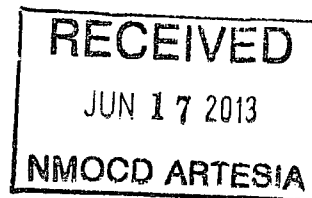


A GYRO TECHNOLOGIES INC. COMPANY

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

February 27, 2013



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

15- 40583

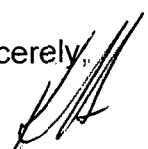
Attn: Patti Riechers

Re: **Turquoise PWU 27 No 005H**

Please find enclosed a copy of the survey from 0' to 6,526' ran on the above referenced well.

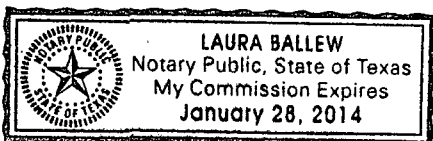
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

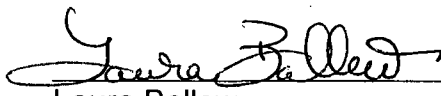
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 27th day of February, A.D., 2013, by Keith Havelka.





Laura Ballew
Notary Public, State of Texas



Company: Devon Energy Production Co., LP
Lease/Well: Turquoise PWU 27/No 005H

Rig Name: McVay #6
State/County: Texas/Eddy
Latitude: 32.64, Longitude: -104.05
GRID North is 0.15 Degrees East of True North
VS-Azi: 0.00 Degrees



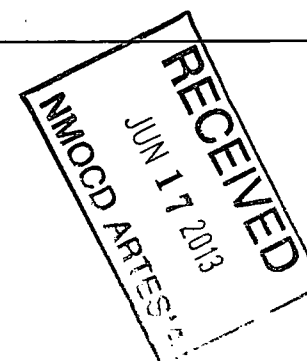
Depth Reference : RKB = 18ft

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: final.ut
Minimum Curvature Method
Report Date/Time: 2/27/2013 / 12:35

Vaughn Energy Services
Fort Worth, Texas
817-741-3610

Surveyor: Jay Carroll
Turquoise PWU 27 No 005H / API 30-015-40583



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	1.76	150.13	99.98	-1.33	0.76	-1.33	1.54	150.13	1.76
200.00	1.75	154.43	199.94	-4.04	2.19	-4.04	4.60	151.56	0.13
300.00	1.04	168.27	299.91	-6.31	3.04	-6.31	7.00	154.32	0.79
400.00	0.68	170.98	399.90	-7.79	3.31	-7.79	8.46	156.95	0.36
500.00	0.52	155.89	499.89	-8.79	3.59	-8.79	9.49	157.77	0.23
600.00	0.30	118.07	599.89	-9.33	4.01	-9.33	10.15	156.74	0.34
700.00	0.44	44.50	699.89	-9.17	4.51	-9.17	10.22	153.81	0.46
800.00	1.22	45.08	799.87	-8.15	5.53	-8.15	9.85	145.81	0.77
900.00	1.68	46.67	899.84	-6.39	7.35	-6.39	9.74	131.02	0.46
1000.00	2.23	47.69	999.78	-4.08	9.85	-4.08	10.67	112.48	0.56
1100.00	2.56	54.17	1099.70	-1.46	13.11	-1.46	13.19	96.35	0.42
1200.00	2.94	69.60	1199.58	0.74	17.32	0.74	17.34	87.55	0.83
1300.00	2.95	72.30	1299.45	2.42	22.18	2.42	22.31	83.78	0.14
1400.00	1.81	73.89	1399.36	3.64	26.15	3.64	26.40	82.07	1.14
1500.00	1.35	78.52	1499.32	4.31	28.82	4.31	29.14	81.49	0.48
1600.00	0.73	92.97	1599.31	4.51	30.61	4.51	30.94	81.61	0.67
1700.00	0.69	93.75	1699.30	4.44	31.84	4.44	32.15	82.06	0.05
1800.00	0.46	94.66	1799.29	4.37	32.84	4.37	33.13	82.42	0.22

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	0.40	100.55	1899.29	4.27	33.59	4.27	33.86	82.75	0.08
2000.00	0.40	112.58	1999.29	4.07	34.26	4.07	34.50	83.22	0.08
2100.00	0.26	106.57	2099.29	3.87	34.80	3.87	35.02	83.65	0.15
2200.00	0.20	103.03	2199.29	3.77	35.19	3.77	35.39	83.88	0.06
2300.00	0.25	97.50	2299.29	3.70	35.57	3.70	35.76	84.06	0.05
2400.00	0.23	353.53	2399.29	3.87	35.76	3.87	35.97	83.82	0.37
2500.00	0.42	342.08	2499.28	4.41	35.63	4.41	35.90	82.94	0.20
2600.00	0.56	330.38	2599.28	5.19	35.27	5.19	35.65	81.64	0.17
2700.00	0.50	315.67	2699.28	5.92	34.73	5.92	35.23	80.33	0.15
2800.00	0.27	317.38	2799.27	6.40	34.27	6.40	34.86	79.42	0.23
2900.00	0.53	334.56	2899.27	6.99	33.91	6.99	34.63	78.35	0.29
3000.00	0.58	325.41	2999.27	7.83	33.42	7.83	34.33	76.82	0.10
3100.00	0.63	325.33	3099.26	8.70	32.83	8.70	33.96	75.16	0.04
3200.00	0.80	322.55	3199.25	9.70	32.09	9.70	33.52	73.18	0.18
3300.00	0.54	318.18	3299.25	10.61	31.35	10.61	33.09	71.30	0.26
3400.00	0.48	336.65	3399.24	11.35	30.87	11.35	32.89	69.81	0.18
3500.00	0.63	328.39	3499.24	12.20	30.41	12.20	32.77	68.14	0.17
3600.00	0.64	325.81	3599.23	13.13	29.81	13.13	32.57	66.23	0.03
3700.00	0.66	323.58	3699.23	14.05	29.15	14.05	32.37	64.26	0.04
3800.00	0.89	321.28	3799.22	15.13	28.33	15.13	32.11	61.90	0.23
3900.00	1.06	320.53	3899.20	16.45	27.25	16.45	31.83	58.89	0.17
4000.00	1.12	318.78	3999.18	17.90	26.02	17.90	31.58	55.48	0.07
4100.00	1.10	340.19	4099.17	19.54	25.05	19.54	31.77	52.05	0.41
4200.00	1.34	340.86	4199.14	21.54	24.34	21.54	32.50	48.49	0.23
4300.00	1.63	342.52	4299.11	24.00	23.53	24.00	33.61	44.43	0.30
4400.00	1.85	341.73	4399.06	26.89	22.60	26.89	35.13	40.04	0.22
4500.00	1.72	339.07	4499.01	29.83	21.56	29.83	36.80	35.86	0.16
4600.00	1.71	334.36	4598.97	32.57	20.37	32.57	38.42	32.03	0.14
4700.00	1.64	331.94	4698.93	35.18	19.05	35.18	40.01	28.44	0.10
4800.00	1.94	331.26	4798.88	37.92	17.57	37.92	41.80	24.86	0.30
4900.00	1.90	328.33	4898.82	40.81	15.89	40.81	43.80	21.27	0.10
5000.00	1.93	325.74	4998.77	43.61	14.07	43.61	45.83	17.88	0.09
5100.00	2.03	323.72	5098.71	46.43	12.08	46.43	47.97	14.58	0.12
5200.00	2.03	308.39	5198.64	48.96	9.64	48.96	49.90	11.14	0.54
5300.00	2.24	303.19	5298.58	51.13	6.61	51.13	51.56	7.37	0.28
5400.00	2.52	309.95	5398.49	53.61	3.29	53.61	53.71	3.51	0.39
5500.00	2.69	310.31	5498.39	56.54	-0.18	56.54	56.54	359.81	0.18
5600.00	2.72	310.44	5598.27	59.60	-3.78	59.60	59.72	356.37	0.02
5700.00	2.57	316.12	5698.17	62.75	-7.13	62.75	63.15	353.51	0.30

