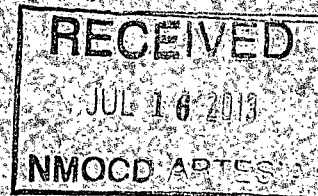


A GYRO TECHNOLOGIES, INC. COMPANY

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

30-015-39375

January 2, 2013



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

Attn: Patti Riechers

Re: Cotton Draw Unit No 163H

Please find enclosed a copy of the survey from 0' to 7,529.66' 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,

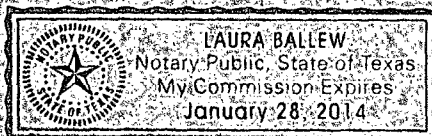
Keith Havelka
Operations

STATE OF TEXAS §

COUNTY OF NUECES §

This instrument was acknowledged before me on the 3rd day of January
A.D. 2013, by Keith Havelka

Laura Ballew
Notary Public, State of Texas





Company: Devon Energy Production Co., LP
Lease/Well: Cotton Draw Unit/No 163H

Rig Name: H & P 214
State/County: New Mexico/Eddy
Latitude: 32.15, Longitude: -103.75
GRID North is 0.31 Degrees East of True North
VS-Azi: 179.64 Degrees



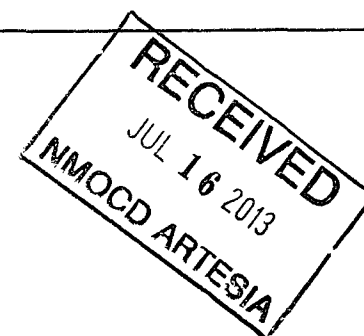
Depth Reference : RKB= 25'

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: gyro survey.ut
Minimum Curvature Method
Report Date/Time: 12/21/2012 / 10:09

