

**McVAY DRILLING COMPANY**

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

30 015 39374

Well Name and Num: Agate PWU 21 #3H
Location: Sec. 21, T19S, R29E
Operator: Devon
Drilling Contractor: McVay Drilling Company

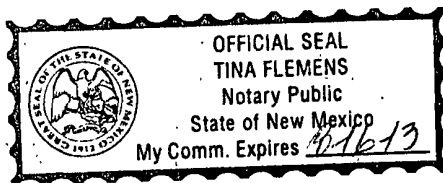
The undersigned certifies that he is an authorized representative of the drilling contractor who drilled the above described well and that he has conducted deviation tests and obtained the following results:

<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>	<u>Degrees @</u>	<u>Depth</u>
1.00	250	2.70	5804	88.57	9022
0.79	470	1.40	6065	89.60	9085
0.50	708	1.70	6531	88.64	9403
1.58	947	1.33	7070	88.80	9498
1.14	1203	1.25	7102	88.92	9594
0.73	1428	15.89	7229	88.78	10070
0.75	1710	19.60	7293	86.61	10262
0.59	1967	30.50	7452	91.01	10358
0.45	2221	41.10	7642	87.87	10741
0.60	2816	44.90	7706	90.87	11029
0.80	2975	53.10	7865	91.22	11317
1.00	3394	62.70	7992	90.45	11508
1.20	3864	69.77	8153	91.57	11603
1.10	4115	80.48	8226	90.50	11795
1.40	3348	90.03	8417	90.20	11892
0.90	4854	92.48	8449	91.64	11987
1.30	5330	91.08	8672	96.30	12104

By: *Harry Z...*

Subscribed and sworn to before me this 12th day of March, 2012

Tina FLEMENS
Notary Public, Lea County, New Mexico





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: March 8, 2012

Attention: Johnathan Aschraft

Re: Devon Energy
Well: Agate PWU 21 #3H
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>
Zach Snyder MWD Supervisor	3H	7070' MD 12104' MD	2/11/2012 3/5/2012	Measurement While Drilling

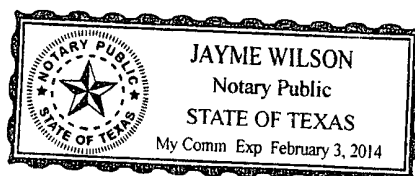
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 8th day of March, 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



devon

Agate PWU 21 #3H Eddy Co, NM

KB ELEV: 3336
GL ELEV: 3318



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	9784.00	91.34	87.23	7891.56	1.44	2208.55	0.00	0.00	2208.55	
2	9974.01	86.42	90.11	7895.27	5.85	2398.39	3.00	149.68	2398.39	
3	10070.10	86.42	90.11	7901.27	5.67	2494.30	0.00	0.00	2494.30	
4	10189.44	90.00	90.14	7905.00	5.41	2613.56	3.00	0.52	2613.56	
5	12192.17	90.00	90.14	7905.00	0.42	4616.28	0.00	0.00	4616.28	PBHL

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Agate PWU 21 #3H	0.00	0.00	598455.25	617058.94	32°38'41.846N	104°05'14.381W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
T1	7875.00	0.05	573.49	598455.30	617632.43	32°38'41.833N	104°05'07.673W	Point
T2	7890.00	0.23	2524.54	598455.48	619583.48	32°38'41.790N	104°04'44.854W	Point
PBHL	7905.00	0.42	4616.28	598455.67	621675.22	32°38'41.741N	104°04'20.389W	Rectangle (3905x50)

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

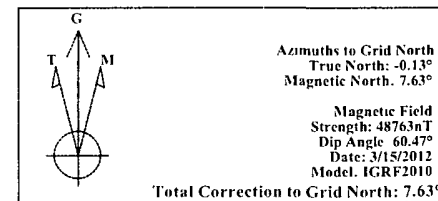
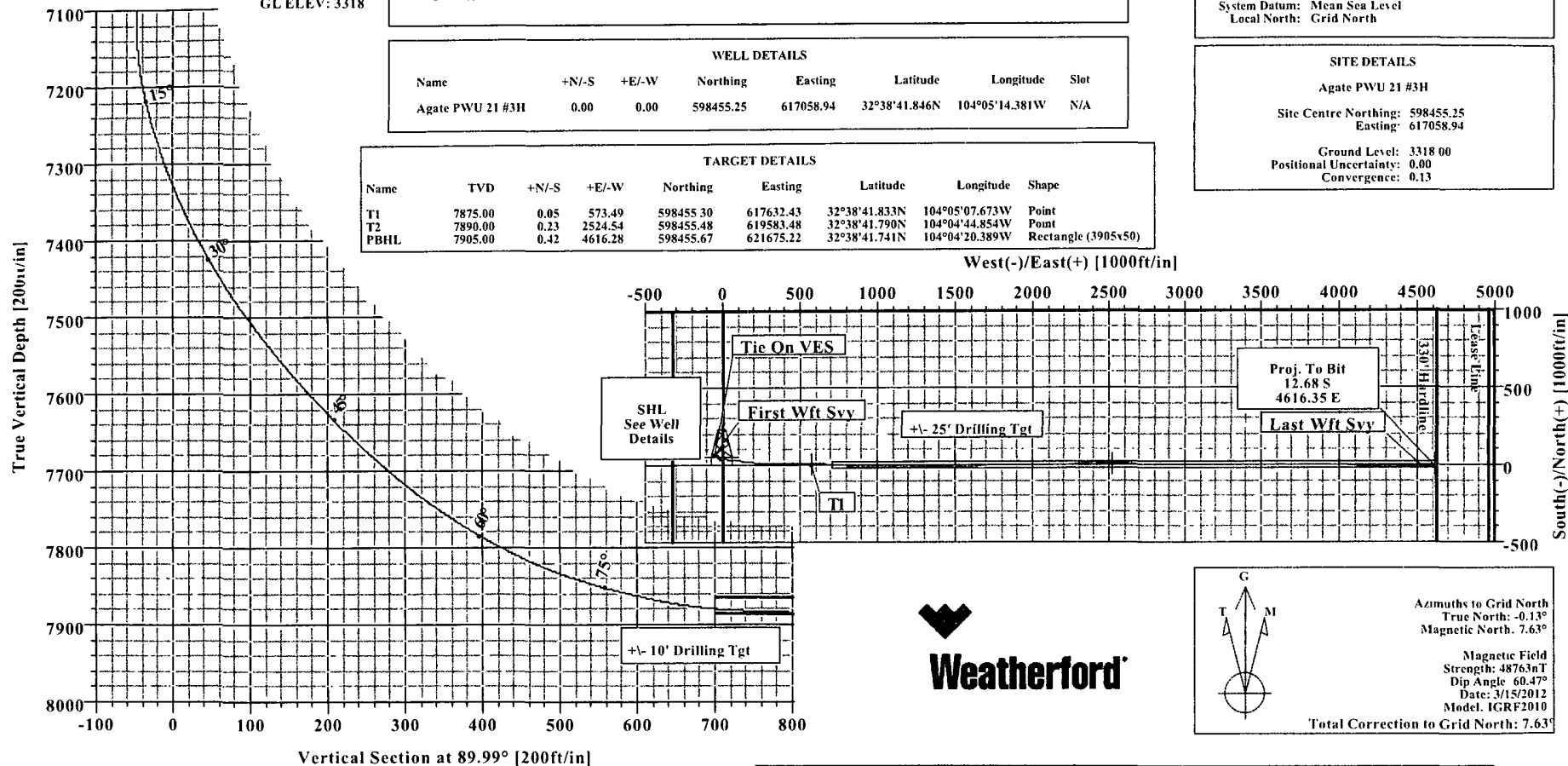
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

