



A GYRO TECHNOLOGIES INC. COMPANY

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

30015 40106

June 26, 2012

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



Attn: Mark Cooper

Re: **Big Aristotle 27 State No. 001**

Please find enclosed a copy of the survey from 0' to 7119.29' 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.

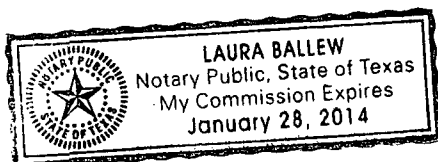
Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 27th day of June,
A.D., 2012, by Keith Havelka.

Laura Ballew
Notary Public, State of Texas





Company: Devon Energy Production Company
Lease/Well: Big Aristotle 27 State/No. 001
Location: S34 T21s R31e
Rig Name: H&P 416
State/County: New Mexico/Eddy
Latitude: 32.46
GRID North is 0.31 Degrees East of True North
VS-Azi: 0.00 Degrees



RKB : 25'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: ... 27 state #001 gyro_survey.ut

Minimum Curvature Method

Report Date/Time: 6/26/2012 / 10:02

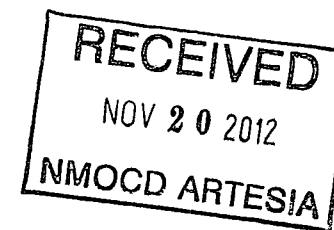
Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Dustin Wedel