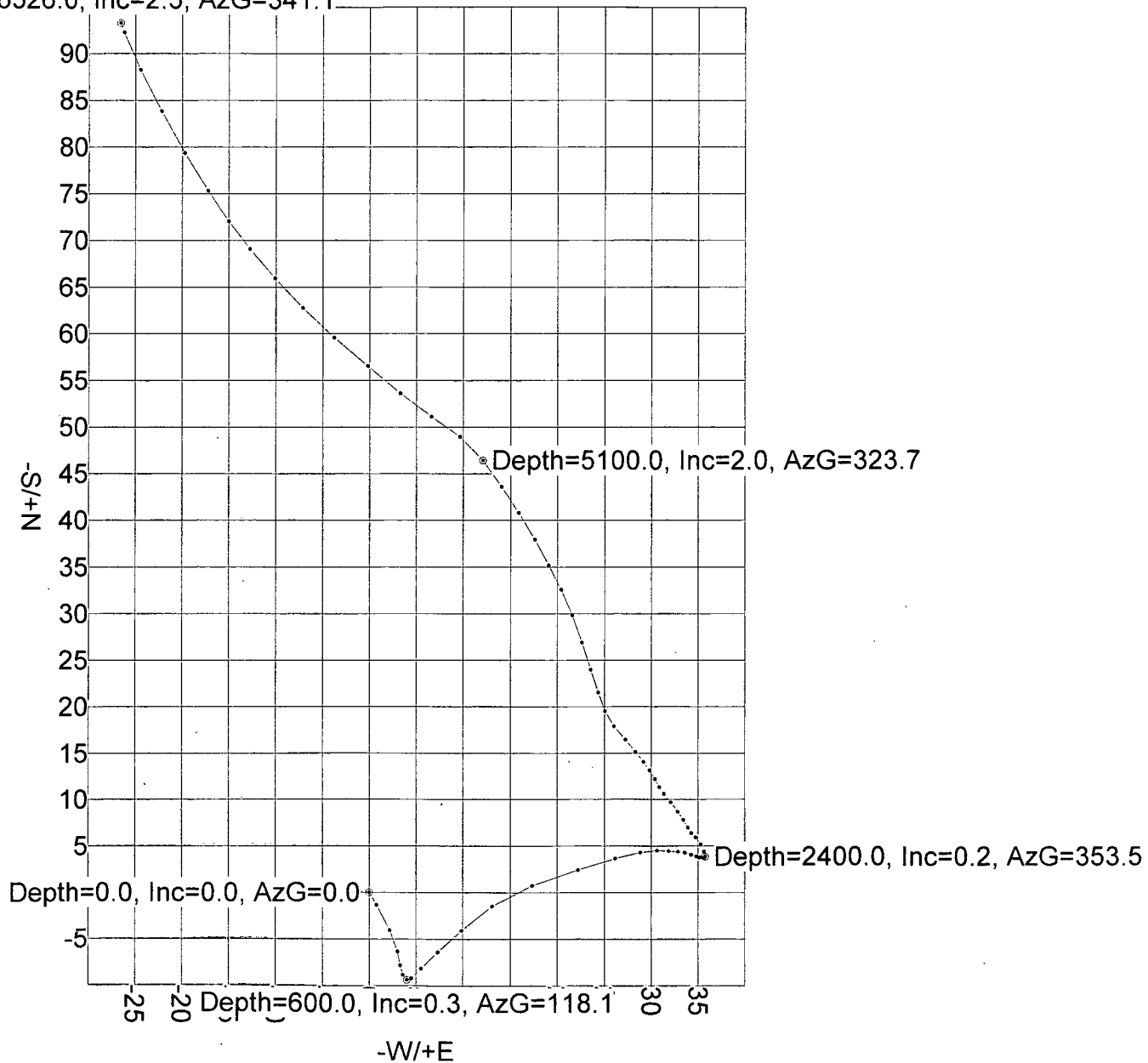
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
5800.00	2.44	318.32	5798.07	65.95	-10.10	65.95	66.72	351.29	0.16
5900.00	2.27	320.98	5897.99	69.08	-12.77	69.08	70.25	349.53	0.20
6000.00	1.98	324.79	5997.92	72.04	-15.01	72.04	73.58	348.23	0.33
6100.00	2.56	326.99	6097.84	75.32	-17.22	75.32	77.26	347.12	0.59
6200.00	2.88	329.85	6197.73	79.36	-19.70	79.36	81.77	346.06	0.35
6300.00	3.00	331.83	6297.60	83.84	-22.20	83.84	86.73	345.17	0.16
6400.00	2.69	334.53	6397.47	88.26	-24.44	88.26	91.59	344.52	0.34
6500.00	2.31	339.29	6497.38	92.27	-26.16	92.27	95.91	344.17	0.43
6526.00	2.47	341.15	6523.35	93.29	-26.53	93.29	96.99	344.13	0.68