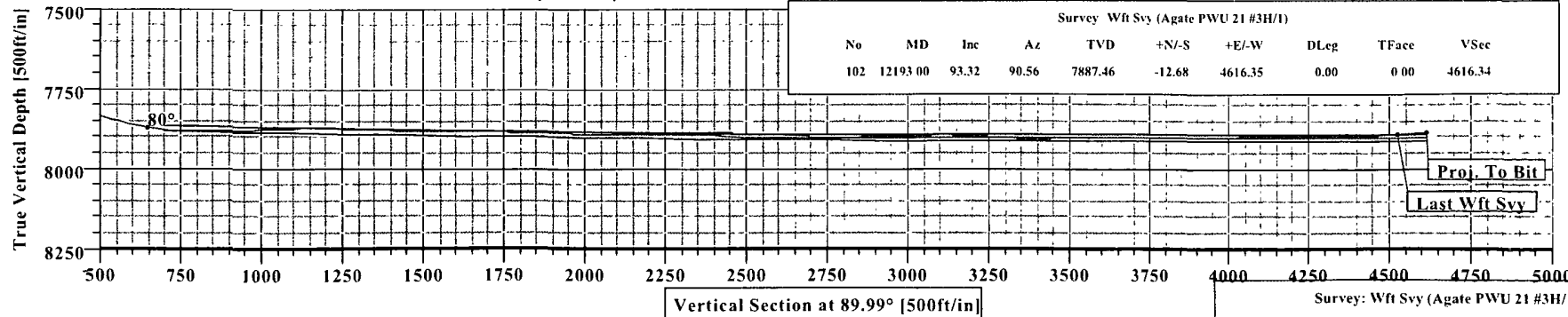
Agate PWU 21 #3H

Site Centre Northing: 598455.25
Easting: 617058.94

Ground Level: 3318.00
Positional Uncertainty: 0.00
Convergence: 0.13



Vertical Section at 89.99° [200ft/in]



No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
102	12193.00	93.32	90.56	7887.46	-12.68	4616.35	0.00	0.00	4616.34

Created By: Russell W. Joyner

Date: 3/6/2012



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P.O. Box 61028
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Tel. (432) 561-8892 Fax (432) 561-8895

Devon Energy
20 North Broadway
Oklahoma City, OK, 73102

Date: March 8, 2012

Attention: Johnathan Aschraft

Re: Devon Energy
Well: Agate PWU 21 #3H
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:

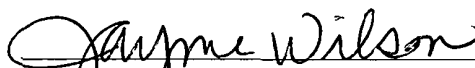
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
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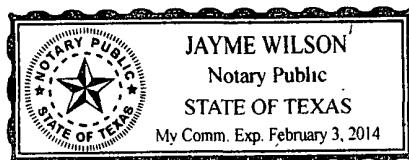
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.


Jesse Aguilar
Area Manager

On this, the 8th day of March, 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



devon

Agate PWU 21 #3H
Eddy Co, NM

KB ELEV: 3336
GL ELEV: 3318



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
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4	10189.44	90.00	90.14	7905.00	5.41	2613.56	3.00	0.52	2613.56	
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WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Agate PWU 21 #3H	0.00	0.00	598455.25	617058.94	32°38'41.846N	104°05'14.381W	N/A

TARGET DETAILS

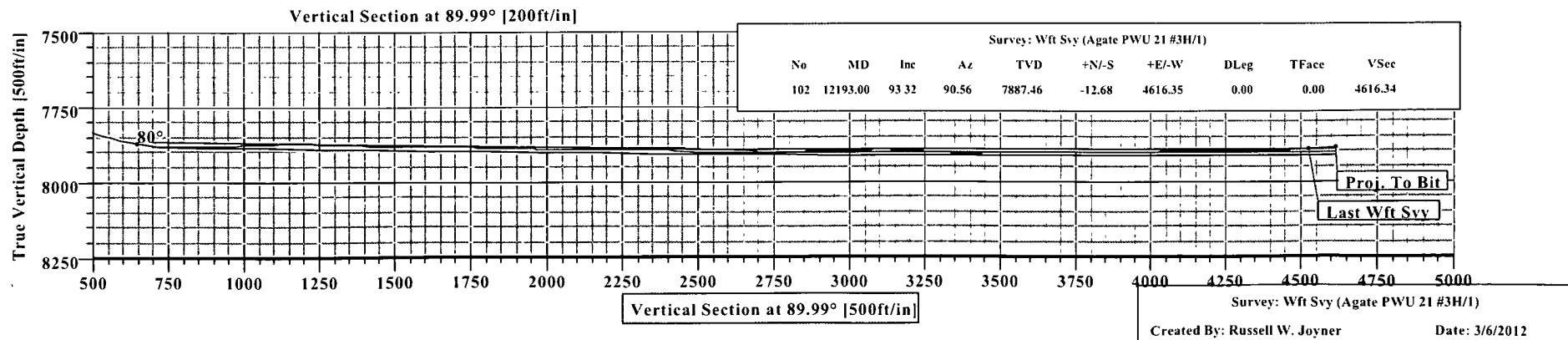
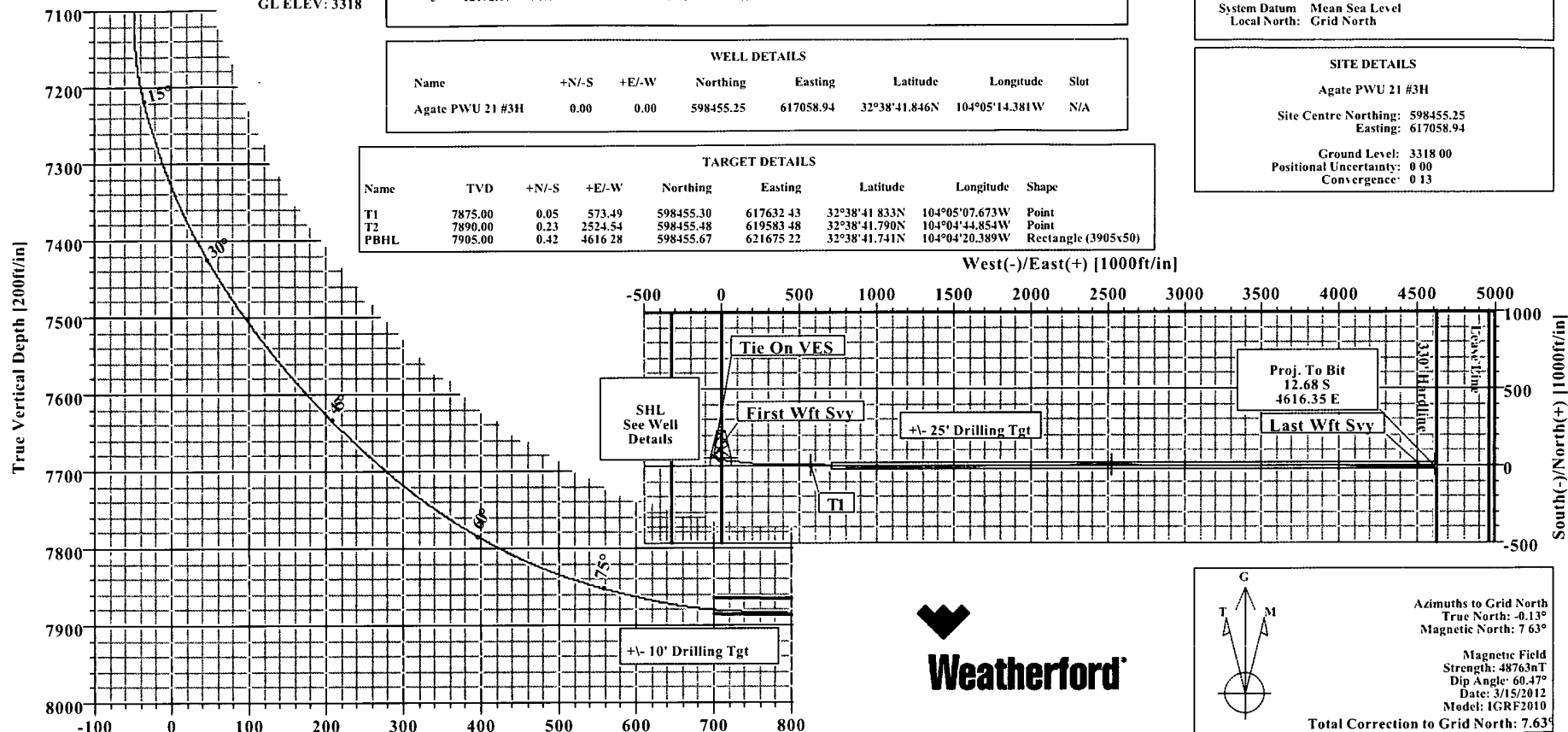
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
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PBHL	7905.00	0.42	4616.28	598455.67	621675.22	32°38'41.741N	104°04'20.389W	Rectangle (3905x50)

