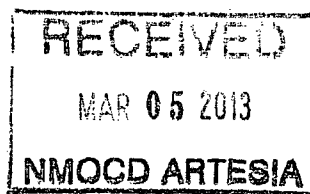




A GYRO TECHNOLOGIES INC. COMPANY

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

January 14, 2013



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

30-015-40587

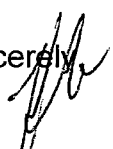
Attn: Patti Riechers

Re: **Emerald PWU 20 No. 007H**

Please find enclosed a copy of the survey from 0.00' to 6295.00' ran on the above referenced well.

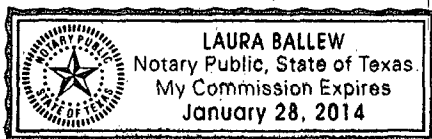
If I can be of any further service please do not hesitate to call me at 800-606-4976.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
§
COUNTY OF NUECES §

This instrument was acknowledged before me on the 14th day of January, A.D., 2013, by Keith Havelka.




Laura Ballew
Notary Public, State of Texas



Company: Devon Energy Production Co., LP
Lease/Well: Emerald PWU 20 / No. 007H
Location: S20 T19s R29e
Rig Name: McVay #6
State/County: New Mexico / Eddy
Latitude: 32.64, Longitude: -104.09
GRID North is 0.13 Degrees East of True North
VS-Azi: 0.00 Degrees



RECEIVED
MAR 05 2013
NMOCD ARTESIA

RKB : 19'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: emerald pwu 20 #7h gyro survey.ut

