

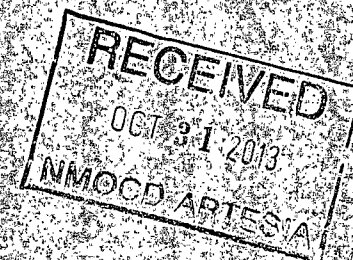
A GYRO TECHNOLOGIES INC. COMPANY

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

July 11, 2013

30-015-41159

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



Attn: Patti Riechers

Re: **Aquila 22 Fed Com No 004H**

Please find enclosed a copy of the survey from 0' to 8,520' ran on the above referenced well.

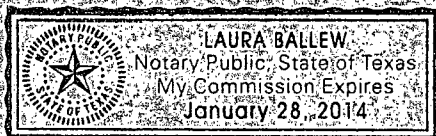
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,


Keith Havelka
Operations

STATE OF TEXAS §
 §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 11th day of July
A.D. 2013, by Keith Havelka




Laura Ballew
Notary Public, State of Texas



Company: DEVON ENERGY PRODUCTION
Lease/Well: AQUILA 22 FED COM/No 004H

Rig Name: MCVAY 10
State/County: NEW MEXICO/EDDY
Latitude: 32.64, Longitude: -103.85
GRID North is 0.26 Degrees East of True North
VS-Azi: 0.00 Degrees



Depth Reference : RKB= 15'

DRILLOG HA GYRO SURVEY CALCULATIONS

Filename: e-line gyro-de_01.ut

Minimum Curvature Method

Report Date/Time: 7/11/2013 / 12:47

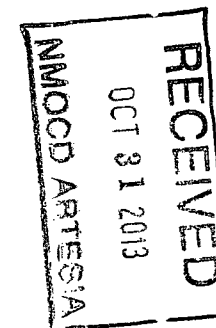
Vaughn Energy Services

Conway, Arkansas

501-730-0602

Surveyor: Chris Ford

Aquila 22 Fed Com No 004H / API 30-015-41159



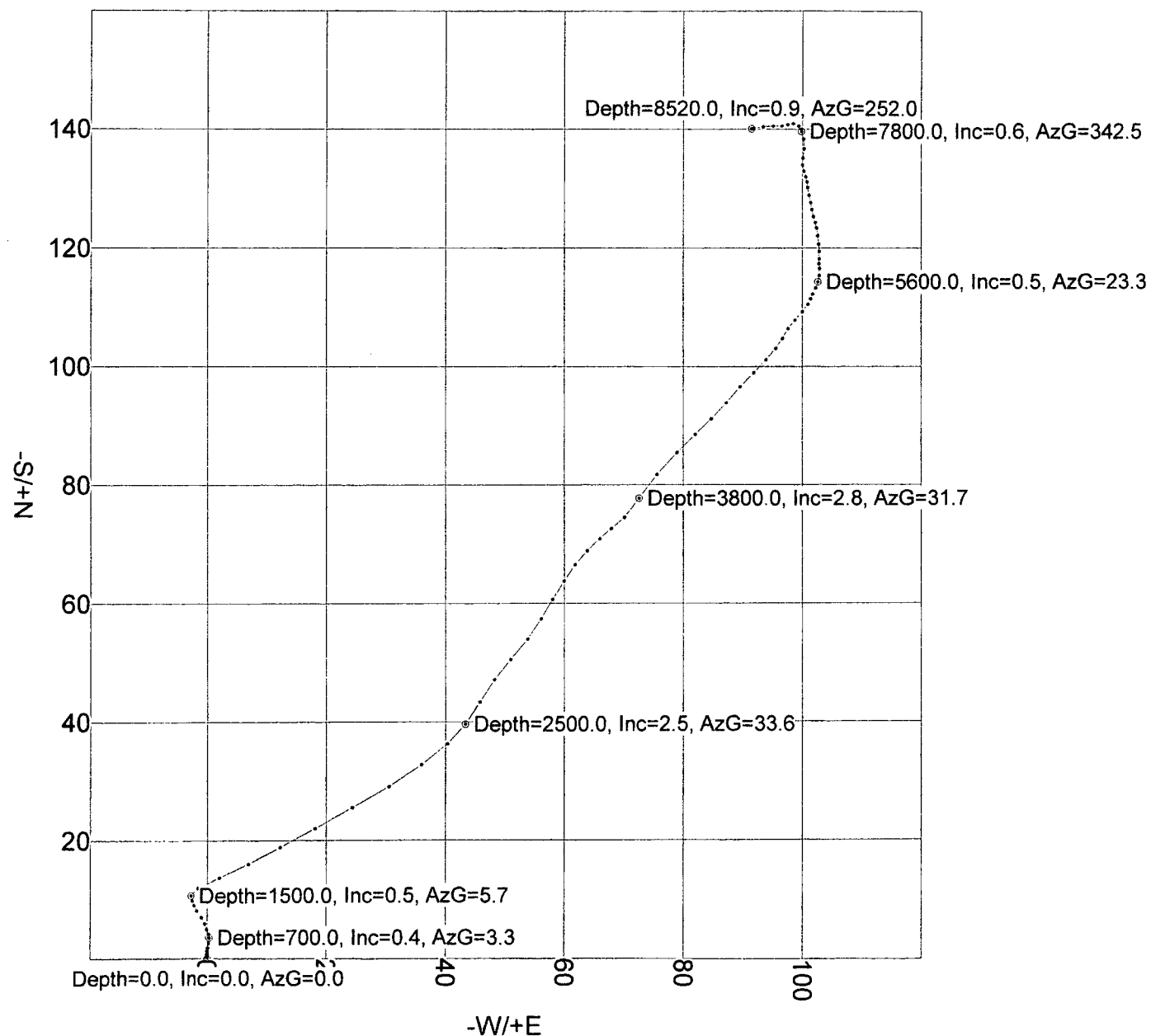
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
100.00	0.27	349.44	100.00	0.23	-0.04	0.23	0.24	349.44	0.27
200.00	0.09	53.46	200.00	0.52	-0.02	0.52	0.52	357.29	0.25
300.00	0.22	350.96	300.00	0.75	0.01	0.75	0.75	0.62	0.20
400.00	0.36	3.03	400.00	1.26	-0.01	1.26	1.26	359.74	0.15
500.00	0.29	18.00	500.00	1.81	0.09	1.81	1.81	2.81	0.11
600.00	0.67	7.42	599.99	2.63	0.24	2.63	2.64	5.27	0.39
700.00	0.38	3.33	699.99	3.55	0.34	3.55	3.56	5.44	0.29
800.00	0.38	334.05	799.99	4.18	0.21	4.18	4.18	2.92	0.19
900.00	0.59	340.89	899.98	4.96	-0.10	4.96	4.96	358.84	0.22
1000.00	0.59	344.12	999.98	5.94	-0.41	5.94	5.96	356.06	0.03
1100.00	0.80	325.54	1099.97	7.01	-0.94	7.01	7.07	352.33	0.30
1200.00	0.77	325.39	1199.96	8.14	-1.72	8.14	8.32	348.06	0.03
1300.00	0.45	344.33	1299.95	9.07	-2.21	9.07	9.34	346.31	0.38
1400.00	0.53	326.62	1399.95	9.84	-2.57	9.84	10.17	345.35	0.17
1500.00	0.54	5.71	1499.95	10.69	-2.78	10.69	11.05	345.43	0.36
1600.00	1.69	57.55	1599.93	11.95	-1.49	11.95	12.04	352.89	1.42
1700.00	2.83	66.81	1699.85	13.71	2.02	13.71	13.86	8.39	1.20
1800.00	3.38	62.57	1799.70	16.04	6.91	16.04	17.47	23.31	0.60