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

Agate PWU 21 #3H
Site Centre Northing: 598455.25
Easting: 617058.94
Ground Level: 3318.00
Positional Uncertainty: 0.00
Convergence: 0.13





Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/6/2012	Time: 09:08:04	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Agate PWU 21 #3H, Grid North		
Site: Agate PWU 21 #3H	Vertical (TVD) Reference: SITE 3336.0		
Well: Agate PWU 21 #3H	Section (VS) Reference: Well (0.00N,0.00E,89.99Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 2/23/2012
Company: Weatherford International Ltd	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: Agate PWU 21 #3H

Site Position:	Northing: 598455.25 ft	Latitude: 32 38 41 846 N
From: Map	Easting: 617058.94 ft	Longitude: 104 5 14 381 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3318.00 ft		Grid Convergence: 0 13 deg

Well: Agate PWU 21 #3H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 598455.25 ft	Latitude: 32 38 41.846 N
+E/-W 0.00 ft	Easting: 617058.94 ft	Longitude: 104 5 14.381 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0.00 ft		
Magnetic Data: 3/15/2012	Above System Datum: Mean Sea Level		
Field Strength: 48763 nT	Declination: 7 76 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 47 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0.00	0.00	0.00	89.99

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
7023.02	1.39	106.06	7021.22	58.78	-50.56	0.00	-50.55	598514.03	617008.38	Tie On VES First Wft Svy
7070.00	1.33	114.32	7068.18	58.40	-49.52	0.44	-49.51	598513.65	617009.42	
7102.00	1.25	123.70	7100.18	58.05	-48.89	0.70	-48.88	598513.30	617010.05	
7134.00	2.70	124.68	7132.16	57.43	-47.98	4.53	-47.97	598512.68	617010.96	
7166.00	6.87	117.35	7164.04	56.12	-45.66	13.14	-45.65	598511.37	617013.28	
7197.00	11.67	111.72	7194.62	54.11	-41.09	15.74	-41.08	598509.36	617017.85	
7229.00	15.89	110.31	7225.70	51.39	-33.98	13.23	-33.97	598506.64	617024.96	
7261.00	18.19	110.66	7256.29	48.10	-25.19	7.19	-25.18	598503.35	617033.75	
7293.00	19.56	110.04	7286.57	44.51	-15.49	4.33	-15.48	598499.76	617043.45	
7325.00	21.15	102.68	7316.57	41.40	-4.82	9.41	-4.81	598496.65	617054.12	
7357.00	23.40	97.85	7346.19	39.27	7.11	9.06	7.12	598494.52	617066.05	
7389.00	25.90	96.28	7375.27	37.63	20.35	8.08	20.36	598492.88	617079.29	
7420.00	28.33	96.34	7402.86	36.08	34.40	7.84	34.40	598491.33	617093.34	
7452.00	30.49	95.92	7430.73	34.41	50.02	6.78	50.03	598489.66	617108.96	
7484.00	32.70	96.98	7457.99	32.52	66.68	7.12	66.68	598487.77	617125.62	
7516.00	34.93	97.83	7484.57	30.22	84.33	7.12	84.34	598485.47	617143.27	
7547.00	36.68	98.00	7509.71	27.72	102.30	5.65	102.30	598482.97	617161.24	
7579.00	38.19	98.59	7535.12	24.91	121.54	4.85	121.55	598480.16	617180.48	
7611.00	39.65	97.60	7560.02	22.08	141.45	4.96	141.45	598477.33	617200.39	
7642.00	41.09	96.60	7583.64	19.61	161.37	5.09	161.37	598474.86	617220.31	
7674.00	42.84	95.83	7607.43	17.29	182.64	5.70	182.65	598472.54	617241.58	
7706.00	44.86	95.01	7630.51	15.20	204.71	6.56	204.71	598470.45	617263.65	
7738.00	45.81	94.51	7653.00	13.31	227.39	3.17	227.39	598468.56	617286.33	
7769.00	47.01	94.09	7674.37	11.63	249.78	3.99	249.78	598466.88	617308.72	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/6/2012	Time: 09:08.04	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Agate PWU 21 #3H, Grid North	
Site: Agate PWU 21 #3H	Vertical (TVD) Reference:	SITE 3336.0	
Well: Agate PWU 21 #3H	Section (VS) Reference:	Well (0.00N,0.00E,89.99Azi)	
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
7801.00	48.61	93.62	7695.86	10.04	273.44	5.12	273.44	598465.29	617332.38	
7833.00	51.14	92.83	7716.49	8.66	297.86	8.13	297.86	598463.91	617356.80	
7865.00	53.06	91.45	7736.14	7.73	323.09	6.90	323.10	598462.98	617382.03	
7897.00	55.27	91.07	7754.88	7.16	349.03	6.97	349.03	598462.41	617407.97	
7929.00	57.83	89.61	7772.51	7.00	375.72	8.86	375.73	598462.25	617434.66	
7960.00	60.60	89.47	7788.38	7.22	402.35	8.94	402.35	598462.47	617461.29	
7992.00	62.67	88.51	7803.58	7.72	430.50	6.99	430.51	598462.97	617489.44	
8024.00	65.61	87.67	7817.54	8.68	459.28	9.49	459.28	598463.93	617518.22	
8067.00	69.77	87.98	7833.86	10.19	499.02	9.70	499.03	598465.44	617557.96	
8099.00	72.71	89.27	7844.15	10.91	529.31	9.95	529.31	598466.16	617588.25	
8130.00	75.04	90.96	7852.76	10.85	559.09	9.16	559.09	598466.10	617618.03	
8162.00	76.13	92.17	7860.72	10.00	590.07	5.00	590.07	598465.25	617649.01	
8194.00	77.78	93.04	7867.95	8.58	621.21	5.80	621.21	598463.83	617680.15	
8226.00	80.48	93.69	7873.98	6.74	652.58	8.67	652.58	598461.99	617711.52	
8258.00	83.45	94.00	7878.45	4.61	684.19	9.33	684.19	598459.86	617743.13	
8290.00	86.68	94.62	7881.21	2.22	715.98	10.28	715.98	598457.47	617774.92	
8321.00	88.01	94.76	7882.64	-0.32	746.84	4.31	746.84	598454.93	617805.78	
8353.00	87.87	94.83	7883.79	-2.99	778.71	0.49	778.70	598452.26	617837.65	
8385.00	88.64	94.47	7884.77	-5.58	810.58	2.66	810.58	598449.67	617869.52	
