00	2.45	358.57	5,997.67	-14.94	83.25	-15.75	0.72	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	6,100.00	2.73	13.35	6,097.56	-14.40	87.70	-15.25	0.72	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	6,200.00	2.83	359.04	6,197.45	-13.85	92.49	-14.75	0.70	GYRO	VAUHG N ENERGY SERVICES
11/11/2...	6,285.00	2.38	0.70	6,282.36	-13.83	96.35	-14.76	0.54	GYRO	VAUHG N ENERGY SERVICES
11/12/2...	6,350.00	2.12	355.15	6,347.31	-13.89	98.90	-14.84	0.52	MWD	SPERRY-SUN DRILLING SE...
11/12/2...	6,381.00	1.84	27.88	6,378.29	-13.69	99.91	-14.66	3.70	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,413.00	5.08	84.10	6,410.24	-12.04	100.51	-13.01	13.55	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,444.00	8.87	91.24	6,441.00	-8.28	100.60	-9.25	12.52	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,476.00	12.05	89.95	6,472.47	-2.47	100.55	-3.45	9.96	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,507.00	16.07	92.17	6,502.53	5.05	100.39	4.08	13.08	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,539.00	19.59	94.69	6,532.99	14.82	99.78	13.86	11.26	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,571.00	23.00	97.21	6,562.80	26.36	98.56	25.41	11.03	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,602.00	26.96	97.19	6,590.90	39.33	96.92	38.40	12.77	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,634.00	30.79	96.59	6,618.91	54.65	95.07	53.73	12.00	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,665.00	33.41	94.23	6,645.17	71.03	93.53	70.13	9.37	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,697.00	35.93	94.34	6,671.49	89.17	92.17	88.28	7.88	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,728.00	39.24	95.09	6,696.05	107.99	90.61	107.12	10.78	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,760.00	42.92	95.84	6,720.17	128.90	88.60	128.05	11.60	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,791.00	46.22	97.41	6,742.25	150.48	86.08	149.65	11.22	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,823.00	49.82	97.21	6,763.65	174.04	83.06	173.25	11.26	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,854.00	53.24	96.24	6,782.93	198.11	80.22	197.35	11.30	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,886.00	56.11	96.31	6,801.43	224.03	77.37	223.30	8.97	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,918.00	58.47	96.79	6,818.72	250.75	74.30	250.04	7.48	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,949.00	61.15	96.26	6,834.31	277.34	71.25	276.66	8.77	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	6,981.00	63.00	96.33	6,849.30	305.41	68.15	304.76	5.78	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	7,012.00	63.96	95.91	6,863.14	332.96	65.20	332.34	3.33	MWD	SPERRY-SUN DRILLING SE...
11/13/2...	7,044.00	64.58	95.68	6,877.03	361.61	62.28	361.02	2.04	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,075.00	65.80	95.17	6,890.04	389.59	59.63	389.04	4.21	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,107.00	66.88	94.86	6,902.88	418.77	57.06	418.23	3.49	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,138.00	68.15	95.35	6,914.74	447.27	54.51	446.76	4.35	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,169.00	69.15	95.85	6,926.02	475.97	51.70	475.50	3.56	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,201.00	70.19	96.48	6,937.14	505.77	48.47	505.33	3.74	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,233.00	70.64	97.07	6,947.87	535.68	44.92	535.27	2.23	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,264.00	71.25	97.61	6,957.99	564.70	41.17	564.33	2.57	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,296.00	72.17	97.50	6,968.03	594.78	37.18	594.45	2.89	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,327.00	73.12	97.55	6,977.28	624.07	33.30	623.78	3.07	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,359.00	73.72	97.41	6,986.41	654.44	29.31	654.19	1.92	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,390.00	74.70	97.00	6,994.84	684.00	25.57	683.78	3.41	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,422.00	75.13	97.43	7,003.17	714.61	21.69	714.44	1.87	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,453.00	76.74	97.39	7,010.70	744.39	17.81	744.25	5.20	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,485.00	78.64	97.63	7,017.53	775.35	13.72	775.25	5.98	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,517.00	81.44	97.26	7,023.06	806.55	9.64	806.50	8.82	MWD	SPERRY-SUN DRILLING SE...



