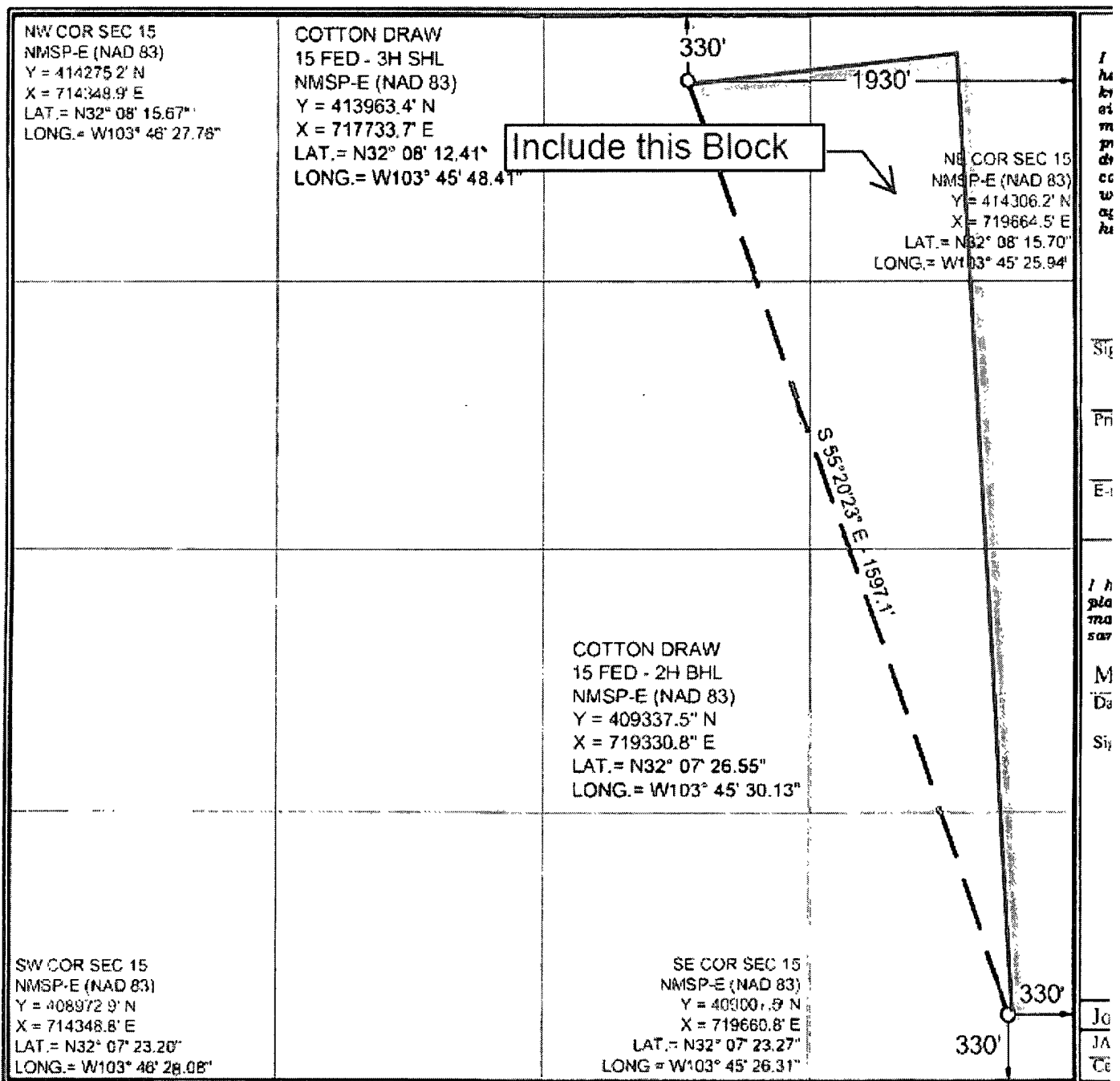


30-015-40747

Karen,
These screen shots are used to communicate with the well planner to show where we want the wellbore. I mention this so you know the actual directional plan and surveys may be a little different than the screen shot.
Thanks,
Kurtis Schmitz





