

**McVAY DRILLING COMPANY**

P.O. Box 2450
Hobbs, New Mexico 88241
(575) 397-3311
FAX: 39-DRILL

30-015-40036

Well Name and Num: Diamond PWU 22-4H
Location: Sec. 21, T19S, R29E
Operator: Devon
Drilling Contractor: McVay Drilling Company

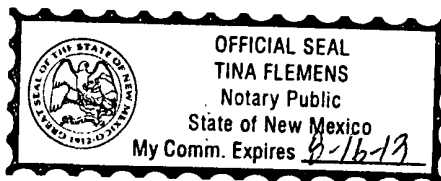
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
0.38	190	14.30	7509	87.30	11723
0.91	617	27.56	7668	89.90	12009
1.80	1126	39.40	7795	89.90	12585
1.00	1626	46.70	7858	89.50	12962
1.00	2102	64.00	7986	88.40	13247
0.30	2643	71.50	8082	86.00	13472
0.70	3143	80.44	8151		
0.70	3557	87.74	8183		
1.20	4060	88.60	8374		
2.00	4611	88.74	8565		
2.60	5762	89.93	8947		
3.10	6159	88.88	9807		
2.80	6411	88.93	9903		
2.20	6655	89.16	10284		
1.60	7076	88.60	10572		
0.47	7318	88.46	10850		
7.40	7413	88.20	11244		

By: Hedrick Crane

Subscribed and sworn to before me this 5th day of June, 2012

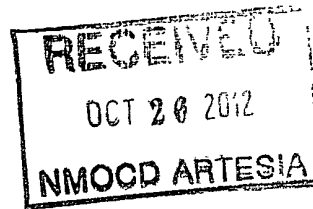
Tina Flemens
Notary Public, Lea County, New Mexico





A GYRO TECHNOLOGIES INC. COMPANY

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



May 23, 2012

Devon Energy Production Co., L. P.
20 North Broadway
Oklahoma City, OK 73102-8260

Attn: Mark Cooper

Re: **Diamond PWU 22 No. 004H**

Please find enclosed a copy of the survey from 0' to 7185' 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.

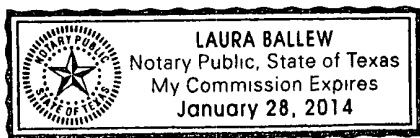
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 25th day of May,
A.D., 2012, by Keith Havelka.

Laura Ballew
Notary Public, State of Texas





Company: Devon Energy Production Co.
 Lease/Well: Diamond PWU 22/No. 004H
 Location: Sec 021 T-19S R-29E
 Rig Name: McVay 6
 State/County: New Mexico/Eddy
 Latitude: 32.64
 GRID North is 0.14 Degrees East of True North
 VS-Azi: 90.20 Degrees



Depth Reference : RKB 19'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: diamond pwu 22 #4_ed.ut