Vaughn Energy Services
Midland, Texas
432-563-5444

Surveyor: Tim Dillon
Cotton Draw Unit No 163H / API 30-015-39375



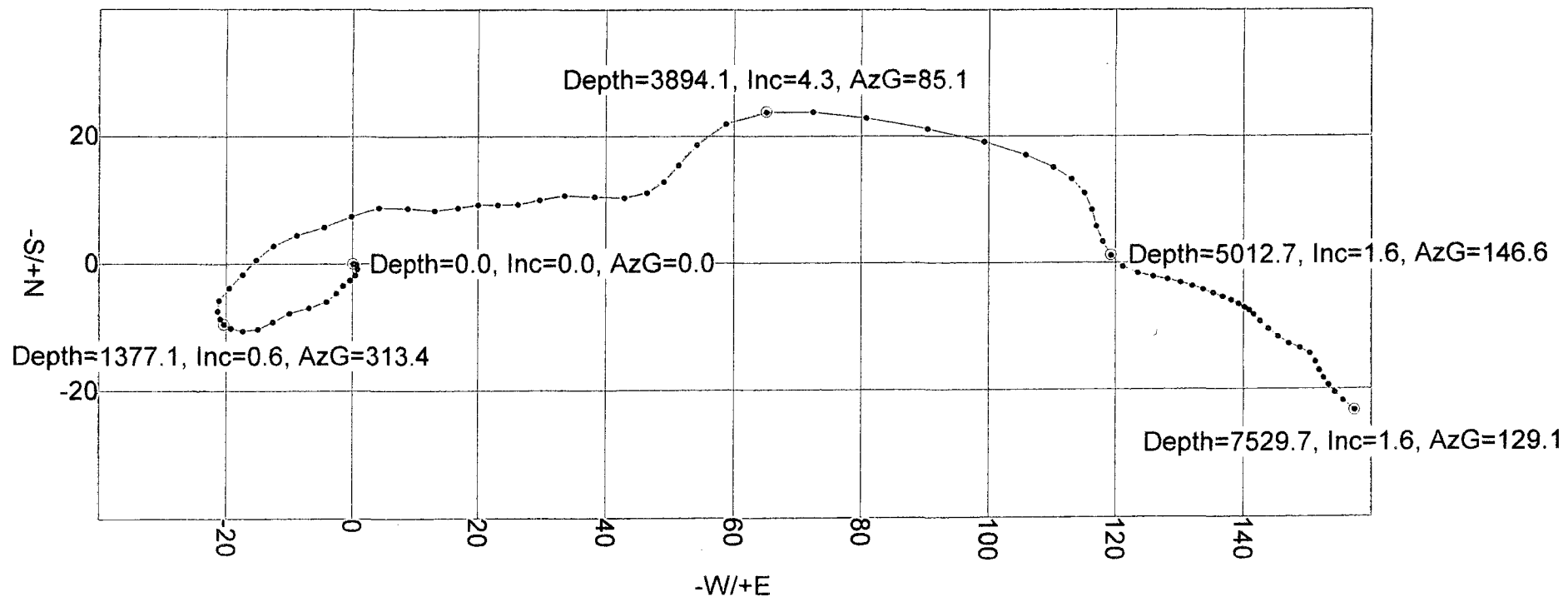
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
72.06	0.20	70.03	72.06	0.04	0.12	-0.04	0.12	70.03	0.27
165.28	0.40	129.38	165.28	-0.11	0.52	0.11	0.53	102.01	0.37
258.50	0.60	188.74	258.50	-0.80	0.69	0.80	1.06	139.14	0.56
351.72	0.69	212.66	351.71	-1.75	0.32	1.75	1.78	169.79	0.30
444.94	0.77	236.58	444.92	-2.57	-0.51	2.56	2.62	191.19	0.34
538.16	0.91	226.73	538.13	-3.42	-1.57	3.41	3.76	204.65	0.22
631.38	1.05	216.88	631.34	-4.61	-2.62	4.60	5.31	209.62	0.24
724.60	1.56	238.77	724.54	-5.96	-4.22	5.93	7.30	215.34	0.76
817.82	2.08	260.65	817.71	-6.89	-6.98	6.85	9.80	225.36	0.92
911.04	1.91	247.97	910.87	-7.75	-10.08	7.68	12.71	232.46	0.50
1004.26	1.74	235.29	1004.05	-9.13	-12.68	9.05	15.63	234.24	0.47
1097.48	1.58	254.82	1097.23	-10.28	-15.09	10.18	18.26	235.74	0.63
1190.70	1.43	274.34	1190.42	-10.53	-17.49	10.42	20.42	238.96	0.57
1283.92	1.00	293.85	1283.62	-10.11	-19.39	9.99	21.87	242.46	0.63
1377.14	0.57	313.37	1376.83	-9.47	-20.47	9.34	22.55	245.18	0.54
1470.36	0.72	334.10	1470.04	-8.62	-21.06	8.49	22.76	247.74	0.30
1563.58	0.87	344.83	1563.25	-7.41	-21.50	7.27	22.74	250.99	0.23
1656.80	1.35	23.24	1656.46	-5.72	-21.26	5.58	22.01	254.95	0.92