8417.00	90.03	94.31	7885.14	-8.03	842.49	4.37	842.49	598447.22	617901.43	
8449.00	91.08	93.60	7884.83	-10.24	874.41	3.96	874.41	598445.01	617933.35	
8480.00	92.48	92.93	7883.86	-12.00	905.34	5.01	905.34	598443.25	617964.28	
8512.00	93.39	91.97	7882.23	-13.37	937.27	4.13	937.27	598441.88	617996.21	
8544.00	93.54	90.70	7880.29	-14.11	969.20	3.99	969.20	598441.14	618028.14	
8576.00	92.69	89.03	7878.55	-14.04	1001.15	5.85	1001.15	598441.21	618060.09	
8608.00	92.55	88.08	7877.09	-13.23	1033.11	3.00	1033.11	598442.02	618092.05	
8640.00	91.29	87.67	7876.02	-12.05	1065.07	4.14	1065.07	598443.20	618124.01	
8672.00	91.08	87.88	7875.36	-10.80	1097.04	0.93	1097.04	598444.45	618155.98	
8703.00	90.31	87.72	7874.98	-9.61	1128.01	2.54	1128.01	598445.64	618186.95	
8735.00	90.24	87.50	7874.83	-8.28	1159.99	0.72	1159.98	598446.97	618218.93	
8767.00	90.24	87.88	7874.69	-6.99	1191.96	1.19	1191.96	598448.26	618250.90	
8799.00	89.20	88.41	7874.85	-5.95	1223.94	3.65	1223.94	598449.30	618282.88	
8831.00	88.07	89.78	7875.61	-5.45	1255.93	5.55	1255.93	598449.80	618314.87	
8862.00	87.87	90.29	7876.71	-5.47	1286.91	1.77	1286.91	598449.78	618345.85	
8894.00	87.73	90.38	7877.94	-5.65	1318.88	0.52	1318.88	598449.60	618377.82	
8926.00	88.21	90.67	7879.07	-5.95	1350.86	1.75	1350.86	598449.30	618409.80	
8958.00	88.78	90.68	7879.91	-6.32	1382.85	1.78	1382.85	598448.93	618441.79	
8990.00	88.71	92.16	7880.61	-7.12	1414.83	4.63	1414.83	598448.13	618473.77	
9022.00	88.57	92.23	7881.37	-8.34	1446.80	0.49	1446.80	598446.91	618505.74	
9053.00	89.12	90.24	7882.00	-9.01	1477.78	6.66	1477.78	598446.24	618536.72	
9085.00	89.06	90.37	7882.51	-9.18	1509.78	0.45	1509.78	598446.07	618568.72	
9117.00	89.55	88.81	7882.89	-8.95	1541.77	5.11	1541.77	598446.30	618600.71	
9213.00	89.41	88.71	7883.77	-6.87	1637.75	0.18	1637.75	598448.38	618696.69	
9308.00	89.06	89.18	7885.03	-5.12	1732.72	0.62	1732.72	598450.13	618791.66	
9403.00	88.64	89.09	7886.94	-3.69	1827.69	0.45	1827.69	598451.56	618886.63	
9498.00	88.08	89.25	7889.66	-2.32	1922.64	0.61	1922.64	598452.93	618981.58	
9594.00	88.92	89.60	7892.17	-1.35	2018.60	0.95	2018.60	598453.90	619077.54	
9689.00	90.24	89.90	7892.87	-0.94	2113.60	1.42	2113.60	598454.31	619172.54	
9784.00	91.34	87.23	7891.56	1.44	2208.55	3.04	2208.55	598456.69	619267.49	
9879.00	89.90	89.18	7890.53	4.42	2303.49	2.55	2303.49	598459.67	619362.43	
9975.00	90.24	89.71	7890.41	5.35	2399.49	0.66	2399.49	598460.60	619458.43	
10070.00	88.78	90.51	7891.23	5.16	2494.48	1.75	2494.48	598460.41	619553.42	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/6/2012	Time: 09:08:04	Page: 3
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Agate PWU 21 #3H, Grid North		
Site: Agate PWU 21 #3H	Vertical (TVD) Reference: SITE 3336.0		
Well: Agate PWU 21 #3H	Section (VS) Reference: Well (0.00N,0 00E,89 99Azi)		
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
10166.00	86.68	90.75	7895.03	4.11	2590.39	2.20	2590.39	598459.36	619649.33	
10262.00	86.61	90.70	7900.65	2.90	2686.22	0.09	2686.22	598458.15	619745.16	
10358.00	91.01	90.21	7902.64	2.13	2782.17	4.61	2782.17	598457.38	619841.11	
10454.00	91.78	89.66	7900.30	2.24	2878.14	0.99	2878.14	598457.49	619937.08	
10550.00	91.01	89.86	7897.96	2.65	2974.11	0.83	2974.11	598457.90	620033.05	
10645.00	91.37	89.90	7895.99	2.84	3069.09	0.38	3069.09	598458.09	620128.03	
10741.00	87.87	89.64	7896.63	3.23	3165.07	3.66	3165.07	598458.48	620224.01	
10837.00	85.41	90.65	7902.25	2.99	3260.90	2.77	3260.90	598458.24	620319.84	
10933.00	89.55	90.13	7906.47	2.34	3356.78	4.35	3356.78	598457.59	620415.72	
11029.00	90.87	90.46	7906.12	1.84	3452.78	1.42	3452.78	598457.09	620511.72	
11125.00	90.03	91.13	7905.37	0.51	3548.77	1.12	3548.77	598455.76	620607.71	
11221.00	90.17	90.55	7905.20	-0.90	3644.75	0.62	3644.75	598454.35	620703.69	
11317.00	91.22	90.81	7904.04	-2.04	3740.74	1.13	3740.74	598453.21	620799.68	
11412.00	90.17	90.68	7902.88	-3.27	3835.72	1.11	3835.72	598451.98	620894.66	
11476.00	89.69	90.40	7902.96	-3.88	3899.72	0.87	3899.72	598451.37	620958.66	
11508.00	90.45	90.37	7902.92	-4.09	3931.72	2.38	3931.72	598451.16	620990.66	
11604.00	91.57	90.72	7901.23	-5.00	4027.70	1.22	4027.70	598450.25	621086.64	
11700.00	90.59	90.95	7899.42	-6.40	4123.67	1.05	4123.67	598448.85	621182.61	
11732.00	89.69	91.09	7899.34	-6.97	4155.66	2.85	4155.66	598448.28	621214.60	
11795.00	90.52	91.26	7899.23	-8.26	4218.65	1.34	4218.65	598446.99	621277.59	
11860.00	89.69	90.75	7899.11	-9.40	4283.64	1.50	4283.64	598445.85	621342.58	
11892.00	90.17	90.71	7899.15	-9.81	4315.64	1.51	4315.63	598445.44	621374.58	
11987.00	91.61	90.43	7897.67	-10.76	4410.62	1.54	4410.62	598444.49	621469.56	
12083.00	93.04	90.58	7893.78	-11.60	4506.53	1.50	4506.53	598443.65	621565.47	
12104.00	93.32	90.56	7892.61	-11.81	4527.50	1.34	4527.50	598443.44	621586.44	Last Wft Svy
12193.00	93.32	90.56	7887.46	-12.68	4616.35	0.00	4616.34	598442.57	621675.29	Proj To Bit