Minimum Curvature Method

Report Date/Time: 5/23/2012 / 16:46

Vaughn Energy Services

Shreveport, LA

318-549-3860

Surveyor: Billy James

Diamond PWU 22 No. 004 / API 30-015-40036

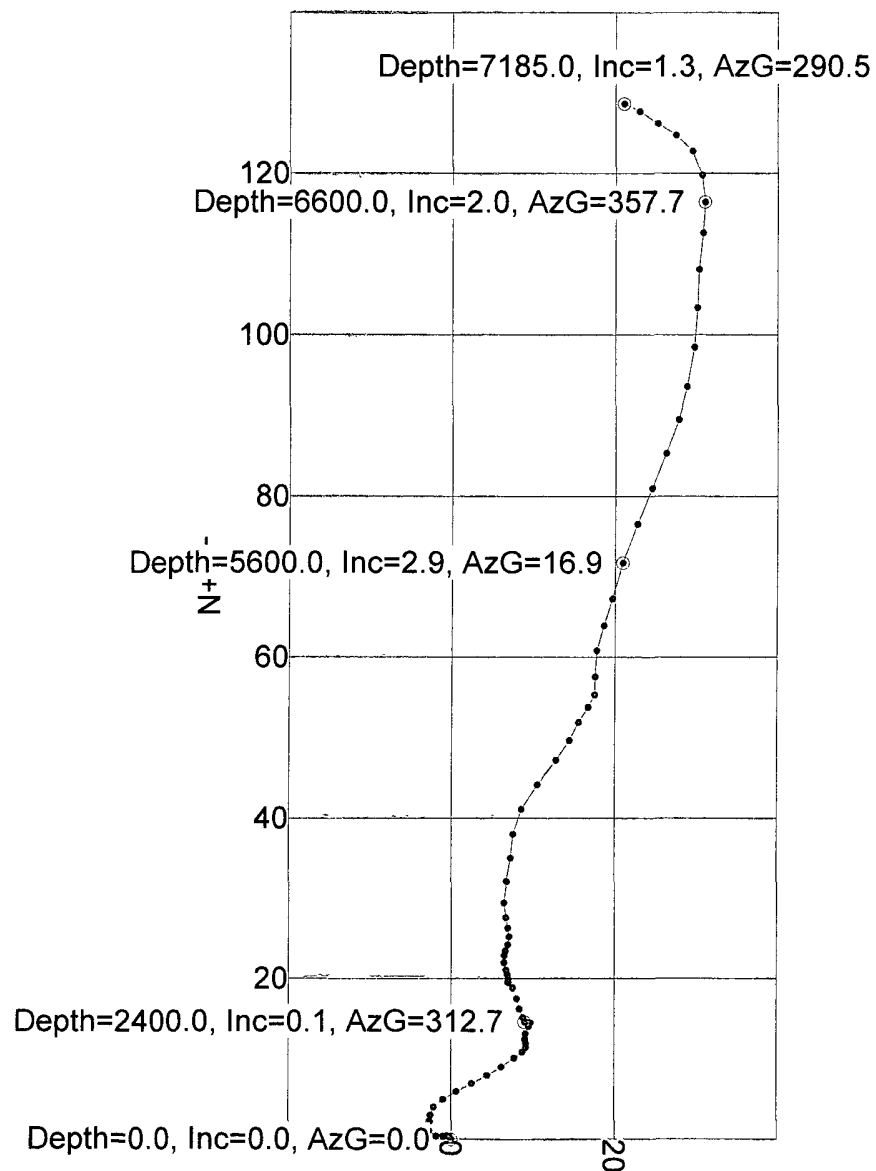
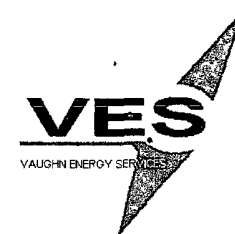
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.41	321.63	100.00	0.28	-0.22	-0.22	0.35	321.63	0.41
200.00	0.13	236.57	200.00	0.49	-0.54	-0.54	0.73	312.51	0.42
300.00	0.43	267.33	300.00	0.41	-1.01	-1.01	1.09	292.17	0.32
400.00	0.50	278.76	399.99	0.46	-1.81	-1.82	1.87	284.21	0.12
500.00	0.83	320.64	499.99	1.09	-2.71	-2.71	2.92	291.86	0.57
600.00	0.34	47.19	599.98	1.85	-2.95	-2.96	3.48	302.04	0.88
700.00	0.29	27.23	699.98	2.27	-2.62	-2.63	3.47	310.91	0.12
800.00	0.63	1.54	799.98	3.04	-2.49	-2.50	3.93	320.66	0.39
900.00	0.69	39.16	899.97	4.05	-2.09	-2.11	4.56	332.68	0.43
1000.00	1.06	57.85	999.96	5.02	-0.93	-0.94	5.10	349.53	0.46
1100.00	1.07	60.96	1099.94	5.96	0.67	0.65	6.00	6.44	0.06
1200.00	1.39	63.65	1199.92	6.95	2.57	2.55	7.41	20.32	0.33
1300.00	1.03	58.09	1299.90	7.97	4.42	4.40	9.11	29.05	0.38
1400.00	1.33	58.62	1399.88	9.04	6.17	6.14	10.95	34.32	0.30
1500.00	0.87	51.18	1499.86	10.12	7.75	7.71	12.74	37.45	0.48
1600.00	0.53	56.55	1599.85	10.85	8.72	8.69	13.92	38.81	0.34
1700.00	0.43	9.67	1699.85	11.47	9.17	9.13	14.69	38.64	0.39
1800.00	0.19	338.65	1799.85	12.00	9.18	9.13	15.10	37.42	0.29