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	3.60	62.32	1899.52	18.86	12.31	18.86	22.52	33.13	0.21
2000.00	4.04	60.89	1999.29	22.03	18.16	22.03	28.55	39.51	0.46
2100.00	4.15	60.10	2099.04	25.55	24.38	25.55	35.31	43.66	0.12
2200.00	3.97	59.67	2198.79	29.10	30.50	29.10	42.15	46.35	0.18
2300.00	3.63	51.91	2298.57	32.80	35.98	32.80	48.68	47.65	0.62
2400.00	2.72	49.87	2398.41	36.28	40.28	36.28	54.21	47.99	0.91
2500.00	2.48	33.63	2498.31	39.61	43.30	39.61	58.69	47.55	0.77
2600.00	2.65	33.28	2598.21	43.35	45.77	43.35	63.04	46.55	0.17
2700.00	2.51	32.83	2698.11	47.12	48.22	47.12	67.42	45.66	0.15
2800.00	2.54	44.06	2798.01	50.55	50.95	50.55	71.77	45.22	0.49
2900.00	2.58	35.46	2897.91	53.98	53.80	53.98	76.21	44.90	0.39
3000.00	2.19	30.82	2997.83	57.45	56.08	57.45	80.28	44.31	0.44
3100.00	2.13	31.24	3097.76	60.68	58.02	60.68	83.95	43.72	0.06
3200.00	2.05	32.89	3197.69	63.77	59.96	63.77	87.53	43.24	0.10
3300.00	1.78	34.68	3297.63	66.55	61.81	66.55	90.83	42.89	0.27
3400.00	1.78	46.45	3397.59	68.90	63.82	68.90	93.91	42.81	0.37
3500.00	1.60	45.85	3497.54	70.93	65.94	70.93	96.85	42.91	0.18
3600.00	1.41	53.20	3597.51	72.64	67.93	72.64	99.45	43.08	0.27
3700.00	1.87	46.50	3697.47	74.50	70.10	74.50	102.30	43.26	0.50
3800.00	2.80	31.73	3797.38	77.70	72.57	77.70	106.32	43.04	1.10
3900.00	2.98	40.62	3897.26	81.75	75.54	81.75	111.31	42.74	0.48
4000.00	2.80	44.41	3997.13	85.47	78.94	85.47	116.35	42.73	0.27
4100.00	2.17	44.73	4097.04	88.56	81.98	88.56	120.68	42.79	0.63
4200.00	2.12	46.79	4196.97	91.17	84.66	91.17	124.42	42.88	0.09
4300.00	2.11	39.47	4296.90	93.86	87.18	93.86	128.10	42.89	0.27
4400.00	1.99	41.60	4396.83	96.58	89.51	96.58	131.67	42.82	0.15
4500.00	1.78	45.93	4496.78	98.95	91.77	98.95	134.96	42.84	0.25
4600.00	1.67	40.40	4596.74	101.14	93.83	101.14	137.96	42.85	0.20
4700.00	1.25	41.18	4696.70	103.08	95.50	103.08	140.51	42.81	0.42
4800.00	1.14	24.27	4796.68	104.80	96.63	104.80	142.55	42.68	0.37
4900.00	1.02	36.02	4896.66	106.43	97.56	106.43	144.38	42.51	0.25
5000.00	1.07	42.14	4996.65	107.84	98.71	107.84	146.20	42.47	0.12
5100.00	1.07	40.30	5096.63	109.24	99.94	109.24	148.06	42.45	0.03
5200.00	0.76	32.87	5196.62	110.51	100.90	110.51	149.64	42.40	0.33
5300.00	0.44	14.10	5296.61	111.44	101.35	111.44	150.63	42.29	0.37
5400.00	0.59	31.53	5396.61	112.24	101.71	112.24	151.47	42.18	0.22
5500.00	0.71	19.75	5496.60	113.26	102.19	113.26	152.55	42.06	0.18
5600.00	0.55	23.31	5596.59	114.29	102.59	114.29	153.58	41.91	0.17
5700.00	0.76	3.43	5696.59	115.40	102.82	115.40	154.56	41.70	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
5800.00	0.56	356.54	5796.58	116.55	102.83	116.55	155.43	41.42	0.21
5900.00	0.33	354.47	5896.58	117.33	102.77	117.33	155.98	41.22	0.24
6000.00	0.69	5.18	5996.57	118.21	102.80	118.21	156.66	41.01	0.37
6100.00	0.72	356.36	6096.57	119.44	102.81	119.44	157.59	40.72	0.11
6200.00	0.69	353.57	6196.56	120.67	102.70	120.67	158.46	40.40	0.04
6300.00	0.95	352.34	6296.55	122.10	102.53	122.10	159.43	40.02	0.26
6400.00	0.55	353.22	6396.54	123.39	102.36	123.39	160.32	39.68	0.41
6500.00	0.54	341.35	6496.54	124.31	102.15	124.31	160.90	39.41	0.11
6600.00	0.67	340.57	6596.53	125.31	101.81	125.31	161.45	39.09	0.14
6700.00	0.75	352.73	6696.52	126.51	101.53	126.51	162.21	38.75	0.17
6800.00	0.59	349.49	6796.52	127.66	101.35	127.66	163.00	38.45	0.17
6900.00	0.86	345.28	6896.51	128.89	101.07	128.89	163.79	38.10	0.28
7000.00	0.67	354.62	6996.50	130.20	100.82	130.20	164.67	37.75	0.23
7100.00	0.43	351.61	7096.49	131.15	100.71	131.15	165.36	37.52	0.24
7200.00	0.58	344.85	7196.49	132.02	100.52	132.02	165.93	37.29	0.16
7300.00	0.61	336.92	7296.48	133.00	100.18	133.00	166.51	36.99	0.09
7400.00	0.58	357.26	7396.48	134.00	99.95	134.00	167.17	36.72	0.21
7500.00	0.77	8.16	7496.47	135.16	100.02	135.16	168.15	36.50	0.23
7600.00	1.02	7.05	7596.46	136.71	100.22	136.71	169.51	36.25	0.25
7700.00	0.89	345.21	7696.45	138.35	100.13	138.35	170.79	35.90	0.38
7800.00	0.63	342.50	7796.44	139.63	99.77	139.63	171.61	35.55	0.26
7900.00	0.59	320.95	7896.43	140.56	99.28	140.56	172.08	35.23	0.23
8000.00	0.61	271.74	7996.43	140.98	98.42	140.98	171.93	34.92	0.50
8100.00	0.52	245.39	8096.42	140.80	97.47	140.80	171.25	34.69	0.27
8200.00	0.68	268.09	8196.42	140.60	96.46	140.60	170.51	34.45	0.29
8300.00	0.95	268.32	8296.41	140.55	95.04	140.55	169.67	34.07	0.26
8400.00	1.02	263.92	8396.39	140.43	93.33	140.43	168.62	33.61	0.10
8500.00	0.86	257.80	8496.38	140.18	91.71	140.18	167.52	33.19	0.19
8520.00	0.94	252.03	8516.38	140.10	91.41	140.10	167.28	33.12	0.60