DIAMOND PWU 22-5H

WEST UNRESTRICTED

Directional Survey

District PERMIAN BASIN	County EDDY	Field Name PARKWAY WEST	Project Group DELAWARE BASIN	State/Province NM
Surface Legal Location SEC22 T19S R29E	API/UWI 3001540822	Latitude (") 32° 39' 5.546" N	Longitude (") 104° 4' 12.481" W	Ground Elev... 3,332.70
				KB - GL (ft) 25.00
				Orig KB Elev (ft) 3,357.70
				Tubing Head Elevation (ft)

Survey Data

Date	MD (ftKB)	Incl (")	Azm (")	TVD (ftKB)	VS (ft)	N/S (ft)	E/W (ft)	DLS ("/100ft)	Survey Tool	Survey Company
11/14/2...	7,548.00	84.32	97.29	7,026.90	837.02	5.75	837.01	9.29	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,580.00	87.10	97.18	7,029.30	868.64	1.73	868.66	8.69	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,611.00	89.08	97.19	7,030.33	899.34	-2.15	899.40	6.39	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,706.00	90.71	98.11	7,030.50	993.36	-14.79	993.55	1.97	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,801.00	90.00	96.15	7,029.92	1,087.50	-26.58	1,087.81	2.19	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,895.00	88.80	93.56	7,030.90	1,181.07	-34.54	1,181.46	3.04	MWD	SPERRY-SUN DRILLING SE...
11/14/2...	7,990.00	88.77	91.08	7,032.91	1,275.92	-38.38	1,276.35	2.61	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,084.00	87.84	88.55	7,035.70	1,369.87	-38.08	1,370.30	2.87	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,179.00	87.87	86.53	7,039.25	1,464.74	-34.00	1,465.14	2.13	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,273.00	88.89	86.65	7,041.91	1,558.59	-28.42	1,558.93	1.09	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,368.00	88.46	86.31	7,044.11	1,653.43	-22.58	1,653.73	0.58	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,462.00	89.57	86.43	7,045.72	1,747.28	-16.63	1,747.53	1.19	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,557.00	86.83	86.74	7,048.71	1,842.11	-10.98	1,842.30	2.90	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,652.00	87.23	87.38	7,053.63	1,936.90	-6.11	1,937.05	0.79	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,746.00	88.64	87.10	7,057.01	2,030.76	-1.59	2,030.88	1.53	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,841.00	89.78	87.55	7,058.32	2,125.69	2.84	2,125.76	1.29	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	8,935.00	88.33	87.40	7,059.87	2,219.62	6.98	2,219.65	1.55	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	9,030.00	88.46	87.44	7,062.54	2,314.52	11.26	2,314.52	0.14	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	9,124.00	88.43	89.19	7,065.09	2,408.46	14.02	2,408.44	1.86	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	9,219.00	89.26	89.42	7,067.00	2,503.44	15.17	2,503.41	0.91	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	9,313.00	90.49	89.51	7,067.21	2,597.44	16.05	2,597.41	1.31	MWD	SPERRY-SUN DRILLING SE...
11/15/2...	9,408.00	89.29	89.65	7,067.39	2,692.44	16.75	2,692.40	1.27	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,503.00	88.37	88.91	7,069.33	2,787.42	17.94	2,787.37	1.24	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,597.00	89.07	89.27	7,071.43	2,881.39	19.43	2,881.34	0.84	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,692.00	90.59	89.18	7,071.71	2,976.39	20.72	2,976.33	1.60	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,787.00	89.23	89.30	7,071.86	3,071.39	21.98	3,071.32	1.44	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,881.00	89.72	89.97	7,072.72	3,165.38	22.58	3,165.31	0.88	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	9,976.00	88.15	90.02	7,074.49	3,260.36	22.59	3,260.29	1.65	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	10,071.00	88.61	89.63	7,077.17	3,355.32	22.88	3,355.25	0.63	MWD	SPERRY-SUN DRILLING SE...
11/16/2...	10,165.00	90.12	89.56	7,078.21	3,449.31	23.54	3,449.24	1.61	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,260.00	88.43	88.89	7,079.42	3,544.29	24.83	3,544.22	1.91	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,355.00	88.09	88.11	7,082.30	3,639.24	27.31	3,639.14	0.90	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,449.00	89.44	88.53	7,084.33	3,733.19	30.07	3,733.08	1.50	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,544.00	90.74	88.98	7,084.18	3,828.19	32.13	3,828.05	1.45	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,638.00	89.48	88.53	7,084.00	3,922.18	34.17	3,922.03	1.42	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,733.00	90.09	88.91	7,084.35	4,017.17	36.29	4,017.00	0.76	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,828.00	89.20	90.06	7,084.94	4,112.16	37.15	4,112.00	1.53	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	10,922.00	87.87	89.74	7,087.35	4,206.13	37.31	4,205.96	1.46	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	11,017.00	88.46	89.08	7,090.39	4,301.08	38.29	4,300.91	0.93	MWD	SPERRY-SUN DRILLING SE...
11/18/2...	11,111.00	90.19	88.59	7,091.49	4,395.06	40.20	4,394.88	1.91	MWD	SPERRY-SUN DRILLING SE...
11/18/2...	11,206.00	91.33	88.45	7,090.23	4,490.04	42.65	4,489.84	1.21	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	11,248.00	91.36	89.17	7,089.25	4,532.02	43.53	4,531.82	1.72	MWD	SPERRY-SUN DRILLING SE...
11/17/2...	11,320.00	91.36	89.17	7,087.54	4,604.00	44.57	4,603.79	0.00	BIT	SPERRY-SUN DRILLING SE...