Annotation

MD ft	TVD ft	
7023.02	7021.22	Tie On VES
7070.00	7068.18	First Wft Svy
12104.00	7892.61	Last Wft Svy
12193.00	7887.46	Proj To Bit



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/6/2012	Time: 09:08:04	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Agate-PWU 21 #3H, Grid North		
Site: Agate PWU 21 #3H	Vertical (TVD) Reference: SITE 3336.0		
Well: Agate PWU 21 #3H	Section (VS) Reference: Well (0.00N,0.00E,89.99Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: Wft Svy	Start Date: 2/23/2012
Company: Weatherford International Ltd.	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: Agate PWU 21 #3H

Site Position:	Northing: 598455.25 ft	Latitude: 32 38 41.846 N
From: Map	Easting: 617058.94 ft	Longitude: 104 5 14.381 W
Position Uncertainty: 0 00 ft		North Reference: Grid
Ground Level: 3318.00 ft		Grid Convergence: 0 13 deg

Well: Agate PWU 21 #3H	Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 598455.25 ft	Latitude: 32 38 41.846 N
+E/-W 0.00 ft	Easting: 617058.94 ft	Longitude: 104 5 14.381 W
Position Uncertainty: 0.00 ft		

Wellpath: 1	Drilled From: Surface		
Current Datum: SITE	Tie-on Depth: 0 00 ft		
Magnetic Data: 3/15/2012	Above System Datum: Mean Sea Level		
Field Strength: 48763 nT	Declination: 7 76 deg		
Vertical Section: Depth From (TVD)	Mag Dip Angle: 60 47 deg		
ft	+N/-S	+E/-W	Direction
	ft	ft	deg
0 00	0 00	0.00	89 99

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
7023.02	1.39	106.06	7021.22	58.78	-50.56	0.00	-50.55	598514.03	617008.38	Tie On VES First Wft Svy
7070.00	1.33	114.32	7068.18	58.40	-49.52	0.44	-49.51	598513.65	617009.42	
7102.00	1.25	123.70	7100.18	58.05	-48.89	0.70	-48.88	598513.30	617010.05	
7134.00	2.70	124.68	7132.16	57.43	-47.98	4.53	-47.97	598512.68	617010.96	
7166.00	6.87	117.35	7164.04	56.12	-45.66	13.14	-45.65	598511.37	617013.28	
7197.00	11.67	111.72	7194.62	54.11	-41.09	15.74	-41.08	598509.36	617017.85	
7229.00	15.89	110.31	7225.70	51.39	-33.98	13.23	-33.97	598506.64	617024.96	
7261.00	18.19	110.66	7256.29	48.10	-25.19	7.19	-25.18	598503.35	617033.75	
7293.00	19.56	110.04	7286.57	44.51	-15.49	4.33	-15.48	598499.76	617043.45	
7325.00	21.15	102.68	7316.57	41.40	-4.82	9.41	-4.81	598496.65	617054.12	
7357.00	23.40	97.85	7346.19	39.27	7.11	9.06	7.12	598494.52	617066.05	
7389.00	25.90	96.28	7375.27	37.63	20.35	8.08	20.36	598492.88	617079.29	
7420.00	28.33	96.34	7402.86	36.08	34.40	7.84	34.40	598491.33	617093.34	
7452.00	30.49	95.92	7430.73	34.41	50.02	6.78	50.03	598489.66	617108.96	
7484.00	32.70	96.98	7457.99	32.52	66.68	7.12	66.68	598487.77	617125.62	
7516.00	34.93	97.83	7484.57	30.22	84.33	7.12	84.34	598485.47	617143.27	
7547.00	36.68	98.00	7509.71	27.72	102.30	5.65	102.30	598482.97	617161.24	
7579.00	38.19	98.59	7535.12	24.91	121.54	4.85	121.55	598480.16	617180.48	
7611.00	39.65	97.60	7560.02	22.08	141.45	4.96	141.45	598477.33	617200.39	
7642.00	41.09	96.60	7583.64	19.61	161.37	5.09	161.37	598474.86	617220.31	
7674.00	42.84	95.83	7607.43	17.29	182.64	5.70	182.65	598472.54	617241.58	
7706.00	44.86	95.01	7630.51	15.20	204.71	6.56	204.71	598470.45	617263.65	
7738.00	45.81	94.51	7653.00	13.31	227.39	3.17	227.39	598468.56	617286.33	
7769.00	47.01	94.09	7674.37	11.63	249.78	3.99	249.78	598466.88	617308.72	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Agate PWU 21 #3H
Well: Agate PWU 21 #3H
Wellpath: 1