Vaughn Energy Services
Conway, Arkansas
501-730-0602
Surveyor: Chris Ford
Aquila 22 Fed Com No 004H / API 30-015-41159



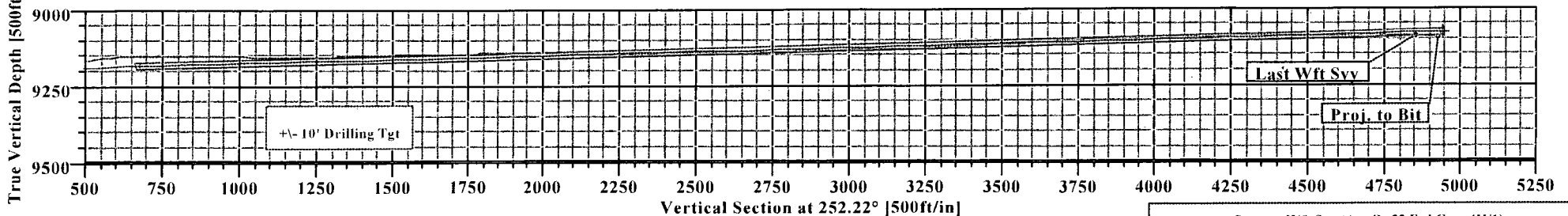
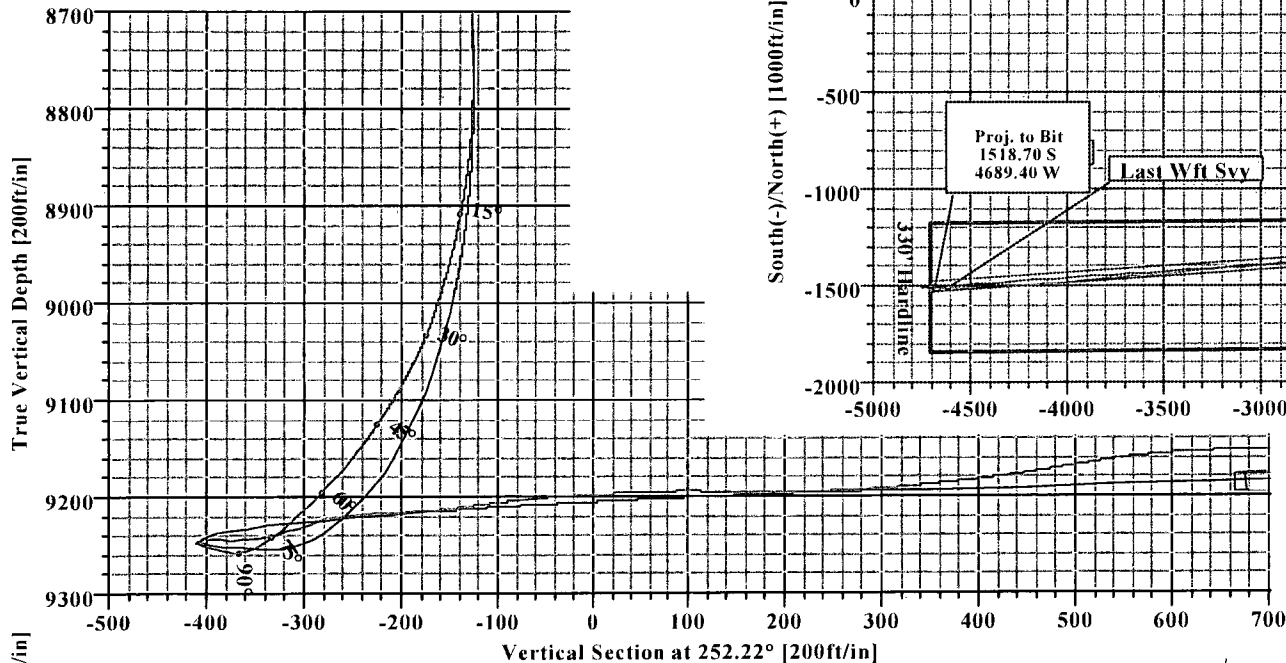
VES Survey Date: 07/04/2013