Vaughn Energy Services
Fort Worth, Texas
817-741-3610
Surveyor: Jay Carroll
Turquoise PWU 27 No 005H / API 30-015-40583



Depth=6526.0, Inc=2.5, AzG=341.1



VES Survey Date: 02/23/2013



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: March 4, 2013

Attention: Spencer Stuart

Re: Devon Energy
Well: Turquoise PWU 27-5H
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:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Justin Nguyen MWD Supervisor	5H	6595' MD 11739' MD	2/22/2013 3/3/2013	Measurement While Drilling

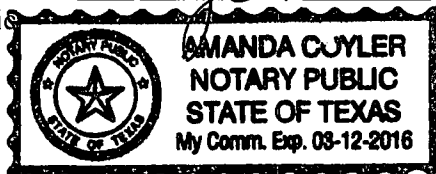
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Coordinator

On this, the 5th day of March, 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 Date: 3/4/2013 Time: 06:24:59 Page: 1
Field: Eddy Co. NM (NAD 83) Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid: North
Site: Turquoise PWU 27 #5H Vertical (TVD) Reference: SITE 3357.0
Well: Turquoise PWU 27 #5H Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 2/25/2013
Company: Weatherford Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard Tied-to: User Defined

Site: Turquoise PWU 27 #5H

Site Position: Northing: 595300.10 ft Latitude: 32 38 10.376 N
From: Map Easting: 627234.40 ft Longitude: 104 3 15.467 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3338.00 ft Grid Convergence: 0.15 deg

Well: Turquoise PWU 27 #5H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 595300.10 ft Latitude: 32 38 10.376 N
+E/-W 0.00 ft Easting: 627234.40 ft Longitude: 104 3 15.467 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3357.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 3/15/2013 Above System Datum: Mean Sea Level
Field Strength: 48662 nT Declination: 7.63 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
ft ft ft deg
0.00 0.00 0.00 277.79

Survey

MD	Incl	Azim	TVD	N/S	E/W	DLS	VS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	deg/100ft	ft	ft	ft	
6526.00	2.47	341.15	6523.35	93.29	-26.53	0.00	38.93	595393.39	627207.87	Tie On VES
6595.00	2.29	347.44	6592.29	96.04	-27.31	0.46	40.08	595396.14	627207.09	First Wft Svy
6626.00	2.13	351.11	6623.27	97.22	-27.53	0.69	40.46	595397.32	627206.87	
6658.00	3.20	313.52	6655.24	98.42	-28.27	6.23	41.35	595398.52	627206.13	
6689.00	7.14	291.34	6686.11	99.72	-30.70	14.02	43.93	595399.82	627203.70	
6721.00	11.74	287.31	6717.67	101.41	-35.66	14.51	49.08	595401.51	627198.74	
6753.00	16.19	286.84	6748.71	103.67	-43.04	13.91	56.70	595403.77	627191.36	
6784.00	20.39	284.44	6778.14	106.27	-52.41	13.76	66.33	595406.37	627181.99	
6816.00	24.05	281.84	6807.76	109.00	-64.20	11.84	78.38	595409.10	627170.20	
6847.00	27.04	278.62	6835.73	111.35	-77.35	10.63	91.73	595411.45	627157.05	
6879.00	30.67	276.67	6863.75	113.39	-92.65	11.72	107.17	595413.49	627141.75	
6910.00	34.10	276.77	6889.93	115.34	-109.14	11.07	123.77	595415.44	627125.26	
6942.00	37.08	276.48	6915.95	117.48	-127.64	9.33	142.38	595417.58	627106.76	
6974.00	38.95	277.19	6941.16	119.83	-147.20	6.00	162.09	595419.93	627087.20	
7005.00	41.48	277.65	6964.83	122.42	-167.05	8.22	182.10	595422.52	627067.35	
7037.00	43.63	277.76	6988.40	125.32	-188.49	6.72	203.74	595425.42	627045.91	
7068.00	46.09	277.29	7010.37	128.18	-210.17	8.01	225.60	595428.28	627024.23	
7100.00	48.58	276.74	7032.06	131.05	-233.52	7.88	249.13	595431.15	627000.88	
7131.00	51.86	277.23	7051.89	133.95	-257.17	10.65	272.95	595434.05	626977.23	
7163.00	55.75	278.17	7070.78	137.42	-282.75	12.39	298.77	595437.52	626951.65	
7194.00	58.65	279.01	7087.57	141.31	-308.51	9.63	324.82	595441.41	626925.89	
7226.00	61.41	279.38	7103.56	145.74	-335.88	8.68	352.53	595445.84	626898.52	
7257.00	64.69	278.92	7117.60	150.13	-363.15	10.66	380.15	595450.23	626871.25	
7288.00	68.73	278.37	7129.86	154.41	-391.30	13.13	408.62	595454.51	626843.10	
7320.00	72.97	277.65	7140.35	158.62	-421.23	13.42	438.84	595458.72	626813.17	
7351.00	76.88	277.46	7148.42	162.55	-450.89	12.63	468.77	595462.65	626783.51	
7383.00	79.17	277.10	7155.05	166.52	-481.94	7.24	500.07	595466.62	626752.46	
7415.00	82.63	276.46	7160.11	170.25	-513.31	10.99	531.65	595470.35	626721.09	
7446.00	86.15	276.50	7163.14	173.73	-543.96	11.36	562.49	595473.83	626690.44	
7476.00	89.51	274.98	7164.28	176.73	-573.79	12.29	592.45	595476.83	626660.61	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Turquoise PWU 27 #5H
Well: Turquoise PWU 27 #5H
Wellpath: 1

