

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: September 23, 2011

30-015-38534

Attention: Mark Cooper

Re: Devon Energy
Well: Cotton Draw Unit #136H
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>
Justin Ward MWD Supervisor	136H	8456' MD 16461' MD	9/3/2011 9/22/2011	Measurement While Drilling

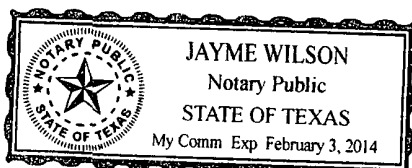
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 23rd day of September, 2011, 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

Cotton Draw Unit #136H
Eddy Co., NM



KB ELEV: 3446
GL ELEV: 3421

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	8404.00	0.64	106.05	8402.32	-25.56	107.51	0.00	0.00	-25.95	
2	8500.00	0.64	106.05	8498.32	-25.86	108.54	0.00	0.00	-26.25	
3	9428.36	90.00	358.94	9090.00	563.93	103.94	9.71	-107.11	563.55	
4	16553.82	90.00	358.94	9090.00	7688.17	-27.96	0.00	0.00	7688.22	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
CDU #136H	0.00	0.00	419794.97	721278.16	32°09'09.924N	103°45'06.841W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Pbhl	9090.00	7688.17	-27.96	427483.14	721250.20	32°10'26.005N	103°45'06.683W	Point
HeelTgt	9090.00	599.84	1.70	420394.81	721279.86	32°09'15.860N	103°45'06.783W	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010

System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Cotton Draw Unit #136H

Site Centre Northing: 419794.97
Easting: 721278.16

Ground Level: 3421.00
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND

	CDU #136H, 1 Gyro
	CDU #136H, 1 Plan #3
	Cotton Draw #134H (1)
	CDU #135H (1)
	CDU #137H (1)
	CDU #152H (1)
	#160H (1)
	Wft Svy



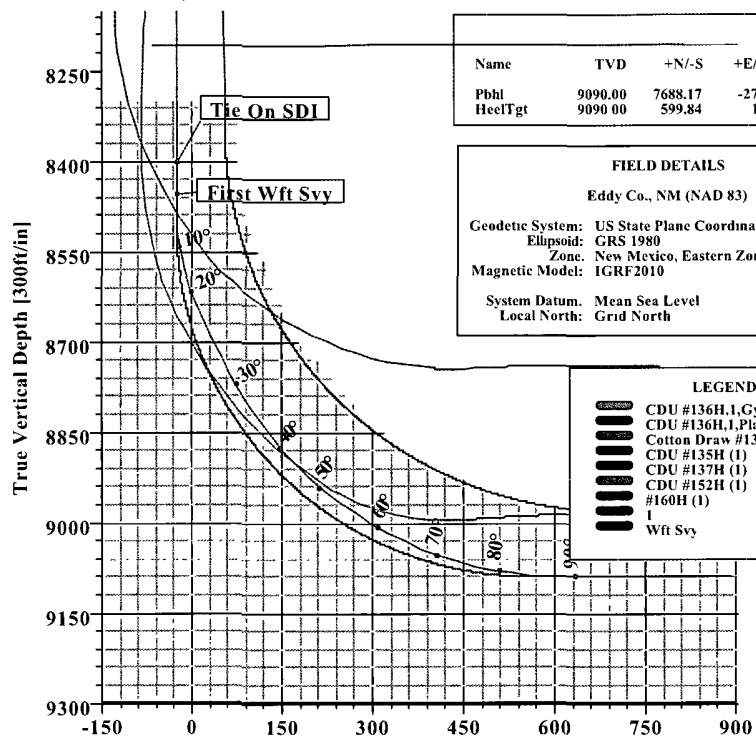
Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.33°

Magnetic Field
Strength: 48558nT
Dip Angle: 60.08°
Date: 8/30/2011
Model: IGRF2010