Aquila 22 Fed Com 4H
Eddy Co., New Mexico



KB ELEV: 3561
GL ELEV: 3541



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8520.00	0.94	252.03	8516.38	140.10	91.41	0.00	0.00	-129.83	
2	8777.16	0.94	252.03	8773.50	138.80	87.40	0.00	0.00	-125.61	
3	9542.13	91.37	135.00	9254.33	-211.97	427.99	12.00	242.99	-342.82	
4	10852.76	91.37	266.13	9194.16	-1186.86	62.19	10.00	86.99	303.21	
5	15631.86	91.37	266.13	9080.00	-1508.99	-4704.68	0.00	0.00	4940.76	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Aquila 22 Fed Com 4H	0.00	0.00	598570.70	690334.85	32°38'40.497N	103°50'57.365W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL	9080.00	-1508.99	-4704.68	597061.71	685630.17	Rectangle (4401x50)

SITE DETAILS

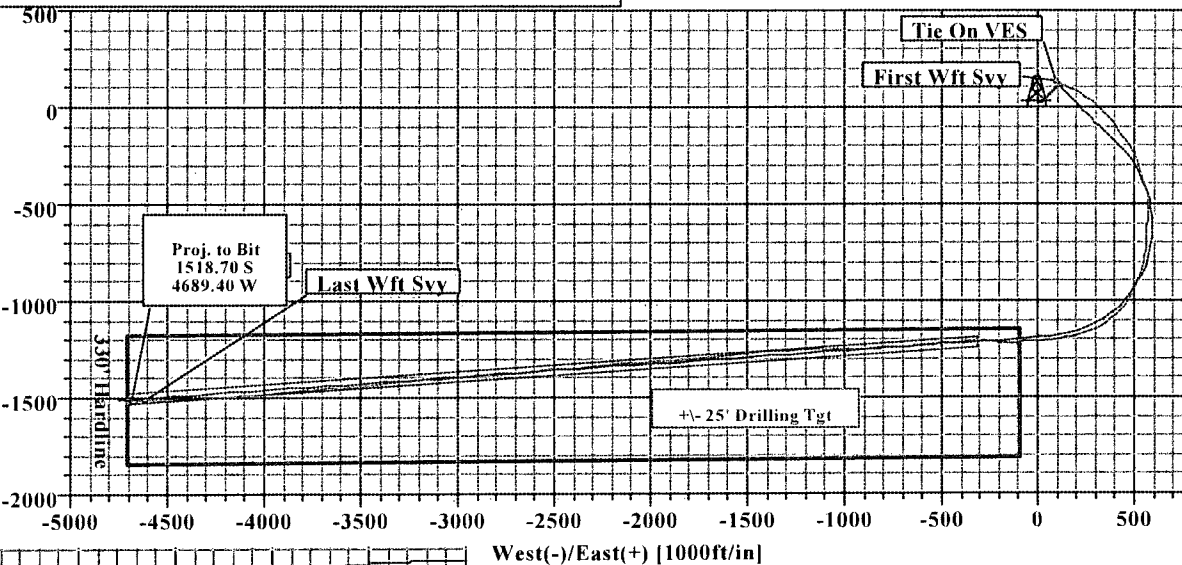
Aquila 22 Fed Com 4H

Site Centre Northing: 598570.70
Easting: 690334.85

Ground Level: 3541.00
Positional Uncertainty: 0.00
Convergence: 0.26



Weatherford



LEGEND

- Aquila 22 Fed Com 4H, I, Plan #3
- Upton Z Fee #3 (1)
- Nash Unit #45H (1)
- 1
- Wft Svy

Survey: Wft Svy (Aquila 22 Fed Com 4H/I)