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	0.37	348.81	1899.84	12.46	9.06	9.01	15.40	36.01	0.19
2000.00	0.45	19.18	1999.84	13.15	9.12	9.08	16.00	34.76	0.23
2100.00	0.69	24.92	2099.84	14.06	9.50	9.46	16.97	34.05	0.24
2200.00	0.09	192.29	2199.84	14.53	9.74	9.69	17.49	33.84	0.77
2300.00	0.38	282.37	2299.83	14.52	9.40	9.35	17.30	32.90	0.39
2400.00	0.07	312.74	2399.83	14.64	9.03	8.98	17.20	31.66	0.33
2500.00	0.62	342.35	2499.83	15.19	8.82	8.77	17.57	30.14	0.56
2600.00	0.67	330.23	2599.82	16.21	8.37	8.31	18.24	27.30	0.14
2700.00	0.89	356.69	2699.82	17.49	8.03	7.97	19.25	24.66	0.42
2800.00	0.81	323.40	2799.81	18.84	7.56	7.50	20.30	21.87	0.50
2900.00	0.18	302.32	2899.80	19.50	7.01	6.94	20.72	19.77	0.65
3000.00	0.08	121.54	2999.80	19.54	6.93	6.87	20.74	19.53	0.26
3100.00	0.46	359.95	3099.80	19.91	6.99	6.92	21.10	19.36	0.50
3200.00	0.23	340.28	3199.80	20.49	6.93	6.86	21.63	18.68	0.26
3300.00	0.49	340.64	3299.80	21.08	6.72	6.65	22.12	17.68	0.26
3400.00	0.57	351.35	3399.79	21.97	6.50	6.43	22.91	16.49	0.13
3500.00	0.45	11.59	3499.79	22.84	6.51	6.43	23.75	15.90	0.21
3600.00	0.25	16.46	3599.79	23.44	6.65	6.57	24.37	15.84	0.20
3700.00	0.67	22.64	3699.78	24.19	6.94	6.85	25.16	16.00	0.42
3800.00	0.56	352.60	3799.78	25.21	7.10	7.01	26.19	15.72	0.33
3900.00	0.65	350.15	3899.77	26.26	6.93	6.84	27.16	14.79	0.09
4000.00	0.89	350.03	3999.76	27.59	6.70	6.61	28.39	13.66	0.24
4100.00	1.20	354.03	4099.75	29.39	6.46	6.36	30.10	12.39	0.32
4200.00	1.98	15.10	4199.71	32.10	6.80	6.69	32.82	11.96	0.96
4300.00	1.42	1.88	4299.66	35.01	7.29	7.17	35.76	11.76	0.68
4400.00	2.02	7.99	4399.62	37.99	7.58	7.44	38.74	11.28	0.63
4500.00	1.81	29.79	4499.56	41.11	8.60	8.46	42.00	11.82	0.75
4600.00	2.32	34.36	4599.50	44.14	10.53	10.38	45.38	13.42	0.54
4700.00	2.10	39.58	4699.42	47.22	12.84	12.67	48.94	15.21	0.30
4800.00	1.32	22.72	4799.38	49.69	14.44	14.27	51.75	16.21	0.92
4900.00	1.55	29.41	4899.35	51.93	15.55	15.37	54.21	16.67	0.29
5000.00	1.01	34.86	4999.32	53.83	16.72	16.53	56.37	17.25	0.56
5100.00	1.01	18.69	5099.31	55.39	17.50	17.31	58.09	17.54	0.28
5200.00	1.61	351.91	5199.28	57.61	17.59	17.39	60.24	16.98	0.84
5300.00	2.14	11.75	5299.23	60.84	17.77	17.56	63.38	16.28	0.83
5400.00	1.56	21.31	5399.18	63.94	18.65	18.42	66.60	16.26	0.66
5500.00	2.44	14.72	5499.12	67.26	19.68	19.45	70.08	16.31	0.90
5600.00	2.90	16.94	5599.01	71.74	20.96	20.71	74.74	16.29	0.48
5700.00	2.99	23.05	5698.87	76.56	22.72	22.45	79.86	16.53	0.33

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	2.49	21.12	5798.76	80.99	24.52	24.24	84.62	16.85	0.50
5900.00	2.87	22.47	5898.65	85.33	26.26	25.97	89.28	17.11	0.38
6000.00	2.22	16.75	5998.55	89.50	27.78	27.47	93.71	17.24	0.69
6100.00	2.64	12.74	6098.46	93.60	28.85	28.52	97.95	17.13	0.45
6200.00	3.02	8.26	6198.34	98.46	29.73	29.39	102.85	16.80	0.44
6300.00	2.63	359.71	6298.22	103.37	30.10	29.74	107.66	16.24	0.57
6400.00	2.81	4.22	6398.10	108.10	30.27	29.89	112.26	15.64	0.28
6500.00	2.41	8.43	6498.00	112.62	30.76	30.36	116.75	15.27	0.44
6600.00	1.99	357.67	6597.93	116.43	30.99	30.59	120.49	14.91	0.58
6700.00	1.91	349.62	6697.87	119.80	30.62	30.21	123.66	14.34	0.29
6800.00	1.81	327.71	6797.82	122.78	29.48	29.05	126.27	13.50	0.71
6900.00	1.55	298.48	6897.78	124.76	27.45	27.01	127.74	12.41	0.88
7000.00	1.49	307.75	6997.74	126.20	25.23	24.79	128.70	11.31	0.25
7100.00	1.62	300.31	7097.71	127.71	22.98	22.53	129.76	10.20	0.24
7185.00	1.26	290.52	7182.68	128.65	21.06	20.61	130.36	9.30	0.52