Weatherford®

Amended

Drilling Services

30-015-40747

Proposal



devon

COTTON DRAW 15 FED #3H

EDDY COUNTY, NM

WELL FILE: **PLAN 2**

AUGUST 7, 2012

Weatherford International, Ltd

P O Box 61028

Midland, TX 79711 USA

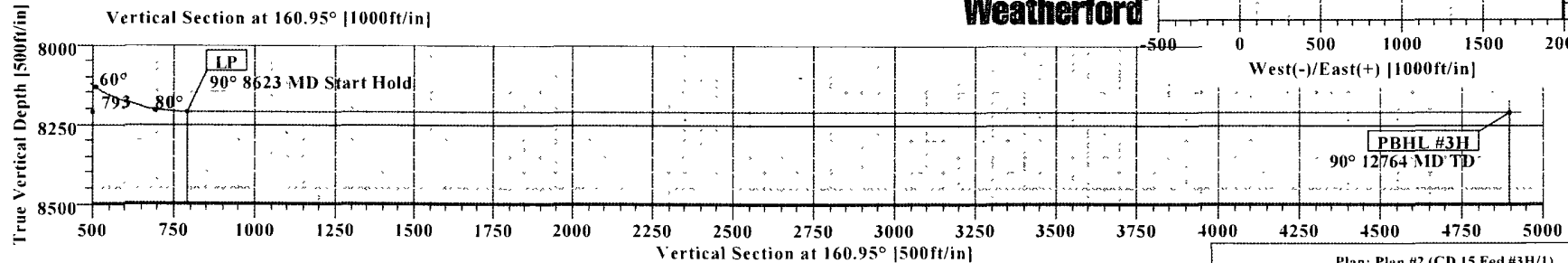
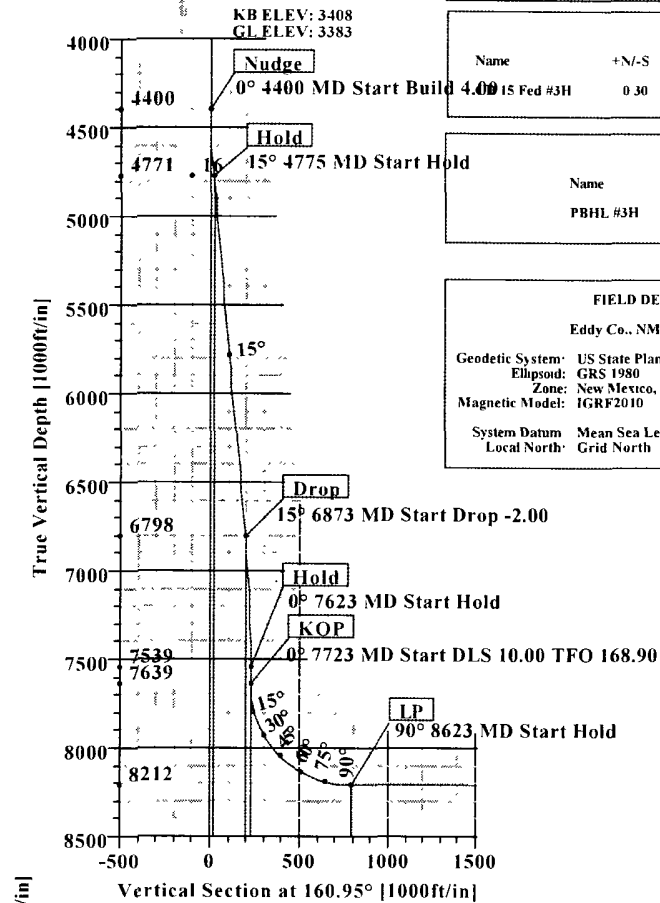
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devon

Cotton Draw 15 Fed #3H
Eddy Co., New Mexico



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	V Sec	Target
1	0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	4400.00	0.00	90.00	4400.00	0.00	0.00	0.00	90.00	0.00	
3	4775.00	15.00	90.00	4770.73	0.00	48.81	4.00	90.00	15.93	
4	6873.35	15.00	90.00	6797.58	0.00	591.90	0.00	0.00	193.19	
5	7623.35	0.00	90.00	7539.04	0.00	689.52	2.00	180.00	225.05	
6	7723.35	0.00	90.00	7639.04	0.00	689.52	0.00	90.00	225.05	
7	8623.35	90.00	168.90	8212.00	-562.24	799.83	10.00	168.90	792.50	
8	12764.48	90.00	168.90	8212.00	-4625.90	1597.10	0.00	0.00	4893.84	PBHL #3H

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
CD 15 Fed #3H	0.30	50.00	413963.40	717733.70	32°08'12.40S	103°45'48.429W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL #3H	8212.00	-4625.90	1597.10	409337.50	719330.80	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 15 Fed Pad

Site Centre Northing: 413963.10
Easting: 717683.70
Ground Level: 3383.00
Positional Uncertainty: 0.00
Convergence: 0.30



Azinuths to Grid North
True North: -0.30°
Magnetic North: 7.17°

Magnetic Field
Strength: 48409nT
Dip Angle: 60.03°
Date: 1/15/2013
Model: IGRF2010