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
1750.02	1.83	51.66	1749.64	-3.79	-19.66	3.66	20.02	259.10	0.97
1843.24	1.91	39.04	1842.81	-1.66	-17.52	1.55	17.59	264.59	0.45
1936.46	1.99	46.41	1935.98	0.66	-15.36	-0.76	15.38	272.47	0.28
2029.68	2.35	56.19	2029.13	2.85	-12.60	-2.92	12.92	282.72	0.55
2122.90	2.72	74.16	2122.26	4.51	-8.89	-4.57	9.97	296.93	0.93
2216.12	2.80	73.07	2215.37	5.78	-4.58	-5.81	7.38	321.59	0.10
2309.34	2.88	63.59	2308.48	7.48	-0.31	-7.49	7.49	357.65	0.51
2402.56	2.89	81.99	2401.58	8.85	4.12	-8.83	9.76	24.93	0.99
2495.78	2.89	100.39	2494.69	8.76	8.75	-8.70	12.38	44.99	0.99
2589.00	2.47	88.54	2587.80	8.38	13.08	-8.30	15.53	57.34	0.74
2682.22	2.06	76.70	2680.95	8.82	16.72	-8.71	18.90	62.18	0.67
2775.44	1.96	85.88	2774.12	9.32	19.93	-9.19	22.00	64.94	0.36
2868.66	1.86	95.07	2867.28	9.30	23.02	-9.15	24.83	68.01	0.34
2961.88	2.05	83.97	2960.45	9.34	26.19	-9.18	27.81	70.37	0.46
3055.10	2.25	72.87	3053.60	10.06	29.60	-9.87	31.26	71.24	0.49
3148.32	2.68	85.77	3146.74	10.76	33.52	-10.55	35.21	72.21	0.75
3241.54	3.10	98.66	3239.84	10.54	38.19	-10.30	39.62	74.57	0.83
3334.76	2.60	83.66	3332.95	10.39	42.78	-10.12	44.03	76.35	0.96
3427.98	1.90	68.65	3426.09	11.19	46.33	-10.90	47.66	76.42	0.98
3521.20	2.06	45.60	3519.26	12.92	48.97	-12.62	50.64	75.21	0.87
3614.42	2.22	37.55	3612.42	15.53	51.26	-15.21	53.56	73.15	0.36
3707.64	3.07	45.27	3705.54	18.72	54.14	-18.38	57.28	70.93	0.99
3800.86	3.93	60.98	3798.58	22.03	58.71	-21.66	62.70	69.43	1.37
3894.08	4.34	85.14	3891.57	23.87	65.01	-23.46	69.26	69.84	1.90
3987.30	4.75	94.30	3984.50	23.88	72.37	-23.43	76.21	71.74	0.89
4080.52	5.58	98.17	4077.34	22.95	80.70	-22.44	83.90	74.13	0.96
4173.74	6.41	102.03	4170.05	21.22	90.27	-20.65	92.74	76.77	0.99
4266.96	4.88	104.08	4262.81	19.17	99.20	-18.55	101.04	79.06	1.65
4360.18	3.55	113.12	4355.78	17.08	105.70	-16.41	107.07	80.82	1.59
4453.40	2.33	115.90	4448.88	15.12	110.06	-14.42	111.09	82.18	1.32
4546.62	1.91	129.68	4542.03	13.30	112.96	-12.59	113.74	83.29	0.70
4639.84	1.84	144.28	4635.20	11.09	115.03	-10.37	115.56	84.49	0.52
4733.06	1.77	168.88	4728.38	8.47	116.18	-7.74	116.49	85.83	0.83
4826.28	1.66	160.68	4821.56	5.78	116.90	-5.05	117.05	87.17	0.29
4919.50	1.55	152.48	4914.74	3.39	117.93	-2.65	117.98	88.35	0.27
5012.72	1.59	146.61	5007.93	1.19	119.23	-0.44	119.23	89.43	0.18
5105.94	1.62	120.75	5101.11	-0.56	121.07	1.32	121.07	90.26	0.77
5199.16	1.55	105.97	5194.29	-1.58	123.41	2.35	123.42	90.73	0.44
5292.38	1.48	100.20	5287.48	-2.14	125.80	2.93	125.82	90.97	0.18