Big Aristotle 27 State No. 001 / API 30-015-40106



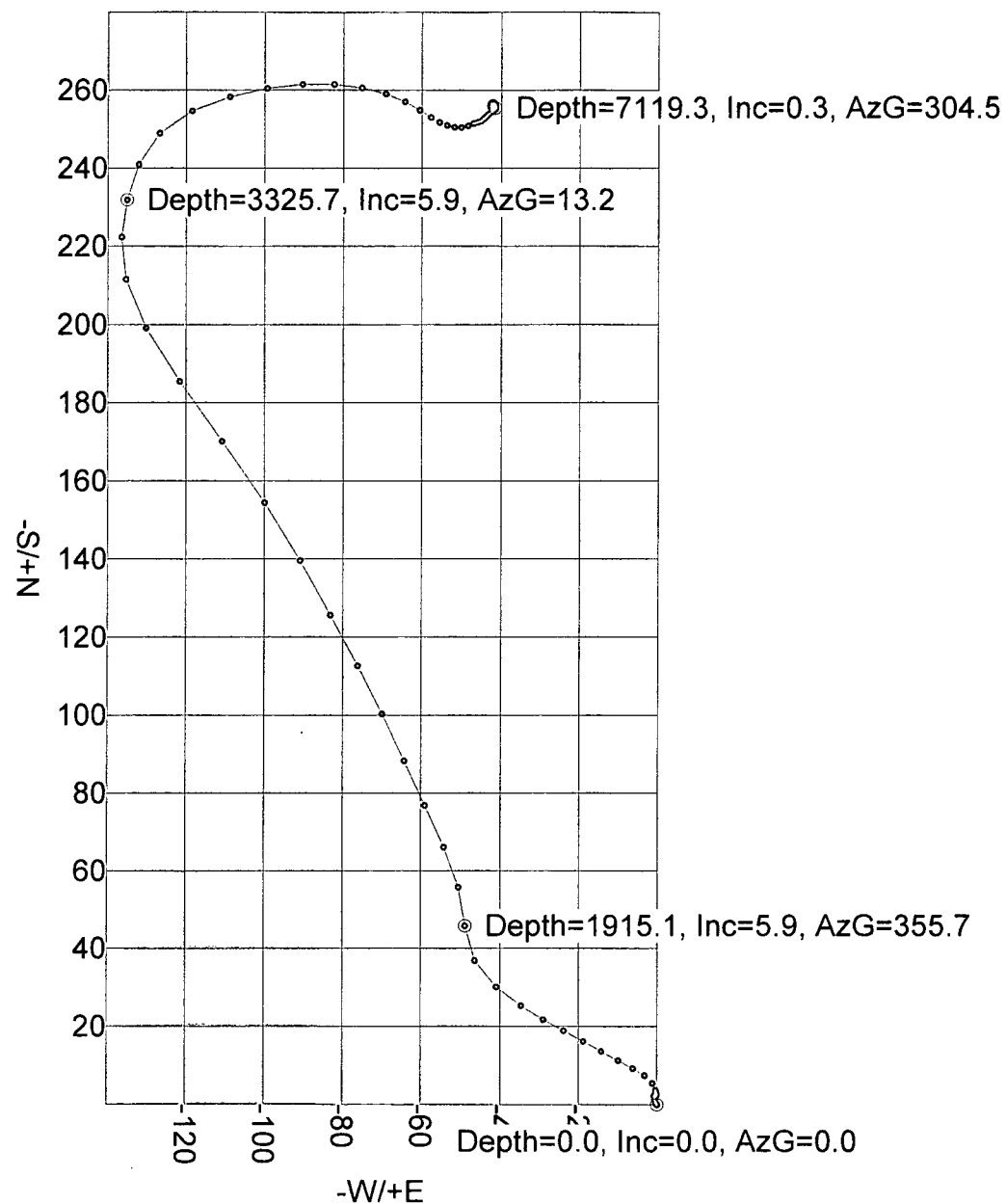
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
34.29	0.27	324.09	34.29	0.06	-0.05	0.06	0.08	324.09	0.78
128.33	0.28	334.71	128.33	0.45	-0.27	0.45	0.53	328.67	0.05
222.37	0.36	341.13	222.37	0.94	-0.47	0.94	1.05	333.50	0.10
316.41	0.38	352.40	316.41	1.53	-0.60	1.53	1.64	338.43	0.08
410.45	0.43	349.44	410.44	2.19	-0.71	2.19	2.30	342.01	0.06
504.49	0.42	86.27	504.48	2.56	-0.43	2.56	2.59	350.36	0.67
598.53	0.18	173.96	598.52	2.43	-0.08	2.43	2.43	358.17	0.48
692.57	0.42	354.86	692.56	2.62	-0.09	2.62	2.62	357.98	0.64
786.61	0.84	344.44	786.59	3.62	-0.31	3.62	3.63	355.15	0.46
880.65	1.60	329.89	880.61	5.42	-1.15	5.42	5.54	348.01	0.87
974.69	1.89	303.25	974.61	7.41	-3.11	7.41	8.03	337.23	0.91
1068.73	2.37	300.33	1068.58	9.24	-6.09	9.24	11.07	326.63	0.52
1162.77	2.85	297.42	1162.53	11.30	-9.84	11.30	14.99	318.95	0.53
1256.81	3.11	298.03	1256.44	13.58	-14.17	13.58	19.63	313.78	0.27
1350.85	3.36	298.63	1350.33	16.10	-18.84	16.10	24.78	310.51	0.27
1444.89	3.54	299.00	1444.20	18.83	-23.80	18.83	30.35	308.34	0.19
1538.93	3.72	299.37	1538.05	21.73	-29.00	21.73	36.24	306.84	0.19
1632.97	4.46	304.50	1631.85	25.30	-34.67	25.30	42.92	306.11	0.88