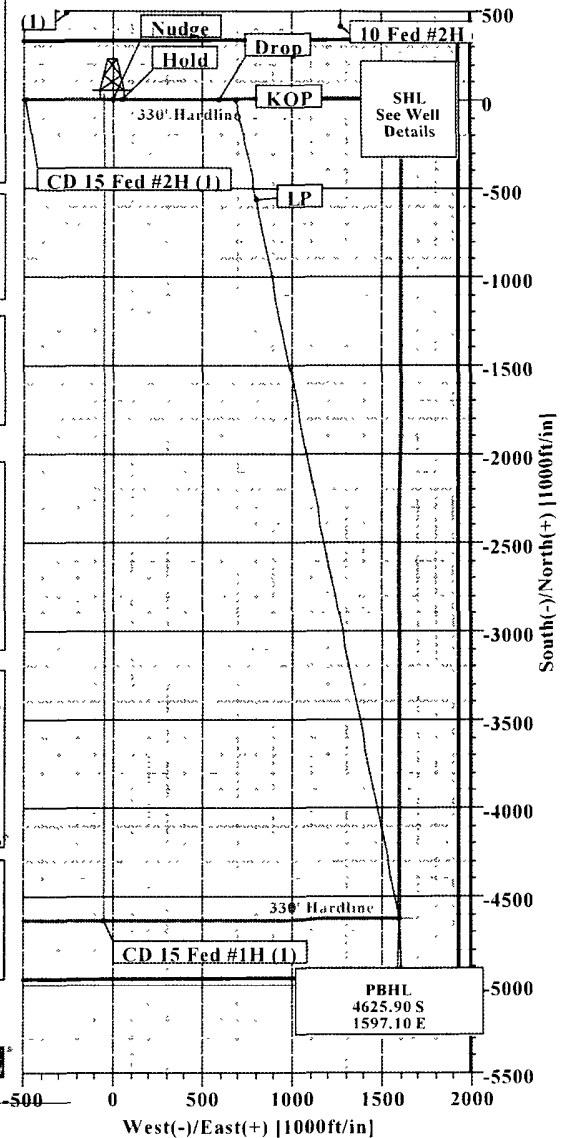
Total Correction to Grid North: 7.15°

LEGEND

- CD 15 Fed #1H (1)
- CD 15 Fed #2H (1)
- 10 Fed #1H (1)
- 10 Fed #2H (1)
- Plan #2



Weatherford



Created By: Russell W. Joyner

Date: 8/7/2012



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 8/7/2012 Time: 12:42:51 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: CD 15 Fed #3H, Grid:North
Site: Cotton Draw 15 Fed Pad Vertical (TVD) Reference: SITE 3408.0
Well: CD 15 Fed #3H Section (VS) Reference: Well (0.00N,0.00E,160.95Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #2 Date Composed: 8/7/2012
Principal: Yes Version: 1
Tied-to: From Surface

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 15 Fed Pad

Site Position: Northing: 413963.10 ft Latitude: 32 8 12.404 N
From: Map Easting: 717683.70 ft Longitude: 103 45 49.011 W
Position Uncertainty: 0.00 ft North Reference: Gnd
Ground Level: 3383.00 ft Grid Convergence: 0.30 deg

Well: CD 15 Fed #3H Slot Name:

Well Position: +N/-S 0.30 ft Northing: 413963.40 ft Latitude: 32 8 12.405 N
+E/-W 50.00 ft Easting: 717733.70 ft Longitude: 103 45 48.429 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3408.00 ft Tie-on Depth: 0.00 ft
Magnetic Data: 1/15/2013 Above System Datum: Mean Sea Level
Field Strength: 48409 nT Declination: 7.47 deg
Vertical Section: Depth From (TVD) +N/-S Mag Dip Angle: 60.03 deg
ft +E/-W Direction
deg

0.00	0.00	0.00	160.95
------	------	------	--------

Plan Section Information

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	TFO deg	Target
0.00	0.00	90.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
4400.00	0.00	90.00	4400.00	0.00	0.00	0.00	0.00	0.00	0.00	
4775.00	15.00	90.00	4770.73	0.00	48.81	4.00	4.00	0.00	90.00	
6873.35	15.00	90.00	6797.58	0.00	591.90	0.00	0.00	0.00	0.00	
7623.35	0.00	90.00	7539.04	0.00	689.52	2.00	-2.00	0.00	180.00	
7723.35	0.00	90.00	7639.04	0.00	689.52	0.00	0.00	0.00	90.00	
8623.35	90.00	168.90	8212.00	-562.24	799.83	10.00	10.00	8.77	168.90	
12764.48	90.00	168.90	8212.00	-4625.90	1597.10	0.00	0.00	0.00	0.00	PBHL #3H

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
4400.00	0.00	90.00	4400.00	0.00	0.00	0.00	0.00	413963.40	717733.70	Nudge
4500.00	4.00	90.00	4499.92	0.00	3.49	1.14	4.00	413963.40	717737.19	
4600.00	8.00	90.00	4599.35	0.00	13.94	4.55	4.00	413963.40	717747.64	
4700.00	12.00	90.00	4697.81	0.00	31.30	10.22	4.00	413963.40	717765.00	
4775.00	15.00	90.00	4770.73	0.00	48.81	15.93	4.00	413963.40	717782.51	Hold
4800.00	15.00	90.00	4794.88	0.00	55.28	18.04	0.00	413963.40	717788.98	
4900.00	15.00	90.00	4891.47	0.00	81.16	26.49	0.00	413963.40	717814.86	
5000.00	15.00	90.00	4988.06	0.00	107.04	34.94	0.00	413963.40	717840.74	
5100.00	15.00	90.00	5084.66	0.00	132.92	43.39	0.00	413963.40	717866.62	
5200.00	15.00	90.00	5181.25	0.00	158.81	51.83	0.00	413963.40	717892.51	
5300.00	15.00	90.00	5277.84	0.00	184.69	60.28	0.00	413963.40	717918.39	
5400.00	15.00	90.00	5374.43	0.00	210.57	68.73	0.00	413963.40	717944.27	
5500.00	15.00	90.00	5471.03	0.00	236.45	77.18	0.00	413963.40	717970.15	
5600.00	15.00	90.00	5567.62	0.00	262.33	85.62	0.00	413963.40	717996.03	



Weatherford

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #3H
Wellpath: 1

Date: 8/7/2012
Co-ordinate(NE) Reference: Well CD 15 Fed #3H, Grid North
Vertical (TVD) Reference: SITE 3408.0
Section (VS) Reference: Well (0.00N,0.00E,160.95Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Page: 2