Minimum Curvature Method

Report Date/Time: 1/14/2013 / 09:53

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Dustin Wedel

Emerald PWU 20 No. 007H / API 30-015-40587

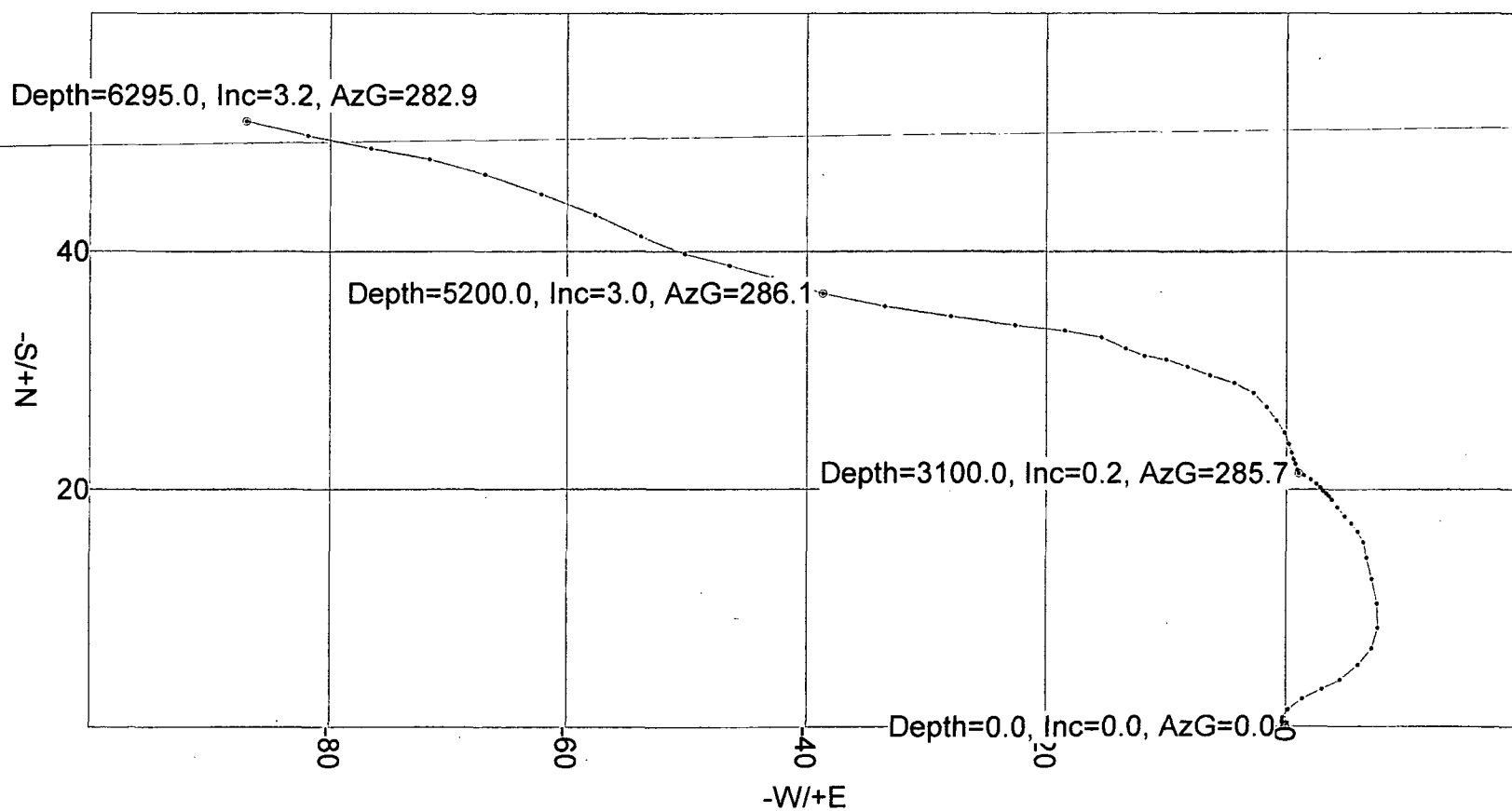
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.18	318.66	100.00	0.12	-0.10	0.12	0.16	318.66	0.18
200.00	0.31	76.47	200.00	0.30	0.05	0.30	0.30	10.09	0.42
300.00	0.18	230.90	300.00	0.26	0.19	0.26	0.32	36.20	0.47
400.00	0.19	279.98	400.00	0.19	-0.09	0.19	0.21	334.24	0.15
500.00	0.18	353.34	500.00	0.38	-0.27	0.38	0.47	324.19	0.22
600.00	0.08	173.21	600.00	0.47	-0.28	0.47	0.55	328.64	0.27
700.00	0.41	3.21	700.00	0.75	-0.25	0.75	0.79	341.31	0.50
800.00	0.60	55.12	799.99	1.41	0.20	1.41	1.43	7.88	0.47
900.00	1.14	50.62	899.98	2.35	1.40	2.35	2.73	30.76	0.54
1000.00	1.00	78.26	999.97	3.15	3.02	3.15	4.37	43.73	0.53
1100.00	1.02	46.69	1099.95	3.94	4.52	3.94	6.00	48.89	0.55
1200.00	1.19	52.61	1199.93	5.19	6.00	5.19	7.93	49.13	0.20
1300.00	0.95	22.25	1299.91	6.59	7.14	6.59	9.71	47.29	0.61
1400.00	1.15	9.77	1399.90	8.35	7.62	8.35	11.30	42.40	0.30
1500.00	1.26	348.16	1499.88	10.41	7.57	10.41	12.87	36.01	0.46
1600.00	1.16	347.42	1599.85	12.47	7.12	12.47	14.36	29.74	0.10
1700.00	0.96	346.24	1699.84	14.27	6.70	14.27	15.76	25.17	0.20
1800.00	0.57	345.86	1799.83	15.56	6.38	15.56	16.82	22.31	0.39