Created By: Patrick Rudolph

Date: 7/30/2013



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 7/30/2013	Time: 06:58:19	Page: 1
Field: Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Aquila 22 Fed Com 4H, Grid North	
Site: Aquila 22 Fed Com 4H	Vertical (TVD) Reference:	SITE 3561.0	
Well: Aquila 22 Fed Com 4H	Section (VS) Reference:	Well (0.00N,0.00E,252.22Azi)	
Wellpath: 1	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: Wft Svy	Start Date: 7/12/2013
Company: Weatherford	Engineer: Russell W. Joyner
Tool: MWD;MWD - Standard	Tied-to: User Defined

Site: Aquila 22 Fed Com 4H

Site Position:	Northing: 598570.70 ft	Latitude: 32 38 40.497 N
From: Map	Easting: 690334.85 ft	Longitude: 103 50 57.365 W
Position Uncertainty: 0.00 ft	North Reference: Grid	
Ground Level: 3541.00 ft	Grid Convergence: 0.26 deg	

Well: Aquila 22 Fed Com 4H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 598570.70 ft	Latitude: 32 38 40.497 N
+E/-W 0.00 ft	Easting: 690334.85 ft	Longitude: 103 50 57.365 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 7/4/2013	Above System Datum: Mean Sea Level		
Field Strength: 48659 nT	Declination: 7.49 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60.48 deg		
ft	+N/-S ft	+E/-W ft	Direction deg
0.00	0.00	0.00	252.22

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
8520.00	0.94	252.03	8516.38	140.10	91.41	0.00	-129.83	598710.80	690426.26	Tie On VES First Wft Svy
8638.00	1.05	240.55	8634.36	139.27	89.55	0.19	-127.80	598709.97	690424.40	
8701.00	1.12	235.43	8697.35	138.64	88.54	0.19	-126.65	598709.34	690423.39	
8764.00	1.03	195.28	8760.34	137.74	87.88	1.18	-125.75	598708.44	690422.73	
8796.00	3.23	133.04	8792.31	136.85	88.47	9.05	-126.03	598707.55	690423.32	
8828.00	6.50	124.63	8824.20	135.20	90.62	10.43	-127.58	598705.90	690425.47	
8860.00	10.01	118.63	8855.86	132.84	94.55	11.28	-130.60	598703.54	690429.40	
8891.00	13.02	114.77	8886.23	130.09	100.09	10.02	-135.03	598700.79	690434.94	
8922.00	15.69	115.26	8916.26	126.83	107.05	8.62	-140.67	598697.53	690441.90	
8954.00	18.74	117.64	8946.83	122.60	115.52	9.78	-147.44	598693.30	690450.37	
8986.00	22.96	117.31	8976.72	117.35	125.62	13.19	-155.46	598688.05	690460.47	
9017.00	25.18	117.30	9005.03	111.55	136.86	7.16	-164.38	598682.25	690471.71	
9049.00	30.11	116.90	9033.36	104.79	150.07	15.42	-174.91	598675.49	690484.92	
9081.00	33.66	115.63	9060.53	97.32	165.23	11.29	-187.06	598668.02	690500.08	
9112.00	37.86	116.14	9085.68	89.41	181.52	13.58	-200.16	598660.11	690516.37	
9144.00	42.39	118.46	9110.15	79.94	199.83	14.91	-214.70	598650.64	690534.68	
9175.00	46.42	120.16	9132.29	69.32	218.74	13.55	-229.46	598640.02	690553.59	
9207.00	50.51	122.46	9153.50	56.86	239.19	13.87	-245.13	598627.56	690574.04	
9238.00	54.61	125.13	9172.35	43.16	259.63	14.89	-260.41	598613.86	690594.48	
9271.00	58.79	127.64	9190.46	26.79	281.81	14.17	-276.54	598597.49	690616.66	
9302.00	62.51	130.41	9205.66	9.78	302.79	14.30	-291.31	598580.48	690637.64	
9334.00	65.95	134.74	9219.57	-9.72	323.99	16.25	-305.55	598560.98	690658.84	
9365.00	70.03	137.31	9231.19	-30.41	343.94	15.24	-318.22	598540.29	690678.79	
9397.00	74.35	138.81	9240.98	-53.07	364.29	14.22	-330.68	598517.63	690699.14	
9428.00	77.46	142.74	9248.53	-76.35	383.29	15.87	-341.67	598494.35	690718.14	
9460.00	82.22	143.94	9254.17	-101.62	402.09	15.33	-351.85	598469.08	690736.94	
9491.00	86.78	144.64	9257.14	-126.66	420.09	14.88	-361.35	598444.04	690754.94	
9523.00	91.75	144.25	9257.55	-152.69	438.69	15.58	-371.11	598418.01	690773.54	
9554.00	93.08	144.73	9256.24	-177.90	456.68	4.56	-380.55	598392.80	690791.53	
9586.00	93.71	144.94	9254.35	-204.01	475.08	2.07	-390.09	598366.69	690809.93	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Aquila 22 Fed Com 4H
Well: Aquila 22 Fed Com 4H
Wellpath: 1