Date: 3/4/2013 Time: 06:24:59 Page: 2
Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid North
Vertical (TVD) Reference: SITE 3357.0
Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)
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
7508.00	92.31	275.45	7163.77	179.63	-605.65	8.87	624.41	595479.73	626628.75	
7603.00	93.08	275.11	7159.31	188.37	-700.14	0.89	719.21	595488.47	626534.26	
7698.00	92.24	275.46	7154.90	197.11	-794.63	0.96	814.02	595497.21	626439.77	
7792.00	91.05	275.88	7152.20	206.39	-888.13	1.34	907.91	595506.49	626346.27	
7887.00	90.63	276.63	7150.81	216.74	-982.56	0.90	1002.87	595516.84	626251.84	
7982.00	90.49	277.04	7149.88	228.05	-1076.88	0.46	1097.85	595528.15	626157.52	
8076.00	90.63	276.96	7148.96	239.50	-1170.17	0.17	1191.83	595539.60	626064.23	
8171.00	90.56	277.00	7147.97	251.04	-1264.46	0.08	1286.82	595551.14	625969.94	
8266.00	90.42	277.08	7147.16	262.69	-1358.74	0.17	1381.81	595562.79	625875.66	
8360.00	91.19	277.12	7145.84	274.31	-1452.01	0.82	1475.79	595574.41	625782.39	
8455.00	91.33	277.04	7143.75	286.01	-1546.26	0.17	1570.76	595586.11	625688.14	
8549.00	89.23	276.97	7143.29	297.47	-1639.56	2.24	1664.75	595597.57	625594.84	
8643.00	88.18	276.77	7145.41	308.72	-1732.86	1.14	1758.71	595608.82	625501.54	
8738.00	88.74	276.60	7147.97	319.77	-1827.17	0.62	1853.66	595619.87	625407.23	
8832.00	89.37	276.07	7149.52	330.14	-1920.59	0.88	1947.61	595630.24	625313.81	
8926.00	89.44	275.69	7150.49	339.77	-2014.09	0.41	2041.55	595639.87	625220.31	
9021.00	89.72	275.66	7151.19	349.16	-2108.62	0.30	2136.49	595649.26	625125.78	
9116.00	92.03	276.10	7149.74	358.89	-2203.10	2.48	2231.42	595658.99	625031.30	
9210.00	92.03	276.45	7146.41	369.16	-2296.48	0.37	2325.32	595669.26	624937.92	
9305.00	91.82	276.40	7143.22	379.79	-2390.83	0.23	2420.24	595679.89	624843.57	
9399.00	91.61	276.70	7140.41	390.51	-2484.17	0.39	2514.18	595690.61	624750.23	
9493.00	91.26	276.42	7138.05	401.24	-2577.53	0.48	2608.13	595701.34	624656.87	
9587.00	91.61	276.18	7135.70	411.55	-2670.93	0.45	2702.07	595711.65	624563.47	
9681.00	92.45	276.36	7132.37	421.81	-2764.31	0.91	2795.97	595721.91	624470.09	
9776.00	92.10	275.90	7128.60	431.95	-2858.69	0.61	2890.86	595732.05	624375.71	
9871.00	92.80	276.78	7124.54	442.43	-2953.02	1.18	2985.74	595742.53	624281.38	
9965.00	92.66	276.90	7120.06	453.61	-3046.25	0.20	3079.62	595753.71	624188.15	
10059.00	92.45	276.84	7115.87	464.84	-3139.48	0.23	3173.51	595764.94	624094.92	
10153.00	91.26	275.41	7112.83	474.87	-3232.89	1.98	3267.42	595774.97	624001.51	
10248.00	90.84	275.67	7111.08	484.04	-3327.43	0.52	3362.33	595784.14	623906.97	
10342.00	91.89	276.34	7108.85	493.87	-3420.89	1.32	3456.26	595793.97	623813.51	
10437.00	91.33	276.35	7106.18	504.36	-3515.27	0.59	3551.19	595804.46	623719.13	
10531.00	91.12	276.49	7104.17	514.87	-3608.66	0.27	3645.14	595814.97	623625.74	
10626.00	90.77	276.87	7102.60	525.92	-3703.00	0.54	3740.11	595826.02	623531.40	
10721.00	91.33	277.54	7100.86	537.83	-3797.23	0.92	3835.09	595837.93	623437.17	
10815.00	92.03	277.78	7098.10	550.36	-3890.35	0.79	3929.05	595850.46	623344.05	
10910.00	91.89	277.68	7094.85	563.13	-3984.43	0.18	4023.99	595863.23	623249.97	
11005.00	92.17	277.34	7091.49	575.54	-4078.56	0.46	4118.93	595875.64	623155.84	
11100.00	92.59	277.08	7087.54	587.45	-4172.73	0.52	4213.84	595887.55	623061.67	
11193.00	92.52	277.13	7083.40	598.94	-4264.92	0.09	4306.74	595899.04	622969.48	
11288.00	92.03	276.93	7079.63	610.56	-4359.13	0.56	4401.66	595910.66	622875.27	
11382.00	93.08	277.31	7075.44	622.20	-4452.31	1.19	4495.56	595922.30	622782.09	
11477.00	92.45	276.33	7070.85	633.47	-4546.53	1.23	4590.43	595933.57	622687.87	
11571.00	90.84	274.80	7068.16	642.58	-4640.04	2.36	4684.32	595942.68	622594.36	
11666.00	90.77	275.36	7066.82	650.99	-4734.66	0.59	4779.20	595951.09	622499.74	
11739.00	89.93	274.53	7066.37	657.28	-4807.38	1.62	4852.11	595957.38	622427.02	Last Wft Svy
11814.00	89.93	274.53	7066.47	663.20	-4882.15	0.00	4926.99	595963.30	622352.25	Proj. To Bit



Weatherford

WFT Survey Report X & Y's



Weatherford

Company: Devon Energy	Date: 3/4/2013	Time: 06:24:59	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid North		
Site: Turquoise PWU 27 #5H	Vertical (TVD) Reference: SITE 3357.0		
Well: Turquoise PWU 27 #5H	Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		
		Db: Sybase	

Annotation

MD ft	TVD ft	
6526.00	6523.35	Tie On VES
6595.00	6592.29	First Wft Svy
11739.00	7066.37	Last Wft Svy
11814.00	7066.47	Proj. To Bit



Turquoise PWU 27 #5H Eddy Co, NM

KB ELEV: 3357
GL ELEV: 3338

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8738.00	88.74	276.60	7147.97	319.77	-1827.17	0.00	0.00	1853.66	
2	8829.84	91.49	276.50	7147.78	330.25	-1918.41	3.00	-1.98	1945.46	
3	11814.02	91.49	276.50	7070.00	668.20	-4882.37	0.00	0.00	4927.88	PBHL

