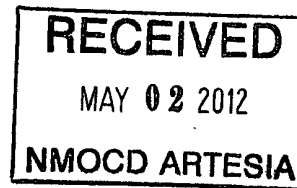


30-015-38556



DEVON ENERGY

Paduca
Eddy County, NM
Cotton Draw Unit #137H
VH - Job #32K1011943

Survey: Actual

SDI Standard Survey Report

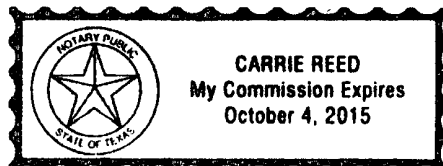
This survey is correct to the best of my knowledge and is supported by actual field data.

Robert

Notarized this date 5th of November, 2011.

Carrie Reed

Notary Signature
County of Midland
State of Texas



Scientific Drilling International, Inc.
SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #137H
Project:	Paduca	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Cotton Draw Unit #137H	North Reference:	Grid
Wellbore:	VH - Job #32K1011943	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011943	Database:	EDM-Regulatory

Project		Paduca	
Map System:	US State Plane 1983	System Datum:	Mean Sea Level
Geo Datum:	North American Datum 1983		
Map Zone:	New Mexico Eastern Zone		

Site		Eddy County, NM			
Site Position:		Northing:	419,864 24 usft	Latitude:	32° 9' 10 800 N
From:	Lat/Long	Easting:	717,841 09 usft	Longitude:	103° 45' 46 800 W
Position Uncertainty:	0 0 usft	Slot Radius:	13-3/16"	Grid Convergence:	0 30 °

Well	Cotton Draw Unit #137H, Directional (Weatherford)					
Well Position	+N/-S	0 0 usft	Northing:	419,794 67 usft	Latitude:	32° 9' 9 927 N
	+E/-W	0 0 usft	Easting:	721,328 10 usft	Longitude:	103° 45' 6 243 W
Position Uncertainty		0 0 usft	Wellhead Elevation:	usft	Ground Level:	0 0 usft

Wellbore	VH - Job #32K1011943				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	10/1/2011	7 63	60 08	48,549

Design	VH - Job #32K1011943				
Audit Notes:					
Version:	1 0	Phase:	ACTUAL	Tie On Depth:	0 0
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction	
	(usft)	(usft)	(usft)	(°)	
	0 0	0 0	0 0	4 30	

Survey Program		Date: 11/14/2011		
From (usft)	To (usft)	Survey (Wellbore)	Tool Name	Description
100 0	4,215 0	Actual (VH - Job #32K1011943)	Keeper	Keeper Gyro

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
0 0	0 00	0 00	0 0	0 0	0 0	0 00	0 0
100 0	0 67	56 64	100 0	0 3	0 5	56 64	0 6
200 0	0 60	58 65	200 0	0 9	1 4	57 26	1 7
300 0	1 13	48 29	300 0	1 8	2 6	54 73	3 2
400 0	1 30	35 73	400 0	3 4	4 0	49 50	5 3
500 0	1 74	5 73	499 9	5 9	4 8	39 47	7 6
600 0	1 94	359 19	599 9	9 1	4 9	28 65	10 3
700 0	2 15	357 20	699 8	12 6	4 8	20 95	13 5
800 0	1 80	358 67	799 7	16 1	4 7	16 32	16 7
900 0	1 08	355 43	899 7	18 6	4 6	13 89	19 1
1,000 0	0 63	354 81	999 7	20 1	4 5	12 55	20 6
1,100 0	0 62	6 29	1,099 7	21 1	4 5	11 95	21 6

Scientific Drilling International, Inc.

SDI Standard Survey Report



Company:	DEVON ENERGY	Local Co-ordinate Reference:	Well Cotton Draw Unit #137H
Project:	Paduca	TVD Reference:	WELL @ 0 0usft (Original Well Elev)
Site:	Eddy County, NM	MD Reference:	WELL @ 0 0usft (Original Well Elev)
Well:	Cotton Draw Unit #137H	North Reference:	Grid
Wellbore:	VH - Job #32K1011943	Survey Calculation Method:	Minimum Curvature
Design:	VH - Job #32K1011943	Database:	EDM-Regulatory

