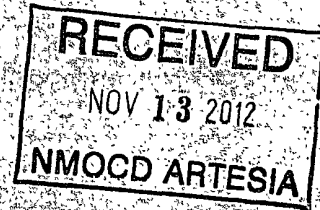




PO Box 261021  
Corpus Christi, Texas 78426  
(361) 767-0602 • (800) 606-GYRO • Fax (361) 767-0612

30-015-40424

September 6, 2012



Devon Energy Production Company  
333 West Sheridan Ave  
Oklahoma City, Oklahoma 73102-5010

Attn: Mark Cooper

Re: ONYX PWU 29 No. 4H

Please find enclosed a copy of the survey from 0' to 7,175' ran on the above referenced well.

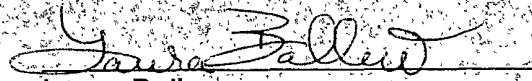
If I can be of any further service, please do not hesitate to call me at 800-606-4976

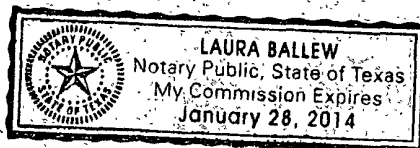
Sincerely,

  
Keith Havelka  
Operations

STATE OF TEXAS     §  
                                  §  
COUNTY OF NUECES §

This instrument was acknowledged before me on the 10<sup>th</sup> day of September A.D., 2012, by Keith Havelka.

  
Laura Ballew  
Notary Public, State of Texas





Company: Devon Energy Production Company  
 Lease/Well: ONYX PWU 29/No. 4H  
 Location: SEC29 T19s R29e  
 Rig Name: McVay 6  
 State/County: New Mexico/Eddy  
 Latitude: 32.63  
 GRID North is 0.12 Degrees East of True North  
 VS-Azi: 89.19 Degrees



**RECEIVED**  
 NOV 13 2012  
 NMOCD ARTESIA

Depth Reference : RKB=19 Feet

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut  
 Minimum Curvature Method  
 Report Date/Time: 9/6/2012 / 14:16

Vaughn Energy Services  
 (432) 563-5444  
 Gardendale, TX  
 Surveyor: Colby Ware  
 ONYX PWU 29 No. 4H / API 30-015-40424