Vaughn Energy Services
Shreveport, LA
318-549-3860
Surveyor: Billy James
Diamond PWU 22 No. 004 / API 30-015-40036



VES Survey Date: 05/18/2012



Weatherford[®]

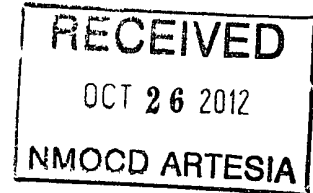
Evaluation, Drilling & Intervention
10000 West County Rd. 116
P.O. Box 61028
Midland, TX USA 79711
Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: May 31, 2012

Attention: Spencer Stuart

Re: Devon Energy
Well: Diamond PWU 22 #4H
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:

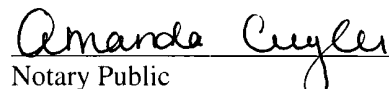
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Michael Lockhart MWD Supervisor	4H	7222' MD 13472' MD	5/18/2012 5/31/2012	Measurement While Drilling

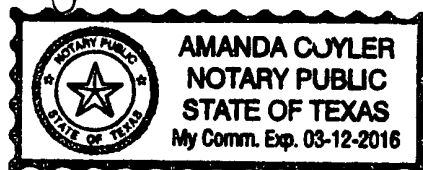
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
Area Manager

On this, the 6th day of June, 2012, 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: 5/30/2012	Time: 05:50:21	Page: 1
Field: Eddy Co., NM (NAD 83)		Co-ordinate(NE) Reference: Well: PWU 22 #4H, Grid North		
Site: Diamond PWU 22 #4H		Vertical (TVD) Reference: SITE 3359.0		
Well: PWU 22 #4H		Section (VS) Reference: Well (0 00N,0.00E,90 20Azi)		
Wellpath: Build 10's		Survey Calculation Method: Minimum Curvature		Db: Sybase

Survey: Wft Svy	Start Date: 5/21/2012
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD,MWD - Standard	Tied-to: User Defined

Field: Eddy Co., NM (NAD 83)	
Map System: US State Plane Coordinate System 1983	Map Zone: New Mexico, Eastern Zone
Geo Datum: GRS 1980	Coordinate System: Well Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: IGRF2010

Site: Diamond PWU 22 #4H		
Site Position:	Northing: 596959 60 ft	Latitude: 32 38 26 950 N
From: Map	Easting: 621130 74 ft	Longitude: 104 4 26 800 W
Position Uncertainty: 0 00 ft		North Reference: Grid
Ground Level: 3340 00 ft		Grid Convergence: 0 14 deg

Well: PWU 22 #4H		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 596959 60 ft	Latitude: 32 38 26 950 N	
+E/-W 0.00 ft	Easting : 621130 74 ft	Longitude: 104 4 26.800 W	
Position Uncertainty: 0 00 ft			

Wellpath: Build 10's		Drilled From: Surface	
		Tie-on Depth: 0.00 ft	
Current Datum: SITE		Above System Datum: Mean Sea Level	
Magnetic Data: 6/10/2012		Declination: 7 73 deg	
Field Strength: 48738 nT		Mag Dip Angle: 60.46 deg	
Vertical Section: Depth From (TVD)	+N/-S	+E/-W	Direction
ft	ft	ft	deg
0.00	0.00	0 00	90.20