Survey							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	True Vertical Depth	North/South (usft)	East/West (usft)	Closure Azimuth (°)	Closure Distance (usft)
1,200 0	0 91	29 22	1,199 7	22 4	4 9	12 41	22 9
1,300 0	1 11	34 24	1,299 7	23 9	5 9	13 78	24 6
1,400 0	1 26	43 99	1,399 7	25 5	7 2	15 72	26 5
1,500 0	1 39	45 75	1,499 6	27 1	8 8	17 98	28 5
1,600 0	1 39	43 61	1,599 6	28 8	10 5	20 02	30 7
1,700 0	1 74	43 89	1,699 6	30 8	12 4	21 92	33 2
1,800 0	2 02	54 71	1,799 5	32 9	14 9	24 33	36 1
1,900 0	2 12	60 51	1,899 4	34 8	17 9	27 24	39 2
2,000 0	1 77	64 46	1,999 4	36 4	20 9	29 89	42 0
2,100 0	1 68	64 14	2,099 3	37 7	23 6	32 08	44 5
2,200 0	1 42	70 47	2,199 3	38 8	26 1	33 98	46 8
2,300 0	1 37	71 48	2,299 3	39 6	28 4	35 70	48 7
2,400 0	1 31	82 77	2,399 2	40 1	30 7	37 45	50 5
2,500 0	0 96	89 21	2,499 2	40 2	32 7	39 07	51 8
2,600 0	0 72	89 83	2,599 2	40 3	34 1	40 30	52 8
2,700 0	0 36	79 89	2,699 2	40 3	35 1	41 03	53 4
2,800 0	0 38	72 97	2,799 2	40 5	35 7	41 42	54 0
2,900 0	0 23	219 10	2,899 2	40 4	35 9	41 61	54 1
3,000 0	0 66	207 29	2,999 2	39 7	35 5	41 78	53 3
3,100 0	0 55	247 36	3,099 2	39 0	34 8	41 71	52 3
3,200 0	0 81	55 52	3,199 2	39 3	34 9	41 66	52 6
3,300 0	0 82	32 33	3,299 2	40 3	35 9	41 72	53 9
3,400 0	0 92	17 96	3,399 2	41 6	36 5	41 27	55 4
3,500 0	0 75	4 66	3,499 2	43 1	36 8	40 55	56 7
3,600 0	0 74	13 01	3,599 2	44 3	37 0	39 87	57 8
3,700 0	1 75	87 05	3,699 1	45 0	38 7	40 67	59 4
3,800 0	1 56	79 60	3,799 1	45 4	41 6	42 50	61 5
3,900 0	1 95	103 72	3,899 0	45 2	44 6	44 59	63 5
4,000 0	3 13	136 17	3,999 0	42 8	48 1	48 32	64 4
4,100 0	2 50	139 62	4,098 8	39 2	51 4	52 67	64 6
4,200 0	1 70	139 96	4,198 8	36 4	53 8	55 90	64 9
4,215 0	1 38	153 23	4,213 8	36 1	54 0	56 25	64 9



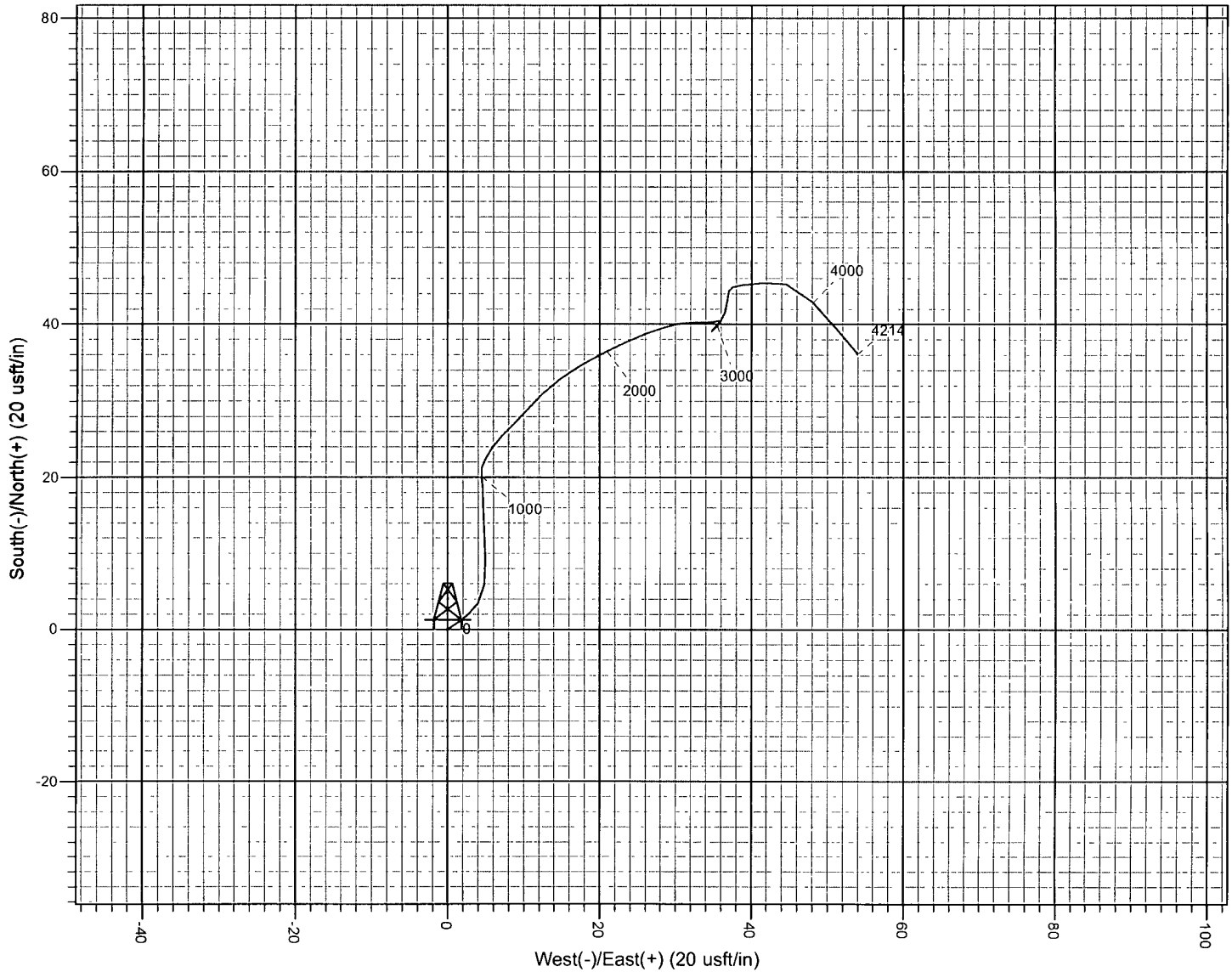
Project: Paduca
 Eddy County, NM
 Well: Cotton Draw Unit #137H
 Wellbore: VH - Job #32K1011943
 Design: VH - Job #32K1011943