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	0.60	321.15	1899.82	16.45	5.93	16.45	17.49	19.84	0.25
2000.00	0.41	323.81	1999.82	17.14	5.40	17.14	17.97	17.48	0.19
2100.00	0.54	313.74	2099.82	17.75	4.85	17.75	18.40	15.28	0.16
2200.00	0.57	327.61	2199.81	18.50	4.24	18.50	18.98	12.92	0.14
2300.00	0.35	319.17	2299.81	19.14	3.78	19.14	19.51	11.18	0.23
2400.00	0.11	326.40	2399.81	19.45	3.53	19.45	19.76	10.30	0.24
2500.00	0.23	305.46	2499.81	19.64	3.32	19.64	19.92	9.59	0.14
2600.00	0.18	316.67	2599.81	19.87	3.05	19.87	20.10	8.72	0.06
2700.00	0.22	326.91	2699.81	20.14	2.84	20.14	20.34	8.02	0.05
2800.00	0.32	307.10	2799.80	20.47	2.52	20.47	20.62	7.01	0.13
2900.00	0.39	309.05	2899.80	20.84	2.03	20.84	20.94	5.57	0.07
3000.00	0.38	293.29	2999.80	21.19	1.47	21.19	21.24	3.97	0.10
3100.00	0.15	285.71	3099.80	21.35	1.04	21.35	21.38	2.79	0.23
3200.00	0.29	0.91	3199.80	21.64	0.92	21.64	21.66	2.42	0.29
3300.00	0.32	325.01	3299.80	22.13	0.76	22.13	22.14	1.97	0.19
3400.00	0.19	357.29	3399.80	22.52	0.59	22.52	22.53	1.50	0.19
3500.00	0.49	339.64	3499.79	23.09	0.43	23.09	23.09	1.08	0.32
3600.00	0.37	349.40	3599.79	23.81	0.23	23.81	23.81	0.54	0.14
3700.00	0.81	332.81	3699.79	24.75	-0.16	24.75	24.75	359.64	0.47
3800.00	0.60	320.08	3799.78	25.79	-0.82	25.79	25.80	358.18	0.26
3900.00	0.98	326.00	3899.77	26.90	-1.64	26.90	26.95	356.52	0.39
4000.00	0.90	308.52	3999.76	28.10	-2.73	28.10	28.23	354.45	0.30
4100.00	1.21	288.90	4099.74	28.93	-4.35	28.93	29.26	351.46	0.48
4200.00	1.23	286.65	4199.72	29.58	-6.38	29.58	30.26	347.84	0.05
4300.00	1.09	295.63	4299.70	30.30	-8.26	30.30	31.41	344.75	0.23
4400.00	1.06	282.59	4399.68	30.92	-10.03	30.92	32.50	342.03	0.25
4500.00	1.04	274.27	4499.66	31.19	-11.84	31.19	33.36	339.22	0.15
4600.00	1.00	310.51	4599.65	31.82	-13.40	31.82	34.53	337.16	0.63
4700.00	1.62	285.05	4699.62	32.75	-15.43	32.75	36.20	334.78	0.83
4800.00	1.95	277.41	4799.57	33.34	-18.47	33.34	38.11	331.01	0.41
4900.00	2.86	275.34	4899.48	33.79	-22.64	33.79	40.68	326.17	0.91
5000.00	3.30	280.23	4999.34	34.53	-27.96	34.53	44.43	321.00	0.52
5100.00	3.07	277.34	5099.18	35.39	-33.45	35.39	48.69	316.61	0.29
5200.00	3.02	286.05	5199.04	36.46	-38.64	36.46	53.12	313.34	0.46
5300.00	2.10	289.12	5298.94	37.79	-42.90	37.79	57.17	311.37	0.93
5400.00	2.14	282.64	5398.87	38.80	-46.46	38.80	60.53	309.87	0.24
5500.00	2.30	286.32	5498.80	39.77	-50.21	39.77	64.05	308.38	0.21
5600.00	2.25	297.71	5598.72	41.25	-53.87	41.25	67.84	307.44	0.45
5700.00	2.58	293.26	5698.63	43.05	-57.68	43.05	71.97	306.74	0.38

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	2.98	289.79	5798.51	44.82	-62.19	44.82	76.66	305.78	0.43
5900.00	2.75	288.98	5898.39	46.48	-66.91	46.48	81.47	304.79	0.23
6000.00	2.83	281.21	5998.27	47.74	-71.60	47.74	86.06	303.69	0.39
6100.00	2.98	279.44	6098.14	48.65	-76.58	48.65	90.73	302.42	0.18
6200.00	3.22	282.98	6198.00	49.70	-81.89	49.70	95.79	301.26	0.31
6295.00	3.19	282.90	6292.85	50.89	-87.07	50.89	100.85	300.31	0.03