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
1727.01	5.21	309.63	1725.56	30.09	-40.98	30.09	50.84	306.29	0.91
1821.05	5.57	332.67	1819.19	36.87	-46.36	36.87	59.24	308.50	2.32
1915.09	5.94	355.72	1912.77	45.79	-48.82	45.79	66.93	313.16	2.47
2009.13	6.45	345.69	2006.26	55.76	-50.49	55.76	75.22	317.84	1.27
2103.17	6.96	335.66	2099.66	66.07	-54.14	66.07	85.42	320.67	1.36
2197.21	7.46	335.52	2192.96	76.82	-59.02	76.82	96.88	322.46	0.53
2291.25	7.95	335.37	2286.15	88.29	-64.26	88.29	109.20	323.95	0.53
2385.29	8.30	333.83	2379.24	100.30	-69.97	100.30	122.29	325.10	0.43
2479.33	8.64	332.30	2472.26	112.64	-76.24	112.64	136.01	325.91	0.43
2573.37	9.37	331.46	2565.14	125.61	-83.18	125.61	150.66	326.49	0.80
2667.41	10.11	330.63	2657.82	139.54	-90.89	139.54	166.53	326.92	0.80
2761.45	11.21	326.98	2750.24	154.39	-99.92	154.39	183.91	327.09	1.37
2855.49	12.31	323.34	2842.30	170.10	-110.88	170.10	203.05	326.90	1.41
2949.53	10.71	326.54	2934.45	185.43	-121.68	185.43	221.79	326.73	1.83
3043.57	9.11	329.74	3027.09	199.15	-130.25	199.15	237.96	326.81	1.80
3137.61	7.50	346.65	3120.15	211.55	-135.42	211.55	251.18	327.38	3.09
3231.65	5.89	3.57	3213.56	222.34	-136.54	222.34	260.92	328.45	2.69
3325.69	5.87	13.17	3307.10	231.84	-135.14	231.84	268.35	329.76	1.04
3419.73	5.84	22.77	3400.66	240.94	-132.19	240.94	274.82	331.25	1.04
3513.77	6.12	44.39	3494.20	248.94	-126.84	248.94	279.38	333.00	2.40
3607.81	6.39	66.01	3587.69	254.65	-118.55	254.65	280.89	335.04	2.51
3701.85	6.13	73.40	3681.17	258.21	-108.95	258.21	280.25	337.12	0.90
3795.89	5.88	80.80	3774.69	260.42	-99.38	260.42	278.73	339.11	0.87
3889.93	5.21	87.17	3868.29	261.40	-90.36	261.40	276.57	340.93	0.97
3983.97	4.54	93.54	3961.99	261.38	-82.38	261.38	274.05	342.51	0.91
4078.01	4.08	100.69	4055.77	260.53	-75.38	260.53	271.21	343.86	0.75
4172.05	3.62	107.83	4149.60	259.00	-69.27	259.00	268.10	345.03	0.71
4266.09	2.96	116.81	4243.48	256.99	-64.27	256.99	264.91	345.96	0.89
4360.13	2.30	125.78	4337.42	254.79	-60.57	254.79	261.89	346.63	0.83
4454.17	1.80	121.16	4431.40	252.93	-57.78	252.93	259.44	347.13	0.57
4548.21	1.29	116.53	4525.41	251.69	-55.57	251.69	257.76	347.55	0.55
4642.25	1.21	108.13	4619.43	250.91	-53.69	250.91	256.59	347.92	0.21
4736.29	1.12	99.73	4713.45	250.45	-51.84	250.45	255.76	348.31	0.20
4830.33	1.08	82.64	4807.47	250.41	-50.05	250.41	255.36	348.70	0.35
4924.37	1.04	65.54	4901.49	250.87	-48.39	250.87	255.50	349.08	0.34
5018.41	0.81	70.46	4995.52	251.45	-46.99	251.45	255.80	349.42	0.26
5112.45	0.58	75.38	5089.55	251.79	-45.90	251.79	255.94	349.67	0.25
5206.49	0.48	58.78	5183.59	252.12	-45.11	252.12	256.12	349.86	0.19
5300.53	0.39	42.18	5277.63	252.56	-44.55	252.56	256.46	350.00	0.17

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
5394.57	0.42	45.16	5371.67	253.03	-44.10	253.03	256.85	350.11	0.04
5488.61	0.45	48.15	5465.70	253.52	-43.58	253.52	257.24	350.25	0.04
5582.65	0.47	52.28	5559.74	254.00	-43.01	254.00	257.61	350.39	0.04
5676.69	0.49	56.41	5653.78	254.46	-42.36	254.46	257.96	350.55	0.04
5770.73	0.42	36.36	5747.81	254.96	-41.82	254.96	258.36	350.68	0.19
5864.77	0.34	16.30	5841.85	255.50	-41.54	255.50	258.85	350.76	0.16
5958.81	0.34	353.97	5935.89	256.04	-41.50	256.04	259.38	350.79	0.14
6052.85	0.35	331.64	6029.93	256.57	-41.66	256.57	259.93	350.78	0.14
6146.89	0.30	284.36	6123.97	256.88	-42.04	256.88	260.30	350.71	0.28
6240.93	0.26	237.09	6218.01	256.83	-42.46	256.83	260.32	350.61	0.24
6334.97	0.31	203.36	6312.04	256.49	-42.73	256.49	260.02	350.54	0.18
6429.01	0.36	169.63	6406.08	255.97	-42.78	255.97	259.52	350.51	0.21
6523.05	0.21	160.52	6500.12	255.52	-42.67	255.52	259.06	350.52	0.17
6617.09	0.05	151.41	6594.16	255.32	-42.59	255.32	258.85	350.53	0.16
6711.13	0.14	135.32	6688.20	255.20	-42.49	255.20	258.71	350.55	0.10
6805.17	0.24	119.22	6782.24	255.02	-42.24	255.02	258.49	350.60	0.11
6899.21	0.19	95.57	6876.28	254.91	-41.91	254.91	258.33	350.66	0.11
6993.25	0.21	40.44	6970.32	255.03	-41.65	255.03	258.40	350.72	0.20
7087.29	0.24	5.91	7064.36	255.36	-41.52	255.36	258.71	350.77	0.15
7119.29	0.25	304.54	7096.36	255.47	-41.57	255.47	258.82	350.76	0.79