SITE DETAILS

Turquoise PWU 27 #5H
Site Centre Northing: 595300.10
Easting: 627234.40
Ground Level: 3338.00
Positional Uncertainty: 0.00
Convergence: 0.15

WELL DETAILS

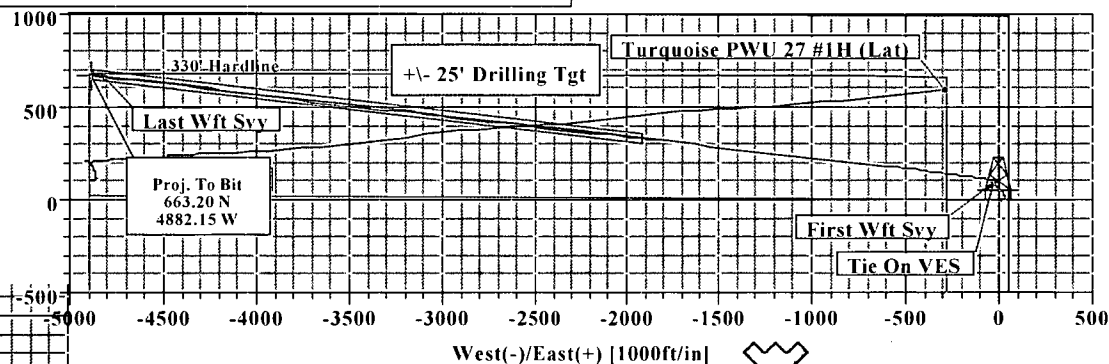
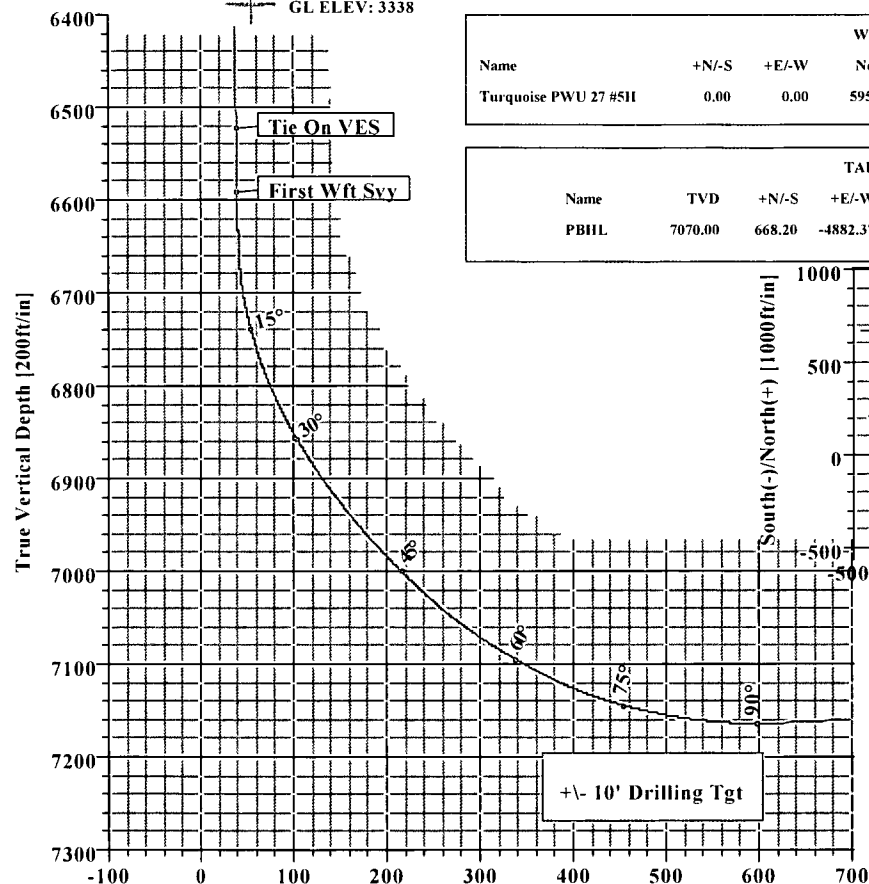
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Turquoise PWU 27 #5H	0.00	0.00	595300.10	627234.40	32°38'10.376N	104°03'15.467W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7070.00	668.20	-4882.37	595968.30	622352.03	Rectangle (2984x50)

LEGEND

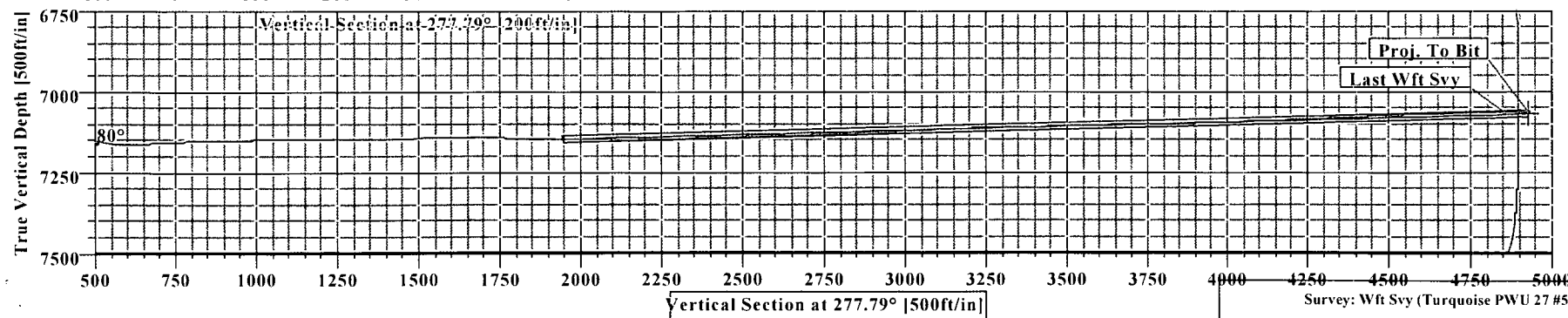
- Turquoise PWU 27 #5H.1.Gyro
- Turquoise PWU 27 #5H.1.Plan #4
- Turquoise PWU 27 #1H (Lat)
- Wft Svy



Weatherford

Survey: Wft Svy (Turquoise PWU 27 #5H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
77	11814.00	89.93	274.53	7066.47	663.20	-4882.15	0.00	0.00	4926.99



