



A GYRO TECHNOLOGIES INC. COMPANY

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

30-015-40107

July 9, 2012

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

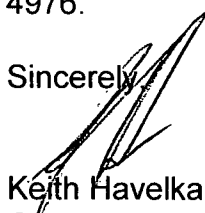
Attn: Mark Cooper

Re: **Big Aristotle 27 State No. 002**

Please find enclosed a copy of the survey from 0' to 7213' ran on the above referenced well.

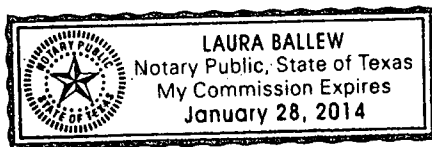
If I can be of any further service please do not hesitate to call me at 800-606-4976.

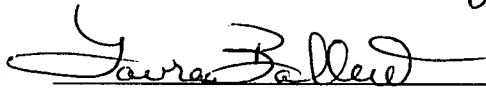
Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 11th day of July,
A.D., 2012, by Keith Havelka.





Laura Balley
Notary Public, State of Texas



Company: Devon Energy Production Co.
 Lease/Well: Big Aristotle 27 State/ No. 002
 Location: S35 T21s R31e
 Rig Name: HP 214
 State/County: New Mexico/Eddy
 Latitude: 32.44
 GRID North is 0.31 Degrees East of True North
 VS-Azi: 0.00 Degrees



RKB : 25'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: ... 27 state #002 gyro survey.ut

Minimum Curvature Method

Report Date/Time: 7/9/2012 / 10:26

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Dustin Wedel

Big Aristotle 27 State No. 002 / API 30-015-40107

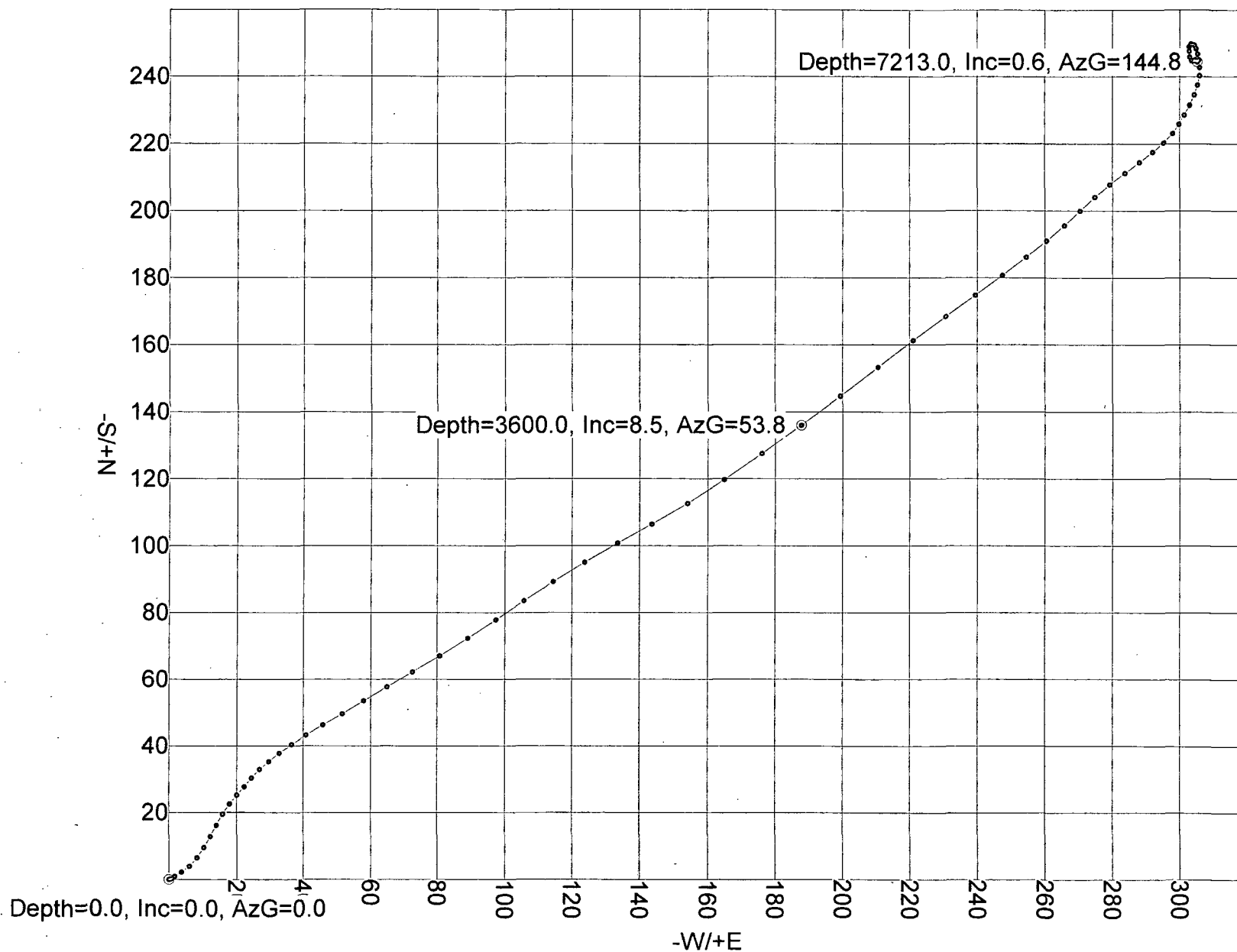
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.34	78.93	100.00	0.06	0.29	0.06	0.29	78.93	0.34
200.00	0.19	55.19	200.00	0.21	0.71	0.21	0.74	73.81	0.18
300.00	1.19	53.92	299.99	0.91	1.68	0.91	1.91	61.59	1.00
400.00	1.56	60.30	399.96	2.19	3.70	2.19	4.30	59.34	0.40
500.00	1.80	47.17	499.92	3.93	6.03	3.93	7.20	56.88	0.45
600.00	2.04	34.04	599.86	6.48	8.18	6.48	10.43	51.62	0.50
700.00	2.14	31.53	699.80	9.54	10.15	9.54	13.93	46.77	0.13
800.00	2.24	29.02	799.72	12.84	12.08	12.84	17.63	43.24	0.14
900.00	2.19	29.48	899.65	16.21	13.96	16.21	21.40	40.73	0.05
1000.00	2.14	29.95	999.58	19.50	15.84	19.50	25.12	39.09	0.05
1100.00	2.04	36.13	1099.51	22.56	17.82	22.56	28.75	38.31	0.25
1200.00	1.93	42.31	1199.45	25.23	20.00	25.23	32.20	38.40	0.24
1300.00	1.94	41.22	1299.39	27.75	22.25	27.75	35.57	38.72	0.04
1400.00	1.95	40.13	1399.34	30.33	24.46	30.33	38.96	38.89	0.04
1500.00	2.06	45.77	1499.27	32.88	26.85	32.88	42.45	39.23	0.22
1600.00	2.16	51.41	1599.21	35.31	29.61	35.31	46.08	39.98	0.23
1700.00	2.46	53.51	1699.13	37.76	32.80	37.76	50.02	40.98	0.31
1800.00	2.75	55.61	1799.02	40.39	36.51	40.39	54.44	42.11	0.31