Azimuths to Grid North
 True North -0 31°
 Magnetic North. 7 32°
 Magnetic Field
 Strength 48549 5snT
 Dip Angle 60 08°
 Date 10/1/2011
 Model IGRF2010

WELL DETAILS: Cotton Draw Unit #137H
 WELL @ 0.0usft (Original Well Elev)
 Ground Level: 0.0

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.0	0.0	419794.67	721328.10	32° 9' 9.927 N	103° 45' 6.243 W	



PROJECT DETAILS: Paduca
 Geodetic System: US State Plane 1983
 Datum: North American Datum 1983
 Ellipsoid: GRS 1980
 Zone: New Mexico Eastern Zone
 System Datum: Mean Sea Level

SITE DETAILS: Eddy County, NM
 Site Centre Latitude: 32° 9' 10.800 N
 Longitude: 103° 45' 46 800 W
 Positional Uncertainty: 0.0
 Convergence: 0.30
 Local North: Grid



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: October 21, 2011

Attention: Mark Cooper

Re: Devon Energy
Well: Cotton Draw Unit #137H
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:

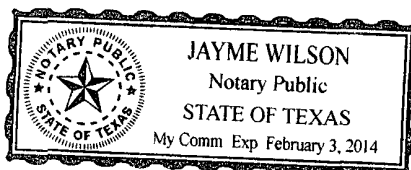
<u>Name & Title Of Surveyor</u>	<u>Well Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Justin Ward	137H	4353' MD	10/1/2011	Measurement
MWD Supervisor		16221' MD	10/20/2011	While Drilling

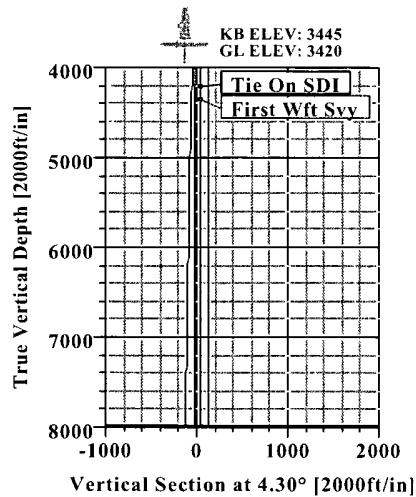
A notarized plan vs. actual is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Jesse Aguilar
Area Manager

On this, the 25th day of October, 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



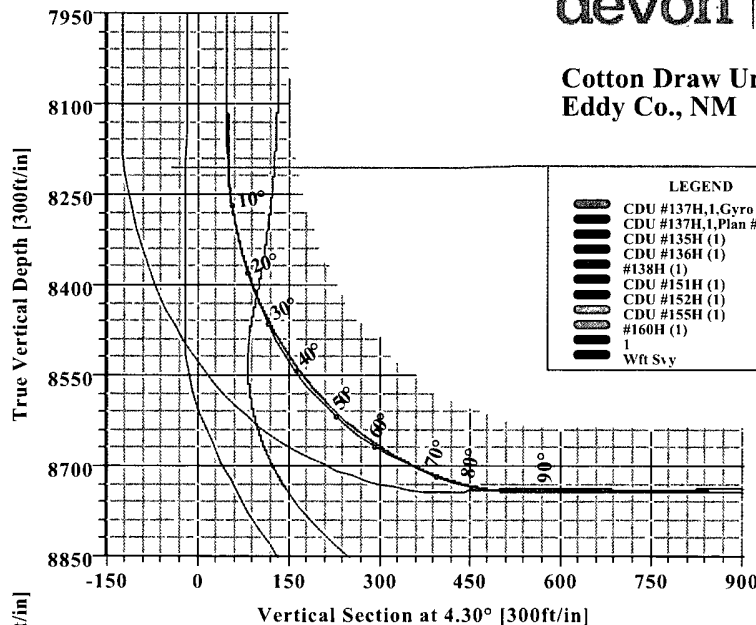
SECTION DETAILS											
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target	
1	8090.00	0.46	97.23	8088.55	43.98	85.24	0.00	0.00	50.25		
2	8175.48	0.46	97.23	8174.03	43.89	85.92	0.00	0.00	50.21		
3	9073.51	90.00	32.55	8745.00	524.62	397.69	10.00	295.32	552.96		
4	9724.44	90.00	0.00	8745.00	1141.10	577.68	5.00	-90.00	1181.20		
5	16271.52	90.00	0.00	8745.00	7688.17	578.08	0.00	0.00	7709.87	Pbhl	