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Dustin Wedel
Emerald PWU 20 No. 007H / API 30-015-40587



VES Survey Date: 01/07/2013



Weatherford[®]

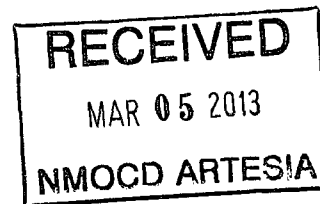
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
333 W. Sherridan Ave
Oklahoma City, OK, 73102

Date: January 16, 2013

Attention: Spencer Stuart

Re: Devon Energy
Well: Emerald PWU 20 #7H
Eddy County, New Mexico



Enclosed, please find the original survey performed on the referenced well by Precision Energy Services, Inc. (P-5 No. 676004), a Weatherford company. Other information required by your office is as follows:

Name & Title Of Surveyor	Well Number	Surveyed Depths	Dates Performed	Type of Survey
Max Martinez MWD Supervisor	7H	6330 MD 11439 MD	1/7/2013 1/16/2013	Measurement While Drilling

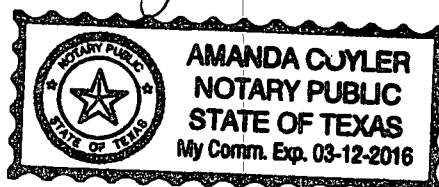
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Coordinator

On this, the 28th day of January, 2013, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Notary Public





Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy Field: Eddy Co., NM (NAD 83) Site: Emerald PWU 20 #7H Well: PWU 20 #7H Wellpath: 1				Date: 1/16/2013 Time: 07:24:00 Page: 1 Co-ordinate(NE) Reference: Well: PWU 20 #7H, Grid North Vertical (TVD) Reference: SITE 3343.0 Section (VS) Reference: Well (0.00N,0.00E,270.12Azi) Survey Calculation Method: Minimum Curvature Db: Sybase							
Survey: Wft Svy Company: Weatherford Tool: MWD:MWD - Standard				Start Date: 1/8/2013 Engineer: Russell W. Joyner Tied-to: User Defined							
Site: Emerald PWU 20 #7H Site Position: From: Map Position Uncertainty: 0.00 ft Ground Level: 3324.00 ft				Northing: 598011.04 ft Easting: 616680.22 ft Latitude: 32 38 37.459 N Longitude: 104 5 18.822 W North Reference: Grid Grid Convergence: 0.13 deg							
Well: PWU 20 #7H Well Position: +N/-S 0.00 ft +E/-W 0.00 ft Position Uncertainty: 0.00 ft				Slot Name: Latitude: 32 38 37.459 N Longitude: 104 5 18.822 W							
Wellpath: 1 Current Datum: SITE Magnetic Data: 11/15/2012 Field Strength: 48695 nT Vertical Section: Depth From (TVD) ft				Drilled From: Surface Tie-on Depth: 0.00 ft Above System Datum: Mean Sea Level Declination: 7.68 deg Mag Dip Angle: 60.45 deg Direction deg 0.00 0.00 0.00 270.12							
Survey											
MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment	