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	3.18	57.72	1898.89	43.23	40.83	43.23	59.46	43.37	0.44
2000.00	3.60	59.82	1998.71	46.29	45.89	46.29	65.18	44.75	0.44
2100.00	4.03	59.06	2098.49	49.68	51.62	49.68	71.64	46.10	0.43
2200.00	4.45	58.30	2198.22	53.52	57.93	53.52	78.87	47.27	0.43
2300.00	4.90	59.34	2297.89	57.73	64.91	57.73	86.87	48.35	0.46
2400.00	5.34	60.38	2397.49	62.21	72.63	62.21	95.63	49.42	0.46
2500.00	5.53	58.37	2497.04	67.04	80.77	67.04	104.97	50.31	0.26
2600.00	5.71	56.36	2596.56	72.32	89.01	72.32	114.69	50.91	0.27
2700.00	5.77	56.20	2696.05	77.87	97.34	77.87	124.65	51.34	0.07
2800.00	5.84	56.04	2795.54	83.52	105.74	83.52	134.74	51.70	0.07
2900.00	6.13	57.41	2895.00	89.23	114.45	89.23	145.13	52.06	0.32
3000.00	6.41	58.78	2994.40	95.00	123.72	95.00	155.99	52.48	0.32
3100.00	6.58	60.05	3093.76	100.76	133.46	100.76	167.23	52.95	0.22
3200.00	6.75	61.31	3193.08	106.44	143.59	106.44	178.73	53.45	0.22
3300.00	7.20	58.23	3292.34	112.56	154.07	112.56	190.81	53.85	0.59
3400.00	7.66	55.16	3391.50	119.67	164.87	119.67	203.72	54.03	0.60
3500.00	8.08	54.48	3490.56	127.56	176.06	127.56	217.41	54.08	0.43
3600.00	8.50	53.79	3589.51	136.00	187.74	136.00	231.82	54.08	0.43
3700.00	8.24	52.92	3688.45	144.69	199.41	144.69	246.37	54.04	0.29
3800.00	7.97	52.06	3787.45	153.27	210.60	153.27	260.47	53.95	0.29
3900.00	7.23	52.98	3886.57	161.33	221.09	161.33	273.69	53.88	0.75
4000.00	6.49	53.91	3985.85	168.44	230.68	168.44	285.64	53.86	0.75
4100.00	5.95	53.62	4085.27	174.85	239.42	174.85	296.47	53.86	0.54
4200.00	5.41	53.34	4184.77	180.73	247.37	180.73	306.36	53.85	0.54
4300.00	4.79	51.92	4284.38	186.12	254.44	186.12	315.25	53.81	0.63
4400.00	4.18	50.51	4384.07	191.01	260.54	191.01	323.06	53.75	0.63
4500.00	3.81	47.58	4483.83	195.57	265.80	195.57	330.00	53.66	0.42
4600.00	3.45	44.65	4583.63	199.95	270.37	199.95	336.27	53.51	0.41
4700.00	3.39	48.63	4683.45	204.05	274.70	204.05	342.19	53.40	0.24
4800.00	3.34	52.62	4783.28	207.77	279.24	207.77	348.05	53.35	0.24
4900.00	3.18	52.97	4883.12	211.21	283.76	211.21	353.74	53.34	0.16
5000.00	3.02	53.31	4982.97	214.45	288.08	214.45	359.14	53.34	0.16
5100.00	2.67	50.25	5082.85	217.51	291.98	217.51	364.09	53.32	0.38
5200.00	2.32	47.20	5182.75	220.38	295.26	220.38	368.44	53.26	0.37
5300.00	2.04	38.87	5282.68	223.14	297.87	223.14	372.18	53.16	0.42
5400.00	1.76	30.53	5382.62	225.85	299.77	225.85	375.32	53.00	0.39
5500.00	1.87	28.75	5482.57	228.60	301.33	228.60	378.23	52.81	0.13
5600.00	1.98	26.98	5582.52	231.58	302.90	231.58	381.28	52.60	0.13
5700.00	1.85	21.18	5682.46	234.63	304.27	234.63	384.23	52.36	0.23