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
CDU #137H	0.00	0.00	419794.65	721328.13	32°09'09.919N	103°45'06.260W	N/A

TARGET DETAILS							
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Pbhl	8745.00	7688.17	578.08	427482.82	721906.21	32°10'25.967N	103°44'59.050W
							Point

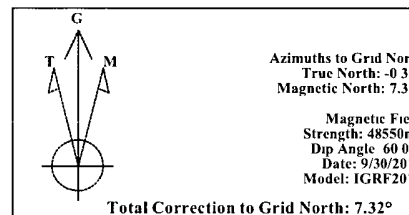
devon

Cotton Draw Unit #137H
Eddy Co., NM

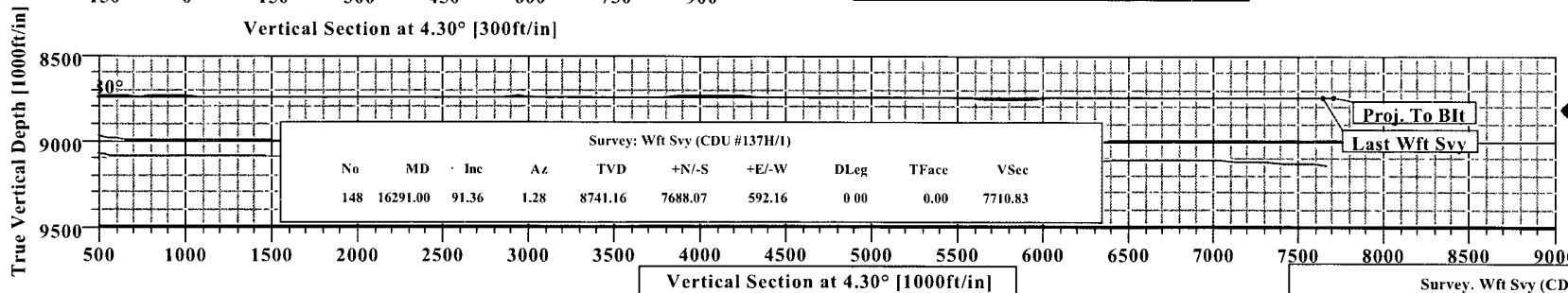


LEGEND	
	CDU #137H.1.Gyro
	CDU #137H.1.Plan #4
	CDU #135H (1)
	CDU #136H (1)
	#138H (1)
	CDU #151H (1)
	CDU #152H (1)
	CDU #155H (1)
	#160H (1)
	1
	Wft Svy

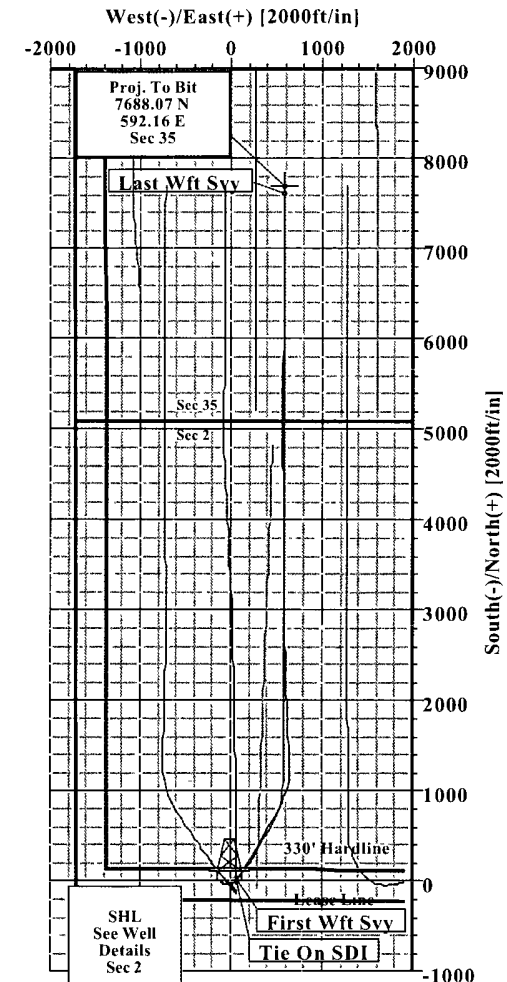
SITE DETAILS	
Cotton Draw Unit #137H	
Site Centre Northing	419794.65
Easting	721328.13
Ground Level	3420.00
Positional Uncertainty	0.00
Convergence	0.31