Date: 3/6/2012 Time: 09:08:04 Page: 2
Co-ordinate(NE) Reference: Well: Agate PWU 21 #3H, Grid North
Vertical (TVD) Reference: SITE 3336.0
Section (VS) Reference: Well (0.00N,0.00E,89.99Azi)
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
7801.00	48.61	93.62	7695.86	10.04	273.44	5.12	273.44	598465.29	617332.38	
7833.00	51.14	92.83	7716.49	8.66	297.86	8.13	297.86	598463.91	617356.80	
7865.00	53.06	91.45	7736.14	7.73	323.09	6.90	323.10	598462.98	617382.03	
7897.00	55.27	91.07	7754.88	7.16	349.03	6.97	349.03	598462.41	617407.97	
7929.00	57.83	89.61	7772.51	7.00	375.72	8.86	375.73	598462.25	617434.66	
7960.00	60.60	89.47	7788.38	7.22	402.35	8.94	402.35	598462.47	617461.29	
7992.00	62.67	88.51	7803.58	7.72	430.50	6.99	430.51	598462.97	617489.44	
8024.00	65.61	87.67	7817.54	8.68	459.28	9.49	459.28	598463.93	617518.22	
8067.00	69.77	87.98	7833.86	10.19	499.02	9.70	499.03	598465.44	617557.96	
8099.00	72.71	89.27	7844.15	10.91	529.31	9.95	529.31	598466.16	617588.25	
8130.00	75.04	90.96	7852.76	10.85	559.09	9.16	559.09	598466.10	617618.03	
8162.00	76.13	92.17	7860.72	10.00	590.07	5.00	590.07	598465.25	617649.01	
8194.00	77.78	93.04	7867.95	8.58	621.21	5.80	621.21	598463.83	617680.15	
8226.00	80.48	93.69	7873.98	6.74	652.58	8.67	652.58	598461.99	617711.52	
8258.00	83.45	94.00	7878.45	4.61	684.19	9.33	684.19	598459.86	617743.13	
8290.00	86.68	94.62	7881.21	2.22	715.98	10.28	715.98	598457.47	617774.92	
8321.00	88.01	94.76	7882.64	-0.32	746.84	4.31	746.84	598454.93	617805.78	
8353.00	87.87	94.83	7883.79	-2.99	778.71	0.49	778.70	598452.26	617837.65	
8385.00	88.64	94.47	7884.77	-5.58	810.58	2.66	810.58	598449.67	617869.52	
8417.00	90.03	94.31	7885.14	-8.03	842.49	4.37	842.49	598447.22	617901.43	
8449.00	91.08	93.60	7884.83	-10.24	874.41	3.96	874.41	598445.01	617933.35	
8480.00	92.48	92.93	7883.86	-12.00	905.34	5.01	905.34	598443.25	617964.28	
8512.00	93.39	91.97	7882.23	-13.37	937.27	4.13	937.27	598441.88	617996.21	
8544.00	93.54	90.70	7880.29	-14.11	969.20	3.99	969.20	598441.14	618028.14	
8576.00	92.69	89.03	7878.55	-14.04	1001.15	5.85	1001.15	598441.21	618060.09	
8608.00	92.55	88.08	7877.09	-13.23	1033.11	3.00	1033.11	598442.02	618092.05	
8640.00	91.29	87.67	7876.02	-12.05	1065.07	4.14	1065.07	598443.20	618124.01	
8672.00	91.08	87.88	7875.36	-10.80	1097.04	0.93	1097.04	598444.45	618155.98	
8703.00	90.31	87.72	7874.98	-9.61	1128.01	2.54	1128.01	598445.64	618186.95	
8735.00	90.24	87.50	7874.83	-8.28	1159.99	0.72	1159.98	598446.97	618218.93	
8767.00	90.24	87.88	7874.69	-6.99	1191.96	1.19	1191.96	598448.26	618250.90	
8799.00	89.20	88.41	7874.85	-5.95	1223.94	3.65	1223.94	598449.30	618282.88	
8831.00	88.07	89.78	7875.61	-5.45	1255.93	5.55	1255.93	598449.80	618314.87	
8862.00	87.87	90.29	7876.71	-5.47	1286.91	1.77	1286.91	598449.78	618345.85	
8894.00	87.73	90.38	7877.94	-5.65	1318.88	0.52	1318.88	598449.60	618377.82	
8926.00	88.21	90.67	7879.07	-5.95	1350.86	1.75	1350.86	598449.30	618409.80	
8958.00	88.78	90.68	7879.91	-6.32	1382.85	1.78	1382.85	598448.93	618441.79	
8990.00	88.71	92.16	7880.61	-7.12	1414.83	4.63	1414.83	598448.13	618473.77	
9022.00	88.57	92.23	7881.37	-8.34	1446.80	0.49	1446.80	598446.91	618505.74	
9053.00	89.12	90.24	7882.00	-9.01	1477.78	6.66	1477.78	598446.24	618536.72	
9085.00	89.06	90.37	7882.51	-9.18	1509.78	0.45	1509.78	598446.07	618568.72	
9117.00	89.55	88.81	7882.89	-8.95	1541.77	5.11	1541.77	598446.30	618600.71	
9213.00	89.41	88.71	7883.77	-6.87	1637.75	0.18	1637.75	598448.38	618696.69	
9308.00	89.06	89.18	7885.03	-5.12	1732.72	0.62	1732.72	598450.13	618791.66	
9403.00	88.64	89.09	7886.94	-3.69	1827.69	0.45	1827.69	598451.56	618886.63	
9498.00	88.08	89.25	7889.66	-2.32	1922.64	0.61	1922.64	598452.93	618981.58	
9594.00	88.92	89.60	7892.17	-1.35	2018.60	0.95	2018.60	598453.90	619077.54	
9689.00	90.24	89.90	7892.87	-0.94	2113.60	1.42	2113.60	598454.31	619172.54	
9784.00	91.34	87.23	7891.56	1.44	2208.55	3.04	2208.55	598456.69	619267.49	
9879.00	89.90	89.18	7890.53	4.42	2303.49	2.55	2303.49	598459.67	619362.43	
9975.00	90.24	89.71	7890.41	5.35	2399.49	0.66	2399.49	598460.60	619458.43	
10070.00	88.78	90.51	7891.23	5.16	2494.48	1.75	2494.48	598460.41	619553.42	



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

February 29, 2012



Devon Energy Production Company
20 North Broadway
Oklahoma City, OK 73102

Attn: Mark Cooper

Re: **Agate PWU 21 3H**

Please find enclosed a copy of the survey from 0' to 7,023.02' ran on the above referenced well.

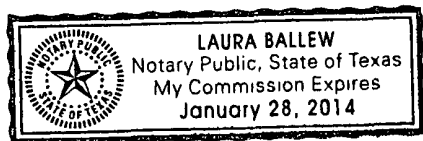
If I can be of any further service, please do not hesitate to call me at 800-606-4976.

Sincerely,

Keith Havelka
Operations

STATE OF TEXAS §
COUNTY OF NUECES §

This instrument was acknowledged before me on the 1st day of March, A.D., 2012, by Keith Havelka.