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	1.72	15.37	5782.41	237.58	305.25	237.58	386.81	52.11	0.22
5900.00	1.51	5.38	5882.37	240.35	305.78	240.35	388.93	51.83	0.35
6000.00	1.31	355.38	5982.34	242.80	305.81	242.80	390.47	51.55	0.32
6100.00	1.17	351.54	6082.32	244.95	305.57	244.95	391.62	51.28	0.16
6200.00	1.03	347.71	6182.30	246.84	305.22	246.84	392.54	51.04	0.15
6300.00	0.83	337.78	6282.29	248.39	304.76	248.39	393.16	50.82	0.26
6400.00	0.64	327.85	6382.28	249.54	304.19	249.54	393.44	50.64	0.24
6500.00	0.68	253.57	6482.27	249.84	303.32	249.84	392.96	50.52	0.80
6600.00	0.73	179.29	6582.27	249.03	302.75	249.03	392.01	50.56	0.86
6700.00	0.89	177.95	6682.26	247.62	302.79	247.62	391.15	50.72	0.15
6800.00	1.04	176.61	6782.24	245.94	302.87	245.94	390.15	50.92	0.16
6900.00	0.65	112.82	6882.24	244.82	303.45	244.82	389.89	51.10	0.95
7000.00	0.26	13.03	6982.23	244.82	304.02	244.82	390.34	51.16	0.74
7100.00	0.34	97.61	7082.23	245.00	304.36	245.00	390.72	51.17	0.41
7200.00	0.61	137.46	7182.23	244.57	305.01	244.57	390.96	51.28	0.41
7213.00	0.60	144.83	7195.23	244.46	305.10	244.46	390.96	51.30	0.60



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Dustin Wedel
Big Aristotle 27 State No. 002 / API 30-015-40107



VES Survey Date: 07/01/2012



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: July 13, 2012

Attention: Eric Cogburn

Re: Devon Energy
Well: Big Aristotle 27 State #2H
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:

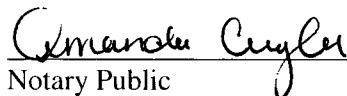
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Chris Torres MWD Supervisor	2H	7251' MD 12985' MD	6/30/2012 7/13/2012	Measurement While Drilling

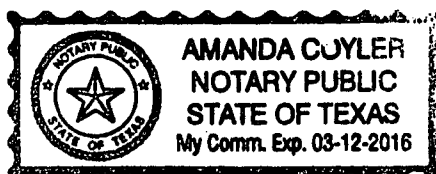
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
Area Manager

On this, the 13th day of July, 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





Weatherford

WFT Survey Report X & Y's



Company: Devon Energy Date: 7/13/2012 Time: 05:33:01 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: BA 27 State #2H, Grid North
Site: Big Aristotle 27 State #2H Vertical (TVD) Reference: SITE 3517.0
Well: BA 27 State #2H Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy

Start Date: 7/3/2012

Company: Weatherford
Tool: MWD;MWD - Standard

Engineer: Russell W. Joyner
Tied-to: User Defined

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Big Aristotle 27 State #2H

Site Position: Northing: 524462.11 ft Latitude: 32 26 25.804 N
From: Map Easting: 718398.70 ft Longitude: 103 45 33.818 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3492.00 ft Grid Convergence: 0.31 deg

Well: BA 27 State #2H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 524462.11 ft Latitude: 32 26 25.804 N
+E/-W 0.00 ft Easting: 718398.70 ft Longitude: 103 45 33.818 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Current Datum: SITE Height 3517.00 ft
Magnetic Data: 7/2/2012
Field Strength: 48647 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 0.00