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
5700.00	15.00	90.00	5664.21	0.00	288.22	94.07	0.00	413963.40	718021.92	
5800.00	15.00	90.00	5760.80	0.00	314.10	102.52	0.00	413963.40	718047.80	
5900.00	15.00	90.00	5857.40	0.00	339.98	110.97	0.00	413963.40	718073.68	
6000.00	15.00	90.00	5953.99	0.00	365.86	119.41	0.00	413963.40	718099.56	
6100.00	15.00	90.00	6050.58	0.00	391.74	127.86	0.00	413963.40	718125.44	
6200.00	15.00	90.00	6147.18	0.00	417.62	136.31	0.00	413963.40	718151.32	
6300.00	15.00	90.00	6243.77	0.00	443.51	144.76	0.00	413963.40	718177.21	
6400.00	15.00	90.00	6340.36	0.00	469.39	153.21	0.00	413963.40	718203.09	
6500.00	15.00	90.00	6436.95	0.00	495.27	161.65	0.00	413963.40	718228.97	
6600.00	15.00	90.00	6533.55	0.00	521.15	170.10	0.00	413963.40	718254.85	
6700.00	15.00	90.00	6630.14	0.00	547.03	178.55	0.00	413963.40	718280.73	
6800.00	15.00	90.00	6726.73	0.00	572.92	187.00	0.00	413963.40	718306.62	
6873.35	15.00	90.00	6797.58	0.00	591.90	193.19	0.00	413963.40	718325.60	Drop
6900.00	14.47	90.00	6823.36	0.00	598.68	195.40	2.00	413963.40	718332.38	
7000.00	12.47	90.00	6920.60	0.00	621.97	203.01	2.00	413963.40	718355.67	
7100.00	10.47	90.00	7018.60	0.00	641.84	209.49	2.00	413963.40	718375.54	
7200.00	8.47	90.00	7117.23	0.00	658.29	214.86	2.00	413963.40	718391.99	
7300.00	6.47	90.00	7216.38	0.00	671.29	219.10	2.00	413963.40	718404.99	
7400.00	4.47	90.00	7315.92	0.00	680.81	222.21	2.00	413963.40	718414.51	
7500.00	2.47	90.00	7415.73	0.00	686.86	224.19	2.00	413963.40	718420.56	
7600.00	0.47	90.00	7515.69	0.00	689.42	225.02	2.00	413963.40	718423.12	
7623.35	0.00	90.00	7539.04	0.00	689.52	225.05	2.00	413963.40	718423.22	Hold
7700.00	0.00	90.00	7615.69	0.00	689.52	225.05	0.00	413963.40	718423.22	
7723.35	0.00	90.00	7639.04	0.00	689.52	225.05	0.00	413963.40	718423.22	KOP
7750.00	2.67	168.90	7665.68	-0.61	689.64	225.67	10.00	413962.79	718423.34	
7800.00	7.67	168.90	7715.46	-5.02	690.50	230.12	10.00	413958.38	718424.20	
7850.00	12.67	168.90	7764.66	-13.68	692.20	238.86	10.00	413949.72	718425.90	
7900.00	17.67	168.90	7812.91	-26.51	694.72	251.81	10.00	413936.89	718428.42	
7950.00	22.67	168.90	7859.83	-43.42	698.03	268.88	10.00	413919.98	718431.73	
8000.00	27.67	168.90	7905.07	-64.28	702.13	289.93	10.00	413899.12	718435.83	
8050.00	32.67	168.90	7948.28	-88.92	706.96	314.80	10.00	413874.48	718440.66	
8100.00	37.67	168.90	7989.15	-117.17	712.50	343.31	10.00	413846.23	718446.20	
8150.00	42.67	168.90	8027.34	-148.81	718.71	375.24	10.00	413814.59	718452.41	
8200.00	47.67	168.90	8062.59	-183.59	725.54	410.35	10.00	413779.81	718459.24	
8250.00	52.67	168.90	8094.60	-221.26	732.93	448.36	10.00	413742.14	718466.63	
8300.00	57.67	168.90	8123.16	-261.51	740.82	488.99	10.00	413701.89	718474.52	
8350.00	62.67	168.90	8148.02	-304.06	749.17	531.94	10.00	413659.34	718482.87	
8400.00	67.67	168.90	8169.02	-348.58	757.91	576.86	10.00	413614.82	718491.61	
8450.00	72.67	168.90	8185.98	-394.72	766.96	623.43	10.00	413568.68	718500.66	
8500.00	77.67	168.90	8198.77	-442.13	776.26	671.28	10.00	413521.27	718509.96	
8550.00	82.67	168.90	8207.31	-490.46	785.74	720.06	10.00	413472.94	718519.44	
8600.00	87.67	168.90	8211.53	-539.33	795.33	769.39	10.00	413424.07	718529.03	
8623.35	90.00	168.90	8212.00	-562.24	799.83	792.50	10.00	413401.16	718533.53	LP
8700.00	90.00	168.90	8212.00	-637.45	814.58	868.42	0.00	413325.95	718548.28	
8800.00	90.00	168.90	8212.00	-735.58	833.83	967.46	0.00	413227.82	718567.53	
8900.00	90.00	168.90	8212.00	-833.71	853.09	1066.50	0.00	413129.69	718586.79	
9000.00	90.00	168.90	8212.00	-931.84	872.34	1165.54	0.00	413031.56	718606.04	
9100.00	90.00	168.90	8212.00	-1029.97	891.59	1264.57	0.00	412933.43	718625.29	
9200.00	90.00	168.90	8212.00	-1128.10	910.85	1363.61	0.00	412835.30	718644.55	
9300.00	90.00	168.90	8212.00	-1226.23	930.10	1462.65	0.00	412737.17	718663.80	
9400.00	90.00	168.90	8212.00	-1324.36	949.35	1561.69	0.00	412639.04	718683.05	
9500.00	90.00	168.90	8212.00	-1422.49	968.60	1660.73	0.00	412540.91	718702.30	