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Dustin Wedel
Big Aristotle 27 State No. 001 / API 30-015-40106



VES Survey Date: 06/19/2012



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 3, 2012

Attention: Kurtis Schmitz

Re: Devon Energy
Well: Big Aristotle 27 State #1H
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>
Ben Hernandez MWD Supervisor	1H	7198' MD 12968' MD	6/20/2010 7/1/2010	Measurement While Drilling

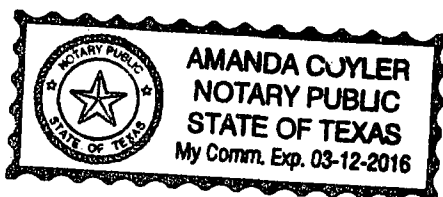
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesus Aguilar
Area Manager

On this, the 9th 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.

Notary Public





Weatherford

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 7/2/2012	Time: 06:09:14	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North		
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference: SITE 3513.0		
Well: BA 27 State #1H	Section (VS) Reference: Well (0.00N,0.00E,356.74Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 6/22/2012
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: Big Aristotle 27 State #1H

Site Position:	Northing: 524457.35 ft	Latitude: 32 26 25.810 N
From: Map	Easting: 717398.93 ft	Longitude: 103 45 45.485 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3488.00 ft		Grid Convergence: 0.31 deg

Well: BA 27 State #1H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 524457.35 ft	Latitude: 32 26 25.810 N
+E/-W 0.00 ft	Easting: 717398.93 ft	Longitude: 103 45 45.485 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 6/20/2012	Above System Datum: Mean Sea Level		
Field Strength: 48650 nT	Declination: 7.57 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.33 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	356.74

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
7119.29	0.25	304.54	7096.36	255.47	-41.57	0.00	257.42	524712.82	717357.36	Tie On VES First Wft Svy
7198.00	0.27	296.97	7175.07	255.65	-41.88	0.05	257.62	524713.00	717357.05	
7229.00	0.20	284.35	7206.07	255.70	-41.99	0.28	257.67	524713.05	717356.94	
7261.00	1.12	348.33	7238.07	256.02	-42.11	3.27	258.00	524713.37	717356.82	
7292.00	2.30	351.98	7269.05	256.93	-42.26	3.82	258.92	524714.28	717356.67	
7324.00	3.90	358.00	7301.00	258.65	-42.39	5.10	260.65	524716.00	717356.54	
7355.00	6.34	4.68	7331.88	261.41	-42.28	8.09	263.40	524718.76	717356.65	
7387.00	8.37	344.23	7363.62	265.42	-42.77	10.26	267.42	524722.77	717356.16	
7419.00	10.90	1.26	7395.17	270.69	-43.34	11.83	272.71	524728.04	717355.59	
7450.00	12.90	358.14	7425.50	277.08	-43.39	6.77	279.09	524734.43	717355.54	
7482.00	15.10	356.07	7456.55	284.80	-43.79	7.05	286.83	524742.15	717355.14	
7513.00	18.34	353.88	7486.24	293.68	-44.59	10.65	295.75	524751.03	717354.34	
7545.00	21.59	352.71	7516.31	304.53	-45.87	10.23	306.65	524761.88	717353.06	
7576.00	24.47	353.81	7544.84	316.58	-47.29	9.39	318.75	524773.93	717351.64	
7608.00	27.40	354.37	7573.61	330.50	-48.72	9.19	332.73	524787.85	717350.21	
7640.00	30.97	356.69	7601.55	346.05	-49.92	11.70	348.33	524803.40	717349.01	
7671.00	33.02	352.22	7627.84	362.38	-51.53	10.10	364.73	524819.73	717347.40	
7703.00	35.26	359.08	7654.33	380.27	-52.86	13.91	382.66	524837.62	717346.07	
7734.00	37.58	358.51	7679.28	398.67	-53.25	7.56	401.05	524856.02	717345.68	
7766.00	40.49	357.59	7704.13	418.81	-53.94	9.27	421.19	524876.16	717344.99	
7797.00	43.65	359.66	7727.14	439.57	-54.42	11.13	441.95	524896.92	717344.51	
7829.00	46.91	359.22	7749.65	462.30	-54.65	10.23	464.66	524919.65	717344.28	
7860.00	48.81	358.71	7770.45	485.28	-55.06	6.25	487.63	524942.63	717343.87	
7892.00	51.15	357.21	7791.03	509.77	-55.94	8.15	512.13	524967.12	717342.99	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