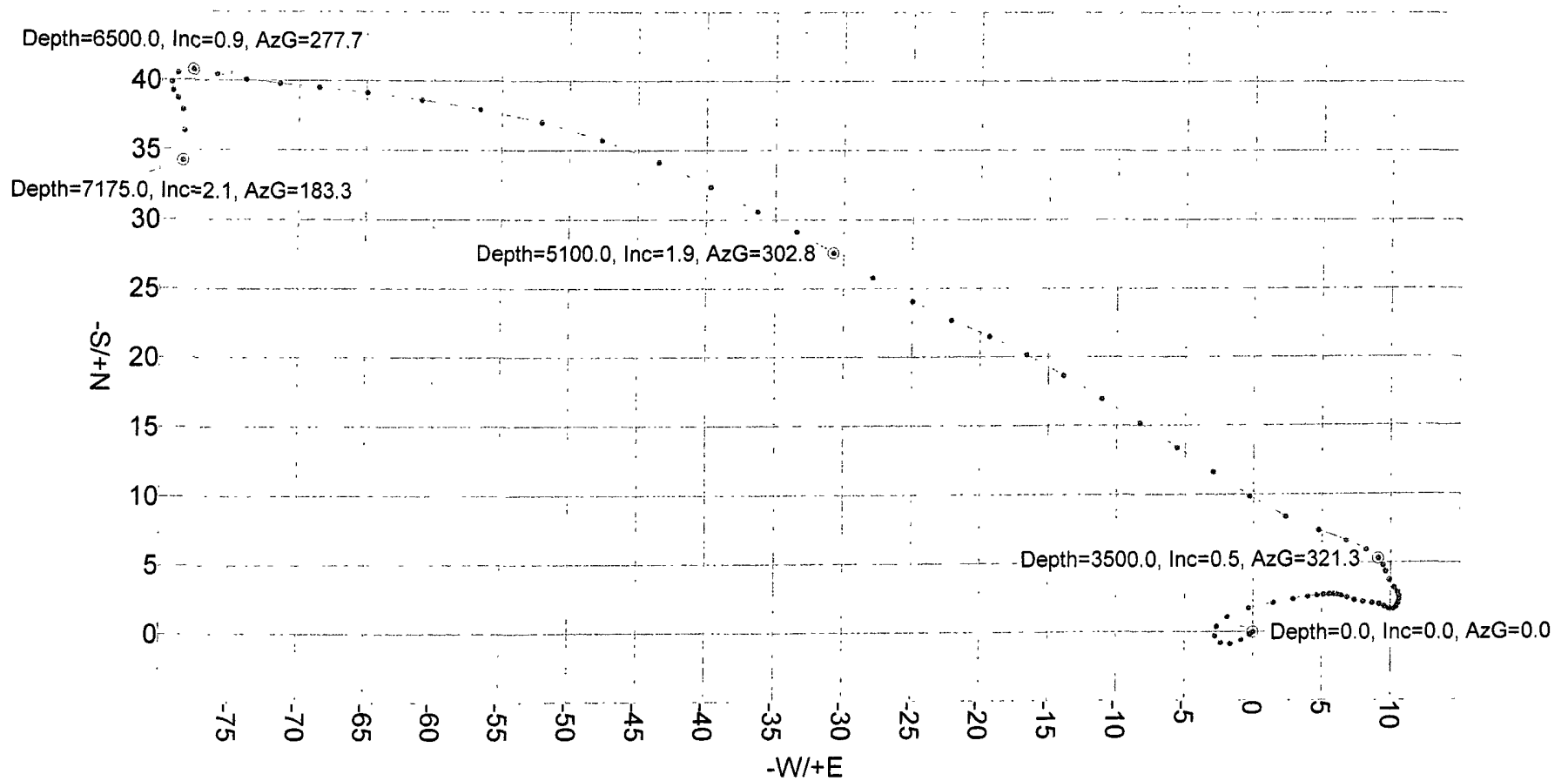
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.34	234.66	100.00	-0.17	-0.24	-0.24	0.30	234.66	0.34
200.00	0.52	240.52	200.00	-0.57	-0.88	-0.89	1.04	237.19	0.18
300.00	0.46	259.98	299.99	-0.86	-1.67	-1.68	1.88	242.77	0.17
400.00	0.40	294.44	399.99	-0.78	-2.39	-2.40	2.51	251.84	0.26
500.00	0.42	344.60	499.99	-0.28	-2.81	-2.81	2.82	264.28	0.35
600.00	0.44	34.77	599.99	0.39	-2.68	-2.68	2.71	278.31	0.37
700.00	0.80	55.48	699.98	1.10	-1.89	-1.87	2.19	300.32	0.42
800.00	1.16	76.19	799.97	1.74	-0.33	-0.31	1.77	349.25	0.50
900.00	0.95	79.72	899.95	2.13	1.46	1.49	2.59	34.50	0.22
1000.00	0.73	79.26	999.94	2.40	2.91	2.94	3.77	50.49	0.21
1100.00	0.51	80.93	1099.93	2.59	3.97	4.01	4.74	56.93	0.23
1200.00	0.29	84.60	1199.93	2.68	4.66	4.70	5.37	60.09	0.22
1300.00	0.25	84.28	1299.93	2.73	5.12	5.16	5.80	61.99	0.04
1400.00	0.22	87.97	1399.93	2.75	5.53	5.57	6.18	63.52	0.03
1500.00	0.18	93.94	1499.93	2.75	5.87	5.91	6.48	64.90	0.05
1600.00	0.13	93.92	1599.93	2.73	6.14	6.18	6.72	66.01	0.04
1700.00	0.21	109.31	1699.93	2.66	6.42	6.46	6.95	67.47	0.09
1800.00	0.30	114.70	1799.92	2.50	6.83	6.87	7.27	69.93	0.10