Company: Devon Energy Date: 8/7/2012 Time: 12:42:51 Page: 3
 Field: Eddy Co.; NM (NAD 83) Co-ordinate(NE) Reference: Well: CD 15 Fed #3H; Grid North
 Site: Cotton Draw 15 Fed Pad Vertical (TVD) Reference: SITE 3408.0
 Well: CD 15 Fed #3H Section (VS) Reference: Well (0.00N;0.00E;160.95Azi)
 Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
9600.00	90.00	168.90	8212.00	-1520.62	987.86	1759.77	0.00	412442.78	718721.56	
9700.00	90.00	168.90	8212.00	-1618.75	1007.11	1858.81	0.00	412344.65	718740.81	
9800.00	90.00	168.90	8212.00	-1716.88	1026.36	1957.85	0.00	412246.52	718760.06	
9900.00	90.00	168.90	8212.00	-1815.01	1045.61	2056.89	0.00	412148.39	718779.31	
10000.00	90.00	168.90	8212.00	-1913.13	1064.87	2155.92	0.00	412050.27	718798.57	
10100.00	90.00	168.90	8212.00	-2011.26	1084.12	2254.96	0.00	411952.14	718817.82	
10200.00	90.00	168.90	8212.00	-2109.39	1103.37	2354.00	0.00	411854.01	718837.07	
10300.00	90.00	168.90	8212.00	-2207.52	1122.62	2453.04	0.00	411755.88	718856.32	
10400.00	90.00	168.90	8212.00	-2305.65	1141.88	2552.08	0.00	411657.75	718875.58	
10500.00	90.00	168.90	8212.00	-2403.78	1161.13	2651.12	0.00	411559.62	718894.83	
10600.00	90.00	168.90	8212.00	-2501.91	1180.38	2750.16	0.00	411461.49	718914.08	
10700.00	90.00	168.90	8212.00	-2600.04	1199.63	2849.20	0.00	411363.36	718933.33	
10800.00	90.00	168.90	8212.00	-2698.17	1218.89	2948.24	0.00	411265.23	718952.59	
10900.00	90.00	168.90	8212.00	-2796.30	1238.14	3047.28	0.00	411167.10	718971.84	
11000.00	90.00	168.90	8212.00	-2894.43	1257.39	3146.31	0.00	411068.97	718991.09	
11100.00	90.00	168.90	8212.00	-2992.56	1276.64	3245.35	0.00	410970.84	719010.34	
11200.00	90.00	168.90	8212.00	-3090.68	1295.90	3344.39	0.00	410872.72	719029.60	
11300.00	90.00	168.90	8212.00	-3188.81	1315.15	3443.43	0.00	410774.59	719048.85	
11400.00	90.00	168.90	8212.00	-3286.94	1334.40	3542.47	0.00	410676.46	719068.10	
11500.00	90.00	168.90	8212.00	-3385.07	1353.65	3641.51	0.00	410578.33	719087.35	
11600.00	90.00	168.90	8212.00	-3483.20	1372.91	3740.55	0.00	410480.20	719106.61	
11700.00	90.00	168.90	8212.00	-3581.33	1392.16	3839.59	0.00	410382.07	719125.86	
11800.00	90.00	168.90	8212.00	-3679.46	1411.41	3938.63	0.00	410283.94	719145.11	
11900.00	90.00	168.90	8212.00	-3777.59	1430.66	4037.67	0.00	410185.81	719164.36	
12000.00	90.00	168.90	8212.00	-3875.72	1449.92	4136.70	0.00	410087.68	719183.62	
12100.00	90.00	168.90	8212.00	-3973.85	1469.17	4235.74	0.00	409989.55	719202.87	
12200.00	90.00	168.90	8212.00	-4071.98	1488.42	4334.78	0.00	409891.42	719222.12	
12300.00	90.00	168.90	8212.00	-4170.11	1507.67	4433.82	0.00	409793.29	719241.37	
12400.00	90.00	168.90	8212.00	-4268.23	1526.93	4532.86	0.00	409695.17	719260.63	
12500.00	90.00	168.90	8212.00	-4366.36	1546.18	4631.90	0.00	409597.04	719279.88	
12600.00	90.00	168.90	8212.00	-4464.49	1565.43	4730.94	0.00	409498.91	719299.13	
12700.00	90.00	168.90	8212.00	-4562.62	1584.69	4829.98	0.00	409400.78	719318.39	
12764.48	90.00	168.90	8212.00	-4625.90	1597.10	4893.84	0.00	409337.50	719330.80	PBHL #3H

Targets

Name	Description		TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude --->			<--- Longitude --->				
	Dip	Dir.						Deg	Min	Sec	Deg	Min	Sec		
PBHL #3H			8212 00	-4625 90	1597 10	409337.50	719330 80	32	7	26	544 N	103	45	30	142 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
4400.00	4400.00	Nudge
4775.00	4770.73	Hold
6873.35	6797.58	Drop
7623.35	7539.04	Hold
7723.35	7639.04	KOP