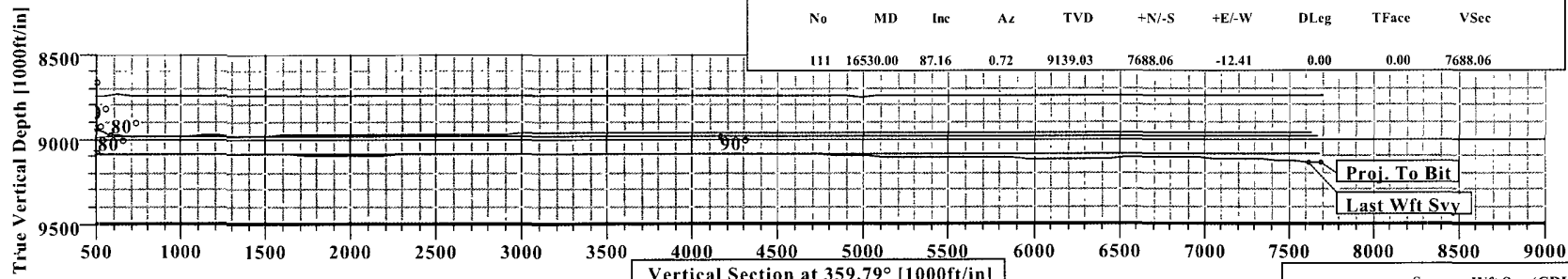
Total Correction to Grid North: 7.33°



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Vertical Section at 359.79° [300ft/in]

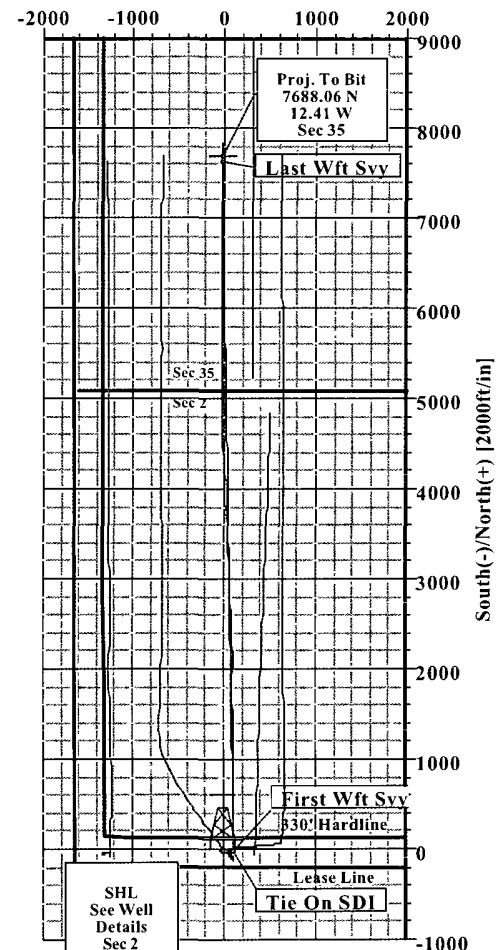


Vertical Section at 359.79° [1000ft/in]

Survey: Wft Svy (CDU #136H/1)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
111	16530.00	87.16	0.72	9139.03	7688.06	-12.41	0.00	0.00	7688.06

West(-)/East(+) [2000ft/in]



Survey: Wft Svy (CDU #136H/1)

Created By: Russell W. Joyner

Date: 9/20/2011



Weatherford International Ltd.

WFT Survey Report X & Y's



Company: Devon Energy Date: 9/20/2011 Time: 05:34:42 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: CDU #136H, Grid North
Site: Cotton Draw Unit #136H Vertical (TVD) Reference: SITE 3446.0
Well: CDU #136H Section (VS) Reference: Well (0.00N,0.00E,359.79Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 9/6/2011
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: Cotton Draw Unit #136H

Site Position: Northing: 419794.97 ft Latitude: 32 9 9 924 N
From: Map Easting: 721278.16 ft Longitude: 103 45 6 841 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3421.00 ft Grid Convergence: 0.31 deg

Well: CDU #136H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 419794.97 ft Latitude: 32 9 9 924 N
+E/-W 0.00 ft Easting: 721278.16 ft Longitude: 103 45 6 841 W
Position Uncertainty: 0.00 ft

Wellpath: 1
Current Datum: SITE Height 3446.00 ft
Magnetic Data: 8/30/2011
Field Strength: 48558 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 359.79
Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.64 deg
Mag Dip Angle: 60.08 deg
+E/-W Direction
ft deg