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

Date: 7/2/2012 Time: 06:09:14 Page: 2
Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North
Vertical (TVD) Reference: SITE 3513.0
Section (VS) Reference: Well (0.00N,0.00E,356.74Azi)
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
7923.00	53.41	356.90	7809.99	534.26	-57.20	7.33	536.64	524991.61	717341.73	
7955.00	56.42	356.06	7828.39	560.39	-58.81	9.65	562.83	525017.74	717340.12	
7987.00	60.32	355.59	7845.16	587.56	-60.80	12.25	590.06	525044.91	717338.13	
8018.00	64.29	355.71	7859.57	614.92	-62.88	12.81	617.50	525072.27	717336.05	
8050.00	67.66	355.31	7872.59	644.05	-65.17	10.59	646.72	525101.40	717333.76	
8081.00	71.85	354.54	7883.32	673.02	-67.74	13.72	675.78	525130.37	717331.19	
8113.00	75.46	354.23	7892.32	703.57	-70.75	11.32	706.46	525160.92	717328.18	
8144.00	78.69	354.14	7899.26	733.63	-73.81	10.42	736.64	525190.98	717325.12	
8176.00	80.75	354.59	7904.97	764.96	-76.90	6.58	768.10	525222.31	717322.03	
8207.00	81.74	354.94	7909.69	795.47	-79.70	3.38	798.72	525252.82	717319.23	
8239.00	82.81	354.66	7913.99	827.05	-82.57	3.45	830.41	525284.40	717316.36	
8270.00	84.54	354.01	7917.40	857.71	-85.61	5.96	861.19	525315.06	717313.32	
8302.00	87.03	354.65	7919.75	889.46	-88.76	8.03	893.07	525346.81	717310.17	
8333.00	88.36	354.79	7921.00	920.31	-91.62	4.31	924.03	525377.66	717307.31	
8365.00	89.62	355.24	7921.56	952.18	-94.40	4.18	956.01	525409.53	717304.53	
8396.00	90.66	355.08	7921.49	983.07	-97.01	3.39	986.99	525440.42	717301.92	
8428.00	91.36	354.93	7920.92	1014.94	-99.80	2.24	1018.97	525472.29	717299.13	
8459.00	92.06	355.33	7920.00	1045.82	-102.43	2.60	1049.95	525503.17	717296.50	
8491.00	92.76	355.14	7918.65	1077.68	-105.08	2.27	1081.91	525535.03	717293.85	
8522.00	93.09	357.12	7917.07	1108.56	-107.17	6.47	1112.87	525565.91	717291.76	
8617.00	90.73	0.30	7913.91	1203.47	-109.31	4.17	1207.74	525660.82	717289.62	
8711.00	92.41	0.66	7911.33	1297.43	-108.52	1.83	1301.50	525754.78	717290.41	
8806.00	91.43	1.63	7908.15	1392.35	-106.62	1.45	1396.16	525849.70	717292.31	
8901.00	89.69	1.87	7907.22	1487.30	-103.72	1.85	1490.79	525944.65	717295.21	
8995.00	90.66	1.00	7906.93	1581.27	-101.37	1.39	1584.47	526038.62	717297.56	