Weatherford

WFT Plan Report - X & Y's



Company: Devon Energy	Date: 8/7/2012	Time: 12:42:51	Page: 4
Field: Eddy Co, NM (NAD 83)	Co-ordinate(NE) Reference: Well: CD 15 Fed #3H, Grid North		
Site: Cotton Draw 15 Fed Pad	Vertical (TVD) Reference: SITE: 3408.0		
Well: CD 15 Fed #3H	Section (VS) Reference: Well: (0.00N, 0.00E, 160.95Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature Db: Sybase		

Annotation

MD ft	TVD ft	
8623.35	8212.00	LP
12764.48	8212.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 1
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well: CD 15 Fed #3H; Grid North
Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
Reference Wellpath: Db: Sybase

NO GLOBAL SCAN: Using user defined selection & scan criteria
Interpolation Method MD Interval: 100.00 ft
Depth Range: 0.00 to 12764.48 ft
Maximum Radius 0.0000 ft
Reference: Plan Plan #2
Error Model: ISCWSA Ellipse
Scan Method: Closest Approach 3D
Error Surface: Ellipse

Plan: Plan #2 Date Composed: 8/7/2012
Principal: Yes Version: 1
Tied-to: From Surface

Summary

Site	Offset Wellpath	Wellpath	Reference MD	Offset MD	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
Cotton Draw 15 Fed #1H	CD 15 Fed #1H	1 V0 Plan Plan #1 V1	4400.00	4400.00	50.00	30.50	2.56	
Cotton Draw 15 Fed #2H	CD 15 Fed #2H	1 V0 Plan Plan #2 V1	4400.00	4400.00	100.10	80.60	5.13	
Cotton Draw Unit 10 10 Fed #1H		1 V0	7700.00	7605.79	1066.29	1041.94	43.79	

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #1H
Wellpath: 1 V0 Plan Plan #1 V1

Inter-Site Error: 0.00 ft

Reference MD	TVD	Offset MD	TVD	Semi-Major Axis Ref	Offset	TFO-HS	Offset Location North	East	Ctr-Ctr Distance	Edge Distance	Separation Factor	Warning
0.00	0.00	0.00	0.00	0.00	0.00	269.66	-0.30	-50.00	50.00			No Data
100.00	100.00	100.00	100.00	0.08	0.08	269.66	-0.30	-50.00	50.00	49.83	296.61	
200.00	200.00	200.00	200.00	0.31	0.31	269.66	-0.30	-50.00	50.00	49.38	80.89	
300.00	300.00	300.00	300.00	0.53	0.53	269.66	-0.30	-50.00	50.00	48.93	46.83	
400.00	400.00	400.00	400.00	0.76	0.76	269.66	-0.30	-50.00	50.00	48.48	32.96	
500.00	500.00	500.00	500.00	0.98	0.98	269.66	-0.30	-50.00	50.00	48.03	25.42	
600.00	600.00	600.00	600.00	1.21	1.21	269.66	-0.30	-50.00	50.00	47.58	20.69	
700.00	700.00	700.00	700.00	1.43	1.43	269.66	-0.30	-50.00	50.00	47.14	17.45	
800.00	800.00	800.00	800.00	1.66	1.66	269.66	-0.30	-50.00	50.00	46.69	15.08	
900.00	900.00	900.00	900.00	1.88	1.88	269.66	-0.30	-50.00	50.00	46.24	13.28	
1000.00	1000.00	1000.00	1000.00	2.11	2.11	269.66	-0.30	-50.00	50.00	45.79	11.86	
1100.00	1100.00	1100.00	1100.00	2.33	2.33	269.66	-0.30	-50.00	50.00	45.34	10.72	
1200.00	1200.00	1200.00	1200.00	2.56	2.56	269.66	-0.30	-50.00	50.00	44.89	9.78	
1300.00	1300.00	1300.00	1300.00	2.78	2.78	269.66	-0.30	-50.00	50.00	44.44	8.99	
1400.00	1400.00	1400.00	1400.00	3.01	3.01	269.66	-0.30	-50.00	50.00	43.99	8.32	
1500.00	1500.00	1500.00	1500.00	3.23	3.23	269.66	-0.30	-50.00	50.00	43.54	7.74	
1600.00	1600.00	1600.00	1600.00	3.46	3.46	269.66	-0.30	-50.00	50.00	43.09	7.23	
1700.00	1700.00	1700.00	1700.00	3.68	3.68	269.66	-0.30	-50.00	50.00	42.64	6.79	
1800.00	1800.00	1800.00	1800.00	3.91	3.91	269.66	-0.30	-50.00	50.00	42.19	6.40	
1900.00	1900.00	1900.00	1900.00	4.13	4.13	269.66	-0.30	-50.00	50.00	41.74	6.05	
2000.00	2000.00	2000.00	2000.00	4.35	4.35	269.66	-0.30	-50.00	50.00	41.29	5.74	
2100.00	2100.00	2100.00	2100.00	4.58	4.58	269.66	-0.30	-50.00	50.00	40.84	5.46	
2200.00	2200.00	2200.00	2200.00	4.80	4.80	269.66	-0.30	-50.00	50.00	40.39	5.20	
2300.00	2300.00	2300.00	2300.00	5.03	5.03	269.66	-0.30	-50.00	50.00	39.94	4.97	
2400.00	2400.00	2400.00	2400.00	5.25	5.25	269.66	-0.30	-50.00	50.00	39.49	4.76	
2500.00	2500.00	2500.00	2500.00	5.48	5.48	269.66	-0.30	-50.00	50.00	39.04	4.56	
2600.00	2600.00	2600.00	2600.00	5.70	5.70	269.66	-0.30	-50.00	50.00	38.59	4.38	
2700.00	2700.00	2700.00	2700.00	5.93	5.93	269.66	-0.30	-50.00	50.00	38.14	4.22	
2800.00	2800.00	2800.00	2800.00	6.15	6.15	269.66	-0.30	-50.00	50.00	37.69	4.06	
2900.00	2900.00	2900.00	2900.00	6.38	6.38	269.66	-0.30	-50.00	50.00	37.25	3.92	
3000.00	3000.00	3000.00	3000.00	6.60	6.60	269.66	-0.30	-50.00	50.00	36.80	3.79	
3100.00	3100.00	3100.00	3100.00	6.83	6.83	269.66	-0.30	-50.00	50.00	36.35	3.66	
3200.00	3200.00	3200.00	3200.00	7.05	7.05	269.66	-0.30	-50.00	50.00	35.90	3.55	
3300.00	3300.00	3300.00	3300.00	7.28	7.28	269.66	-0.30	-50.00	50.00	35.45	3.44	
3400.00	3400.00	3400.00	3400.00	7.50	7.50	269.66	-0.30	-50.00	50.00	35.00	3.33	
3500.00	3500.00	3500.00	3500.00	7.73	7.73	269.66	-0.30	-50.00	50.00	34.55	3.24	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 2
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NF) Reference: Well: CD 15 Fed #3H, Grid North
Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
Reference Wellpath: Db: Sybase