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



Survey: Wft Svy (CDU #137H/1)									
No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
148	16291.00	91.36	1.28	8741.16	7688.07	592.16	0.00	0.00	7710.83



Weatherford

Created By: Russell W. Joyner Date: 10/20/2011



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy Date: 10/20/2011 Time: 05:32:49 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: CDU #137H, Grnd North
Site: Cotton Draw Unit #137H Vertical (TVD) Reference: SITE 3445.0
Well: CDU #137H Section (VS) Reference: Well (0.00N,0.00E,4.30Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: Wft Svy Start Date: 10/3/2011
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 #137H

Site Position: Northing: 419794.65 ft Latitude: 32 9 9.919 N
From: Map Easting: 721328.13 ft Longitude: 103 45 6.260 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3420.00 ft Grid Convergence: 0.31 deg

Well: CDU #137H Slot Name:
Well Position: +N/-S 0.00 ft Northing: 419794.65 ft Latitude: 32 9 9.919 N
+E/-W 0.00 ft Easting: 721328.13 ft Longitude: 103 45 6.260 W
Position Uncertainty: 0.00 ft

Wellpath: 1
Current Datum: SITE Height 3445.00 ft
Magnetic Data: 9/30/2011
Field Strength: 48550 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 4.30

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
4215.00	1.38	153.23	4213.76	36.08	53.98	0.00	40.03	419830.73	721382.11	Tie On SDI First Wft Svy
4353.00	0.60	116.29	4351.74	34.28	55.38	0.70	38.33	419828.93	721383.51	
4448.00	0.61	120.03	4446.73	33.80	56.26	0.04	37.93	419828.45	721384.39	
4542.00	0.52	115.67	4540.73	33.37	57.08	0.11	37.55	419828.02	721385.21	
4637.00	0.64	102.54	4635.72	33.07	57.98	0.19	37.32	419827.72	721386.11	
4732.00	0.58	97.13	4730.72	32.89	58.98	0.09	37.22	419827.54	721387.11	
4826.00	0.74	92.09	4824.71	32.81	60.06	0.18	37.22	419827.46	721388.19	
4921.00	0.77	84.12	4919.70	32.85	61.31	0.11	37.36	419827.50	721389.44	
5016.00	0.69	71.61	5014.70	33.10	62.48	0.19	37.69	419827.75	721390.61	
5110.00	0.69	78.71	5108.69	33.39	63.58	0.09	38.06	419828.04	721391.71	
5205.00	0.89	71.42	5203.68	33.74	64.84	0.24	38.50	419828.39	721392.97	
5299.00	0.71	63.77	5297.67	34.23	66.05	0.22	39.08	419828.88	721394.18	
5394.00	0.74	74.38	5392.66	34.65	67.17	0.14	39.59	419829.30	721395.30	
5490.00	0.74	61.35	5488.66	35.11	68.31	0.17	40.14	419829.76	721396.44	
5584.00	0.71	67.08	5582.65	35.63	69.38	0.08	40.73	419830.28	721397.51	
5679.00	0.80	58.41	5677.64	36.21	70.49	0.15	41.39	419830.86	721398.62	
5774.00	0.88	74.60	5772.63	36.75	71.75	0.26	42.03	419831.40	721399.88	
5869.00	0.86	66.88	5867.62	37.22	73.11	0.13	42.60	419831.87	721401.24	
5963.00	0.55	96.98	5961.61	37.45	74.21	0.50	42.90	419832.10	721402.34	
6058.00	0.60	67.29	6056.61	37.58	75.12	0.31	43.11	419832.23	721403.25	
6152.00	0.55	58.44	6150.60	38.01	75.96	0.11	43.60	419832.66	721404.09	
6247.00	0.58	77.40	6245.60	38.35	76.82	0.20	44.00	419833.00	721404.95	
6341.00	0.47	71.24	6339.59	38.58	77.65	0.13	44.29	419833.23	721405.78	
6436.00	0.40	68.36	6434.59	38.83	78.32	0.08	44.59	419833.48	721406.45	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #137H
Well: CDU #137H
Wellpath: 1

Date: 10/20/2011
Co-ordinate(NE) Reference: Well: CDU #137H, Grid North
Vertical (TVD) Reference: SITE 3445.0
Section (VS) Reference: Well (0.00N,0.00E,4.30Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Time: 05:32:49
Page: 2