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
5385.60	1.35	102.46	5380.67	-2.59	128.06	3.39	128.09	91.16	0.15
5478.82	1.22	105.71	5473.87	-3.09	130.09	3.91	130.13	91.36	0.16
5572.04	1.15	107.64	5567.07	-3.65	131.93	4.47	131.98	91.58	0.09
5665.26	1.07	109.57	5660.27	-4.22	133.65	5.06	133.71	91.81	0.09
5758.48	1.01	110.96	5753.48	-4.80	135.23	5.65	135.32	92.03	0.08
5851.70	0.94	112.36	5846.68	-5.39	136.70	6.25	136.81	92.26	0.08
5944.92	0.84	114.57	5939.89	-5.96	138.03	6.83	138.16	92.47	0.12
6038.14	0.73	116.79	6033.10	-6.51	139.18	7.39	139.33	92.68	0.12
6131.36	0.59	121.91	6126.32	-7.04	140.12	7.92	140.29	92.87	0.17
6224.58	0.44	127.02	6219.53	-7.51	140.81	8.39	141.01	93.05	0.16
6317.80	0.74	139.58	6312.75	-8.18	141.49	9.07	141.73	93.31	0.35
6411.02	1.04	135.15	6405.96	-9.24	142.48	10.14	142.78	93.71	0.33
6504.24	1.14	130.15	6499.16	-10.44	143.79	11.35	144.17	94.15	0.15
6597.46	1.24	128.14	6592.36	-11.66	145.29	12.58	145.76	94.59	0.11
6690.68	1.20	116.93	6685.56	-12.73	146.95	13.65	147.60	94.95	0.26
6783.90	1.16	105.71	6778.76	-13.42	148.73	14.36	149.33	95.16	0.25
6877.12	1.07	133.17	6871.96	-14.27	150.27	15.22	150.94	95.43	0.57
6970.34	0.99	160.62	6965.17	-15.63	151.17	16.58	151.97	95.90	0.53
7063.56	0.89	154.45	7058.38	-17.04	151.75	17.99	152.70	96.41	0.15
7156.78	0.79	146.27	7151.59	-18.22	152.41	19.18	153.50	96.82	0.17
7250.00	0.88	144.26	7244.80	-19.34	153.19	20.30	154.41	97.20	0.11
7343.22	0.98	136.25	7338.00	-20.50	154.16	21.47	155.52	97.57	0.17
7436.44	1.30	130.65	7431.21	-21.77	155.52	22.74	157.03	97.97	0.37
7529.66	1.62	129.06	7524.39	-23.29	157.35	24.28	159.06	98.42	0.35



Vaughn Energy Services
Midland, Texas
432-563-5444
Surveyor: Tim Dillon
Cotton Draw Unit No 163H / API 30-015-39375





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: January 3, 2013

Attention: John Logemann

Re: Devon Energy
Well: Cotton Draw Unit 163H
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>
John Self	163H	7637' MD	12/13/2012	Measurement
MWD Supervisor		12482' MD	12/28/2012	While Drilling

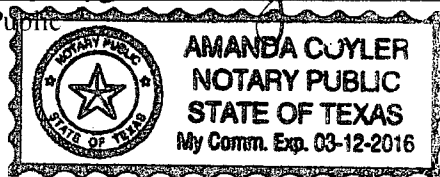
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 3rd day of January, 2013, before me a notary public, the undersigned officer, personally appeared Jesse Aguilar, known to me (or satisfactorily proven) to be the person whose name is subscribed to the within instrument, and acknowledged that he executed the same for the purposes therein contained.

In witness hereof, I hereunto set my hand and official seal.

Amanda Cuyler
Notary Public





Weatherford

Wft Survey Report X Y's.



Weatherford

Company: Devon Energy Date: 12/28/2012 Time: 06:27:32 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: #163H, Grid North
Site: Cotton Draw Unit #163H Vertical (TVD) Reference: SITE 3442.0
Well: #163H Section (VS) Reference: Well (0.00N, 0.00E, 179.64Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 12/17/2012
Company: Weatherford Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard Tied-to: User Defined

Site: Cotton Draw Unit #163H

Site Position: Northing: 419201.20 ft Latitude: 32 9 4.030 N
From: Map Easting: 721618.29 ft Longitude: 103 45 2.922 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3417.00 ft Grid Convergence: 0.31 deg

Well: #163H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 419201.20 ft Latitude: 32 9 4.030 N
+E/-W 0.00 ft Easting: 721618.29 ft Longitude: 103 45 2.922 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3442.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 12/25/2012 Above System Datum: Mean Sea Level
Field Strength: 48425 nT Declination: 7.48 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Direction
ft ft ft deg
0.00 0.00 0.00 179.64