6295.00	3.19	282.90	6292.85	50.89	-87.07	0.00	87.18	598061.93	616593.15	Tie On VES	
6330.00	3.30	282.92	6327.79	51.33	-89.00	0.31	89.11	598062.37	616591.22	Firt Wft Svy	
6362.00	5.67	275.09	6359.69	51.68	-91.47	7.63	91.58	598062.72	616588.75		
6393.00	8.45	271.68	6390.45	51.88	-95.28	9.07	95.38	598062.92	616584.94		
6425.00	12.20	272.60	6421.93	52.10	-101.01	11.73	101.12	598063.14	616579.21		
6456.00	14.36	276.54	6452.10	52.69	-108.10	7.55	108.21	598063.73	616572.12		
6488.00	16.42	277.69	6482.95	53.75	-116.52	6.51	116.64	598064.79	616563.70		
6519.00	18.44	277.41	6512.53	54.97	-125.73	6.52	125.84	598066.01	616554.49		
6551.00	20.68	274.41	6542.68	56.05	-136.38	7.67	136.50	598067.09	616543.84		
6583.00	23.10	270.71	6572.37	56.57	-148.30	8.70	148.41	598067.61	616531.92		
6614.00	25.29	268.51	6600.65	56.47	-161.00	7.64	161.12	598067.51	616519.22		
6646.00	28.03	267.49	6629.24	55.96	-175.35	8.68	175.46	598067.00	616504.87		
6677.00	31.20	267.88	6656.19	55.35	-190.65	10.24	190.77	598066.39	616489.57		
6709.00	33.81	269.93	6683.17	55.03	-207.84	8.85	207.95	598066.07	616472.38		
6740.00	36.30	270.50	6708.55	55.10	-225.64	8.10	225.76	598066.14	616454.58		
6772.00	39.39	270.87	6733.81	55.33	-245.27	9.68	245.39	598066.37	616434.95		
6804.00	42.49	270.63	6757.98	55.61	-266.24	9.70	266.35	598066.65	616413.98		
6835.00	46.37	270.05	6780.12	55.73	-287.93	12.58	288.05	598066.77	616392.29		
6867.00	49.84	269.28	6801.48	55.59	-311.75	10.99	311.86	598066.63	616368.47		
6898.00	53.60	269.62	6820.68	55.36	-336.08	12.16	336.19	598066.40	616344.14		
6930.00	57.25	270.14	6838.84	55.31	-362.42	11.48	362.54	598066.35	616317.80		
6961.00	60.49	271.17	6854.87	55.61	-388.95	10.83	389.07	598066.65	616291.27		
6993.00	64.14	271.50	6869.73	56.27	-417.27	11.44	417.39	598067.31	616262.95		
7025.00	67.46	271.92	6882.85	57.15	-446.45	10.44	446.56	598068.19	616233.77		
7056.00	70.84	271.45	6893.88	58.00	-475.40	10.99	475.52	598069.04	616204.82		
7088.00	74.35	271.74	6903.45	58.85	-505.92	11.00	506.04	598069.89	616174.30		
7119.00	77.80	270.93	6910.91	59.55	-535.99	11.41	536.12	598070.59	616144.23		
7151.00	80.16	269.45	6917.02	59.65	-567.40	8.66	567.52	598070.69	616112.82		
7182.00	82.28	268.11	6921.76	59.00	-598.03	8.06	598.15	598070.04	616082.19		
7213.00	84.11	265.15	6925.43	57.18	-628.75	11.17	628.87	598068.22	616051.47		