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	0.35	105.42	1899.92	2.30	7.36	7.39	7.72	72.62	0.07
2000.00	0.40	96.13	1999.92	2.19	8.01	8.04	8.30	74.73	0.08
2100.00	0.34	99.40	2099.92	2.10	8.65	8.68	8.90	76.35	0.07
2200.00	0.26	102.67	2199.92	2.00	9.16	9.19	9.37	77.67	0.08
2300.00	0.23	124.17	2299.92	1.84	9.54	9.57	9.72	79.07	0.10
2400.00	0.20	105.67	2399.92	1.68	9.87	9.89	10.01	80.32	0.07
2500.00	0.17	74.62	2499.92	1.68	10.18	10.20	10.32	80.64	0.10
2600.00	0.15	33.58	2599.92	1.82	10.40	10.42	10.55	80.05	0.11
2700.00	0.15	21.42	2699.91	2.05	10.51	10.54	10.71	78.96	0.03
2800.00	0.17	9.27	2799.91	2.32	10.58	10.62	10.83	77.66	0.04
2900.00	0.16	353.01	2899.91	2.60	10.59	10.63	10.91	76.20	0.05
3000.00	0.18	326.74	2999.91	2.87	10.49	10.53	10.87	74.70	0.08
3100.00	0.31	319.74	3099.91	3.20	10.23	10.28	10.72	72.62	0.13
3200.00	0.44	332.74	3199.91	3.75	9.88	9.94	10.57	69.24	0.16
3300.00	0.33	338.68	3299.91	4.36	9.60	9.66	10.55	65.58	0.11
3400.00	0.21	334.63	3399.91	4.80	9.42	9.48	10.57	63.01	0.13
3500.00	0.49	321.35	3499.91	5.30	9.07	9.15	10.51	59.73	0.29
3600.00	0.77	298.07	3599.90	5.94	8.21	8.30	10.14	54.11	0.37
3700.00	1.08	293.13	3699.89	6.63	6.76	6.85	9.47	45.55	0.32
3800.00	1.39	288.18	3799.86	7.38	4.74	4.84	8.77	32.73	0.33
3900.00	1.62	295.76	3899.83	8.37	2.32	2.44	8.68	15.50	0.30
4000.00	1.84	303.33	3999.78	9.86	-0.29	-0.15	9.87	358.30	0.32
4100.00	1.83	303.44	4099.73	11.63	-2.97	-2.80	12.00	345.68	0.01
4200.00	1.83	303.54	4199.68	13.39	-5.63	-5.44	14.52	337.19	0.00
4300.00	1.87	303.06	4299.63	15.16	-8.33	-8.11	17.30	331.22	0.05
4400.00	1.92	302.57	4399.57	16.95	-11.11	-10.87	20.27	326.76	0.06
4500.00	1.82	300.19	4499.52	18.66	-13.90	-13.64	23.27	323.31	0.13
4600.00	1.72	297.80	4599.47	20.16	-16.61	-16.32	26.12	320.52	0.12
4700.00	1.73	294.53	4699.43	21.49	-19.31	-19.00	28.89	318.06	0.10
4800.00	1.77	291.26	4799.38	22.67	-22.11	-21.79	31.67	315.71	0.11
4900.00	1.89	299.88	4899.33	24.05	-24.98	-24.63	34.67	313.92	0.30
5000.00	2.01	301.50	4999.27	25.79	-27.90	-27.53	37.99	312.74	0.13
5100.00	1.85	302.85	5099.22	27.58	-30.76	-30.36	41.31	311.88	0.16
5200.00	1.69	297.20	5199.17	29.13	-33.43	-33.01	44.34	311.07	0.24
5300.00	2.04	297.31	5299.11	30.62	-36.32	-35.89	47.51	310.13	0.34
5400.00	2.34	297.42	5399.04	32.38	-39.71	-39.25	51.24	309.19	0.30
5500.00	2.48	293.12	5498.95	34.17	-43.51	-43.03	55.32	308.14	0.23
5600.00	2.63	288.82	5598.85	35.76	-47.67	-47.16	59.59	306.87	0.24
5700.00	2.64	284.03	5698.75	37.05	-52.08	-51.55	63.91	305.43	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
5800.00	2.63	279.24	5798.64	37.98	-56.58	-56.04	68.15	303.87	0.22
5900.00	2.44	277.92	5898.54	38.64	-60.95	-60.40	72.17	302.37	0.20
6000.00	2.22	276.60	5998.46	39.16	-64.98	-64.42	75.87	301.07	0.23
6100.00	1.87	275.64	6098.40	39.54	-68.53	-67.96	79.12	299.98	0.35
6200.00	1.50	274.68	6198.35	39.81	-71.46	-70.89	81.80	299.12	0.37
6300.00	1.33	279.88	6298.32	40.11	-73.90	-73.33	84.09	298.49	0.21
6400.00	1.14	281.08	6398.30	40.50	-76.02	-75.44	86.14	298.05	0.19
6500.00	0.85	277.70	6498.29	40.79	-77.73	-77.14	87.78	297.69	0.29
6600.00	0.57	230.31	6598.28	40.57	-78.85	-78.27	88.68	297.23	0.63
6700.00	0.44	187.76	6698.28	39.88	-79.29	-78.72	88.75	296.70	0.39
6800.00	0.31	145.20	6798.27	39.27	-79.19	-78.62	88.39	296.38	0.30
6900.00	0.45	148.47	6898.27	38.72	-78.83	-78.27	87.82	296.16	0.14
7000.00	0.59	161.73	6998.27	37.90	-78.46	-77.92	87.14	295.78	0.18
7100.00	1.18	182.01	7098.25	36.38	-78.34	-77.82	86.37	294.91	0.66
7175.00	2.11	183.30	7173.22	34.23	-78.44	-77.95	85.59	293.58	1.24