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.56 deg
Mag Dip Angle: 60.33 deg
+E/-W Direction
ft deg
0.00 0.00 0.00 0.00

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
7213.00	0.60	144.83	7195.23	244.46	305.10	0.00	244.48	524706.57	718703.80	Tie on VES First Wft Svy
7251.00	0.51	131.37	7233.23	244.19	305.34	0.42	244.21	524706.30	718704.04	
7282.00	0.42	160.01	7264.22	243.99	305.48	0.79	244.01	524706.10	718704.18	
7314.00	0.38	9.78	7296.22	243.98	305.54	2.42	244.00	524706.09	718704.24	
7333.00	1.69	294.86	7315.22	244.16	305.30	8.59	244.18	524706.27	718704.00	
7370.00	4.61	0.38	7352.17	245.88	304.81	11.35	245.90	524707.99	718703.51	
7401.00	8.09	358.39	7382.97	249.31	304.76	11.25	249.33	524711.42	718703.46	
7432.00	11.71	355.70	7413.51	254.63	304.46	11.77	254.64	524716.74	718703.16	
7464.00	15.05	355.29	7444.64	262.01	303.88	10.44	262.03	524724.12	718702.58	
7495.00	19.15	354.78	7474.26	271.08	303.08	13.23	271.10	524733.19	718701.78	
7526.00	21.77	354.17	7503.30	281.87	302.04	8.48	281.89	524743.98	718700.74	
7558.00	23.37	350.52	7532.85	294.03	300.39	6.64	294.05	524756.14	718699.09	
7589.00	25.86	348.25	7561.03	306.72	298.00	8.59	306.74	524768.83	718696.70	
7620.00	28.96	346.23	7588.55	320.63	294.84	10.44	320.65	524782.74	718693.54	
7652.00	32.13	346.48	7616.10	336.43	291.00	9.91	336.45	524798.54	718689.70	
7683.00	35.64	347.77	7641.84	353.28	287.16	11.56	353.30	524815.39	718685.86	
7714.00	39.07	350.08	7666.47	371.74	283.56	11.95	371.76	524833.85	718682.26	
7746.00	41.78	353.76	7690.84	392.28	280.67	11.28	392.29	524854.39	718679.37	
7777.00	45.10	356.31	7713.34	413.51	278.84	12.11	413.52	524875.62	718677.54	
7808.00	48.55	356.98	7734.55	436.07	277.52	11.24	436.09	524898.18	718676.22	
7840.00	51.11	357.31	7755.19	460.49	276.30	8.04	460.51	524922.60	718675.00	
7871.00	53.50	358.27	7774.15	485.00	275.36	8.09	485.02	524947.11	718674.06	
7903.00	56.44	358.23	7792.51	511.19	274.56	9.19	511.21	524973.30	718673.26	
7934.00	58.49	357.61	7809.18	537.30	273.61	6.82	537.32	524999.41	718672.31	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Big Aristotle 27 State #2H
Well: BA 27 State #2H
Wellpath: 1