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Emerald PWU 20 #7H
Well: PWU 20 #7H
Wellpath: 1

Date: 1/16/2013 Time: 07:24:00 Page: 2
Co-ordinate(NE) Reference: Well: PWU 20 #7H, Grid North
Vertical (TVD) Reference: SITE 3343.0
Section (VS) Reference: Well (0.00N,0.00E,270.12Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	DLS deg/100ft	VS ft	MapN ft	MapE ft	Comment
7245.00	86.01	264.78	6928.19	54.39	-660.51	6.05	660.62	598065.43	616019.71	
7277.00	88.39	265.23	6929.75	51.60	-692.35	7.57	692.45	598062.64	615987.87	
7308.00	89.30	266.74	6930.37	49.43	-723.26	5.69	723.36	598060.47	615956.96	
7340.00	89.93	267.67	6930.59	47.87	-755.22	3.51	755.32	598058.91	615925.00	
7371.00	90.28	268.44	6930.53	46.82	-786.20	2.73	786.30	598057.86	615894.02	
7403.00	90.21	269.46	6930.40	46.24	-818.20	3.19	818.29	598057.28	615862.02	
7498.00	91.54	270.21	6928.94	45.96	-913.18	1.61	913.28	598057.00	615767.04	
7592.00	92.73	271.50	6925.44	47.36	-1007.10	1.87	1007.20	598058.40	615673.12	
7686.00	90.70	271.70	6922.63	49.99	-1101.02	2.17	1101.12	598061.03	615579.20	
7781.00	89.79	270.92	6922.22	52.16	-1195.99	1.26	1196.10	598063.20	615484.23	
7876.00	89.65	271.20	6922.69	53.92	-1290.98	0.33	1291.09	598064.96	615389.24	
7970.00	89.79	270.55	6923.15	55.35	-1384.96	0.71	1385.08	598066.39	615295.26	
8065.00	88.32	270.50	6924.71	56.22	-1479.94	1.55	1480.06	598067.26	615200.28	
8160.00	88.25	269.47	6927.56	56.20	-1574.90	1.09	1575.01	598067.24	615105.32	
8254.00	90.63	267.85	6928.48	54.00	-1668.86	3.06	1668.97	598065.04	615011.36	
8348.00	91.12	268.14	6927.04	50.71	-1762.79	0.61	1762.89	598061.75	614917.43	
8443.00	91.40	268.72	6924.95	48.11	-1857.73	0.68	1857.83	598059.15	614822.49	
8538.00	91.19	268.60	6922.80	45.89	-1952.68	0.25	1952.77	598056.93	614727.54	
8632.00	91.68	267.88	6920.45	43.00	-2046.61	0.93	2046.69	598054.04	614633.61	
8727.00	90.07	267.44	6919.00	39.12	-2141.51	1.76	2141.59	598050.16	614538.71	
8821.00	90.77	268.33	6918.31	35.65	-2235.44	1.20	2235.51	598046.69	614444.78	
8916.00	92.80	269.08	6915.35	33.51	-2330.37	2.28	2330.43	598044.55	614349.85	
9010.00	93.22	269.51	6910.42	32.35	-2424.23	0.64	2424.29	598043.39	614255.99	
9105.00	93.78	270.32	6904.62	32.21	-2519.05	1.04	2519.11	598043.25	614161.17	
9200.00	93.99	270.47	6898.18	32.86	-2613.83	0.27	2613.90	598043.90	614066.39	
9295.00	91.89	268.93	6893.31	32.37	-2708.70	2.74	2708.76	598043.41	613971.52	
9389.00	91.68	269.22	6890.38	30.85	-2802.64	0.38	2802.70	598041.89	613877.58	
9484.00	91.75	269.34	6887.53	29.66	-2897.59	0.15	2897.65	598040.70	613782.63	
9579.00	91.19	269.36	6885.10	28.58	-2992.55	0.59	2992.61	598039.62	613687.67	
9673.00	92.66	269.12	6881.94	27.33	-3086.49	1.58	3086.54	598038.37	613593.73	
9768.00	94.20	270.18	6876.26	26.75	-3181.31	1.97	3181.36	598037.79	613498.91	
9863.00	91.47	268.91	6871.56	26.00	-3276.18	3.17	3276.23	598037.04	613404.04	
9957.00	91.26	268.88	6869.32	24.19	-3370.14	0.23	3370.18	598035.23	613310.08	
10052.00	91.12	268.76	6867.35	22.23	-3465.10	0.19	3465.14	598033.27	613215.12	
10146.00	93.15	270.20	6863.84	21.38	-3559.02	2.65	3559.06	598032.42	613121.20	
10241.00	93.15	268.99	6858.62	20.71	-3653.87	1.27	3653.91	598031.75	613026.35	
10335.00	92.80	269.82	6853.74	19.73	-3747.74	0.96	3747.77	598030.77	612932.48	
10430.00	92.87	270.19	6849.05	19.74	-3842.62	0.40	3842.66	598030.78	612837.60	
10524.00	93.16	270.43	6844.10	20.25	-3936.49	0.40	3936.53	598031.29	612743.73	
10619.00	92.38	270.62	6839.51	21.12	-4031.38	0.85	4031.41	598032.16	612648.84	
10714.00	91.75	270.74	6836.09	22.24	-4126.31	0.68	4126.34	598033.28	612553.91	
10809.00	89.86	270.54	6834.75	23.31	-4221.29	2.00	4221.33	598034.35	612458.93	
10903.00	90.63	270.58	6834.35	24.22	-4315.28	0.82	4315.32	598035.26	612364.94	
10998.00	91.61	271.35	6832.49	25.82	-4410.25	1.31	4410.29	598036.86	612269.97	
11093.00	91.33	271.50	6830.06	28.19	-4505.19	0.33	4505.24	598039.23	612175.03	
11188.00	91.47	270.86	6827.74	30.14	-4600.14	0.69	4600.19	598041.18	612080.08	
11282.00	91.54	270.57	6825.27	31.31	-4694.10	0.32	4694.15	598042.35	611986.12	
11377.00	91.47	270.90	6822.77	32.53	-4789.06	0.35	4789.12	598043.57	611891.16	
11439.00	93.01	271.63	6820.35	33.90	-4850.99	2.75	4851.05	598044.94	611829.23	Last Wft Svy
11505.00	93.01	271.63	6816.88	35.77	-4916.88	0.00	4916.94	598046.81	611763.34	Proj. To Bit