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	
7529.66	1.62	129.06	7524.39	-23.29	157.35	0.00	24.28	419177.91	721775.64	Tie On VES First Wft Svy
7637.00	5.06	172.18	7631.55	-28.94	159.17	3.76	29.94	419172.26	721777.46	
7668.00	8.35	179.61	7662.33	-32.54	159.37	10.95	33.55	419168.66	721777.66	
7699.00	11.81	181.83	7692.85	-37.97	159.29	11.23	38.97	419163.23	721777.58	
7730.00	13.40	182.63	7723.10	-44.73	159.02	5.16	45.73	419156.47	721777.31	
7761.00	15.22	180.42	7753.14	-52.39	158.83	6.13	53.38	419148.81	721777.12	
7793.00	18.00	180.49	7783.80	-61.53	158.75	8.69	62.53	419139.67	721777.04	
7824.00	20.35	180.34	7813.08	-71.71	158.68	7.58	72.71	419129.49	721776.97	
7856.00	23.02	181.99	7842.81	-83.53	158.43	8.56	84.53	419117.67	721776.72	
7887.00	25.91	183.97	7871.02	-96.35	157.75	9.69	97.34	419104.85	721776.04	
7919.00	28.92	184.50	7899.43	-111.04	156.66	9.44	112.03	419090.16	721774.95	
7950.00	32.27	183.57	7926.11	-126.78	155.56	10.91	127.75	419074.42	721773.85	
7981.00	34.86	182.19	7951.94	-143.89	154.70	8.71	144.86	419057.31	721772.99	
8012.00	37.35	180.85	7976.98	-162.15	154.22	8.43	163.12	419039.05	721772.51	
8044.00	40.91	179.32	8001.80	-182.34	154.20	11.53	183.31	419018.86	721772.49	
8075.00	43.61	177.83	8024.74	-203.18	154.73	9.29	204.15	418998.02	721773.02	
8106.00	46.53	179.06	8046.63	-225.11	155.32	9.83	226.09	418976.09	721773.61	
8138.00	50.00	180.93	8067.93	-248.99	155.31	11.69	249.96	418952.21	721773.60	
8169.00	53.20	182.35	8087.19	-273.27	154.61	10.93	274.24	418927.93	721772.90	
8200.00	56.40	182.55	8105.05	-298.57	153.53	10.34	299.54	418902.63	721771.82	
8231.00	60.58	183.37	8121.25	-324.96	152.16	13.67	325.91	418876.24	721770.45	
8263.00	64.37	183.15	8136.04	-353.29	150.54	11.86	354.23	418847.91	721768.83	
8294.00	67.68	182.02	8148.63	-381.58	149.27	11.18	382.51	418819.62	721767.56	
8325.00	71.17	179.60	8159.53	-410.59	148.87	13.42	411.52	418790.61	721767.16	
8357.00	73.32	178.42	8169.29	-441.06	149.40	7.58	441.99	418760.14	721767.69	
8388.00	75.16	178.56	8177.70	-470.88	150.18	5.95	471.82	418730.32	721768.47	
8419.00	77.00	178.76	8185.16	-500.96	150.89	5.97	501.91	418700.24	721769.18	
8450.00	79.16	179.18	8191.56	-531.29	151.43	7.09	532.23	418669.91	721769.72	
8481.00	81.23	179.65	8196.84	-561.83	151.74	6.84	562.78	418639.37	721770.03	
8513.00	82.06	179.65	8201.49	-593.49	151.94	2.59	594.44	418607.71	721770.23	



Weatherford

Wft Survey Report X Y's.