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #1H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
3600.00	3600.00	3600.00	3600.00	7.95	7.95	269.66	-0.30	-50.00	50.00	34.10	3.14	
3700.00	3700.00	3700.00	3700.00	8.18	8.18	269.66	-0.30	-50.00	50.00	33.65	3.06	
3800.00	3800.00	3800.00	3800.00	8.40	8.40	269.66	-0.30	-50.00	50.00	33.20	2.98	
3900.00	3900.00	3900.00	3900.00	8.63	8.63	269.66	-0.30	-50.00	50.00	32.75	2.90	
4000.00	4000.00	4000.00	4000.00	8.85	8.85	269.66	-0.30	-50.00	50.00	32.30	2.82	
4100.00	4100.00	4100.00	4100.00	9.07	9.07	269.66	-0.30	-50.00	50.00	31.85	2.75	
4200.00	4200.00	4200.00	4200.00	9.30	9.30	269.66	-0.30	-50.00	50.00	31.40	2.69	
4300.00	4300.00	4300.00	4300.00	9.52	9.52	269.66	-0.30	-50.00	50.00	30.95	2.62	
4400.00	4400.00	4400.00	4400.00	9.75	9.75	269.66	-0.30	-50.00	50.00	30.50	2.56	
4500.00	4499.92	4499.92	4499.92	9.97	9.97	179.68	-0.30	-50.00	53.49	33.56	2.68	
4600.00	4599.35	4599.35	4599.35	10.20	10.20	179.73	-0.30	-50.00	63.94	43.63	3.15	
4700.00	4697.81	4697.81	4697.81	10.43	10.42	179.78	-0.30	-50.00	81.30	60.65	3.94	
4800.00	4794.88	4794.88	4794.88	10.68	10.64	179.83	-0.30	-50.00	105.28	84.29	5.02	
4900.00	4891.47	4891.47	4891.47	10.95	10.85	179.86	-0.30	-50.00	131.16	109.73	6.12	
5000.00	4988.06	4988.06	4988.06	11.24	11.07	179.89	-0.30	-50.00	157.04	135.17	7.18	
5100.00	5084.66	5084.66	5084.66	11.55	11.29	179.90	-0.30	-50.00	182.92	160.60	8.20	
5200.00	5181.25	5181.25	5181.25	11.88	11.51	179.91	-0.30	-50.00	208.81	186.03	9.17	
5300.00	5277.84	5277.84	5277.84	12.22	11.72	179.92	-0.30	-50.00	234.69	211.46	10.10	
5400.00	5374.43	5374.43	5374.43	12.57	11.94	179.93	-0.30	-50.00	260.57	236.89	11.00	
5500.00	5471.03	5471.03	5471.03	12.93	12.16	179.94	-0.30	-50.00	286.45	262.31	11.87	
5600.00	5567.62	5567.62	5567.62	13.31	12.37	179.94	-0.30	-50.00	312.33	287.73	12.70	
5700.00	5664.21	5664.21	5664.21	13.70	12.59	179.95	-0.30	-50.00	338.22	313.15	13.49	
5800.00	5760.80	5760.80	5760.80	14.10	12.81	179.95	-0.30	-50.00	364.10	338.57	14.26	
5900.00	5857.40	5857.40	5857.40	14.50	13.02	179.95	-0.30	-50.00	389.98	363.99	15.00	
6000.00	5953.99	5953.99	5953.99	14.92	13.24	179.96	-0.30	-50.00	415.86	389.40	15.72	
6100.00	6050.58	6050.58	6050.58	15.34	13.46	179.96	-0.30	-50.00	441.74	414.81	16.40	
6200.00	6147.18	6147.18	6147.18	15.77	13.68	179.96	-0.30	-50.00	467.62	440.22	17.06	
6300.00	6243.77	6243.77	6243.77	16.20	13.89	179.96	-0.30	-50.00	493.51	465.63	17.70	
6400.00	6340.36	6340.36	6340.36	16.64	14.11	179.97	-0.30	-50.00	519.39	491.04	18.32	
6500.00	6436.95	6436.95	6436.95	17.09	14.33	179.97	-0.30	-50.00	545.27	516.45	18.92	
6600.00	6533.55	6533.55	6533.55	17.54	14.54	179.97	-0.30	-50.00	571.15	541.85	19.49	
6700.00	6630.14	6630.14	6630.14	17.99	14.76	179.97	-0.30	-50.00	597.03	567.26	20.05	
6800.00	6726.73	6726.73	6726.73	18.45	14.98	179.97	-0.30	-50.00	622.92	592.66	20.59	
6900.00	6823.36	6823.36	6823.36	18.90	15.20	179.97	-0.30	-50.00	648.68	617.93	21.10	
7000.00	6920.60	6920.60	6920.60	19.25	15.41	179.97	-0.30	-50.00	671.97	640.73	21.51	
7100.00	7018.60	7018.60	7018.60	19.57	15.63	179.97	-0.30	-50.00	691.85	660.14	21.82	
7200.00	7117.23	7117.23	7117.23	19.85	15.86	179.98	-0.30	-50.00	708.29	676.14	22.03	
7300.00	7216.38	7216.31	7216.27	20.11	16.08	180.18	2.19	-50.00	721.29	688.71	22.14	
7400.00	7315.92	7315.41	7315.08	20.33	16.30	180.75	9.58	-50.00	730.88	697.90	22.16	
7500.00	7415.73	7414.84	7414.14	20.53	16.52	181.42	18.24	-50.00	737.09	703.72	22.09	
7600.00	7515.69	7514.42	7513.34	20.69	16.74	182.09	26.92	-50.00	739.91	706.19	21.94	
7700.00	7615.69	7615.89	7614.47	20.84	16.96	272.71	34.96	-50.00	740.34	702.55	19.59	
7800.00	7715.46	7722.26	7720.51	20.87	17.13	103.64	28.73	-50.01	741.30	706.77	21.47	
7900.00	7812.91	7828.12	7823.10	20.45	17.28	103.01	3.21	-50.03	745.41	710.51	21.36	
8000.00	7905.07	7933.10	7918.48	19.67	17.45	101.96	-40.29	-50.06	752.69	717.37	21.31	
8100.00	7989.15	8036.92	8003.45	19.04	17.65	100.53	-99.70	-50.10	762.94	727.06	21.26	
8200.00	8062.59	8139.41	8075.48	19.18	17.93	98.80	-172.41	-50.15	775.88	739.19	21.15	
8300.00	8123.16	8240.52	8132.75	19.70	18.33	96.82	-255.58	-50.21	791.11	753.33	20.94	
8400.00	8169.02	8340.31	8174.09	20.42	18.86	94.67	-346.27	-50.26	808.19	769.00	20.62	
8500.00	8198.77	8438.93	8198.89	21.33	19.52	92.42	-441.60	-50.32	826.58	785.74	20.24	
8600.00	8211.53	8536.61	8207.00	22.43	20.29	90.15	-538.81	-50.38	845.73	803.06	19.82	