Created By: Russell W. Joyner

Date: 3/4/2013



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: March 4, 2013

Attention: Spencer Stuart

Re: Devon Energy
Well: Turquoise PWU 27-5H
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:

<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Justin Nguyen MWD Supervisor	5H	6595' MD 11739' MD	2/22/2013 3/3/2013	Measurement While Drilling

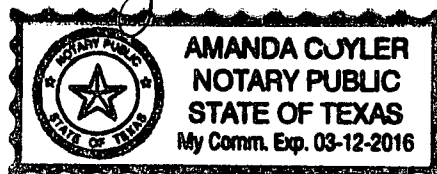
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
MWD Coordinator

On this, the 5th day of March, 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	Date: 3/4/2013	Time: 06:24:59	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid North		
Site: Turquoise PWU 27 #5H	Vertical (TVD) Reference: SITE 3357.0		
Well: Turquoise PWU 27 #5H	Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature Db: Sybase		

Survey: Wft Svy	Start Date: 2/25/2013
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: User Defined

Site: Turquoise PWU 27 #5H
Site Position: Northing: 595300.10 ft Latitude: 32 38 10.376 N
From: Map Easting: 627234.40 ft Longitude: 104 3 15.467 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3338.00 ft Grid Convergence: 0.15 deg

Well: Turquoise PWU 27 #5H	Slot Name:
Well Position: +N/-S 0.00 ft Northing: 595300.10 ft Latitude: 32 38 10.376 N	
+E/-W 0.00 ft Easting: 627234.40 ft Longitude: 104 3 15.467 W	
Position Uncertainty: 0.00 ft	

Wellpath: 1	Drilled From: Surface
Current Datum: SITE	Tie-on Depth: 0.00 ft
Magnetic Data: 3/15/2013	Above System Datum: Mean Sea Level
Field Strength: 48662 nT	Declination: 7.63 deg
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.44 deg
ft	+E/-W
	Direction
	deg
0.00	0.00
0.00	277.79

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
6526.00	2.47	341.15	6523.35	93.29	-26.53	0.00	38.93	595393.39	627207.87	Tie On VES
6595.00	2.29	347.44	6592.29	96.04	-27.31	0.46	40.08	595396.14	627207.09	First Wft Svy
6626.00	2.13	351.11	6623.27	97.22	-27.53	0.69	40.46	595397.32	627206.87	
6658.00	3.20	313.52	6655.24	98.42	-28.27	6.23	41.35	595398.52	627206.13	
6689.00	7.14	291.34	6686.11	99.72	-30.70	14.02	43.93	595399.82	627203.70	
6721.00	11.74	287.31	6717.67	101.41	-35.66	14.51	49.08	595401.51	627198.74	
6753.00	16.19	286.84	6748.71	103.67	-43.04	13.91	56.70	595403.77	627191.36	
6784.00	20.39	284.44	6778.14	106.27	-52.41	13.76	66.33	595406.37	627181.99	
6816.00	24.05	281.84	6807.76	109.00	-64.20	11.84	78.38	595409.10	627170.20	
6847.00	27.04	278.62	6835.73	111.35	-77.35	10.63	91.73	595411.45	627157.05	
6879.00	30.67	276.67	6863.75	113.39	-92.65	11.72	107.17	595413.49	627141.75	
6910.00	34.10	276.77	6889.93	115.34	-109.14	11.07	123.77	595415.44	627125.26	
6942.00	37.08	276.48	6915.95	117.48	-127.64	9.33	142.38	595417.58	627106.76	
6974.00	38.95	277.19	6941.16	119.83	-147.20	6.00	162.09	595419.93	627087.20	
7005.00	41.48	277.65	6964.83	122.42	-167.05	8.22	182.10	595422.52	627067.35	
7037.00	43.63	277.76	6988.40	125.32	-188.49	6.72	203.74	595425.42	627045.91	
7068.00	46.09	277.29	7010.37	128.18	-210.17	8.01	225.60	595428.28	627024.23	
7100.00	48.58	276.74	7032.06	131.05	-233.52	7.88	249.13	595431.15	627000.88	
7131.00	51.86	277.23	7051.89	133.95	-257.17	10.65	272.95	595434.05	626977.23	
7163.00	55.75	278.17	7070.78	137.42	-282.75	12.39	298.77	595437.52	626951.65	
7194.00	58.65	279.01	7087.57	141.31	-308.51	9.63	324.82	595441.41	626925.89	
7226.00	61.41	279.38	7103.56	145.74	-335.88	8.68	352.53	595445.84	626898.52	
7257.00	64.69	278.92	7117.60	150.13	-363.15	10.66	380.15	595450.23	626871.25	
7288.00	68.73	278.37	7129.86	154.41	-391.30	13.13	408.62	595454.51	626843.10	
7320.00	72.97	277.65	7140.35	158.62	-421.23	13.42	438.84	595458.72	626813.17	
7351.00	76.88	277.46	7148.42	162.55	-450.89	12.63	468.77	595462.65	626783.51	
7383.00	79.17	277.10	7155.05	166.52	-481.94	7.24	500.07	595466.62	626752.46	
7415.00	82.63	276.46	7160.11	170.25	-513.31	10.99	531.65	595470.35	626721.09	
7446.00	86.15	276.50	7163.14	173.73	-543.96	11.36	562.49	595473.83	626690.44	
7476.00	89.51	274.98	7164.28	176.73	-573.79	12.29	592.45	595476.83	626660.61	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Turquoise PWU 27 #5H
Well: Turquoise PWU 27 #5H
Wellpath: 1