Date: 7/13/2012 Time: 05:33:01 Page: 2
Co-ordinate(NE) Reference: Well: BA 27 State #2H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
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
7965.00	59.72	356.98	7825.10	563.87	272.35	4.33	563.89	525025.98	718671.05	
7997.00	60.69	357.09	7841.00	591.61	270.91	3.05	591.62	525053.72	718669.61	
8028.00	60.52	357.36	7856.22	618.58	269.61	0.94	618.60	525080.69	718668.31	
8059.00	61.15	358.08	7871.32	645.63	268.53	2.87	645.65	525107.74	718667.23	
8090.00	62.68	358.87	7885.92	672.97	267.80	5.42	672.99	525135.08	718666.50	
8122.00	65.56	357.90	7899.88	701.75	266.99	9.40	701.76	525163.86	718665.69	
8153.00	67.99	357.49	7912.11	730.21	265.84	7.93	730.23	525192.32	718664.54	
8184.00	70.74	356.72	7923.03	759.18	264.38	9.17	759.20	525221.29	718663.08	
8216.00	74.35	355.74	7932.63	789.64	262.37	11.65	789.65	525251.75	718661.07	
8247.00	78.44	355.82	7939.92	819.68	260.15	13.20	819.69	525281.79	718658.85	
8279.00	81.86	355.26	7945.39	851.11	257.70	10.83	851.12	525313.22	718656.40	
8309.00	85.59	354.83	7948.67	880.81	255.12	12.51	880.83	525342.92	718653.82	
8326.00	87.62	355.06	7949.68	897.71	253.63	12.02	897.73	525359.82	718652.33	
8358.00	88.74	355.36	7950.69	929.58	250.96	3.62	929.60	525391.69	718649.66	
8389.00	89.16	355.74	7951.26	960.48	248.55	1.83	960.50	525422.59	718647.25	
8420.00	89.09	355.74	7951.74	991.40	246.25	0.23	991.41	525453.51	718644.95	
8514.00	89.16	356.15	7953.17	1085.15	239.60	0.44	1085.16	525547.26	718638.30	
8608.00	89.79	356.58	7954.03	1178.96	233.64	0.81	1178.97	525641.07	718632.34	
8702.00	91.89	356.91	7952.66	1272.79	228.31	2.26	1272.80	525734.90	718627.01	
8797.00	91.96	356.98	7949.46	1367.60	223.25	0.10	1367.61	525829.71	718621.95	
8891.00	91.26	356.28	7946.82	1461.40	217.72	1.05	1461.41	525923.51	718616.42	
8985.00	91.54	356.95	7944.53	1555.21	212.17	0.77	1555.22	526017.32	718610.87	
9079.00	88.81	356.26	7944.24	1649.03	206.61	3.00	1649.04	526111.14	718605.31	
9173.00	88.46	355.90	7946.48	1742.78	200.18	0.53	1742.80	526204.89	718598.88	
9267.00	90.07	357.15	7947.68	1836.60	194.49	2.17	1836.61	526298.71	718593.19	
9361.00	91.40	357.85	7946.48	1930.50	190.39	1.60	1930.51	526392.61	718589.09	
9455.00	89.37	358.36	7945.85	2024.44	187.28	2.23	2024.45	526486.55	718585.98	
9549.00	89.58	358.58	7946.71	2118.40	184.77	0.32	2118.41	526580.51	718583.47	
9644.00	89.16	358.37	7947.75	2213.36	182.24	0.49	2213.38	526675.47	718580.94	
9738.00	90.21	358.77	7948.27	2307.33	179.90	1.20	2307.34	526769.44	718578.60	
9832.00	91.19	359.23	7947.12	2401.31	178.26	1.15	2401.32	526863.42	718576.96	
9926.00	91.19	357.22	7945.17	2495.24	175.35	2.14	2495.25	526957.35	718574.05	
10020.00	90.56	355.73	7943.73	2589.05	169.57	1.72	2589.06	527051.16	718568.27	
10114.00	90.77	355.76	7942.64	2682.78	162.59	0.23	2682.79	527144.89	718561.29	
10208.00	90.91	355.91	7941.26	2776.52	155.77	0.22	2776.53	527238.63	718554.47	
10302.00	91.33	356.15	7939.43	2870.28	149.26	0.51	2870.29	527332.39	718547.96	
10396.00	90.70	355.98	7937.76	2964.04	142.81	0.69	2964.05	527426.15	718541.51	
10490.00	88.46	353.50	7938.45	3057.63	134.19	3.55	3057.64	527519.74	718532.89	
10584.00	88.53	354.45	7940.92	3151.08	124.33	1.01	3151.09	527613.19	718523.03	
10678.00	90.28	356.67	7941.90	3244.78	117.06	3.01	3244.79	527706.89	718515.76	
10772.00	90.56	356.68	7941.21	3338.62	111.60	0.30	3338.63	527800.73	718510.30	
10866.00	91.33	356.53	7939.66	3432.44	106.04	0.83	3432.45	527894.55	718504.74	
10960.00	90.28	356.30	7938.34	3526.25	100.16	1.14	3526.25	527988.36	718498.86	
11054.00	90.63	356.36	7937.59	3620.05	94.14	0.38	3620.06	528082.16	718492.84	
11148.00	91.26	356.54	7936.04	3713.86	88.32	0.70	3713.86	528175.97	718487.02	
11242.00	90.07	356.89	7934.95	3807.70	82.94	1.32	3807.70	528269.81	718481.64	
11336.00	88.81	357.29	7935.87	3901.57	78.17	1.41	3901.57	528363.68	718476.87	
11430.00	91.82	358.46	7935.35	3995.49	74.68	3.44	3995.49	528457.60	718473.38	
11524.00	90.91	357.45	7933.11	4089.40	71.33	1.45	4089.40	528551.51	718470.03	
11618.00	91.61	358.81	7931.04	4183.32	68.26	1.63	4183.33	528645.43	718466.96	
11712.00	90.21	357.60	7929.55	4277.26	65.32	1.97	4277.27	528739.37	718464.02	
11806.00	90.63	358.00	7928.86	4371.19	61.71	0.62	4371.19	528833.30	718460.41	



Weatherford

WFT Survey Report X & Y's



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Big Aristotle 27 State #2H
Well: BA 27 State #2H
Wellpath: 1