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
6530.00	0.25	113.70	6528.59	38.87	78.82	0.30	44.67	419833.52	721406.95	
6625.00	0.25	128.26	6623.59	38.65	79.17	0.07	44.48	419833.30	721407.30	
6720.00	0.33	98.41	6718.59	38.49	79.60	0.18	44.35	419833.14	721407.73	
6815.00	0.20	34.08	6813.59	38.58	79.97	0.32	44.47	419833.23	721408.10	
6910.00	0.15	2.54	6908.59	38.85	80.07	0.11	44.74	419833.50	721408.20	
7004.00	0.11	18.54	7002.59	39.05	80.10	0.06	44.95	419833.70	721408.23	
7098.00	0.32	332.26	7096.59	39.37	80.01	0.27	45.26	419834.02	721408.14	
7193.00	0.30	356.78	7191.58	39.85	79.87	0.14	45.73	419834.50	721408.00	
7287.00	0.45	0.59	7285.58	40.47	79.86	0.16	46.34	419835.12	721407.99	
7381.00	0.40	33.45	7379.58	41.11	80.04	0.26	47.00	419835.76	721408.17	
7476.00	0.53	55.67	7474.58	41.64	80.59	0.23	47.56	419836.29	721408.72	
7571.00	0.74	59.88	7569.57	42.19	81.48	0.23	48.18	419836.84	721409.61	
7665.00	0.60	73.56	7663.56	42.64	82.48	0.23	48.70	419837.29	721410.61	
7760.00	0.42	52.50	7758.56	42.99	83.23	0.27	49.11	419837.64	721411.36	
7855.00	0.47	69.15	7853.56	43.34	83.87	0.15	49.51	419837.99	721412.00	
7950.00	0.54	86.16	7948.55	43.51	84.68	0.17	49.74	419838.16	721412.81	
8044.00	0.33	78.09	8042.55	43.59	85.39	0.23	49.87	419838.24	721413.52	
8090.00	0.46	97.23	8088.55	43.60	85.70	0.40	49.90	419838.25	721413.83	
8198.00	3.25	66.12	8196.48	44.78	88.93	2.65	51.33	419839.43	721417.06	
8230.00	5.53	49.12	8228.39	46.16	90.93	8.13	52.85	419840.81	721419.06	
8261.00	8.75	42.10	8259.15	48.89	93.64	10.74	55.77	419843.54	721421.77	
8293.00	13.01	42.64	8290.56	53.35	97.71	13.32	60.52	419848.00	721425.84	
8324.00	16.96	44.79	8320.50	59.12	103.26	12.87	66.70	419853.77	721431.39	
8355.00	19.00	44.21	8349.99	65.95	109.97	6.61	74.01	419860.60	721438.10	
8387.00	19.94	38.26	8380.16	73.97	116.98	6.85	82.53	419868.62	721445.11	
8419.00	23.11	34.69	8409.93	83.42	123.94	10.71	92.48	419878.07	721452.07	
8450.00	26.81	36.05	8438.03	94.08	131.52	12.08	103.67	419888.73	721459.65	
8482.00	30.15	36.63	8466.15	106.37	140.56	10.47	116.61	419901.02	721468.69	
8513.00	32.44	34.35	8492.64	119.48	149.90	8.32	130.38	419914.13	721478.03	
8544.00	35.24	33.93	8518.38	133.77	159.58	9.06	145.36	419928.42	721487.71	
8576.00	39.85	34.50	8543.75	149.89	170.55	14.45	162.25	419944.54	721498.68	
8608.00	44.96	34.76	8567.37	167.64	182.81	15.98	180.87	419962.29	721510.94	
8640.00	48.07	35.53	8589.39	186.62	196.18	9.87	200.80	419981.27	721524.31	
8671.00	49.46	35.61	8609.82	205.58	209.74	4.49	220.72	420000.23	721537.87	
8703.00	50.79	33.23	8630.34	225.84	223.61	7.06	241.97	420020.49	721551.74	
8734.00	54.26	29.96	8649.20	246.79	236.48	13.98	263.83	420041.44	721564.61	
8766.00	59.36	27.72	8666.71	270.25	249.38	16.98	288.18	420064.90	721577.51	
8797.00	64.44	25.88	8681.31	294.65	261.70	17.20	313.44	420089.30	721589.83	
8829.00	67.34	24.69	8694.38	321.06	274.17	9.68	340.71	420115.71	721602.30	
8860.00	68.09	25.64	8706.14	347.02	286.37	3.73	367.51	420141.67	721614.50	
8892.00	69.91	26.03	8717.61	373.91	299.39	5.80	395.30	420168.56	721627.52	
8923.00	72.79	26.51	8727.52	400.24	312.39	9.41	422.54	420194.89	721640.52	
8954.00	78.41	26.89	8735.22	427.06	325.87	18.17	450.29	420221.71	721654.00	
8985.00	84.64	27.73	8739.79	454.28	339.93	20.27	478.49	420248.93	721668.06	
9017.00	89.20	28.14	8741.51	482.51	354.90	14.31	507.76	420277.16	721683.03	
9109.00	90.10	29.26	8742.07	563.20	399.08	1.56	591.54	420357.85	721727.21	
9158.00	90.17	29.99	8741.96	605.80	423.30	1.50	635.83	420400.45	721751.43	
9252.00	90.66	28.86	8741.28	687.67	469.48	1.31	720.93	420482.32	721797.61	
9346.00	91.50	26.40	8739.50	770.92	513.06	2.76	807.22	420565.57	721841.19	
9440.00	89.90	23.38	8738.35	856.17	552.61	3.64	895.20	420650.82	721880.74	
9534.00	89.20	20.64	8739.09	943.31	587.84	3.01	984.73	420737.96	721915.97	
9628.00	87.65	17.02	8741.68	1032.23	618.16	4.19	1075.67	420826.88	721946.29	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #137H
Well: CDU #137H
Wellpath: 1