Vaughn Energy Services  
(432) 563-5444  
Gardendale, TX  
Surveyor: Colby Ware  
ONYX PWU 29 No. 4H / API 30-015-40424



VES Survey Date: 09/02/2012



# Weatherford®

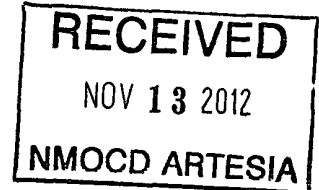
Evaluation, Drilling & Intervention  
10000 West County Rd. 116  
P.O. Box 61028  
Midland, TX USA 79711  
Tel. (432) 561-8892 Fax (432) 561-8895

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

Date: September 12, 2012

Attention: John Logemann

Re: Devon Energy  
Well: Onyx PWU 29 #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 &amp; 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	4H	7249' MD 12054' MD	9/2/2012 9/11/2012	Measurement While Drilling

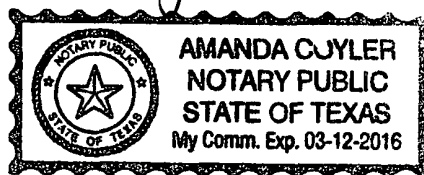
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar  
Area Manager

On this, the 14<sup>th</sup> day of September, 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.

Amanda Cuyler  
Notary Public



<b>Company:</b> Devon Energy <b>Field:</b> Eddy Co., NM (NAD 83) <b>Site:</b> Onyx PWU 29 #4H <b>Well:</b> Onyx PWU 29 #4H <b>Wellpath:</b> 1	<b>Date:</b> 9/11/2012 <b>Co-ordinate(NE) Reference:</b> Well Onyx PWU 29 #4H, Grid North <b>Vertical (TVD) Reference:</b> SITE 3331.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,89 19Azi) <b>Survey Calculation Method:</b> Minimum Curvature	<b>Time:</b> 07:04 55 <b>Db:</b> Sybase	<b>Page:</b> 1
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<b>Survey:</b> Wft Svy  <b>Company:</b> Weatherford <b>Tool:</b> MWD,MWD - Standard	<b>Start Date:</b> 9/4/2012  <b>Engineer:</b> Russell W Joyner <b>Tied-to:</b> User Defined
--	--

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

<b>Site:</b> Onyx PWU 29 #4H			
<b>Site Position:</b>	<b>Northing:</b> 591363 88 ft	<b>Latitude:</b> 32 37 31 790 N	
<b>From:</b> Map	<b>Easting:</b> 611857 92 ft	<b>Longitude:</b> 104 6 15 390 W	
<b>Position Uncertainty:</b> 0 00 ft		<b>North Reference:</b> Grid	
<b>Ground Level:</b> 3312 00 ft		<b>Grid Convergence:</b> 0 12 deg	

<b>Well:</b> Onyx PWU 29 #4H	<b>Slot Name:</b>
<b>Well Position:</b> +N/-S 0 00 ft	<b>Latitude:</b> 32 37 31 790 N
+E/-W 0 00 ft	<b>Longitude:</b> 104 6 15 390 W
<b>Position Uncertainty:</b> 0 00 ft	

<b>Wellpath:</b> 1	<b>Drilled From:</b> Surface
<b>Current Datum:</b> SITE	<b>Tie-on Depth:</b> 0 00 ft
<b>Magnetic Data:</b> 9/15/2012	<b>Above System Datum:</b> Mean Sea Level
<b>Field Strength:</b> 48699 nT	<b>Declination:</b> 7 71 deg
<b>Vertical Section: Depth From (TVD)</b>	<b>Mag Dip Angle:</b> 60 44 deg
ft	<b>Direction</b>
ft	deg
0.00	0 00
0 00	0 00
0 00	89.19