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
8404.00	0.64	106.05	8402.32	-25.56	107.51	0.00	-25.95	419769.41	721385.67	Tie On SDI First Wft Svy
8456.00	0.50	92.69	8454.32	-25.65	108.02	0.37	-26.04	419769.32	721386.18	
8488.00	0.95	57.35	8486.32	-25.51	108.38	1.92	-25.91	419769.46	721386.54	
8519.00	5.48	11.32	8517.26	-23.92	108.89	15.70	-24.32	419771.05	721387.05	
8551.00	11.32	4.89	8548.91	-19.29	109.45	18.46	-19.69	419775.68	721387.61	
8583.00	16.06	3.72	8579.99	-11.74	110.01	14.84	-12.14	419783.23	721388.17	
8614.00	19.25	2.73	8609.53	-2.36	110.53	10.34	-2.76	419792.61	721388.69	
8646.00	22.47	0.39	8639.43	9.03	110.82	10.39	8.63	419804.00	721388.98	
8677.00	25.40	357.56	8667.76	21.60	110.58	10.15	21.20	419816.57	721388.74	
8709.00	26.60	356.17	8696.52	35.61	109.81	4.21	35.21	419830.58	721387.97	
8740.00	26.82	357.10	8724.21	49.52	108.99	1.52	49.12	419844.49	721387.15	
8772.00	28.23	356.85	8752.59	64.28	108.21	4.42	63.89	419859.25	721386.37	
8803.00	31.00	357.40	8779.54	79.58	107.45	8.98	79.19	419874.55	721385.61	
8835.00	33.70	359.86	8806.57	96.70	107.05	9.39	96.31	419891.67	721385.21	
8867.00	35.61	1.86	8832.89	114.89	107.33	6.95	114.50	419909.86	721385.49	
8898.00	37.45	1.42	8857.80	133.33	107.86	6.00	132.94	419928.30	721386.02	
8930.00	40.96	0.43	8882.59	153.55	108.18	11.14	153.16	419948.52	721386.34	
8961.00	44.48	0.55	8905.36	174.58	108.36	11.36	174.18	419969.55	721386.52	
8992.00	47.89	0.52	8926.82	196.94	108.57	11.00	196.55	419991.91	721386.73	
9024.00	51.06	359.89	8947.61	221.26	108.65	10.02	220.87	420016.23	721386.81	
9055.00	53.69	359.41	8966.54	245.81	108.50	8.57	245.42	420040.78	721386.66	
9086.00	56.08	0.20	8984.37	271.17	108.42	7.99	270.77	420066.14	721386.58	
9118.00	58.63	1.32	9001.63	298.11	108.78	8.50	297.71	420093.08	721386.94	
9149.00	61.54	2.69	9017.09	324.96	109.72	10.14	324.56	420119.93	721387.88	

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #136H
Well: CDU #136H
Wellpath: 1