Date: 3/4/2013 Time: 06:24:59 Page: 2
Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid North
Vertical (TVD) Reference: SITE 3357.0
Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)
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
7508.00	92.31	275.45	7163.77	179.63	-605.65	8.87	624.41	595479.73	626628.75	
7603.00	93.08	275.11	7159.31	188.37	-700.14	0.89	719.21	595488.47	626534.26	
7698.00	92.24	275.46	7154.90	197.11	-794.63	0.96	814.02	595497.21	626439.77	
7792.00	91.05	275.88	7152.20	206.39	-888.13	1.34	907.91	595506.49	626346.27	
7887.00	90.63	276.63	7150.81	216.74	-982.56	0.90	1002.87	595516.84	626251.84	
7982.00	90.49	277.04	7149.88	228.05	-1076.88	0.46	1097.85	595528.15	626157.52	
8076.00	90.63	276.96	7148.96	239.50	-1170.17	0.17	1191.83	595539.60	626064.23	
8171.00	90.56	277.00	7147.97	251.04	-1264.46	0.08	1286.82	595551.14	625969.94	
8266.00	90.42	277.08	7147.16	262.69	-1358.74	0.17	1381.81	595562.79	625875.66	
8360.00	91.19	277.12	7145.84	274.31	-1452.01	0.82	1475.79	595574.41	625782.39	
8455.00	91.33	277.04	7143.75	286.01	-1546.26	0.17	1570.76	595586.11	625688.14	
8549.00	89.23	276.97	7143.29	297.47	-1639.56	2.24	1664.75	595597.57	625594.84	
8643.00	88.18	276.77	7145.41	308.72	-1732.86	1.14	1758.71	595608.82	625501.54	
8738.00	88.74	276.60	7147.97	319.77	-1827.17	0.62	1853.66	595619.87	625407.23	
8832.00	89.37	276.07	7149.52	330.14	-1920.59	0.88	1947.61	595630.24	625313.81	
8926.00	89.44	275.69	7150.49	339.77	-2014.09	0.41	2041.55	595639.87	625220.31	
9021.00	89.72	275.66	7151.19	349.16	-2108.62	0.30	2136.49	595649.26	625125.78	
9116.00	92.03	276.10	7149.74	358.89	-2203.10	2.48	2231.42	595658.99	625031.30	
9210.00	92.03	276.45	7146.41	369.16	-2296.48	0.37	2325.32	595669.26	624937.92	
9305.00	91.82	276.40	7143.22	379.79	-2390.83	0.23	2420.24	595679.89	624843.57	
9399.00	91.61	276.70	7140.41	390.51	-2484.17	0.39	2514.18	595690.61	624750.23	
9493.00	91.26	276.42	7138.05	401.24	-2577.53	0.48	2608.13	595701.34	624656.87	
9587.00	91.61	276.18	7135.70	411.55	-2670.93	0.45	2702.07	595711.65	624563.47	
9681.00	92.45	276.36	7132.37	421.81	-2764.31	0.91	2795.97	595721.91	624470.09	
9776.00	92.10	275.90	7128.60	431.95	-2858.69	0.61	2890.86	595732.05	624375.71	
9871.00	92.80	276.78	7124.54	442.43	-2953.02	1.18	2985.74	595742.53	624281.38	
9965.00	92.66	276.90	7120.06	453.61	-3046.25	0.20	3079.62	595753.71	624188.15	
10059.00	92.45	276.84	7115.87	464.84	-3139.48	0.23	3173.51	595764.94	624094.92	
10153.00	91.26	275.41	7112.83	474.87	-3232.89	1.98	3267.42	595774.97	624001.51	
10248.00	90.84	275.67	7111.08	484.04	-3327.43	0.52	3362.33	595784.14	623906.97	
10342.00	91.89	276.34	7108.85	493.87	-3420.89	1.32	3456.26	595793.97	623813.51	
10437.00	91.33	276.35	7106.18	504.36	-3515.27	0.59	3551.19	595804.46	623719.13	
10531.00	91.12	276.49	7104.17	514.87	-3608.66	0.27	3645.14	595814.97	623625.74	
10626.00	90.77	276.87	7102.60	525.92	-3703.00	0.54	3740.11	595826.02	623531.40	
10721.00	91.33	277.54	7100.86	537.83	-3797.23	0.92	3835.09	595837.93	623437.17	
10815.00	92.03	277.78	7098.10	550.36	-3890.35	0.79	3929.05	595850.46	623344.05	
10910.00	91.89	277.68	7094.85	563.13	-3984.43	0.18	4023.99	595863.23	623249.97	
11005.00	92.17	277.34	7091.49	575.54	-4078.56	0.46	4118.93	595875.64	623155.84	
11100.00	92.59	277.08	7087.54	587.45	-4172.73	0.52	4213.84	595887.55	623061.67	
11193.00	92.52	277.13	7083.40	598.94	-4264.92	0.09	4306.74	595899.04	622969.48	
11288.00	92.03	276.93	7079.63	610.56	-4359.13	0.56	4401.66	595910.66	622875.27	
11382.00	93.08	277.31	7075.44	622.20	-4452.31	1.19	4495.56	595922.30	622782.09	
11477.00	92.45	276.33	7070.85	633.47	-4546.53	1.23	4590.43	595933.57	622687.87	
11571.00	90.84	274.80	7068.16	642.58	-4640.04	2.36	4684.32	595942.68	622594.36	
11666.00	90.77	275.36	7066.82	650.99	-4734.66	0.59	4779.20	595951.09	622499.74	
11739.00	89.93	274.53	7066.37	657.28	-4807.38	1.62	4852.11	595957.38	622427.02	Last Wft Svy
11814.00	89.93	274.53	7066.47	663.20	-4882.15	0.00	4926.99	595963.30	622352.25	Proj. To Bit



Weatherford

WFT Survey Report X & Y's



Weatherford

Company: Devon Energy	Date: 3/4/2013	Time: 06:24:59	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Turquoise PWU 27 #5H, Grid North		
Site: Turquoise PWU 27 #5H	Vertical (TVD) Reference: SITE 3357.0		
Well: Turquoise PWU 27 #5H	Section (VS) Reference: Well (0.00N,0.00E,277.79Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature		Db: Sybase

Annotation

MD ft	TVD ft	
6526.00	6523.35	Tie On VES
6595.00	6592.29	First Wft Svy
11739.00	7066.37	Last Wft Svy
11814.00	7066.47	Proj. To Bit



Turquoise PWU 27 #5H Eddy Co, NM

KB ELEV: 3357
GL ELEV: 3338

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8738.00	88.74	276.60	7147.97	319.77	-1827.17	0.00	0.00	1853.66	
2	8829.84	91.49	276.50	7147.78	330.25	-1918.41	3.00	-1.98	1945.46	
3	11814.02	91.49	276.50	7070.00	668.20	-4882.37	0.00	0.00	4927.88	PBHL

SITE DETAILS

Turquoise PWU 27 #5H
Site Centre Northing: 595300.10
Easting: 627234.40
Ground Level: 3338.00
Positional Uncertainty: 0.00
Convergence: 0.15