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	
7185 00	1.26	290.52	7182 68	128 65	21 06	0 00	20.61	597088.25	621151 80	Tie On VES
7222 00	0 99	274.00	7219 67	128 81	20 36	1 13	19 91	597088.41	621151.10	First Wft Svy
7254.00	1 03	288.85	7251 67	128 93	19 81	0 83	19 36	597088.53	621150.55	
7286 00	0 94	270 42	7283 66	129 02	19 28	1 02	18.83	597088.62	621150 02	
7318 00	0.47	174 06	7315 66	128 89	19 03	3 43	18.58	597088 49	621149 77	
7350.00	2.58	125 01	7347 65	128 35	19.63	7 19	19 18	597087.95	621150.37	
7381 00	5.06	120 65	7378.58	127.25	21 38	8 05	20 94	597086 85	621152.12	
7413.00	7 43	123.92	7410.38	125 38	24 31	7 49	23 87	597084.98	621155 05	
7445.00	9 49	109 37	7442 04	123 35	28.52	9.24	28 09	597082 95	621159.26	
7477.00	11.46	105.66	7473.50	121 61	34.07	6 50	33.64	597081 21	621164 81	
7509 00	14 30	103 89	7504.69	119.81	40.97	8 96	40 55	597079 41	621171 71	
7541 00	16 80	106 10	7535 52	117.58	49.25	8.03	48 84	597077 18	621179 99	
7572 00	19 23	107 74	7565 00	114 78	58.42	8.01	58 01	597074 38	621189 16	
7604 00	22 22	101 35	7594 93	111.98	69.37	11.70	68 98	597071.58	621200 11	
7636 00	25 18	110.64	7624 24	108.39	81.68	14.87	81 30	597067.99	621212 42	
7668 00	27 56	110.94	7652.91	103.34	94 97	7 45	94.61	597062 94	621225 71	
7700 00	30 51	112.00	7680.88	97 65	109 42	9.36	109 07	597057 25	621240 16	
7732.00	33.94	113.36	7707.95	91 06	125 15	10 96	124.84	597050.66	621255.89	
7763 00	36 60	113.71	7733.26	83.92	141 56	8 61	141.27	597043 52	621272.30	
7795 00	39 48	113.56	7758.46	76.01	159.63	9.00	159 36	597035 61	621290.37	
7827 00	42 69	114.26	7782.57	67.49	178.85	10.13	178 61	597027.09	621309 59	
7858.00	46 68	113.14	7804.61	58.73	198 81	13 12	198.60	597018.33	621329 55	
7890 00	51 35	112 06	7825.59	49 46	221 10	14.81	220.93	597009.06	621351 84	
7922.00	56.71	110.58	7844 38	40.06	245 22	17 16	245.08	596999 66	621375 96	



Weatherford

WFT Survey Report X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Diamond PWU 22 #4H
Well: PWU 22 #4H
Wellpath: Build 10's