**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
7175 00	2 11	183 30	7173 22	34 23	-78 44	0 00	-77 95	591398 11	611779 48	Tie On Ves
7249 00	1 82	138 13	7247 18	31 99	-77 73	2 07	-77 27	591395 87	611780 19	First Wft Svy
7281 00	4 51	98 91	7279 13	31.42	-76 15	10 33	-75 70	591395 30	611781 77	
7313 00	8 49	96 27	7310 92	30 97	-72.56	12 47	-72 11	591394 85	611785.36	
7344 00	12.23	95 72	7341 41	30 39	-67.02	12 07	-66.58	591394 27	611790 90	
7376 00	16 06	94 06	7372 43	29 74	-59 22	12 03	-58 80	591393.62	611798 70	
7408.00	19.65	93 79	7402 89	29 07	-49.44	11 22	-49 02	591392 95	611808 48	
7440 00	23 26	89 68	7432 67	28 75	-37 75	12 21	-37 34	591392 63	611820 17	
7472.00	26 19	85 97	7461.73	29 28	-24 38	10 36	-23 96	591393 16	611833 54	
7504 00	28 76	82 92	7490 12	30 73	-9 69	9 15	-9 26	591394 61	611848 23	
7536.00	30 97	85 69	7517 87	32 29	6 16	8 14	6 62	591396 17	611864 08	
7568 00	32.52	88.49	7545 08	33.14	22 97	6 68	23 44	591397 02	611880 89	
7600 00	32.92	91 69	7572 01	33 11	40.26	5 55	40 73	591396 99	611898 18	
7632 00	35.50	93.98	7598 47	32 21	58.23	9 01	58 68	591396 09	611916 15	
7663.00	39 02	94.75	7623 14	30.78	76 94	11 45	77 36	591394 66	611934 86	
7695 00	42 67	95.74	7647 34	28.86	97.77	11.58	98 17	591392 74	611955 69	
7727 00	46 13	96 20	7670 20	26 53	120 04	10 86	120 40	591390 41	611977 96	
7759 00	49 76	95 81	7691 64	24 04	143 66	11 38	143.99	591387.92	612001 58	
7791 00	52 93	93 41	7711 62	22 05	168 57	11 51	168.86	591385 93	612026 49	
7823 00	56 20	91 38	7730.17	20 97	194 61	11 45	194 89	591384 85	612052 53	
7855 00	59.95	90 69	7747 09	20.48	221.76	11 86	222.03	591384 36	612079.68	
7887 00	63 49	90 29	7762 25	20 24	249 94	11 12	250.20	591384.12	612107 86	
7918 00	67 80	90 05	7775 03	20.16	278.17	13 92	278 43	591384 04	612136.09	
7950 00	71.76	90.53	7786 09	20 00	308.19	12 45	308 44	591383 88	612166 11	



# Weatherford WFT Survey Report X & Y's



Company: Devon Energy  
 Field: Eddy Co., NM (NAD 83)  
 Site: Onyx PWU 29 #4H  
 Well: Onyx PWU 29 #4H  
 Wellpath: 1