WELL DETAILS

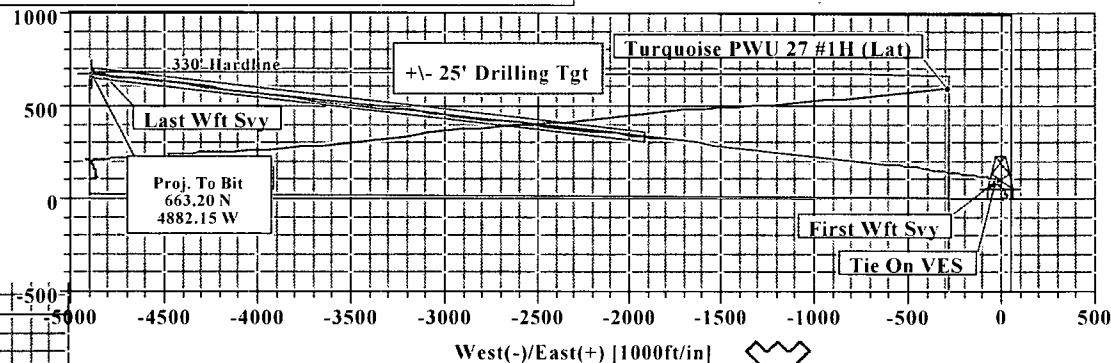
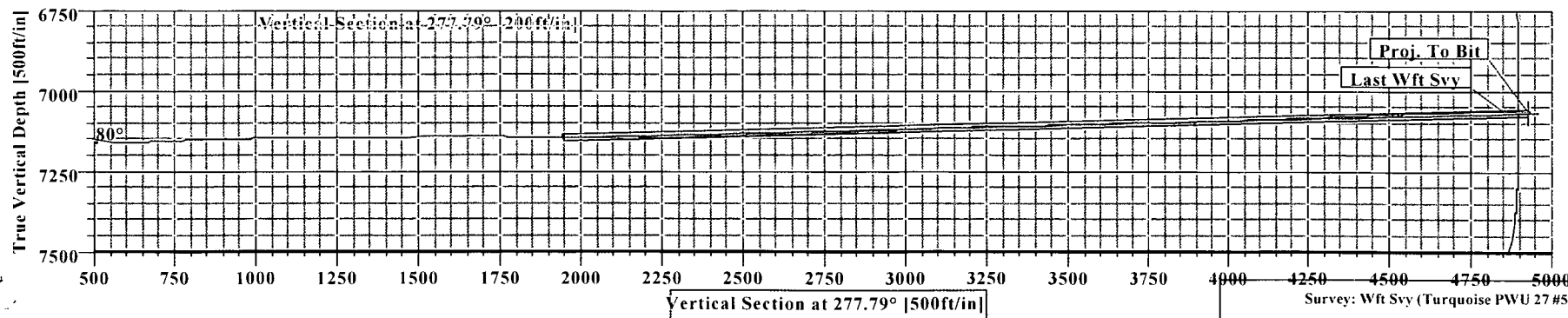
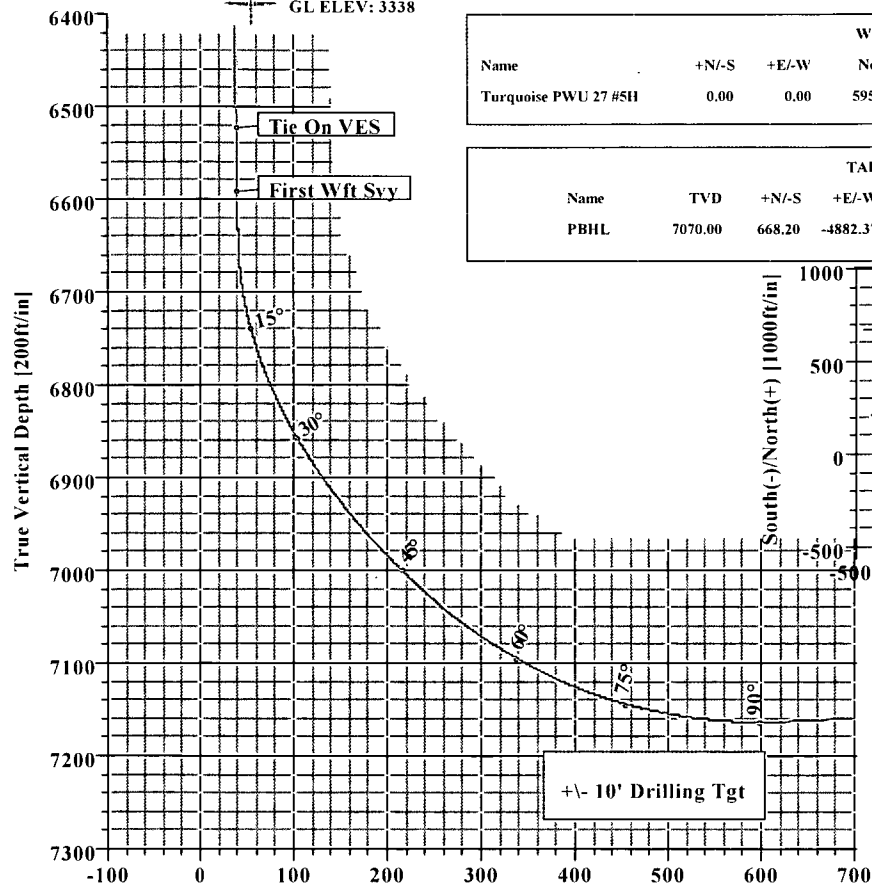
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Turquoise PWU 27 #5H	0.00	0.00	595300.10	627234.40	32°38'10.376N	104°03'15.467W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	7070.00	668.20	-4882.37	595968.30	622352.03	Rectangle (2984x50)

LEGEND

- Turquoise PWU 27 #5H.1.Gyro
- Turquoise PWU 27 #5H.1.Plan #4
- Turquoise PWU 27 #1H (Lat)
- Wft Svy



Weatherford

Survey: Wft Svy (Turquoise PWU 27 #5H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
77	11814.00	89.93	274.53	7066.47	663.20	-4882.15	0.00	0.00	4926.99

Survey: Wft Svy (Turquoise PWU 27 #5H/1)

Created By: Russell W. Joyner

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