Date: 9/20/2011 Time: 05:34:42 Page: 2
Co-ordinate(NE) Reference: Well: CDU #136H, Grid North
Vertical (TVD) Reference: SITE 3446.0
Section (VS) Reference: Well (0 00N,0 00E,359.79Azi)
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
9180.00	64.20	3.03	9031.22	352.51	111.10	8.64	352.10	420147.48	721389.26	
9211.00	67.19	1.60	9043.98	380.74	112.24	10.52	380.32	420175.71	721390.40	
9243.00	70.49	0.44	9055.53	410.57	112.76	10.85	410.16	420205.54	721390.92	
9274.00	73.94	0.01	9065.00	440.08	112.88	11.21	439.67	420235.05	721391.04	
9305.00	77.28	359.60	9072.70	470.11	112.78	10.85	469.69	420265.08	721390.94	
9336.00	79.47	359.49	9078.95	500.47	112.53	7.07	500.05	420295.44	721390.69	
9368.00	81.47	359.50	9084.25	532.02	112.26	6.25	531.61	420326.99	721390.42	
9399.00	84.78	359.97	9087.96	562.79	112.11	10.78	562.38	420357.76	721390.27	
9430.00	89.41	359.68	9089.53	593.75	112.02	14.96	593.33	420388.72	721390.18	
9493.00	90.31	358.49	9089.68	656.74	111.01	2.37	656.33	420451.71	721389.17	
9542.00	90.31	358.24	9089.42	705.72	109.62	0.51	705.31	420500.69	721387.78	
9636.00	90.03	358.49	9089.14	799.68	106.93	0.40	799.28	420594.65	721385.09	
9730.00	89.76	358.88	9089.31	893.65	104.78	0.50	893.26	420688.62	721382.94	
9823.00	89.83	359.60	9089.64	986.64	103.54	0.78	986.26	420781.61	721381.70	
9918.00	89.48	0.32	9090.21	1081.64	103.48	0.84	1081.26	420876.61	721381.64	
10012.00	89.20	0.26	9091.30	1175.63	103.95	0.30	1175.25	420970.60	721382.11	
10106.00	90.87	359.92	9091.24	1269.63	104.10	1.81	1269.24	421064.60	721382.26	
10200.00	91.02	359.98	9089.69	1363.62	104.02	0.17	1363.23	421158.59	721382.18	
10293.00	90.31	357.63	9088.61	1456.58	102.08	2.64	1456.20	421251.55	721380.24	
10387.00	88.22	356.82	9089.82	1550.46	97.53	2.38	1550.09	421345.43	721375.69	
10481.00	88.42	357.98	9092.57	1644.32	93.27	1.25	1643.97	421439.29	721371.43	
10575.00	88.78	359.72	9094.87	1738.27	91.38	1.89	1737.92	421533.24	721369.54	
10669.00	88.78	0.55	9096.87	1832.25	91.60	0.88	1831.90	421627.22	721369.76	
10762.00	88.78	0.92	9098.85	1925.22	92.79	0.40	1924.87	421720.19	721370.95	
10833.00	89.96	2.40	9099.63	1996.18	94.85	2.67	1995.82	421791.15	721373.01	
10927.00	91.99	359.74	9098.03	2090.14	96.61	3.56	2089.77	421885.11	721374.77	
11021.00	92.06	357.00	9094.71	2184.03	93.93	2.91	2183.67	421979.00	721372.09	
11115.00	92.84	356.86	9090.69	2277.81	88.90	0.84	2277.47	422072.78	721367.06	
11209.00	90.60	357.40	9087.87	2371.64	84.20	2.45	2371.32	422166.61	721362.36	
11303.00	89.05	357.61	9088.16	2465.55	80.11	1.66	2465.24	422260.52	721358.27	
11396.00	89.41	357.75	9089.41	2558.47	76.34	0.42	2558.17	422353.44	721354.50	
11491.00	90.11	358.65	9089.80	2653.42	73.36	1.20	2653.13	422448.39	721351.52	
11585.00	90.24	358.88	9089.52	2747.39	71.33	0.28	2747.12	422542.36	721349.49	
11679.00	90.38	359.49	9089.01	2841.38	70.00	0.67	2841.11	422636.35	721348.16	
11773.00	90.73	0.03	9088.10	2935.38	69.60	0.68	2935.10	422730.35	721347.76	
11867.00	90.80	357.29	9086.84	3029.33	67.41	2.92	3029.07	422824.30	721345.57	
11961.00	90.45	355.73	9085.82	3123.15	61.68	1.70	3122.91	422918.12	721339.84	
12055.00	88.64	355.65	9086.56	3216.88	54.62	1.93	3216.66	423011.85	721332.78	
12149.00	88.57	356.26	9088.85	3310.62	47.99	0.65	3310.42	423105.59	721326.15	
12243.00	88.85	356.74	9090.97	3404.42	42.25	0.59	3404.24	423199.39	721320.41	
12337.00	90.52	357.86	9091.48	3498.31	37.83	2.14	3498.14	423293.28	721315.99	
12360.00	90.73	357.49	9091.23	3521.29	36.89	1.85	3521.13	423316.26	721315.05	
12454.00	91.08	357.68	9089.75	3615.19	32.93	0.42	3615.05	423410.16	721311.09	
12548.00	91.57	357.41	9087.58	3709.08	28.91	0.60	3708.95	423504.05	721307.07	
12642.00	89.48	357.45	9086.71	3802.97	24.69	2.22	3802.86	423597.94	721302.85	
12736.00	90.17	357.68	9087.00	3896.89	20.70	0.77	3896.79	423691.86	721298.86	
12830.00	88.36	357.30	9088.21	3990.79	16.58	1.97	3990.70	423785.76	721294.74	
12924.00	88.84	356.98	9090.50	4084.64	11.90	0.61	4084.57	423879.61	721290.06	
13018.00	89.06	356.55	9092.23	4178.48	6.59	0.51	4178.42	423973.45	721284.75	
13112.00	90.04	356.20	9092.96	4272.28	0.65	1.11	4272.25	424067.25	721278.81	
13206.00	91.08	356.08	9092.05	4366.06	-5.68	1.11	4366.06	424161.03	721272.48	
13299.00	92.20	357.27	9089.38	4458.87	-11.07	1.76	4458.88	424253.84	721267.09	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #136H
Well: CDU #136H
Wellpath: 1