Date: 7/30/2013 Time: 06:58:19 Page: 2
Co-ordinate(NE) Reference: Well: Aquila 22 Fed Com 4H, Grid North
Vertical (TVD) Reference: SITE 3561.0
Section (VS) Reference: Well (0.00N,0.00E,252.22Azi)
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
9617.00	94.55	149.55	9252.12	-230.01	491.81	15.08	-398.08	598340.69	690826.66	
9650.00	92.52	154.47	9250.08	-259.08	507.26	16.10	-403.91	598311.62	690842.11	
9696.00	91.26	158.98	9248.56	-301.31	525.42	10.17	-408.31	598269.39	690860.27	
9728.00	90.91	161.14	9247.96	-331.38	536.33	6.84	-409.52	598239.32	690871.18	
9760.00	90.84	160.61	9247.47	-361.61	546.81	1.67	-410.27	598209.09	690881.66	
9792.00	91.19	164.65	9246.90	-392.14	556.36	12.67	-410.04	598178.56	690891.21	
9824.00	91.75	169.49	9246.08	-423.31	563.52	15.22	-407.34	598147.39	690898.37	
9855.00	91.47	173.24	9245.21	-453.94	568.17	12.13	-402.41	598116.76	690903.02	
9887.00	90.84	177.11	9244.56	-485.81	570.86	12.25	-395.24	598084.89	690905.71	
9918.00	89.30	180.93	9244.52	-516.80	571.39	13.29	-386.29	598053.90	690906.24	
9950.00	89.72	184.09	9244.80	-548.77	569.99	9.96	-375.19	598021.93	690904.84	
9982.00	90.42	183.99	9244.76	-580.69	567.73	2.21	-363.30	597990.01	690902.58	
10013.00	92.52	184.40	9243.96	-611.59	565.47	6.90	-351.70	597959.11	690900.32	
10045.00	93.50	182.22	9242.28	-643.49	563.62	7.46	-340.20	597927.21	690898.47	
10077.00	95.81	181.55	9239.69	-675.37	562.57	7.51	-329.47	597895.33	690897.42	
10108.00	96.30	183.01	9236.42	-706.17	561.35	4.94	-318.90	597864.53	690896.20	
10140.00	97.72	184.99	9232.51	-737.85	559.13	7.58	-307.11	597832.85	690893.98	
10171.00	98.15	189.40	9228.23	-768.30	555.29	14.16	-294.15	597802.40	690890.14	
10203.00	97.85	193.14	9223.77	-799.37	549.10	11.61	-278.77	597771.33	690883.95	
10234.00	95.53	196.08	9220.16	-829.16	541.33	12.03	-262.28	597741.54	690876.18	
10266.00	92.24	197.63	9217.99	-859.71	532.07	11.36	-244.13	597710.99	690866.92	
10298.00	90.63	200.03	9217.19	-889.99	521.75	9.03	-225.06	597680.71	690856.60	
10330.00	91.61	203.13	9216.57	-919.73	509.98	10.16	-204.77	597650.97	690844.83	
10361.00	92.73	207.09	9215.39	-947.78	496.84	13.27	-183.69	597622.92	690831.69	
10393.00	94.13	210.20	9213.48	-975.81	481.53	10.64	-160.56	597594.89	690816.38	
10425.00	95.61	214.44	9210.76	-1002.75	464.49	13.99	-136.10	597567.95	690799.34	
10457.00	95.96	219.03	9207.53	-1028.25	445.45	14.31	-110.19	597542.45	690780.30	
10489.00	95.04	222.61	9204.47	-1052.35	424.63	11.50	-83.00	597518.35	690759.48	
10519.00	95.12	227.62	9201.81	-1073.43	403.47	16.64	-56.41	597497.27	690738.32	
10552.00	93.29	231.54	9199.39	-1094.77	378.42	13.08	-26.04	597475.93	690713.27	
10583.00	92.87	235.09	9197.72	-1113.26	353.60	11.52	3.24	597457.44	690688.45	
10615.00	91.75	239.46	9196.43	-1130.54	326.71	14.09	34.12	597440.16	690661.56	
10646.00	92.10	243.00	9195.39	-1145.45	299.55	11.47	64.53	597425.25	690634.40	
10677.00	90.35	246.82	9194.73	-1158.59	271.49	13.55	95.27	597412.11	690606.34	
10709.00	88.46	250.47	9195.06	-1170.24	241.70	12.84	127.20	597400.46	690576.55	
10741.00	88.04	255.11	9196.04	-1179.70	211.15	14.55	159.17	597391.00	690546.00	
10772.00	89.93	258.32	9196.58	-1186.82	180.99	12.01	190.06	597383.88	690515.84	
10804.00	92.38	261.16	9195.94	-1192.52	149.51	11.72	221.78	597378.18	690484.36	
10836.00	92.59	263.85	9194.55	-1196.69	117.82	8.42	253.23	597374.01	690452.67	
10930.00	95.33	265.18	9188.06	-1205.65	24.49	3.24	344.85	597365.05	690359.34	
11025.00	97.72	266.53	9177.27	-1212.47	-69.64	2.88	436.56	597358.23	690265.21	
11056.00	97.99	267.90	9173.03	-1213.97	-100.32	4.46	466.22	597356.73	690234.53	
11087.00	98.70	269.19	9168.53	-1214.75	-130.98	4.71	495.66	597355.95	690203.87	
11119.00	98.50	271.36	9163.74	-1214.59	-162.61	6.73	525.74	597356.11	690172.24	
11151.00	96.59	272.15	9159.54	-1213.62	-194.32	6.45	555.63	597357.08	690140.53	
11183.00	94.63	272.02	9156.41	-1212.46	-226.14	6.14	585.58	597358.24	690108.71	
11215.00	92.94	271.85	9154.30	-1211.38	-258.06	5.31	615.64	597359.32	690076.79	
11246.00	91.61	270.81	9153.07	-1210.67	-289.02	5.44	644.91	597360.03	690045.83	
11278.00	90.07	269.58	9152.60	-1210.56	-321.02	6.16	675.34	597360.14	690013.83	
11310.00	89.16	268.13	9152.82	-1211.20	-353.01	5.35	706.00	597359.50	689981.84	
11342.00	88.95	266.05	9153.34	-1212.82	-384.96	6.53	736.92	597357.88	689949.89	
11373.00	88.95	264.83	9153.91	-1215.28	-415.86	3.93	767.10	597355.42	689918.99	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Aquila 22 Fed Com 4H
Well: Aquila 22 Fed Com 4H
Wellpath: 1