Date: 10/20/2011
Co-ordinate(NE) Reference: Well CDU #137H, Gnd North
Vertical (TVD) Reference: SITE 3445.0
Section (VS) Reference: Well (0.00N,0.00E,4.30Azi)
Survey Calculation Method: Minimum Curvature
Page: 3
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
9722.00	88.78	10.68	8744.61	1123.40	640.64	6.85	1168.28	420918.05	721968.77	
9816.00	91.08	2.12	8744.72	1216.73	651.11	9.43	1262.12	421011.38	721979.24	
9909.00	89.89	356.79	8743.94	1309.68	650.22	5.87	1354.75	421104.33	721978.35	
10003.00	89.76	356.70	8744.22	1403.53	644.88	0.17	1447.93	421198.18	721973.01	
10097.00	90.45	356.48	8744.05	1497.36	639.29	0.77	1541.08	421292.01	721967.42	
10191.00	90.45	356.61	8743.31	1591.19	633.63	0.14	1634.22	421385.84	721961.76	
10285.00	91.15	356.78	8742.00	1685.02	628.21	0.77	1727.38	421479.67	721956.34	
10379.00	89.62	357.33	8741.37	1778.89	623.38	1.73	1820.63	421573.54	721951.51	
10473.00	89.55	357.43	8742.05	1872.79	619.08	0.13	1913.94	421667.44	721947.21	
10566.00	90.52	357.59	8741.99	1965.70	615.04	1.06	2006.29	421760.35	721943.17	
10660.00	90.80	358.27	8740.91	2059.64	611.65	0.78	2099.70	421854.29	721939.78	
10754.00	89.41	358.38	8740.74	2153.59	608.90	1.48	2193.19	421948.24	721937.03	
10848.00	88.85	357.70	8742.16	2247.53	605.69	0.94	2286.61	422042.18	721933.82	
10942.00	89.27	357.49	8743.71	2341.43	601.74	0.50	2379.96	422136.08	721929.87	
11035.00	89.90	357.40	8744.38	2434.34	597.60	0.68	2472.29	422228.99	721925.73	
11129.00	90.66	358.23	8743.92	2528.26	594.01	1.20	2565.69	422322.91	721922.14	
11223.00	91.01	358.40	8742.55	2622.21	591.25	0.41	2659.16	422416.86	721919.38	
11317.00	90.73	359.12	8741.12	2716.18	589.22	0.82	2752.71	422510.83	721917.35	
11411.00	90.94	358.42	8739.75	2810.15	587.20	0.78	2846.27	422604.80	721915.33	
11505.00	89.41	357.68	8739.47	2904.09	584.00	1.81	2939.70	422698.74	721912.13	
11599.00	88.92	357.46	8740.84	2998.00	580.01	0.57	3033.05	422792.65	721908.14	
11693.00	89.41	358.00	8742.21	3091.91	576.29	0.78	3126.42	422886.56	721904.42	
11787.00	89.76	359.89	8742.89	3185.89	574.56	2.04	3220.00	422980.54	721902.69	
11881.00	89.55	1.04	8743.45	3279.88	575.32	1.24	3313.79	423074.53	721903.45	
11975.00	89.90	1.19	8743.90	3373.86	577.15	0.41	3407.64	423168.51	721905.28	
12069.00	90.45	1.15	8743.62	3467.84	579.07	0.59	3501.50	423262.49	721907.20	
12163.00	90.45	0.91	8742.88	3561.82	580.76	0.26	3595.34	423356.47	721908.89	
12257.00	90.94	0.78	8741.74	3655.81	582.15	0.54	3689.16	423450.46	721910.28	
12351.00	91.36	0.80	8739.85	3749.78	583.44	0.45	3782.97	423544.43	721911.57	
12445.00	90.52	0.03	8738.31	3843.76	584.12	1.21	3876.74	423638.41	721912.25	
12539.00	89.41	358.92	8738.37	3937.75	583.26	1.67	3970.40	423732.40	721911.39	
12633.00	90.04	359.15	8738.82	4031.74	581.68	0.71	4064.00	423826.39	721909.81	
12726.00	90.52	359.47	8738.36	4124.73	580.56	0.62	4156.65	423919.38	721908.69	
12820.00	89.48	358.68	8738.36	4218.72	579.04	1.39	4250.26	424013.37	721907.17	
12914.00	88.15	359.05	8740.31	4312.68	577.18	1.47	4343.81	424107.33	721905.31	
13008.00	88.63	358.99	8742.95	4406.63	575.57	0.51	4437.38	424201.28	721903.70	
13102.00	88.85	358.91	8745.02	4500.59	573.85	0.25	4530.95	424295.24	721901.98	
13196.00	89.13	358.80	8746.67	4594.55	571.97	0.32	4624.51	424389.20	721900.10	
13290.00	89.55	358.91	8747.76	4688.53	570.10	0.46	4718.08	424483.18	721898.23	
13384.00	89.97	358.94	8748.15	4782.51	568.33	0.45	4811.66	424577.16	721896.46	
13478.00	90.73	358.92	8747.58	4876.49	566.58	0.81	4905.25	424671.14	721894.71	
13572.00	91.85	359.02	8745.46	4970.45	564.89	1.20	4998.81	424765.10	721893.02	
13666.00	91.85	359.19	8742.42	5064.39	563.42	0.18	5092.38	424859.04	721891.55	
13760.00	90.45	358.33	8740.54	5158.35	561.39	1.75	5185.92	424953.00	721889.52	
13855.00	89.20	358.93	8740.83	5253.32	559.11	1.46	5280.45	425047.97	721887.24	
13949.00	88.22	0.04	8742.94	5347.29	558.27	1.57	5374.09	425141.94	721886.40	
14042.00	87.80	2.05	8746.17	5440.21	559.96	2.21	5466.88	425234.86	721888.09	
14137.00	88.01	2.35	8749.65	5535.08	563.61	0.39	5561.75	425329.73	721891.74	
14231.00	88.29	2.12	8752.68	5628.96	567.27	0.39	5655.64	425423.61	721895.40	
14325.00	89.76	1.31	8754.28	5722.90	570.09	1.79	5749.53	425517.55	721898.22	
14512.00	92.62	1.41	8750.40	5909.78	574.52	1.53	5936.23	425704.43	721902.65	
14606.00	92.06	1.24	8746.56	6003.68	576.69	0.62	6030.02	425798.33	721904.82	
14630.00	91.78	1.20	8745.76	6027.66	577.20	1.18	6053.97	425822.31	721905.33	