Date: 5/30/2012 Time: 05:50:21 Page: 2
Co-ordinate(NE) Reference: Well PWU 22 #4H, Grid North
Vertical (TVD) Reference: SITE 3359 0
Section (VS) Reference: Well (0 00N,0 00E,90.20Azi)
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
7954.00	60.31	109.61	7861.09	30.69	270.85	11.54	270.74	596990.29	621401.59	
7986.00	63.96	109.64	7876.05	21.19	297.49	11.41	297.41	596980.79	621428.23	
8018.00	66.54	109.88	7889.44	11.36	324.84	8.09	324.79	596970.96	621455.58	
8050.00	68.75	109.01	7901.61	1.51	352.74	7.35	352.73	596961.11	621483.48	
8082.00	71.55	107.58	7912.48	-7.93	381.32	9.71	381.34	596951.67	621512.06	
8114.00	75.44	106.96	7921.57	-17.03	410.61	12.30	410.67	596942.57	621541.35	
8151.00	80.44	107.97	7929.30	-27.89	445.11	13.77	445.21	596931.71	621575.85	
8183.00	84.74	108.39	7933.42	-37.79	475.25	13.50	475.38	596921.81	621605.99	
8215.00	86.85	107.77	7935.77	-47.70	505.59	6.87	505.75	596911.90	621636.33	
8247.00	87.97	106.05	7937.21	-56.99	536.17	6.41	536.37	596902.61	621666.91	
8279.00	87.62	103.99	7938.45	-65.28	567.05	6.53	567.28	596894.32	621697.79	
8310.00	87.97	101.66	7939.64	-72.16	597.26	7.59	597.50	596887.44	621728.00	
8342.00	87.41	100.14	7940.93	-78.20	628.65	5.06	628.92	596881.40	621759.39	
8374.00	88.60	99.69	7942.04	-83.71	660.16	3.98	660.44	596875.89	621790.90	
8470.00	89.72	97.53	7943.45	-98.08	755.06	2.53	755.39	596861.52	621885.80	
8565.00	88.74	98.27	7944.73	-111.13	849.14	1.29	849.53	596848.47	621979.88	
8661.00	89.02	97.78	7946.60	-124.53	944.19	0.59	944.61	596835.07	622074.93	
8756.00	89.51	97.23	7947.82	-136.94	1038.36	0.78	1038.83	596822.66	622169.10	
8851.00	89.37	96.48	7948.75	-148.28	1132.68	0.80	1133.19	596811.32	622263.42	
8947.00	89.93	95.15	7949.34	-158.00	1228.18	1.50	1228.72	596801.60	622358.92	
9043.00	90.91	93.57	7948.63	-165.30	1323.90	1.94	1324.46	596794.30	622454.64	
9138.00	90.28	91.71	7947.65	-169.68	1418.79	2.07	1419.37	596789.92	622549.53	
9234.00	89.58	89.63	7947.76	-170.80	1514.77	2.29	1515.36	596788.80	622645.51	
9330.00	88.60	89.38	7949.29	-169.97	1610.76	1.05	1611.34	596789.63	622741.50	
9425.00	89.65	88.48	7950.74	-168.20	1705.73	1.46	1706.30	596791.40	622836.47	
9521.00	88.95	88.39	7951.91	-165.57	1801.68	0.74	1802.25	596794.03	622932.42	
9616.00	90.56	88.87	7952.32	-163.30	1896.65	1.77	1897.21	596796.30	623027.39	
9712.00	89.86	88.96	7951.97	-161.48	1992.63	0.74	1993.18	596798.12	623123.37	
9807.00	88.88	88.88	7953.01	-159.69	2087.61	1.04	2088.15	596799.91	623218.35	
9903.00	89.93	88.52	7954.01	-157.52	2183.58	1.16	2184.11	596802.08	623314.32	
9998.00	89.16	88.70	7954.76	-155.21	2278.55	0.83	2279.07	596804.39	623409.29	
10094.00	89.79	89.75	7955.64	-153.91	2374.53	1.28	2375.05	596805.69	623505.27	
10189.00	89.72	90.38	7956.05	-154.02	2469.53	0.67	2470.05	596805.58	623600.27	
10284.00	89.16	90.71	7956.98	-154.93	2564.52	0.68	2565.05	596804.67	623695.26	
10380.00	89.02	90.79	7958.50	-156.18	2660.50	0.17	2661.03	596803.42	623791.24	
10476.00	88.95	90.58	7960.20	-157.33	2756.48	0.23	2757.01	596802.27	623887.22	
10572.00	88.60	90.69	7962.25	-158.39	2852.45	0.38	2852.99	596801.21	623983.19	
10668.00	89.86	91.46	7963.54	-160.19	2948.42	1.54	2948.96	596799.41	624079.16	
10764.00	89.37	92.16	7964.19	-163.23	3044.37	0.89	3044.92	596796.37	624175.11	
10860.00	88.46	92.46	7966.01	-167.09	3140.27	1.00	3140.84	596792.51	624271.01	
10956.00	89.58	92.45	7967.65	-171.21	3236.17	1.17	3236.75	596788.39	624366.91	
11052.00	87.34	90.44	7970.23	-173.63	3332.09	3.13	3332.68	596785.97	624462.83	
11148.00	88.04	89.70	7974.10	-173.74	3428.02	1.06	3428.60	596785.86	624558.76	
11244.00	88.18	90.28	7977.26	-173.73	3523.96	0.62	3524.55	596785.87	624654.70	
11339.00	88.67	89.75	7979.88	-173.75	3618.93	0.76	3619.51	596785.85	624749.67	
11436.00	89.23	89.43	7981.65	-173.06	3715.91	0.66	3716.49	596786.54	624846.65	
11531.00	87.69	89.30	7984.21	-172.01	3810.86	1.63	3811.44	596787.59	624941.60	
11627.00	87.13	89.97	7988.54	-171.39	3906.76	0.91	3907.34	596788.21	625037.50	
11723.00	87.34	90.25	7993.18	-171.58	4002.65	0.36	4003.23	596788.02	625133.39	
11819.00	87.90	90.95	7997.16	-172.58	4098.56	0.93	4099.14	596787.02	625229.30	
11913.00	90.00	91.20	7998.88	-174.35	4192.52	2.25	4193.11	596785.25	625323.26	
12009.00	89.86	90.63	7999.00	-175.88	4288.51	0.61	4289.10	596783.72	625419.25	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Diamond PWU 22 #4H
Well: PWU 22 #4H
Wellpath: Build 10's