9090.00	90.46	0.36	7906.00	1676.26	-100.24	0.71	1679.24	526133.61	717298.69	
9183.00	90.24	357.52	7905.43	1769.23	-101.96	3.06	1772.16	526226.58	717296.97	
9278.00	87.80	355.09	7907.06	1864.00	-108.08	3.62	1867.13	526321.35	717290.85	
9372.00	87.17	355.11	7911.18	1957.57	-116.10	0.67	1961.00	526414.92	717282.83	
9467.00	86.68	356.88	7916.28	2052.20	-122.73	1.93	2055.85	526509.55	717276.20	
9561.00	86.95	356.56	7921.50	2145.90	-128.10	0.45	2149.71	526603.25	717270.83	
9656.00	88.64	356.59	7925.16	2240.65	-133.77	1.78	2244.63	526698.00	717265.16	
9750.00	89.75	356.90	7926.48	2334.49	-139.11	1.23	2338.62	526791.84	717259.82	
9845.00	90.17	356.67	7926.55	2429.34	-144.43	0.50	2433.62	526886.69	717254.50	
9939.00	90.38	358.36	7926.09	2523.25	-148.51	1.81	2527.61	526980.60	717250.42	
10034.00	90.17	356.14	7925.64	2618.13	-153.07	2.35	2622.60	527075.48	717245.86	
10129.00	90.60	356.71	7925.00	2712.94	-158.99	0.75	2717.60	527170.29	717239.94	
10223.00	90.11	355.75	7924.42	2806.74	-165.17	1.15	2811.59	527264.09	717233.76	
10317.00	90.87	356.08	7923.61	2900.49	-171.87	0.88	2905.57	527357.84	717227.06	
10412.00	90.80	356.50	7922.23	2995.29	-178.01	0.45	3000.56	527452.64	717220.92	
10507.00	91.01	357.17	7920.73	3090.13	-183.26	0.74	3095.55	527547.48	717215.67	
10601.00	90.94	357.03	7919.13	3183.99	-188.01	0.17	3189.53	527641.34	717210.92	
10695.00	91.08	357.83	7917.47	3277.88	-192.23	0.86	3283.51	527735.23	717206.70	
10790.00	91.51	357.75	7915.33	3372.79	-195.89	0.46	3378.47	527830.14	717203.04	
10885.00	89.62	357.87	7914.39	3467.71	-199.52	1.99	3473.45	527925.06	717199.41	
10979.00	88.22	356.97	7916.16	3561.60	-203.75	1.77	3567.42	528018.95	717195.18	
11074.00	88.14	356.45	7919.18	3656.39	-209.20	0.55	3662.37	528113.74	717189.73	
11168.00	89.62	357.33	7921.01	3750.23	-214.30	1.83	3756.35	528207.58	717184.63	
11263.00	89.34	357.28	7921.88	3845.12	-218.76	0.30	3851.34	528302.47	717180.17	
11358.00	89.12	357.33	7923.15	3940.01	-223.23	0.24	3946.33	528397.36	717175.70	
11452.00	88.85	357.44	7924.82	4033.90	-227.52	0.31	4040.31	528491.25	717171.41	
11547.00	88.50	357.43	7927.02	4128.77	-231.77	0.37	4135.27	528586.12	717167.16	