**Weatherford**

Company: Devon Energy	Date: 12/28/2012	Time: 06:27:32	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: #163H, Grid North		
Site: Cotton Draw Unit #163H	Vertical (TVD) Reference: SITE 3442.0		
Well: #163H	Section (VS) Reference: Well (0.00N, 0.00E, 179.64Az)		
Wellpath: 1	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
8544.00	83.28	180.19	8205.45	-624.24	151.98	4.30	625.18	418576.96	721770.27	
8575.00	85.04	181.78	8208.60	-655.07	151.45	7.63	656.01	418546.13	721769.74	
8607.00	86.92	182.73	8210.85	-686.97	150.19	6.58	687.90	418514.23	721768.48	
8638.00	88.88	182.14	8211.98	-717.92	148.87	6.60	718.84	418483.28	721767.16	
8667.00	91.40	180.94	8211.91	-746.90	148.10	9.62	747.82	418454.30	721766.39	
8753.00	93.15	180.46	8208.50	-832.82	147.05	2.11	833.73	418368.38	721765.34	
8847.00	92.17	180.44	8204.13	-926.72	146.31	1.04	927.62	418274.48	721764.60	
8940.00	90.77	180.51	8201.75	-1019.68	145.54	1.51	1020.58	418181.52	721763.83	
9034.00	89.37	180.37	8201.63	-1113.68	144.82	1.50	1114.57	418087.52	721763.11	
9127.00	89.44	180.38	8202.60	-1206.67	144.21	0.08	1207.56	417994.53	721762.50	
9220.00	89.30	181.29	8203.62	-1299.65	142.85	0.99	1300.53	417901.55	721761.14	
9313.00	88.18	183.20	8205.67	-1392.55	139.21	2.38	1393.40	417808.65	721757.50	
9408.00	88.46	183.44	8208.45	-1487.35	133.71	0.39	1488.17	417713.85	721752.00	
9502.00	88.60	182.97	8210.86	-1581.18	128.46	0.52	1581.95	417620.02	721746.75	
9596.00	88.39	183.05	8213.33	-1675.01	123.52	0.24	1675.76	417526.19	721741.81	
9691.00	88.67	182.71	8215.77	-1769.86	118.75	0.46	1770.58	417431.34	721737.04	
9786.00	88.81	182.93	8217.86	-1864.72	114.08	0.27	1865.41	417336.48	721732.37	
9881.00	89.93	182.26	8218.90	-1959.62	109.78	1.37	1960.27	417241.58	721728.07	
9975.00	91.47	181.22	8217.76	-2053.56	106.92	1.98	2054.20	417147.64	721725.21	
10070.00	91.40	181.98	8215.38	-2148.50	104.27	0.80	2149.11	417052.70	721722.56	
10165.00	90.49	181.35	8213.81	-2243.44	101.51	1.16	2244.04	416957.76	721719.80	
10259.00	90.28	181.56	8213.18	-2337.41	99.13	0.32	2337.99	416863.79	721717.42	
10353.00	90.21	181.58	8212.78	-2431.37	96.55	0.08	2431.93	416769.83	721714.84	
10447.00	90.49	182.37	8212.20	-2525.32	93.31	0.89	2525.85	416675.88	721711.60	
10540.00	90.28	182.30	8211.58	-2618.24	89.52	0.24	2618.75	416582.96	721707.81	
10634.00	90.28	182.19	8211.12	-2712.16	85.84	0.12	2712.65	416489.04	721704.13	
10728.00	90.42	182.01	8210.54	-2806.10	82.39	0.24	2806.56	416395.10	721700.68	
10822.00	90.77	182.38	8209.57	-2900.02	78.79	0.54	2900.46	416301.18	721697.08	
10913.00	89.58	181.47	8209.29	-2990.97	75.74	1.65	2991.39	416210.23	721694.03	
11008.00	89.86	181.00	8209.75	-3085.95	73.69	0.58	3086.35	416115.25	721691.98	
11102.00	89.37	180.68	8210.38	-3179.93	72.31	0.62	3180.33	416021.27	721690.60	
11196.00	88.95	180.94	8211.76	-3273.91	70.98	0.53	3274.30	415927.29	721689.27	
11291.00	88.67	180.64	8213.74	-3368.88	69.67	0.43	3369.26	415832.32	721687.96	
11386.00	89.86	181.11	8214.95	-3463.86	68.22	1.35	3464.22	415737.34	721686.51	
11481.00	89.16	181.86	8215.77	-3558.83	65.76	1.08	3559.17	415642.37	721684.05	
11576.00	92.24	183.88	8214.61	-3653.68	61.01	3.88	3653.99	415547.52	721679.30	
11670.00	91.26	184.03	8211.74	-3747.41	54.53	1.05	3747.68	415453.79	721672.82	
11765.00	90.84	184.75	8209.99	-3842.12	47.26	0.88	3842.34	415359.08	721665.55	
11860.00	89.86	183.93	8209.41	-3936.84	40.07	1.35	3937.02	415264.36	721658.36	
11955.00	89.23	184.04	8210.17	-4031.61	33.47	0.67	4031.74	415169.59	721651.76	
12049.00	89.65	184.58	8211.09	-4125.34	26.40	0.73	4125.42	415075.86	721644.69	
12144.00	89.09	184.55	8212.13	-4220.03	18.84	0.59	4220.07	414981.17	721637.13	
12239.00	89.09	182.81	8213.64	-4314.82	12.74	1.83	4314.81	414886.38	721631.03	
12334.00	89.37	183.08	8214.92	-4409.69	7.86	0.41	4409.65	414791.51	721626.15	
12428.00	88.81	183.01	8216.41	-4503.54	2.87	0.60	4503.47	414697.66	721621.16	
12482.00	89.16	183.35	8217.37	-4557.45	-0.12	0.90	4557.36	414643.75	721618.17	Last Wft Svy
12552.00	89.16	183.35	8218.39	-4627.32	-4.21	0.00	4627.20	414573.88	721614.08	Proj. To Bit