Date: 9/11/2012 Time: 07:04.55 Page: 2  
 Co-ordinate(NE) Reference: Well: Onyx PWU 29 #4H, Grid North  
 Vertical (TVD) Reference: SITE 3331 0  
 Section (VS) Reference: Well (0.00N,0.00E,89.19Azi)  
 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
7982.00	75.62	90.66	7795.08	19.68	338.90	12.07	339.14	591383.56	612196.82	
8014.00	79.76	91.41	7801.90	19.12	370.15	13.14	370.38	591383.00	612228.07	
8046.00	82.13	92.02	7806.93	18.17	401.73	7.64	401.95	591382.05	612259.65	
8078.00	82.76	91.09	7811.14	17.31	433.44	3.49	433.64	591381.19	612291.36	
8110.00	84.81	92.01	7814.60	16.45	465.24	7.01	465.43	591380.33	612323.16	
8142.00	86.64	92.24	7816.99	15.27	497.13	5.76	497.29	591379.15	612355.05	
8174.00	86.85	92.39	7818.81	13.98	529.05	0.81	529.20	591377.86	612386.97	
8205.00	87.49	92.10	7820.34	12.76	559.99	2.27	560.11	591376.64	612417.91	
8237.00	89.51	91.64	7821.17	11.72	591.96	6.47	592.07	591375.60	612449.88	
8269.00	90.63	91.54	7821.14	10.83	623.95	3.51	624.04	591374.71	612481.87	
8301.00	90.70	91.42	7820.76	10.01	655.93	0.43	656.01	591373.89	612513.85	
8333.00	90.70	91.18	7820.37	9.28	687.92	0.75	687.99	591373.16	612545.84	
8365.00	90.70	91.44	7819.98	8.55	719.91	0.81	719.96	591372.43	612577.83	
8396.00	90.70	91.55	7819.60	7.74	750.90	0.35	750.93	591371.62	612608.82	
8460.00	90.21	90.96	7819.10	6.34	814.88	1.20	814.89	591370.22	612672.80	
8556.00	89.37	89.55	7819.45	5.91	910.88	1.71	910.87	591369.79	612768.80	
8651.00	89.16	88.69	7820.67	7.37	1005.86	0.93	1005.86	591371.25	612863.78	
8747.00	88.81	88.99	7822.37	9.31	1101.82	0.48	1101.84	591373.19	612959.74	
8842.00	88.46	89.20	7824.63	10.81	1196.78	0.43	1196.82	591374.69	613054.70	
8938.00	88.04	89.61	7827.56	11.81	1292.73	0.61	1292.77	591375.69	613150.65	
9034.00	87.69	89.84	7831.14	12.27	1388.66	0.44	1388.70	591376.15	613246.58	
9129.00	89.16	89.57	7833.75	12.76	1483.62	1.57	1483.66	591376.64	613341.54	
9225.00	89.51	89.53	7834.86	13.51	1579.61	0.37	1579.65	591377.39	613437.53	
9320.00	89.86	89.29	7835.39	14.49	1674.61	0.45	1674.65	591378.37	613532.53	
9416.00	89.72	89.40	7835.74	15.59	1770.60	0.19	1770.64	591379.47	613628.52	
9512.00	88.95	88.71	7836.85	17.17	1866.58	1.08	1866.64	591381.05	613724.50	
9607.00	88.53	88.86	7838.94	19.18	1961.54	0.47	1961.61	591383.06	613819.46	
9703.00	88.32	88.51	7841.58	21.39	2057.47	0.43	2057.57	591385.27	613915.39	
9799.00	88.39	88.91	7844.33	23.55	2153.41	0.42	2153.53	591387.43	614011.33	
9894.00	88.46	89.17	7846.95	25.14	2248.36	0.28	2248.49	591389.02	614106.28	
9990.00	88.17	89.13	7849.77	26.56	2344.31	0.30	2344.45	591390.44	614202.23	
10086.00	88.26	89.50	7852.76	27.71	2440.25	0.40	2440.40	591391.59	614298.17	
10182.00	88.25	89.77	7855.68	28.32	2536.21	0.28	2536.36	591392.20	614394.13	
10277.00	88.60	88.57	7858.29	29.70	2631.16	1.32	2631.32	591393.58	614489.08	
10373.00	88.67	88.82	7860.58	31.88	2727.11	0.27	2727.29	591395.76	614585.03	
10469.00	87.20	87.58	7864.04	34.89	2822.99	2.00	2823.21	591398.77	614680.91	
10565.00	86.56	87.72	7869.26	38.83	2918.77	0.68	2919.03	591402.71	614776.69	
10661.00	86.02	87.43	7875.48	42.88	3014.48	0.64	3014.79	591406.76	614872.40	
10757.00	86.23	88.20	7881.96	46.53	3110.19	0.83	3110.54	591410.41	614968.11	
10853.00	86.15	88.61	7888.34	49.20	3205.94	0.43	3206.32	591413.08	615063.86	
10948.00	86.35	88.95	7894.56	51.21	3300.72	0.41	3301.11	591415.09	615158.64	
11044.00	87.07	89.94	7900.07	52.14	3396.55	1.27	3396.95	591416.02	615254.47	
11139.00	89.09	90.35	7903.25	51.90	3491.50	2.17	3491.88	591415.78	615349.42	
11234.00	89.16	90.80	7904.70	50.95	3586.48	0.48	3586.84	591414.83	615444.40	
11329.00	88.88	90.50	7906.32	49.87	3681.46	0.43	3681.80	591413.75	615539.38	
11424.00	89.09	91.28	7908.01	48.40	3776.43	0.85	3776.74	591412.28	615634.35	
11519.00	89.65	91.22	7909.05	46.32	3871.40	0.59	3871.67	591410.20	615729.32	
11614.00	89.44	91.15	7909.81	44.36	3966.38	0.23	3966.61	591408.24	615824.30	
11709.00	88.33	90.41	7911.65	43.07	4061.35	1.40	4061.55	591406.95	615919.27	
11804.00	87.34	89.38	7915.24	43.24	4156.28	1.50	4156.48	591407.12	616014.20	
11898.00	86.44	88.70	7920.34	44.81	4250.13	1.20	4250.34	591408.69	616108.05	
11993.00	85.79	88.94	7926.78	46.76	4344.89	0.73	4345.12	591410.64	616202.81	





# Weatherford

## WFT Survey Report X & Y's



<b>Company:</b> Devon Energy <b>Field:</b> Eddy Co., NM (NAD 83) <b>Site:</b> Onyx PWU 29 #4H <b>Well:</b> Onyx PWU 29 #4H <b>Wellpath:</b> 1	<b>Date:</b> 9/11/2012 <b>Time:</b> 07:04:55 <b>Page:</b> 3 <b>Co-ordinate(NE) Reference:</b> Well Onyx PWU 29 #4H, Grid North <b>Vertical (TVD) Reference:</b> SITE 3331.0 <b>Section (VS) Reference:</b> Well (0.00N,0.00E,89 19Azi) <b>Survey Calculation Method:</b> Minimum Curvature <b>Db:</b> Sybase
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**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
12054 00	85 46	89 13	7931 43	47 79	4405 70	0 62	4405 94	591411 67	616263 62	Last Wft Svy
12120 00	85.10	89 34	7936 86	48 67	4471 47	0 63	4471 71	591412 55	616329 39	Proj To Bit