Date: 5/30/2012 Time: 05:50:21 Page: 3
Co-ordinate(NE) Reference: Well: PWU 22 #4H, Grid North
Vertical (TVD) Reference: SITE 3359.0
Section (VS) Reference: Well (0.00N,0.00E,90.20Azi)
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
12105.00	88.88	90.72	8000.06	-177.01	4384.50	1.03	4385.09	596782.59	625515.24	
12201.00	89.02	91.12	8001.82	-178.55	4480.47	0.44	4481.06	596781.05	625611.21	
12298.00	89.09	91.15	8003.42	-180.47	4577.44	0.08	4578.04	596779.13	625708.18	
12393.00	87.97	90.47	8005.85	-181.81	4672.39	1.38	4673.00	596777.79	625803.13	
12488.00	88.81	90.50	8008.52	-182.62	4767.35	0.88	4767.96	596776.98	625898.09	
12583.00	89.86	90.62	8009.63	-183.55	4862.34	1.11	4862.95	596776.05	625993.08	
12678.00	88.46	90.95	8011.02	-184.85	4957.32	1.51	4957.93	596774.75	626088.06	
12773.00	87.97	90.34	8013.98	-185.92	5052.27	0.82	5052.88	596773.68	626183.01	
12867.00	88.74	90.12	8016.68	-186.29	5146.22	0.85	5146.84	596773.31	626276.96	
12962.00	89.51	89.42	8018.13	-185.91	5241.21	1.10	5241.83	596773.69	626371.95	
13057.00	90.28	89.39	8018.30	-184.93	5336.21	0.81	5336.82	596774.67	626466.95	
13152.00	89.00	89.19	8018.90	-183.75	5431.19	1.36	5431.80	596775.85	626561.93	
13247.00	88.39	89.06	8021.06	-182.30	5526.16	0.66	5526.76	596777.30	626656.90	
13342.00	87.13	89.13	8024.77	-180.80	5621.07	1.33	5621.67	596778.80	626751.81	
13437.00	86.08	89.00	8030.40	-179.25	5715.89	1.11	5716.48	596780.35	626846.63	
13472.00	86.00	88.80	8032.82	-178.58	5750.80	0.61	5751.39	596781.02	626881.54	Last Wft Svy
13540.00	86.00	88.80	8037.56	-177.16	5818.62	0.00	5819.20	596782.44	626949.36	Proj To Bit

Annotation

MD ft	TVD ft	
7185.00	7182.68	Tie On VES
7222.00	7219.67	First Wft Svy
13472.00	8032.82	Last Wft Svy
13540.00	8037.56	Proj To Bit

KB ELEV: 3359
GL ELEV: 3340

SECTION DETAILS

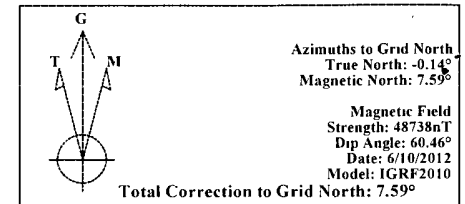
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8216.20	89.41	108.29	7935.01	-47.65	506.91	0.00	0.00	507.08	
2	8829.45	89.43	90.20	7941.26	-145.75	1109.66	2.95	-90.02	1110.16	
3	10719.90	89.43	90.20	7960.00	-152.29	3000.00	0.00	0.00	3000.51	3000'VS
4	10755.32	88.37	90.20	7960.68	-152.41	3035.42	3.00	-180.00	3035.93	
5	13542.59	88.37	90.20	8040.00	-162.05	5821.54	0.00	0.00	5822.07	BHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
PWU 22 #4H	0.00	0.00	596959.60	621130.74	32°38'26.950N	104°04'26.800W	N/A