Weatherford

WFT Survey Report X & Y's

**Weatherford**

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

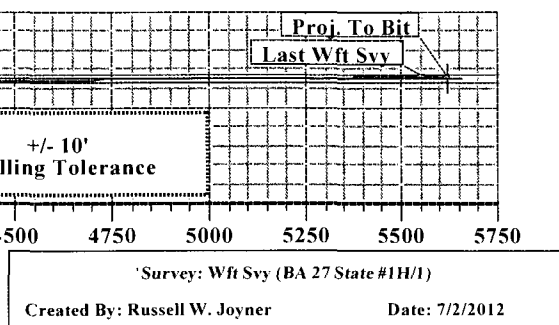
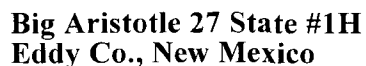
Date: 7/2/2012 Time: 06:09:14 Page: 3
Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North
Vertical (TVD) Reference: SITE 3513.0
Section (VS) Reference: Well (0.00N,0.00E,356.74Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

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
11641.00	90.04	359.07	7928.21	4222.72	-234.64	2.39	4229.23	528680.07	717164.29	
11736.00	90.03	358.58	7928.16	4317.70	-236.59	0.52	4324.16	528775.05	717162.34	
11830.00	90.31	359.62	7927.88	4411.68	-238.06	1.15	4418.08	528869.03	717160.87	
11925.00	89.68	359.86	7927.88	4506.68	-238.49	0.71	4512.95	528964.03	717160.44	
12019.00	90.17	0.41	7928.01	4600.68	-238.27	0.78	4606.79	529058.03	717160.66	
12114.00	90.67	0.73	7927.31	4695.67	-237.33	0.62	4701.57	529153.02	717161.60	
12208.00	90.80	1.00	7926.11	4789.65	-235.91	0.32	4795.32	529247.00	717163.02	
12303.00	90.45	358.10	7925.07	4884.64	-236.65	3.07	4890.19	529341.99	717162.28	
12397.00	90.04	356.36	7924.67	4978.52	-241.20	1.90	4984.18	529435.87	717157.73	
12492.00	90.32	356.78	7924.37	5073.35	-246.88	0.53	5079.18	529530.70	717152.05	
12587.00	91.01	358.52	7923.27	5168.26	-250.78	1.97	5174.16	529625.61	717148.15	
12681.00	89.76	355.53	7922.63	5262.12	-255.65	3.45	5268.14	529719.47	717143.28	
12776.00	91.15	357.92	7921.88	5356.95	-261.08	2.91	5363.13	529814.30	717137.85	
12968.00	90.45	357.24	7919.20	5548.76	-269.19	0.51	5555.09	530006.11	717129.74	Last Wft Svy
13033.00	90.21	357.01	7918.82	5613.68	-272.45	0.51	5620.08	530071.03	717126.48	Proj. To Bit

Annotation

MD ft	TVD ft	
7119.29	7096.36	Tie On VES
7198.00	7175.07	First Wft Svy
12968.00	7919.20	Last Wft Svy
13033.00	7918.82	Proj. To Bit



Stimulations 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 3001540106		Latitude (DMS) 32° 26' 25.82" N		Longitude (DMS) 103° 45' 45.468" ...		Ground Elev ... 3,488.30		KB - GL (ft) 25.00		Orig KB Elev (ft) 3,513.30		TH Elev (ft)					
HYDRAULIC FRAC, 8/2/2012 07:50, DELAWARE, OH, 12,558.0 ftKB - 13,021.0 ftKB, BJ Services, White 342877.401 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5269.90	0.0		1,487.0		4,316.0		1,487.0		5,275.0		80		6,872.0		81		4.00	
HYDRAULIC FRAC, 8/2/2012 11:33, DELAWARE, OH, 11,868.0 ftKB - 12,330.0 ftKB, BJ Services, White 343250 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5342.40	957.0		1,525.0		3,818.0		1,525.0		4,721.0		80		5,700.0		81		4.00	
HYDRAULIC FRAC, 8/2/2012 14:48, DELAWARE, OH, 11,177.0 ftKB - 11,639.0 ftKB, BJ Services, White 332902.901 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5247.70	0.0		1,522.0		2,814.0		1,552.0		4,787.0		80		6,186.0		81		4.00	
HYDRAULIC FRAC, 8/2/2012 17:47, DELAWARE, OH, 10,486.0 ftKB - 10,948.0 ftKB, BJ Services, White 318290.398 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5274.60	0.0		1,438.0		2,618.0		1,438.0		4,592.0		4,592		6,470.0		6,470		4.00	
HYDRAULIC FRAC, 8/3/2012 07:52, DELAWARE, OH, 9,795.0 ftKB - 10,257.0 ftKB, BJ Services, White 318736.099 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5260.00	0.0		1,465.0		3,551.0		1,465.0		4,755.0		80		6,797.0		81		4.00	
HYDRAULIC FRAC, 8/3/2012 10:44, DELAWARE, OH, 9,104.0 ftKB - 9,567.0 ftKB, BJ Services, White 317657.599 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5212.50	0.0		1,332.0		2,872.0		1,332.0		4,416.0		80		6,188.0		81		4.00	
HYDRAULIC FRAC, 8/3/2012 18:59, DELAWARE, OH, 8,413.0 ftKB - 8,876.0 ftKB, BJ Services, White 369796.498 LBS																			
Proppant De...	V (pumped) (bbl)	Pre Trt S/I Prs (psi)		Pst Trt S/I Prs (psi)		P(break) (psi)		ISIP (psi)		P (avg) (psi)		Rate (avg) (bbl/mi...		P (max) (psi)		Rate (max) (bbl/m...		Max Conc...	
310,625.0	5716.60	0.0		1,299.0		2,653.0		1,299.0		4,112.0		80		6,271.0		81		4.00	