Laura Ballew
Notary Public, State of Texas



Company: Devon Energy Production Company

Lease/Well: Agate PWU 21/3H

Location: S21 T19S R29E

Rig Name: McVay 6

State/County: New Mexico/Eddy

Latitude: 32.64

GRID North is 0.13 Degrees East of True North

VS-Azi: 0.00 Degrees



RKB : 20 Feet

DRILLOG MS GYRO SURVEY CALCULATIONS

Filename: agatepwu213h-01_ed.ut

Minimum Curvature Method

Report Date/Time: 2/29/2012 / 12:10

Vaughn Energy Services

Gardendale, Texas

432-563-5444

Surveyor: Ray Seago

Agate PWU 21 3H / API 30-015-39374

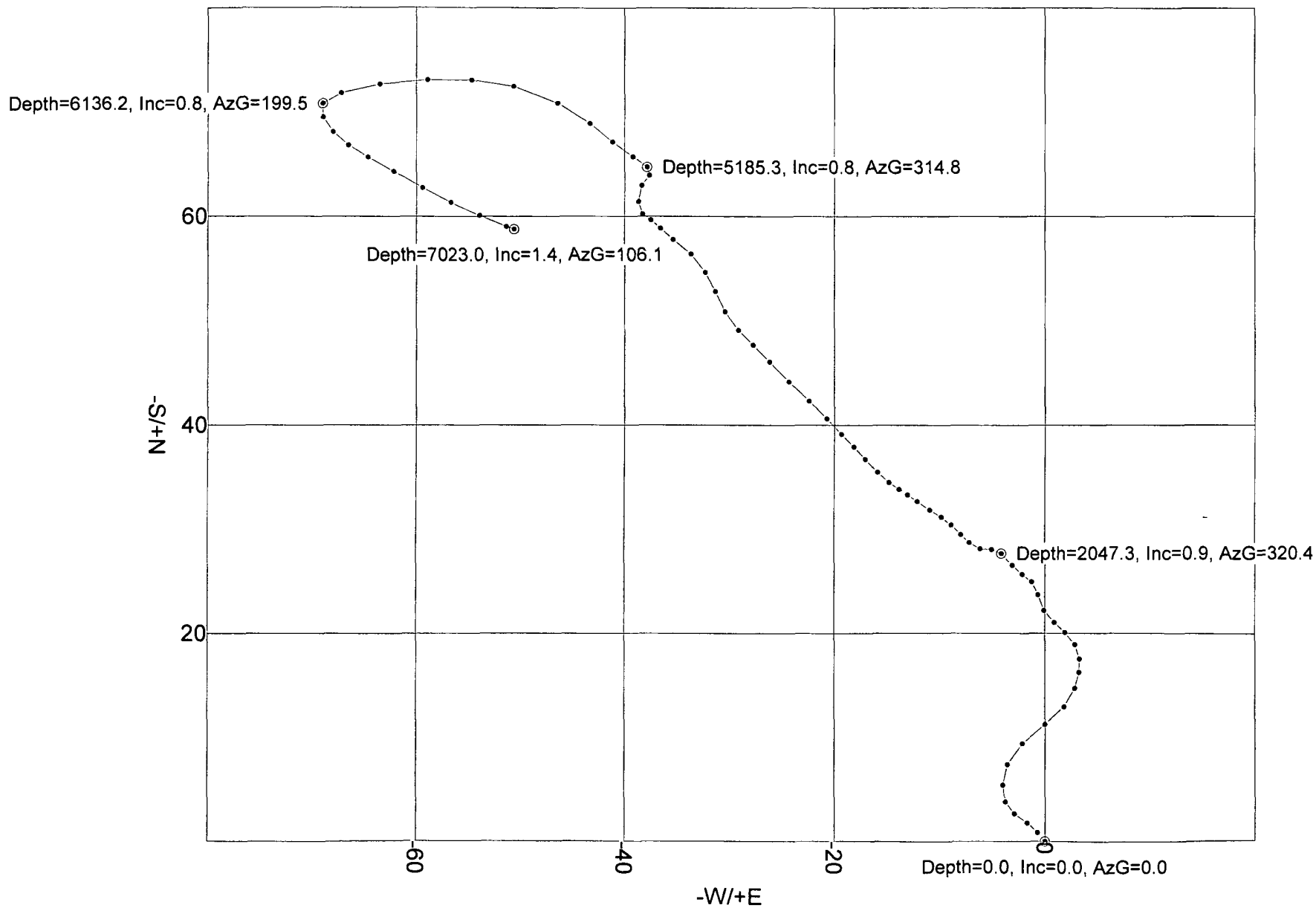
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	TVD FT	+N/-S FT	+E/-W FT	Vertical Section FT	Closure Distance FT	Closure Direction Deg	Dogleg Severity Deg/100
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	****
145.49	0.88	319.47	145.48	0.85	-0.73	0.85	1.12	319.47	0.61
240.58	0.77	305.55	240.56	1.78	-1.72	1.78	2.47	315.92	0.24
335.67	1.04	306.45	335.64	2.66	-2.93	2.66	3.96	312.21	0.28
430.76	0.80	344.98	430.72	3.81	-3.79	3.81	5.38	315.10	0.68
525.85	1.19	358.22	525.80	5.44	-4.00	5.44	6.75	323.67	0.48
620.94	1.30	24.42	620.87	7.41	-3.58	7.41	8.23	334.21	0.61
716.03	1.69	43.55	715.92	9.41	-2.16	9.41	9.66	347.05	0.66
811.12	1.74	55.67	810.97	11.24	0.00	11.24	11.24	359.98	0.38
906.21	1.30	37.60	906.03	12.92	1.85	12.92	13.05	8.14	0.68
1001.30	1.21	22.25	1001.09	14.70	2.89	14.70	14.98	11.11	0.37
1096.39	0.73	0.89	1096.17	16.23	3.28	16.23	16.56	11.41	0.62
1191.48	0.82	2.06	1191.25	17.52	3.31	17.52	17.83	10.70	0.10
1286.57	1.01	326.60	1286.33	18.90	2.87	18.90	19.11	8.64	0.62
1381.66	0.79	316.52	1381.41	20.08	1.95	20.08	20.17	5.56	0.28
1476.75	0.92	309.79	1476.49	21.04	0.92	21.04	21.06	2.49	0.17
1571.84	0.96	328.50	1571.57	22.21	-0.08	22.21	22.21	359.78	0.32
1666.93	1.02	349.27	1666.64	23.72	-0.66	23.72	23.73	358.41	0.38
1762.02	0.74	313.06	1761.72	24.98	-1.27	24.98	25.01	357.10	0.64

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
1857.11	0.66	305.90	1856.80	25.72	-2.16	25.72	25.81	355.20	0.13
1952.20	0.90	317.18	1951.89	26.58	-3.11	26.58	26.77	353.33	0.30
2047.29	0.90	320.41	2046.96	27.71	-4.09	27.71	28.01	351.60	0.05
2142.38	0.61	247.55	2142.05	28.09	-5.03	28.09	28.54	349.84	0.97
2237.47	0.82	292.44	2237.13	28.16	-6.12	28.16	28.82	347.73	0.61
2332.56	0.64	310.27	2332.21	28.76	-7.16	28.76	29.64	346.02	0.30
2427.65	0.70	316.69	2427.30	29.52	-7.96	29.52	30.58	344.91	0.10
2522.74	0.87	313.74	2522.38	30.44	-8.88	30.44	31.71	343.74	0.19
2617.83	0.62	299.86	2617.46	31.20	-9.85	31.20	32.72	342.49	0.32
2712.92	0.91	302.77	2712.54	31.87	-10.93	31.87	33.69	341.07	0.31
2808.01	0.85	305.27	2807.62	32.69	-12.15	32.69	34.87	339.61	0.08
2903.10	0.48	304.54	2902.70	33.32	-13.05	33.32	35.78	338.61	0.40
2998.19	0.67	302.29	2997.79	33.84	-13.85	33.84	36.56	337.75	0.20
3093.28	0.73	306.79	3092.87	34.50	-14.80	34.50	37.54	336.78	0.09
3188.37	1.04	316.85	3187.95	35.49	-15.88	35.49	38.88	335.90	0.36
3283.46	1.01	316.15	3283.02	36.73	-17.05	36.73	40.49	335.10	0.03
3378.55	0.91	319.52	3378.10	37.90	-18.12	37.90	42.01	334.45	0.13
3473.64	1.17	312.25	3473.18	39.13	-19.33	39.13	43.64	333.72	0.31
3568.73	1.32	319.39	3568.24	40.62	-20.76	40.62	45.62	332.93	0.23
3663.82	1.56	312.72	3663.30	42.33	-22.43	42.33	47.90	332.09	0.30
3758.91	1.66	314.98	3758.36	44.18	-24.35	44.18	50.44	331.14	0.13
3854.00	1.55	315.43	3853.41	46.07	-26.23	46.07	53.01	330.35	0.12
3949.09	1.14	316.35	3948.47	47.67	-27.78	47.67	55.18	329.77	0.43
4044.18	1.29	314.46	4043.54	49.11	-29.20	49.11	57.13	329.26	0.16
4139.27	1.36	334.78	4138.61	50.87	-30.44	50.87	59.28	329.10	0.50
4234.36	1.23	332.78	4233.67	52.80	-31.39	52.80	61.43	329.27	0.14
4329.45	1.28	330.60	4328.74	54.64	-32.38	54.64	63.52	329.35	0.07
4424.54	1.42	314.77	4423.80	56.40	-33.74	56.40	65.72	329.11	0.42
4519.63	1.20	304.06	4518.87	57.79	-35.40	57.79	67.77	328.51	0.35
4614.72	0.77	324.08	4613.94	58.86	-36.60	58.86	69.31	328.13	0.57
4709.81	0.76	297.73	4709.03	59.67	-37.53	59.67	70.49	327.83	0.37
4804.90	0.42	318.24	4804.11	60.22	-38.32	60.22	71.38	327.53	0.41
4899.99	1.11	351.29	4899.19	61.40	-38.69	61.40	72.57	327.78	0.83
4995.08	0.93	34.20	4994.27	62.95	-38.40	62.95	73.74	328.62	0.81
5090.17	0.53	39.41	5089.35	63.92	-37.69	63.92	74.21	329.48	0.43
5185.26	0.76	314.84	5184.44	64.71	-37.86	64.71	74.97	329.67	0.93
5280.35	1.29	300.75	5279.51	65.70	-39.23	65.70	76.52	329.16	0.61
5375.44	1.59	310.43	5374.57	67.10	-41.15	67.10	78.72	328.48	0.40
5470.53	1.80	308.05	5469.62	68.88	-43.33	68.88	81.38	327.83	0.24