Date: 9/20/2011 **Time:** 05:34:42 **Page:** 3
Co-ordinate(NE) Reference: Well: CDU #136H; Grid North
Vertical (TVD) Reference: SITE 3446.0
Section (VS) Reference: Well (0.00N,0.00E,359.79Azi)
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
13393.00	90.31	357.06	9087.33	4552.72	-15.72	2.02	4552.75	424347.69	721262.44	
13487.00	87.80	357.58	9088.88	4646.60	-20.11	2.73	4646.64	424441.57	721258.05	
13581.00	87.73	358.25	9092.54	4740.47	-23.53	0.72	4740.52	424535.44	721254.63	
13675.00	87.66	357.90	9096.32	4834.34	-26.69	0.38	4834.40	424629.31	721251.47	
13769.00	87.72	359.96	9100.11	4928.24	-28.44	2.19	4928.31	424723.21	721249.72	
13863.00	87.72	0.28	9103.85	5022.16	-28.24	0.34	5022.23	424817.13	721249.92	
13957.00	87.94	0.44	9107.41	5116.10	-27.65	0.29	5116.16	424911.07	721250.51	
14050.00	88.22	0.92	9110.53	5209.04	-26.55	0.60	5209.10	425004.01	721251.61	
14144.00	89.27	0.71	9112.58	5303.00	-25.21	1.14	5303.06	425097.97	721252.95	
14238.00	89.55	1.18	9113.55	5396.98	-23.66	0.58	5397.04	425191.95	721254.50	
14333.00	89.90	1.15	9114.01	5491.96	-21.73	0.37	5492.01	425286.93	721256.43	
14427.00	89.82	1.41	9114.24	5585.94	-19.63	0.29	5585.97	425380.91	721258.53	
14521.00	90.03	1.41	9114.36	5679.91	-17.32	0.22	5679.94	425474.88	721260.84	
14615.00	90.46	1.94	9113.96	5773.87	-14.57	0.73	5773.88	425568.84	721263.59	
14709.00	89.83	0.50	9113.72	5867.85	-12.57	1.67	5867.85	425662.82	721265.59	
14803.00	88.50	359.59	9115.09	5961.83	-12.49	1.71	5961.84	425756.80	721265.67	
14897.00	88.85	359.83	9117.26	6055.81	-12.97	0.45	6055.81	425850.78	721265.19	
14991.00	88.99	0.12	9119.04	6149.79	-13.01	0.34	6149.80	425944.76	721265.15	
15085.00	90.73	359.99	9119.27	6243.78	-12.92	1.86	6243.79	426038.75	721265.24	
15179.00	91.57	0.06	9117.38	6337.77	-12.88	0.90	6337.77	426132.74	721265.28	
15273.00	91.43	359.28	9114.92	6431.73	-13.42	0.84	6431.74	426226.70	721264.74	
15367.00	91.36	0.54	9112.63	6525.70	-13.57	1.34	6525.71	426320.67	721264.59	
15437.00	91.64	0.05	9110.80	6595.68	-13.21	0.81	6595.68	426390.65	721264.95	
15531.00	89.96	359.18	9109.49	6689.66	-13.84	2.01	6689.67	426484.63	721264.32	
15625.00	89.55	359.43	9109.89	6783.65	-14.98	0.51	6783.66	426578.62	721263.18	
15719.00	89.76	359.77	9110.45	6877.65	-15.64	0.43	6877.66	426672.62	721262.52	
15813.00	88.36	359.52	9112.00	6971.63	-16.22	1.51	6971.64	426766.60	721261.94	
15907.00	88.28	359.65	9114.75	7065.59	-16.90	0.16	7065.60	426860.56	721261.26	
16001.00	88.50	359.90	9117.39	7159.55	-17.27	0.35	7159.57	426954.52	721260.89	
16095.00	88.15	0.16	9120.14	7253.51	-17.22	0.46	7253.52	427048.48	721260.94	
16190.00	87.73	0.37	9123.56	7348.45	-16.78	0.49	7348.46	427143.42	721261.38	
16284.00	87.45	0.88	9127.51	7442.36	-15.76	0.62	7442.37	427237.33	721262.40	
16378.00	87.44	0.80	9131.70	7536.25	-14.38	0.09	7536.26	427331.22	721263.78	
16461.00	87.16	0.72	9135.61	7619.15	-13.28	0.35	7619.15	427414.12	721264.88	Last Wft Svy
16530.00	87.16	0.72	9139.03	7688.06	-12.41	0.00	7688.06	427483.03	721265.75	Proj To Bit

Annotation

MD ft	TVD ft	
8404.00	8402.32	Tie On SDI
8456.00	8454.32	First Wft Svy
16461.00	9135.61	Last Wft Svy
16530.00	9139.03	Proj To Bit