**Annotation**

MD ft	TVD ft	Comment
7175 00	7173 22	Tie On Ves
7249 00	7247 18	First Wft Svy
12054 00	7931 43	Last Wft Svy
12120 00	7936 86	Proj. To Bit

# devon

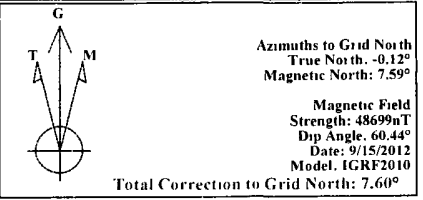
Onyx PWU 29 #4H  
Eddy Co, NM

KB ELEV: 3331  
GL ELEV: 3312

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	89.19	0.00	0.00	0.00	0.00	0.00	0.00	
2	7239.15	0.00	89.19	7239.15	0.00	0.00	0.00	0.00	0.00	
3	8127.88	88.87	89.19	7812.00	7.94	561.64	10.00	89.19	561.69	
4	9806.29	88.87	89.19	7845.00	31.68	2239.55	0.00	0.00	2239.77	Tgt
5	9843.34	87.76	89.19	7846.09	32.20	2276.58	3.00	180.00	2276.80	
6	12120.13	87.76	89.19	7935.00	64.38	4551.41	0.00	0.00	4551.87	PBHL

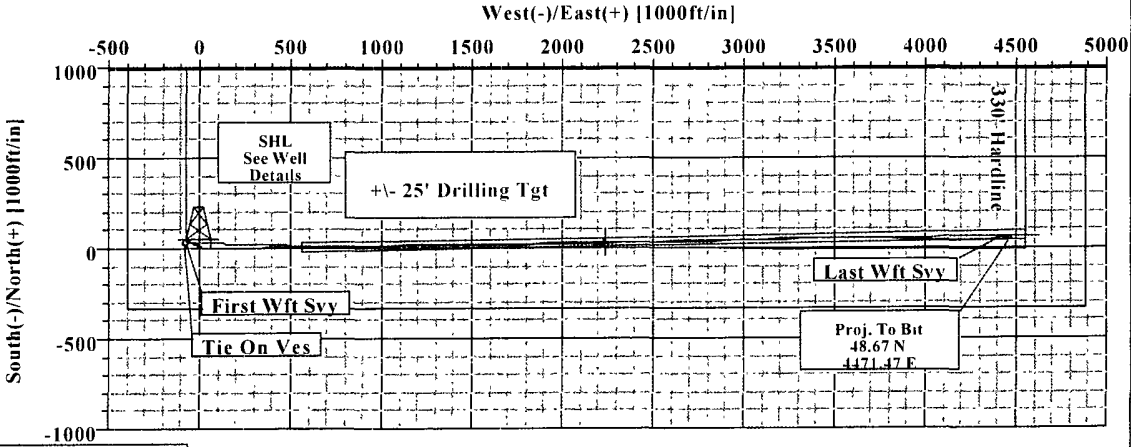
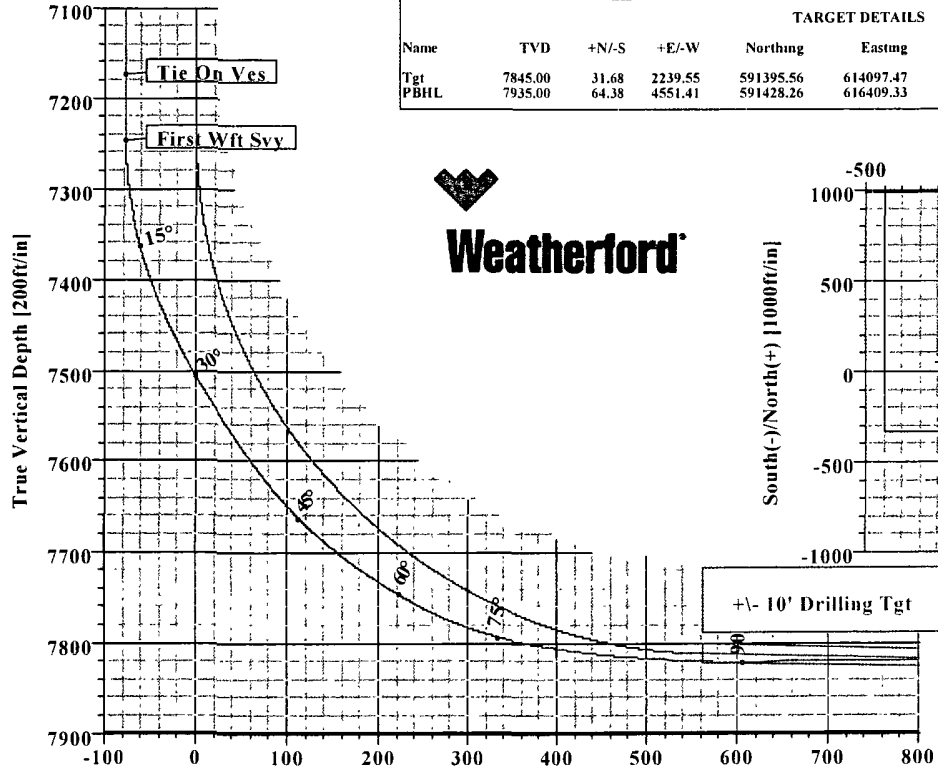
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude	Slot
Onyx PWU 29 #4H	0.00	0.00	591363.88	611857.92	32°37'31.790N	104°06'15.390W	N/A

TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude	Shape
Tgt	7845.00	31.68	2239.55	591395.56	614097.47	32°37'32.055N	104°05'49.201W	Rectangle (1682x50)
PBHL	7935.00	64.38	4551.41	591428.26	616409.33	32°37'32.327N	104°05'22.167W	Rectangle (2322x50)



**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



**LEGEND**

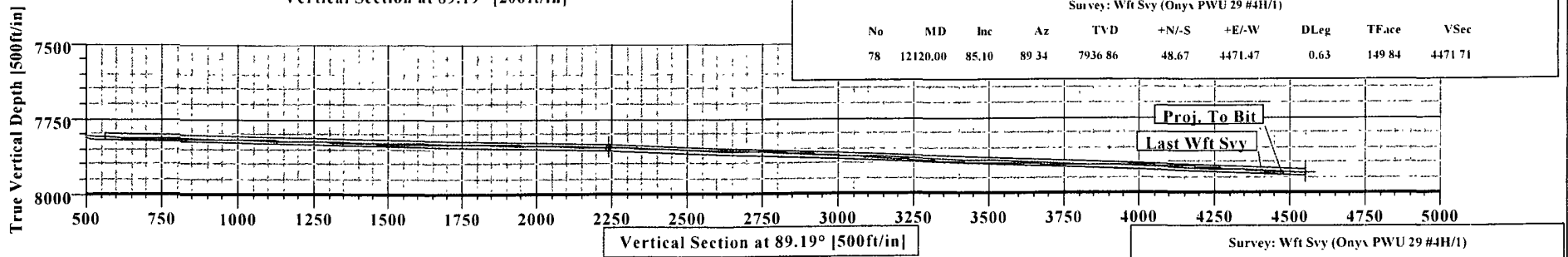
- Onyx PWU 29 #4H, I. Plan #3
- Wft Svy

**SITE DETAILS**  
Onyx PWU 29 #4H

Site Centre Northing: 591363.88  
 Easting: 611857.92  
 Ground Level: 3312.00  
 Positional Uncertainty: 0.00  
 Convergence: 0.12

Survey: Wft Svy (Onyx PWU 29 #4H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
78	12120.00	85.10	89.34	7936.86	48.67	4471.47	0.63	149.84	4471.71



Survey: Wft Svy (Onyx PWU 29 #4H/1)  
Created By: Russell W. Joyner Date: 9/11/2012



**McVAY DRILLING COMPANY**

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



Well Name and Num: Onyx PWU 29-4H  
Location: Sec. 29, 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>	<u>Degrees @</u>	<u>Depth</u>
0.82	194	0.50	6852	88.32	9703		
0.40	609	2.00	7175	88.52	10277		
0.80	1079	1.82	7249	87.20	10469		
0.20	2257	4.51	7281	86.23	10757		
0.20	2679	8.49	7313	88.39	11044		
0.40	3154	12.23	7344	89.16	11234		
0.50	3478	26.19	7472	89.44	11614		
2.20	4079	32.52	7568	85.46	12054		
2.10	4323	42.67	7695				
1.80	4608	56.00	7823				
1.87	4957	82.00	8046				
1.80	5187	87.00	8174				
2.60	5375	87.50	8205				
2.70	5662	88.80	8747				
2.80	5943	88.00	8938				
1.50	6232	89.50	9129				
1.00	6510	89.86	9320				

By: *Heider Crank*

Subscribed and sworn to before me this 13th day of September, 2012

*Tina Flemens*  
Notary Public, Lea County, New Mexico