Weatherford International Ltd.

WFT Survey Report X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw Unit #137H
Well: CDU #137H
Wellpath: 1

Date: 10/20/2011
Co-ordinate(NE) Reference: Well: CDU #137H, Grid North
Vertical (TVD) Reference: SITE 3445 0
Section (VS) Reference: Well (0.00N,0.00E,4.30Azi)
Survey Calculation Method: Minimum Curvature
Page: 4
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
14700.00	92.48	1.02	8743.15	6097.60	578.56	1.03	6123.82	425892.25	721906.69	
14794.00	89.62	0.02	8741.43	6191.57	579.41	3.22	6217.58	425986.22	721907.54	
14888.00	89.97	359.95	8741.77	6285.57	579.39	0.38	6311.32	426080.22	721907.52	
14982.00	90.38	359.90	8741.48	6379.57	579.26	0.44	6405.04	426174.22	721907.39	
15076.00	90.80	0.07	8740.51	6473.56	579.24	0.48	6498.77	426268.21	721907.37	
15170.00	88.78	359.07	8740.86	6567.55	578.53	2.40	6592.44	426362.20	721906.66	
15264.00	88.71	358.85	8742.92	6661.51	576.83	0.25	6686.01	426456.16	721904.96	
15358.00	88.54	358.96	8745.17	6755.47	575.03	0.22	6779.57	426550.12	721903.16	
15452.00	88.92	359.40	8747.26	6849.44	573.69	0.62	6873.17	426644.09	721901.82	
15546.00	89.76	359.95	8748.34	6943.43	573.16	1.07	6966.86	426738.08	721901.29	
15640.00	90.03	1.23	8748.51	7037.42	574.12	1.39	7060.66	426832.07	721902.25	
15734.00	90.24	2.17	8748.29	7131.38	576.91	1.02	7154.56	426926.03	721905.04	
15828.00	90.60	3.28	8747.60	7225.27	581.38	1.24	7248.52	427019.92	721909.51	
15922.00	90.17	1.04	8746.97	7319.19	584.92	2.43	7342.45	427113.84	721913.05	
16016.00	90.80	1.01	8746.17	7413.17	586.60	0.67	7436.29	427207.82	721914.73	
16110.00	90.80	1.07	8744.86	7507.15	588.31	0.06	7530.13	427301.80	721916.44	
16204.00	91.22	1.26	8743.20	7601.11	590.22	0.49	7623.97	427395.76	721918.35	
16221.00	91.36	1.28	8742.82	7618.11	590.60	0.83	7640.94	427412.76	721918.73	Last Wft Svy
16291.00	91.36	1.28	8741.16	7688.07	592.16	0.00	7710.83	427482.72	721920.29	Proj To Blt

Annotation

MD ft	TVD ft	
4215.00	4213.76	Tie On SDI
4353.00	4351.74	First Wft Svy
16221.00	8742.82	Last Wft Svy
16291.00	8741.16	Proj. To Blt