Weatherford

Wft Survey Report X Y's.



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #163H
Well: #163H
Wellpath: 1

Date: 12/28/2012 Time: 06:27:32 Page: 3
Co-ordinate(NE) Reference: Well: #163H, Grid North
Vertical (TVD) Reference: SITE 3442.0
Section (VS) Reference: Well (0.00N, 0.00E, 179.64Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Annotation

MD ft	TVD ft	
7529.66	7524.39	Tie On VES
7637.00	7631.55	First Wft Svy
12482.00	8217.37	Last Wft Svy
12552.00	8218.39	Proj. To Bit

devon

Cotton Draw #163H
Eddy Co., New Mexico

SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	7529.66	1.62	129.06	7524.39	-23.29	157.35	0.00	0.00	24.28		
2	7652.37	1.62	129.06	7647.05	-25.48	160.04	0.00	0.00	26.48		
3	8545.41	90.29	181.79	8210.05	-601.32	154.81	10.00	52.73	602.28		
4	12573.90	90.29	181.79	8190.00	-4627.80	29.16	0.00	0.00	4627.89	Pbhl	

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
#163H	0.00	0.00	419201.20	721618.29	32°09'04.030N	103°45'02.922W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	8190.00	-4627.80	29.16	414573.40	721647.45	Rectangle (4052x50)