Date: 7/13/2012 Time: 05:33:01 Page: 3
Co-ordinate(NE) Reference: Well: BA 27 State #2H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
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
11901.00	91.19	358.28	7927.35	4466.13	58.63	0.66	4466.13	528928.24	718457.33	
11995.00	90.35	357.17	7926.09	4560.04	54.89	1.48	4560.05	529022.15	718453.59	
12089.00	91.05	357.59	7924.94	4653.94	50.60	0.87	4653.94	529116.05	718449.30	
12182.00	87.90	355.60	7925.79	4746.75	45.08	4.01	4746.76	529208.86	718443.78	
12276.00	87.34	355.34	7929.70	4840.38	37.66	0.66	4840.38	529302.49	718436.36	
12371.00	88.25	355.68	7933.35	4935.01	30.23	1.02	4935.02	529397.12	718428.93	
12465.00	92.17	356.97	7933.01	5028.80	24.20	4.39	5028.80	529490.91	718422.90	
12559.00	93.43	357.44	7928.42	5122.57	19.62	1.43	5122.58	529584.68	718418.32	
12653.00	92.03	357.35	7923.94	5216.37	15.36	1.49	5216.37	529678.48	718414.06	
12748.00	90.49	356.76	7921.85	5311.22	10.48	1.74	5311.22	529773.33	718409.18	
12843.00	91.05	357.04	7920.57	5406.07	5.34	0.66	5406.07	529868.18	718404.04	
12937.00	90.91	356.97	7918.97	5499.93	0.43	0.17	5499.93	529962.04	718399.13	
12985.00	91.54	357.70	7917.94	5547.86	-1.80	2.01	5547.86	530009.97	718396.90	Last Wft Svy
13050.00	91.54	357.70	7916.19	5612.79	-4.41	0.00	5612.79	530074.90	718394.29	Proj. To Bit

Annotation

MD ft	TVD ft	
7213.00	7195.23	Tie on VES
7251.00	7233.23	First Wft Svy
12985.00	7917.94	Last Wft Svy
13050.00	7916.19	Proj. To Bit



Big Aristotle 27 State #2H
Eddy Co., New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	11336.00	88.81	357.29	7935.87	3901.57	78.17	0.00	0.00	3901.57	
2	11394.46	90.56	357.40	7936.19	3959.96	75.46	3.00	3.57	3959.97	
3	13049.49	90.56	357.40	7920.00	5613.21	0.36	0.00	0.00	5613.21	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
BA 27 State #2H	0.00	0.00	524462.11	718398.70	32°26'25.804N	103°45'33.818W	N/A

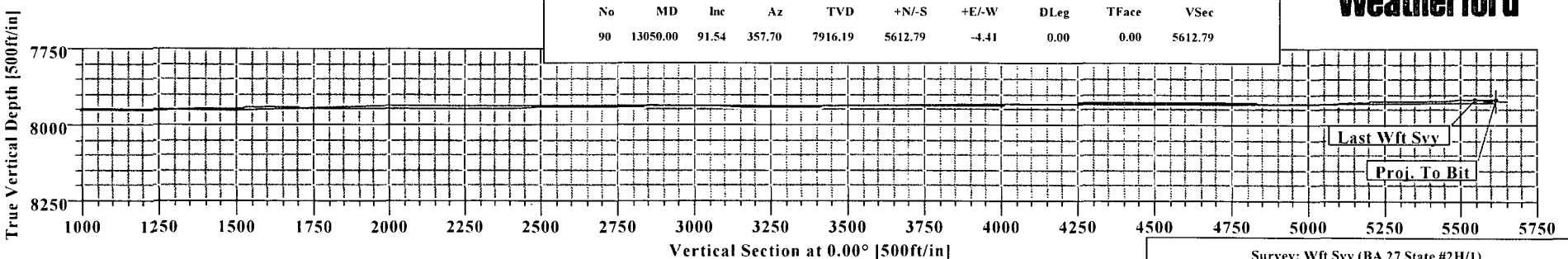
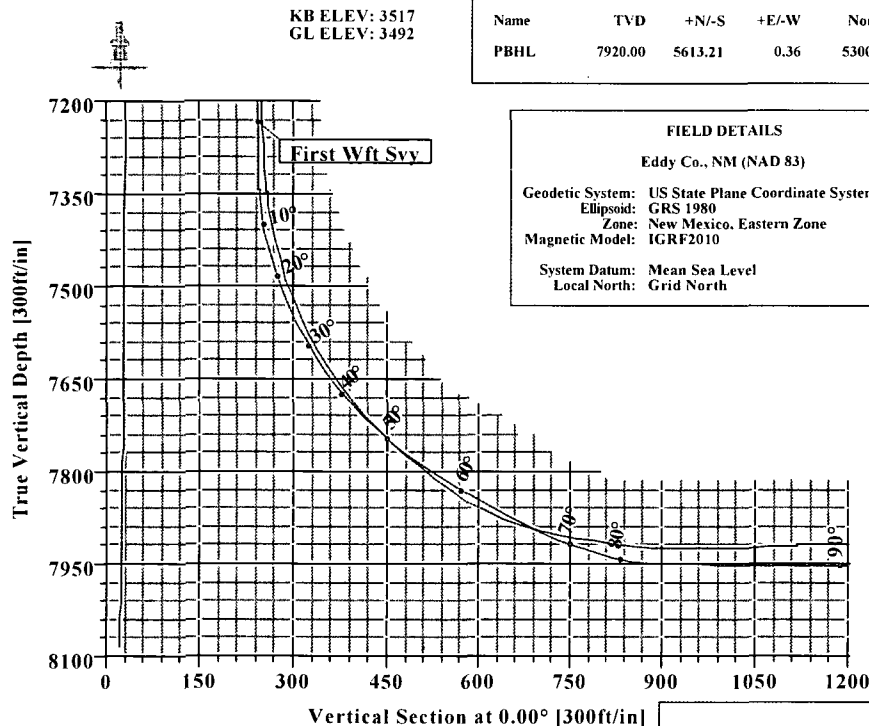
TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7920.00	5613.21	0.36	530075.32	718399.06	32°27'21.348N	103°45'33.462W	Point