Weatherford

Wft Survey Report X Y's.



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Emerald PWU 20 #7H
Well: PWU 20 #7H
Wellpath: 1

Date: 1/16/2013 Time: 07:24:00 Page: 3
Co-ordinate(NE) Reference: Well: PWU 20 #7H, Grid North
Vertical (TVD) Reference: SITE 3343.0
Section (VS) Reference: Well (0.00N,0.00E,270.12Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
6295.00	6292.85	Tie On VES
6330.00	6327.79	Firt Wft Svy
11439.00	6820.35	Last Wft Svy
11505.00	6816.88	Proj. To Bit



Emerald PWU 20 #7H
Eddy Co, NM



KB ELEV: 3443
GL ELEV: 3324

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	6295.00	3.19	282.90	6292.85	50.89	-87.07	0.00	0.00	87.18	
2	6395.00	3.19	282.90	6392.69	52.13	-92.49	0.00	0.00	92.60	
3	7269.40	90.89	269.42	6932.37	53.42	-671.26	10.04	-13.49	671.37	
4	9348.44	90.89	269.42	6900.00	32.46	-2749.94	0.00	0.00	2750.00	
5	9398.61	92.40	269.42	6898.56	31.95	-2800.09	3.00	-0.02	2800.15	
6	11515.94	92.40	269.42	6810.00	10.60	-4915.46	0.00	0.00	4915.47	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PWU 20 #7H	0.00	0.00	598011.04	616680.22	32°38'37.459N	104°05'18.822W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	6810.00	10.60	-4915.46	598021.64	611764.76	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