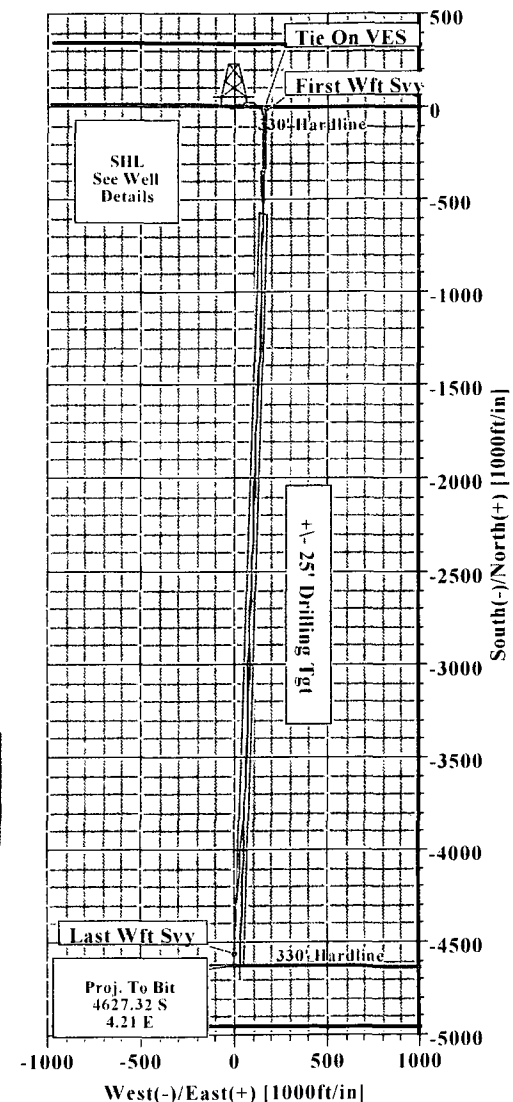
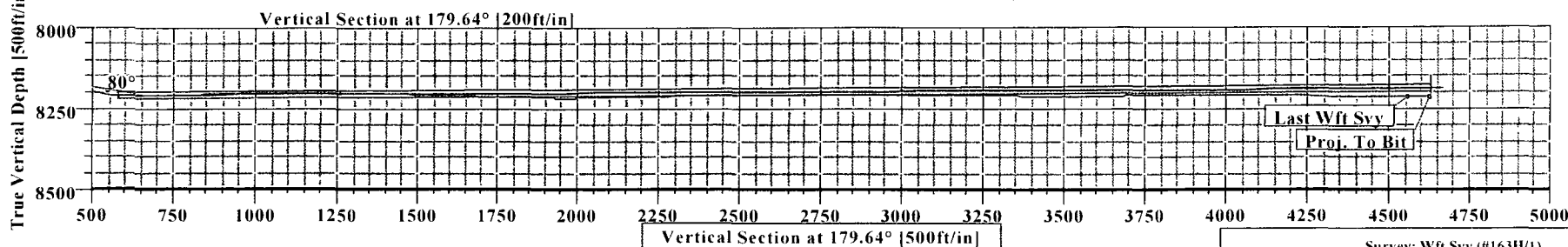
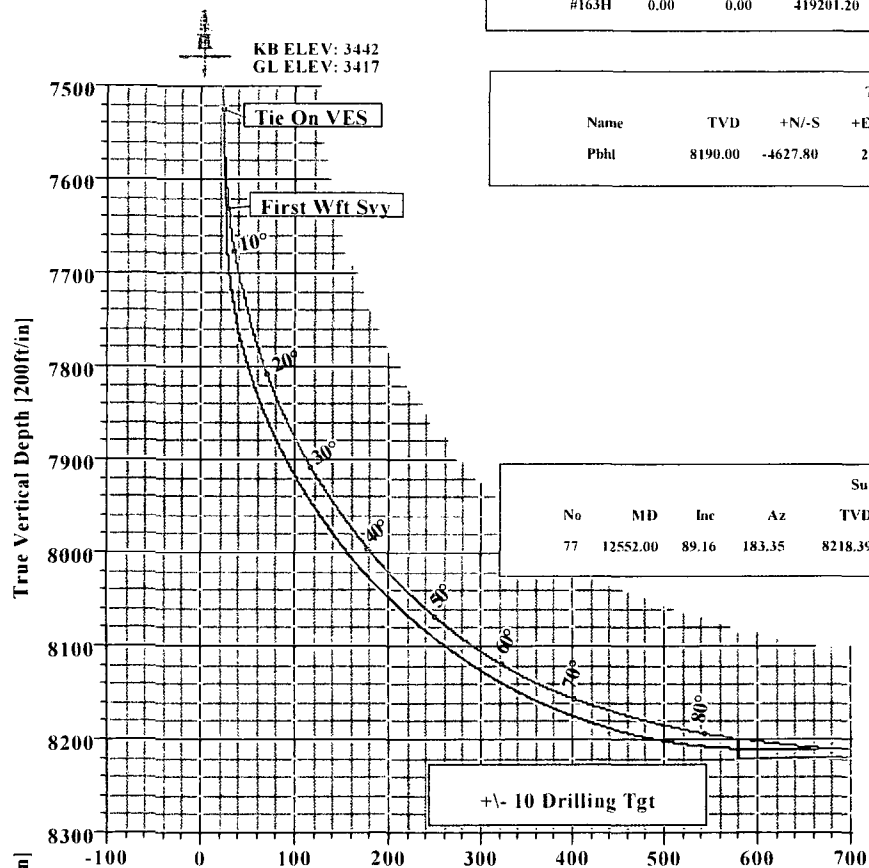
SITE DETAILS
Cotton Draw Unit #163H
Site Centre Northing: 419201.20
Easting: 721618.29
Ground Level: 3417.00
Positional Uncertainty: 0.00
Convergence: 0.31

Survey: Wft Svy (#163H/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
77	12552.00	89.16	183.35	8218.39	-4627.32	-4.21	0.00	0.00	4627.20

LEGEND
#163H.1.Plan #2
#163H.1.Gyro
Wft Svy



Weatherford



Survey: Wft Svy (#163H/1)

Created By: Russell W. Joyner

Date: 12/28/2012