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

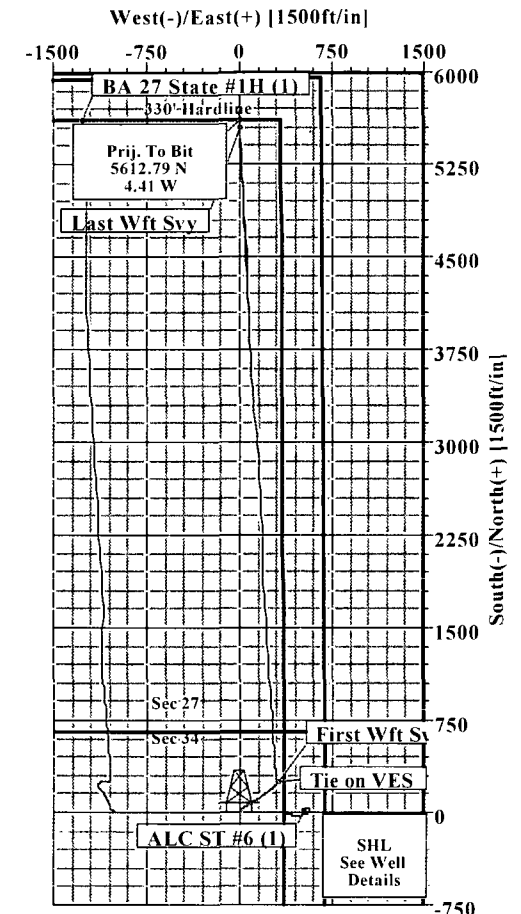
SITE DETAILS	
Big Aristotle 27 State #2H	
Site Centre Northing:	524462.11
Easting:	718398.70
Ground Level:	3492.00
Positional Uncertainty:	0.00
Convergence:	0.31

Azimuths to Grid North	
True North:	-0.31°
Magnetic North:	7.25°
Magnetic Field	
Strength:	48.647nT
Dip Angle:	60.33°
Date:	7/2/2012
Model:	IGRF2010
Total Correction to Grid North:	
7.25°	

LEGEND	
	BA 27 State #2H, 1 Plan 3
	BA 27 State #2H, 1 Gyro Svy
	BA 27 State #1H (1)
	ALC ST #6 (1)
	1 Wft Svy



Survey: Wft Svy (BA 27 State #2H/1)										
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	
90	13050.00	91.54	357.70	7916.19	5612.79	-4.41	0.00	0.00	5612.79	