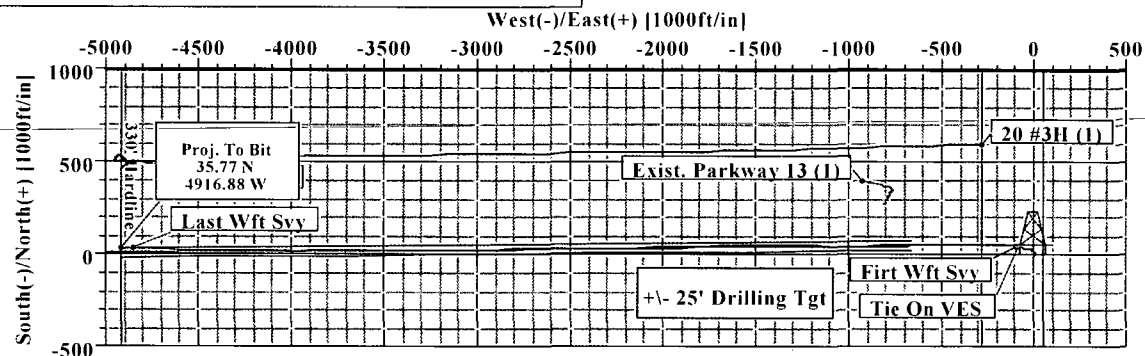
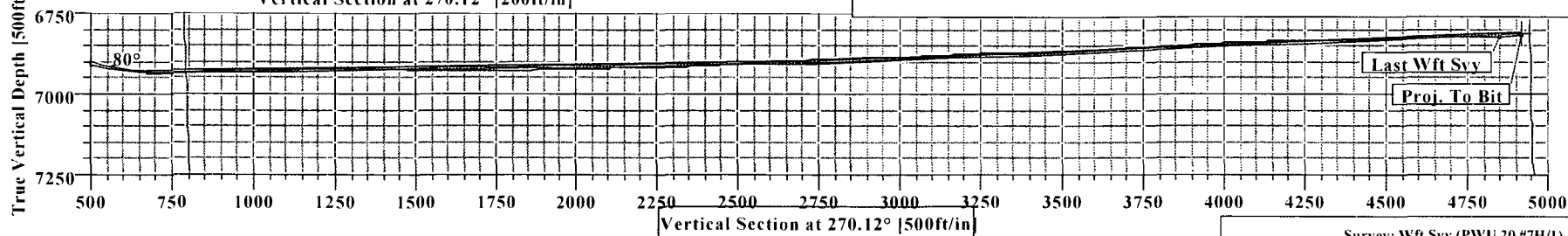
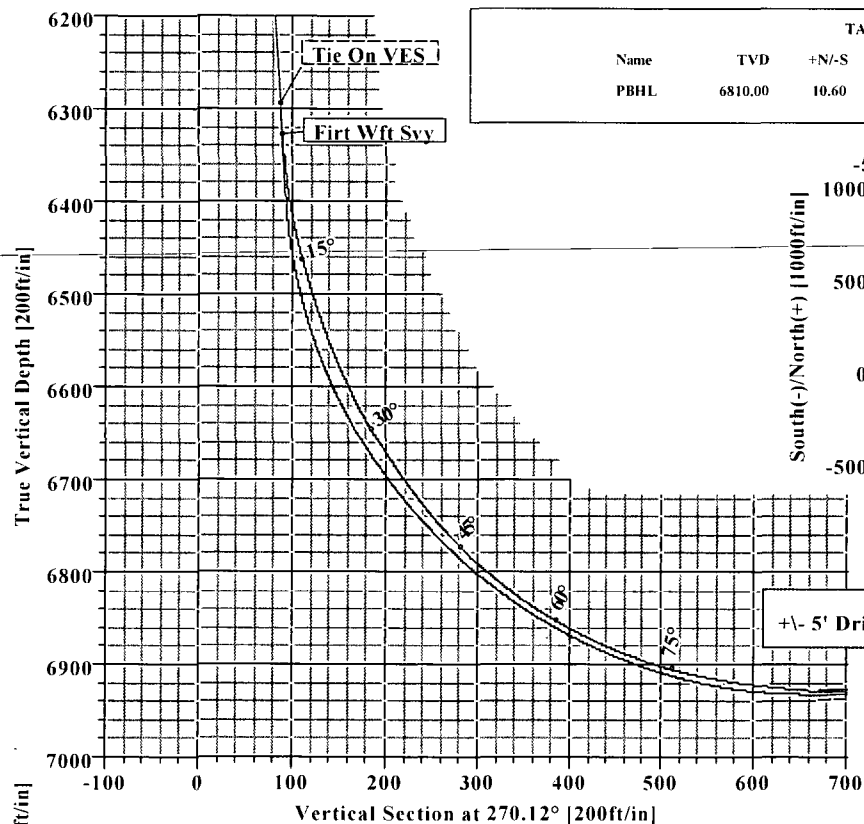
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Emerald PWU 20 #7H

Site Centre Northing: 598011.04
Easting: 616680.22

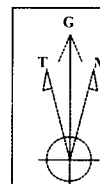
Ground Level: 3324.00
Positional Uncertainty: 0.00
Convergence: 0.13



Weatherford

LEGEND

- PWU 20 #7H.1.Gyro
- PWU 20 #7H.1.Plan #4
- 20 #3H (1)
- Exist. Parkway 13 (1)
- Wft Svy



Azimuths to Grid North
True North: -0.13°
Magnetic North: 7.55°

Magnetic Field
Strength: 48695nT
Dip Angle: 60.45°
Date: 11/15/2012
Model: IGRF2010

Total Correction to Grid North: 7.55°

Survey: Wft Svy (PWU 20 #7H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
80	11505.00	93.01	271.63	6816.88	35.77	-4916.88	0.00	0.00	4916.94

Survey: Wft Svy (PWU 20 #7H/1)

Created By: Russell W. Joyner

Date: 1/16/2013