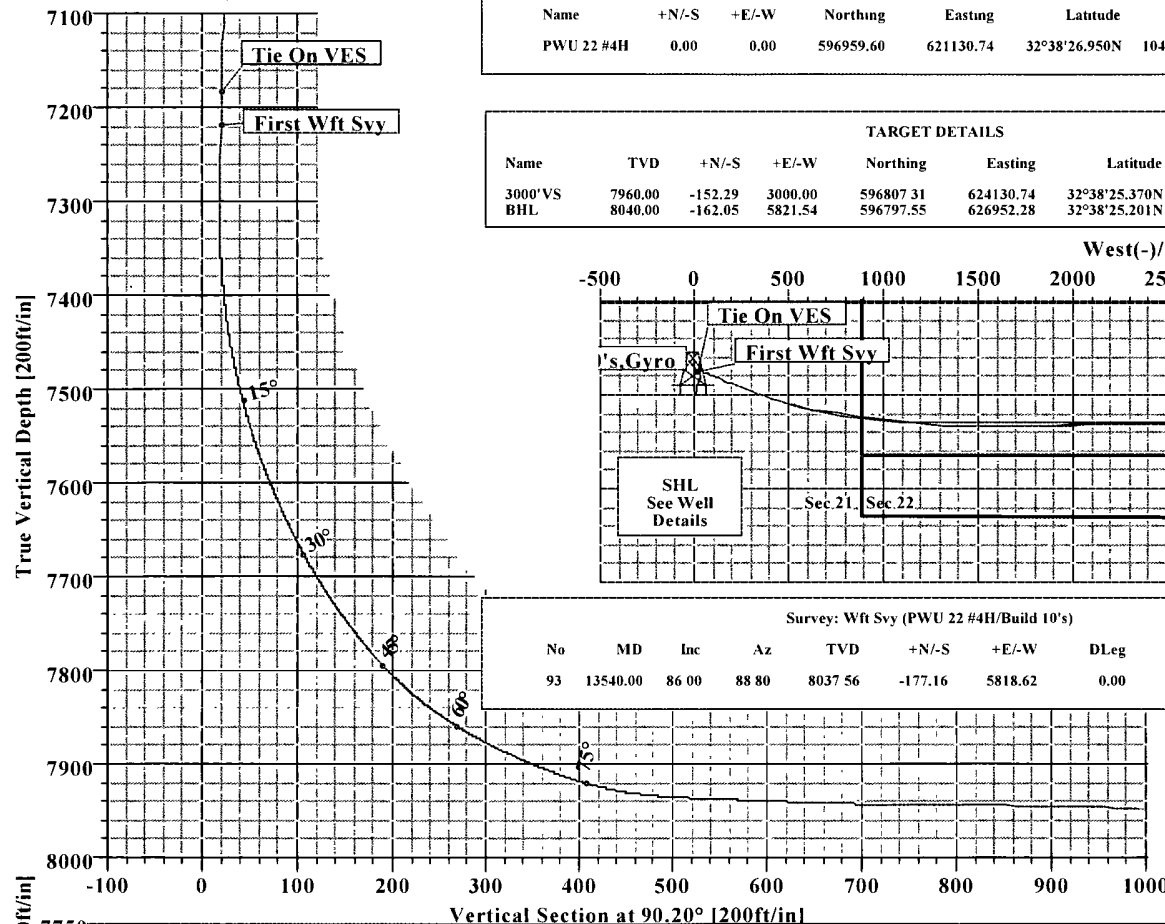
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
3000'VS	7960.00	-152.29	3000.00	596807.31	624130.74	32°38'25.370N	104°03'51.719W	Point
BHL	8040.00	-162.05	5821.54	596797.55	626952.28	32°38'25.201N	104°03'18.721W	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



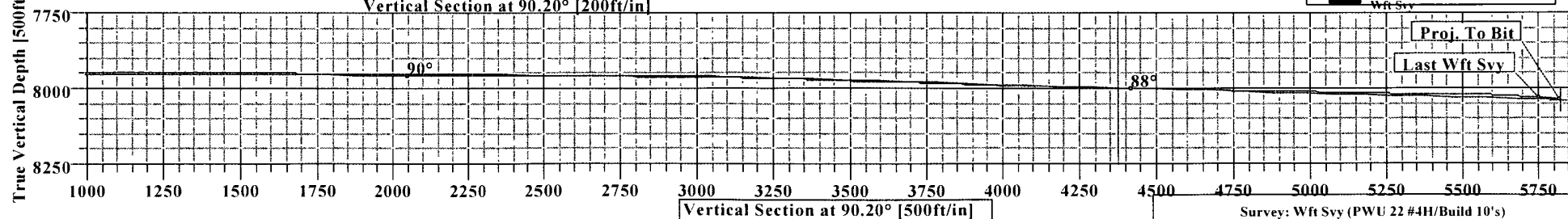
Weatherford

SITE DETAILS

Diamond PWU 22 #4H
Site Centre Northing: 596959.60
Easting: 621130.74
Ground Level: 3340.00
Positional Uncertainty: 0.00
Convergence: 0.14

LEGEND

- PWU 22 #4H, Build 10's, Gyro
- PWU 22 #4H, Build 10's, Plan #5
- Parkway West Unit 21 (1)
- Build 10's
- Wft Svy



Created By: Russell W. Joyner

Date: 5/30/2012