BIG ARISTOTLE 27 STATE 2H

WEST UNRESTRICTED

Perforation Summary

District PERMIAN BASIN		County EDDY		Field Name LOST TANK		Project Group PB NEW MEXICO				State/Province NM					
Surface Legal Location SEC34 T21S R31E		API/UWI 3001540107		Latitude (°) 32° 26' 25.814" N		Longitude (°) 103° 45' 33.801" W		Ground Elev MSL (ft) 3,492.20		KB - Ground Level (ft) 25.00		Orig KB Elevation (ft) 3,517.20		Tubing Head Elevation (ft)	
Date	Zone	Top (ftKB)	Top (TVD) (ftKB)	Btm (ftKB)	Btm (TVD) (ftKB)	Current Status	Carrier Des	Gun Size (in)	Charge Type	Chg Sz (g)	Shot Dens (shots/ft)	Phasing (°)	Conveyance Method		
8/14/2012	DELAWARE, OH	8,420.0	7,951.7	8,422.0	7,951.8						4.0		WIRELINE		
8/14/2012	DELAWARE, OH	8,648.0	7,953.9	8,650.0	7,953.8						5.0		WIRELINE		
8/14/2012	DELAWARE, OH	8,875.0	7,947.2	8,877.0	7,947.1						6.0		WIRELINE		
8/14/2012	DELAWARE, OH	9,103.0	7,944.8	9,105.0	7,944.8						4.0		WIRELINE		
8/14/2012	DELAWARE, OH	9,330.0	7,947.1	9,332.0	7,947.1						5.0		WIRELINE		
8/14/2012	DELAWARE, OH	9,558.0	7,946.8	9,560.0	7,946.8						6.0		WIRELINE		
8/14/2012	DELAWARE, OH	9,785.0	7,947.9	9,787.0	7,947.9						4.0		WIRELINE		
8/14/2012	DELAWARE, OH	10,013.0	7,943.8	10,015.0	7,943.8						5.0		WIRELINE		
8/14/2012	DELAWARE, OH	10,240.0	7,940.7	10,242.0	7,940.7						6.0		WIRELINE		
8/13/2012	DELAWARE, OH	10,468.0	7,938.0	10,470.0	7,938.0						4.0		WIRELINE		
8/13/2012	DELAWARE, OH	10,695.0	7,941.8	10,697.0	7,941.8						5.0		WIRELINE		
8/13/2012	DELAWARE, OH	10,923.0	7,938.7	10,925.0	7,938.6						6.0		WIRELINE		
8/13/2012	DELAWARE, OH	11,150.0	7,936.0	11,152.0	7,936.0						4.0		WIRELINE		
8/13/2012	DELAWARE, OH	11,378.0	7,936.2	11,380.0	7,936.2						5.0		WIRELINE		
8/13/2012	DELAWARE, OH	11,605.0	7,931.4	11,607.0	7,931.3						6.0		WIRELINE		
8/13/2012	DELAWARE, OH	11,833.0	7,928.5	11,835.0	7,928.5						4.0		WIRELINE		
8/13/2012	DELAWARE, OH	12,060.0	7,925.4	12,062.0	7,925.4						5.0		WIRELINE		
8/13/2012	DELAWARE, OH	12,288.0	7,930.2	12,290.0	7,930.3						6.0		WIRELINE		
7/27/2012	DELAWARE, OH	12,515.0	7,930.8	12,517.0	7,930.7						4.0		WIRELINE		
7/27/2012	DELAWARE, OH	12,743.0	7,921.9	12,745.0	7,921.9						5.0		WIRELINE		
7/27/2012	DELAWARE, OH	12,970.0	7,918.3	12,972.0	7,918.3						6.0		WIRELINE		



Stimulations Summary

District	County	Field Name	Project Group	State/Province						
PERMIAN BASIN	EDDY	LOST TANK	PB NEW MEXICO	NM						
Surface Legal Location	API/UWI	Latitude (°)	Longitude (°)	Ground Elev...	KB - GL (ft)	Orig KB Elev (ft)	Tubing Head Elevation (ft)			
SEC34 T21S R31E	3001540107	32° 26' 25.814" N	103° 45' 33.801" W	3,492.20	25.00	3,517.20				
HYDRAULIC FRAC , 8/13/2012 07:33 , DELAWARE, OH , 12,515.0 ftKB - 12,972.0 ftKB, BJ Services , 311160.402 LBS; Ottawa 9751.2 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5261.00	0.0	1,306.0	2,577.0	1,306.0	4,879.0	80	5,949.0	80	4.00
HYDRAULIC FRAC , 8/13/2012 10:04 , DELAWARE, OH , 11,833.0 ftKB - 12,290.0 ftKB, BJ Services , 307969.203 LBS; Ottawa 9392.6 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5328.70	0.0	1,272.0	6,228.0	1,272.0	5,293.0	79	3,640.0	80	4.00
HYDRAULIC FRAC , 8/13/2012 19:00 , DELAWARE, OH , 11,150.0 ftKB - 11,607.0 ftKB, BJ Services , 308708.199 LBS; Ottawa 9300 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5291.80	0.0	1,335.0	4,593.0	1,335.0	5,371.0	80	7,436.0	81	4.00
HYDRAULIC FRAC , 8/14/2012 07:28 , DELAWARE, OH , 10,468.0 ftKB - 10,925.0 ftKB, BJ Services , 264621.101 LBS; Ottawa 9349 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	8213.60	0.0	1,355.0	3,383.0	1,355.0	4,809.0	80	6,055.0	80	4.00
HYDRAULIC FRAC , 8/14/2012 10:32 , DELAWARE, OH , 9,785.0 ftKB - 10,242.0 ftKB, BJ Services , 334883.498 LBS; Ottawa 9421.3 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5399.90	0.0	1,367.0	4,309.0	1,367.0	4,720.0	80	6,333.0	80	4.00
HYDRAULIC FRAC , 8/14/2012 13:23 , DELAWARE, OH , 9,103.0 ftKB - 9,560.0 ftKB, BJ Services , 297744.203 LBS; Ottawa 9402.9 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5276.60	0.0	1,419.0	1,419.0		4,708.5	80	6,212.0	80	4.00
HYDRAULIC FRAC , 8/14/2012 16:04 , DELAWARE, OH , 8,420.0 ftKB - 8,877.0 ftKB, BJ Services , 269615.401 LBS; Ottawa 9360.3 LBS										
Proppant De...	Total Clean Volu...	Pre Trt S/I Prs (psi)	Pst Trt S/I Prs (psi)	P Break (psi)	ISIP (psi)	Avg Treat Pressur...	Q Treat Avg (bbl/...	P Max (psi)	Q Treat Max (bbl/...	Conc Max...
310,625.0	5055.50	0.0	1,191.0	5,965.0	1,191.0	4,434.7	80	6,999.0	80	4.00