Date: 7/30/2013 Time: 06:58:19 Page: 3
Co-ordinate(NE) Reference: Well: Aquila 22 Fed Com 4H, Grid North
Vertical (TVD) Reference: SITE 3561.0
Section (VS) Reference: Well (0.00N,0.00E,252.22Azi)
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
11405.00	89.86	265.27	9154.25	-1218.05	-447.74	3.16	798.30	597352.65	689887.11	
11436.00	90.28	265.28	9154.21	-1220.60	-478.63	1.36	828.49	597350.10	689856.22	
11468.00	90.42	265.22	9154.01	-1223.25	-510.52	0.48	859.67	597347.45	689824.33	
11500.00	90.28	264.97	9153.82	-1225.99	-542.40	0.90	890.86	597344.71	689792.45	
11531.00	88.74	264.79	9154.08	-1228.75	-573.28	5.00	921.11	597341.95	689761.57	
11562.00	88.67	265.52	9154.78	-1231.37	-604.16	2.37	951.31	597339.33	689730.69	
11594.00	88.95	265.18	9155.45	-1233.96	-636.04	1.38	982.47	597336.74	689698.81	
11625.00	89.37	265.97	9155.90	-1236.35	-666.95	2.89	1012.63	597334.35	689667.90	
11657.00	89.37	266.35	9156.25	-1238.50	-698.87	1.19	1043.68	597332.20	689635.98	
11688.00	89.09	266.68	9156.67	-1240.38	-729.81	1.40	1073.72	597330.32	689605.04	
11719.00	88.88	266.62	9157.22	-1242.19	-760.76	0.70	1103.74	597328.51	689574.09	
11751.00	88.67	266.87	9157.90	-1244.01	-792.70	1.02	1134.71	597326.69	689542.15	
11783.00	89.44	266.89	9158.43	-1245.75	-824.65	2.41	1165.66	597324.95	689510.20	
11877.00	91.33	268.15	9157.80	-1249.82	-918.55	2.42	1256.32	597320.88	689416.30	
11971.00	91.75	268.88	9155.27	-1252.25	-1012.48	0.90	1346.51	597318.45	689322.37	
12065.00	91.47	269.69	9152.63	-1253.43	-1106.44	0.91	1436.34	597317.27	689228.41	
12160.00	90.84	269.57	9150.72	-1254.04	-1201.42	0.68	1526.97	597316.66	689133.43	
12254.00	91.19	268.27	9149.05	-1255.81	-1295.38	1.43	1616.99	597314.89	689039.47	
12349.00	91.12	265.91	9147.14	-1260.63	-1390.23	2.48	1708.78	597310.07	688944.62	
12444.00	90.84	264.31	9145.51	-1268.73	-1484.87	1.71	1801.37	597301.97	688849.98	
12538.00	90.98	264.05	9144.02	-1278.26	-1578.37	0.31	1893.32	597292.44	688756.48	
12633.00	89.44	264.14	9143.67	-1288.03	-1672.87	1.62	1986.28	597282.67	688661.98	
12728.00	88.74	263.75	9145.18	-1298.05	-1767.32	0.84	2079.29	597272.65	688567.53	
12822.00	89.58	264.50	9146.56	-1307.67	-1860.82	1.20	2171.25	597263.03	688474.03	
12919.00	90.21	265.72	9146.73	-1315.94	-1957.46	1.42	2265.81	597254.76	688377.39	
13013.00	90.70	266.78	9145.99	-1322.09	-2051.26	1.24	2357.00	597248.61	688283.59	
13107.00	90.21	266.24	9145.24	-1327.81	-2145.08	0.78	2448.09	597242.89	688189.77	
13201.00	89.44	265.87	9145.53	-1334.28	-2238.86	0.91	2539.36	597236.42	688095.99	
13296.00	90.56	265.33	9145.53	-1341.57	-2333.57	1.31	2631.78	597229.13	688001.28	
13391.00	91.68	265.00	9143.67	-1349.57	-2428.22	1.23	2724.34	597221.13	687906.63	
13486.00	91.89	265.80	9140.71	-1357.19	-2522.86	0.87	2816.80	597213.51	687811.99	
13582.00	91.40	265.29	9137.96	-1364.64	-2618.53	0.74	2910.17	597206.06	687716.32	
13677.00	91.40	264.98	9135.64	-1372.69	-2713.16	0.33	3002.74	597198.01	687621.69	
13772.00	90.77	265.56	9133.84	-1380.53	-2807.82	0.90	3095.27	597190.17	687527.03	
13866.00	91.19	265.67	9132.23	-1387.71	-2901.53	0.46	3186.70	597182.99	687433.32	
13962.00	93.01	266.11	9128.71	-1394.59	-2997.22	1.95	3279.91	597176.11	687337.63	
14056.00	92.93	265.42	9123.84	-1401.52	-3090.83	0.74	3371.18	597169.18	687244.02	
14151.00	92.66	264.30	9119.21	-1410.02	-3185.34	1.21	3463.76	597160.68	687149.51	
14248.00	92.03	263.32	9115.24	-1420.47	-3281.69	1.20	3558.70	597150.23	687053.16	
14342.00	93.08	263.85	9111.05	-1430.96	-3375.01	1.25	3650.77	597139.74	686959.84	
14437.00	93.50	264.88	9105.60	-1440.28	-3469.39	1.17	3743.49	597130.42	686865.46	
14532.00	91.05	266.73	9101.83	-1447.22	-3564.05	3.23	3835.74	597123.48	686770.80	
14626.00	91.05	266.24	9100.10	-1452.98	-3657.86	0.52	3926.83	597117.72	686676.99	
14721.00	91.26	266.10	9098.19	-1459.33	-3752.63	0.27	4019.01	597111.37	686582.22	
14816.00	91.12	264.46	9096.22	-1467.14	-3847.28	1.73	4111.53	597103.56	686487.57	
14910.00	90.98	264.17	9094.49	-1476.45	-3940.80	0.34	4203.43	597094.25	686394.05	
15005.00	91.12	265.35	9092.75	-1485.12	-4035.39	1.25	4296.14	597085.58	686299.46	
15099.00	91.12	266.11	9090.91	-1492.12	-4129.11	0.81	4387.52	597078.58	686205.74	
15194.00	90.14	266.99	9089.87	-1497.84	-4223.93	1.39	4479.56	597072.86	686110.92	
15288.00	90.21	267.57	9089.58	-1502.30	-4317.82	0.62	4570.33	597068.40	686017.03	
15383.00	90.35	267.76	9089.12	-1506.17	-4412.74	0.25	4661.90	597064.53	685922.11	
15477.00	89.30	267.55	9089.41	-1510.02	-4506.66	1.14	4752.51	597060.68	685828.19	
15572.00	88.46	267.34	9091.26	-1514.25	-4601.55	0.91	4844.15	597056.45	685733.30	