	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
	5565.62	2.65	298.28	5564.64	70.84	-46.45	70.84	84.71	326.75	0.97
	5660.71	2.73	283.98	5659.62	72.43	-50.58	72.43	88.34	325.08	0.71
	5755.80	2.23	271.43	5754.62	73.02	-54.62	73.02	91.19	323.20	0.77
	5850.89	2.93	269.93	5849.62	73.07	-58.90	73.07	93.85	321.13	0.74
	5945.98	2.64	258.84	5944.60	72.64	-63.48	72.64	96.47	318.85	0.65
	6041.07	1.97	255.83	6039.61	71.82	-67.21	71.82	98.36	316.90	0.72
	6136.16	0.79	199.53	6134.67	70.80	-69.01	70.80	98.87	315.73	1.75
	6231.25	0.88	159.31	6229.75	69.50	-68.97	69.50	97.92	315.22	0.61
	6326.34	1.20	136.60	6324.83	68.09	-68.03	68.09	96.25	315.03	0.54
	6421.43	1.20	123.74	6419.90	66.82	-66.52	66.82	94.28	315.13	0.28
	6516.52	1.47	119.10	6514.96	65.67	-64.63	65.67	92.14	315.46	0.31
	6611.61	1.94	119.51	6610.01	64.29	-62.16	64.29	89.43	315.96	0.49
	6706.70	1.86	119.02	6705.05	62.75	-59.42	62.75	86.42	316.56	0.09
	6801.79	1.87	115.54	6800.09	61.33	-56.67	61.33	83.51	317.26	0.12
	6896.88	1.82	112.48	6895.13	60.08	-53.87	60.08	80.70	318.12	0.11
	6991.97	1.52	111.72	6990.18	59.04	-51.30	59.04	78.22	319.01	0.32
	7023.02	1.39	106.06	7021.22	58.78	-50.56	58.78	77.53	319.30	0.62



Vaughn Energy Services
Gardendale, Texas
432-563-5444
Surveyor: Ray Seago
Agate PWU 21 3H / API 30-015-39374



VES Survey Date: 02/21/2012



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Agate PWU 21 #3H
Well: Agate PWU 21 #3H
Wellpath: 1

Date: 3/6/2012 Time: 09:08:04 Page: 3
Co-ordinate(NE) Reference: Well: Agate PWU 21 #3H, Grid North
Vertical (TVD) Reference: SITE 3336.0
Section (VS) Reference: Well (0.00N,0.00E,89.99Azi)
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
10166.00	86.68	90.75	7895.03	4.11	2590.39	2.20	2590.39	598459.36	619649.33	
10262.00	86.61	90.70	7900.65	2.90	2686.22	0.09	2686.22	598458.15	619745.16	
10358.00	91.01	90.21	7902.64	2.13	2782.17	4.61	2782.17	598457.38	619841.11	
10454.00	91.78	89.66	7900.30	2.24	2878.14	0.99	2878.14	598457.49	619937.08	
10550.00	91.01	89.86	7897.96	2.65	2974.11	0.83	2974.11	598457.90	620033.05	
10645.00	91.37	89.90	7895.99	2.84	3069.09	0.38	3069.09	598458.09	620128.03	
10741.00	87.87	89.64	7896.63	3.23	3165.07	3.66	3165.07	598458.48	620224.01	
10837.00	85.41	90.65	7902.25	2.99	3260.90	2.77	3260.90	598458.24	620319.84	
10933.00	89.55	90.13	7906.47	2.34	3356.78	4.35	3356.78	598457.59	620415.72	
11029.00	90.87	90.46	7906.12	1.84	3452.78	1.42	3452.78	598457.09	620511.72	
11125.00	90.03	91.13	7905.37	0.51	3548.77	1.12	3548.77	598455.76	620607.71	
11221.00	90.17	90.55	7905.20	-0.90	3644.75	0.62	3644.75	598454.35	620703.69	
11317.00	91.22	90.81	7904.04	-2.04	3740.74	1.13	3740.74	598453.21	620799.68	
11412.00	90.17	90.68	7902.88	-3.27	3835.72	1.11	3835.72	598451.98	620894.66	
11476.00	89.69	90.40	7902.96	-3.88	3899.72	0.87	3899.72	598451.37	620958.66	
11508.00	90.45	90.37	7902.92	-4.09	3931.72	2.38	3931.72	598451.16	620990.66	
11604.00	91.57	90.72	7901.23	-5.00	4027.70	1.22	4027.70	598450.25	621086.64	
11700.00	90.59	90.95	7899.42	-6.40	4123.67	1.05	4123.67	598448.85	621182.61	
11732.00	89.69	91.09	7899.34	-6.97	4155.66	2.85	4155.66	598448.28	621214.60	
11795.00	90.52	91.26	7899.23	-8.26	4218.65	1.34	4218.65	598446.99	621277.59	
11860.00	89.69	90.75	7899.11	-9.40	4283.64	1.50	4283.64	598445.85	621342.58	
11892.00	90.17	90.71	7899.15	-9.81	4315.64	1.51	4315.63	598445.44	621374.58	
11987.00	91.61	90.43	7897.67	-10.76	4410.62	1.54	4410.62	598444.49	621469.56	
12083.00	93.04	90.58	7893.78	-11.60	4506.53	1.50	4506.53	598443.65	621565.47	
12104.00	93.32	90.56	7892.61	-11.81	4527.50	1.34	4527.50	598443.44	621586.44	Last Wft Svy
12193.00	93.32	90.56	7887.46	-12.68	4616.35	0.00	4616.34	598442.57	621675.29	Proj To Bit

Annotation

MD ft	TVD ft	
7023.02	7021.22	Tie On VES
7070.00	7068.18	First Wft Svy
12104.00	7892.61	Last Wft Svy
12193.00	7887.46	Proj To Bit