Weatherford International Ltd.

WFT Survey Report X & Y's



Weatherford

Company:	Devon Energy	Date:	7/30/2013	Time:	06:58:19	Page:	4
Field:	Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Aquila 22 Fed Com 4H Grid North				
Site:	Aquila 22 Fed Com 4H	Vertical (TVD) Reference:	SITE 3561.0				
Well:	Aquila 22 Fed Com 4H	Section (VS) Reference:	Well (0.00N 0.00E, 252.22Azi)				
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
15585.00	88.32	267.08	9091.63	-1514.88	-4614.53	2.27	4856.71	597055.82	685720.32	Last Wft Svy
15660.00	88.32	267.08	9093.83	-1518.70	-4689.40	0.00	4929.17	597052.00	685645.45	Proj. to Bit

Annotation

MD ft	TVD ft	
8520.00	8516.38	Tie On VES
8638.00	8634.36	First Wft Svy
15585.00	9091.63	Last Wft Svy
15660.00	9093.83	Proj. to Bit

Stimulations Summary

District PERMIAN BASIN		County EDDY		Field Name HACKBERRY		Project Group DELAWARE BASIN		State/Province NM			
Surface Legal Location SEC22 T19S R31E		API/UWI 3001541159		Latitude (°) 32° 38' 40.508" N		Longitude (°) 103° 50' 57.349" W		Ground Elev... 3,541.20	KB - GL (ft) 20.00	Orig KB Elev (ft) 3,561.20	Tubing Head Elevation (ft)
SLICKWATER FRAC , 8/30/2013 17:51 , BONE SPRING 2ND, OH , 15,216.0 ftKB - 15,587.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 7524.706 L											
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...	
132,225.0	6116.87	185.0	2,261.0		2,379.0	5,614.0	80	7,686.0	86	2.00	
SLICKWATER FRAC , 8/30/2013 21:02 , BONE SPRING 2ND, OH , 14,756.0 ftKB - 15,126.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 9278.058 L											
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...	
132,225.0	7410.47	1,976.0	2,326.0		2,379.0	5,394.0	80	7,661.0	82	2.00	
SLICKWATER FRAC , 8/31/2013 07:30 , BONE SPRING 2ND, OH , 14,295.0 ftKB - 14,666.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4308.758 L											
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...	
132,225.0	5640.20	1,769.0	2,333.0		2,401.0	4,910.0	79	7,351.0	84	2.00	
SLICKWATER FRAC , 8/31/2013 11:35 , BONE SPRING 2ND, OH , 13,834.0 ftKB - 14,205.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4888.119 L											
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...	
132,225.0	5833.07	1,973.0	2,508.0		2,508.0	5,092.0	79	7,551.0	83	2.00	
SLICKWATER FRAC , 8/31/2013 15:20 , BONE SPRING 2ND, OH , 13,374.0 ftKB - 13,744.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4330.79 LB											
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...	
132,225.0	6161.65	1,951.0	2,301.0		2,301.0	4,774.0	77	7,169.0	81	2.00	
SLICKWATER FRAC , 8/31/2013 18:33 , BONE SPRING 2ND, OH , 12,913.0 ftKB - 13,283.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4311.932 L											
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...	
132,225.0	6242.00	1,944.0	2,301.0		2,301.0	4,774.0	77	7,169.0	81	2.00	
SLICKWATER FRAC , 8/31/2013 18:33 , BONE SPRING 2ND, OH , 12,452.0 ftKB - 12,823.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4297.716 L											
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...	
132,225.0	6298.38	1,944.0	2,579.0		2,579.0	4,840.0	77	7,497.0	81	2.00	
SLICKWATER FRAC , 9/1/2013 18:33 , BONE SPRING 2ND, OH , 11,991.0 ftKB - 12,362.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4291.055 LB											
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...	
132,225.0	6316.50	2,022.0	2,376.0		2,376.0	4,687.0	79	7,665.0	83	2.00	
SLICKWATER FRAC , 9/1/2013 18:33 , BONE SPRING 2ND, OH , 11,531.0 ftKB - 11,901.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4328.344 LB											
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...	
132,225.0	4981.72	2,022.0	2,376.0		2,376.0	4,687.0	79	7,665.0	83	2.00	
SLICKWATER FRAC , 9/1/2013 18:33 , BONE SPRING 2ND, OH , 11,070.0 ftKB - 11,441.0 ftKB, WEATHERFORD , OTTAWA Bulk Sand 4320.189 LB											
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...	
132,225.0	6105.85	2,022.0	2,376.0		2,376.0	4,687.0	79	7,665.0	83	2.00	