Weatherford Anticollision Report

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Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 3
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad
Reference Well: CD 15 Fed #3H Co-ordinate(NE) Reference: Well: CD 15 Fed #3H, Grid North
Reference Wellpath: Vertical (TVD) Reference: SITE 3408.0
Db: Sybase

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #1H
Wellpath: 1 V0 Plan: Plan #1 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset-Location		Ctr-Ctr Edge		Separation		Warning
MD ft	TVD ft	MD ft	TVD ft	Ref ft	Offset ft	TFO-HS deg	North ft	East ft	Distance ft	Distance ft	Factor	
8700.00	8212.00	8634.72	8207.00	23.59	21.20	89.66	-636.92	-50.44	865.04	820.35	19.35	
8800.00	8212.00	8732.84	8207.00	24.82	22.20	89.67	-735.04	-50.50	884.35	837.42	18.84	
8900.00	8212.00	8830.95	8207.00	26.14	23.30	89.68	-833.16	-50.56	903.67	854.32	18.31	
9000.00	8212.00	8929.07	8207.00	27.53	24.48	89.68	-931.28	-50.63	922.98	871.06	17.78	
9100.00	8212.00	9027.19	8207.00	28.98	25.73	89.69	-1029.39	-50.69	942.29	887.67	17.25	
9200.00	8212.00	9125.30	8207.00	30.48	27.04	89.70	-1127.51	-50.75	961.60	904.16	16.74	
9300.00	8212.00	9223.42	8207.00	32.03	28.41	89.70	-1225.63	-50.81	980.92	920.56	16.25	
9400.00	8212.00	9321.54	8207.00	33.62	29.82	89.71	-1323.75	-50.87	1000.23	936.87	15.79	
9500.00	8212.00	9419.66	8207.00	35.24	31.26	89.71	-1421.86	-50.93	1019.54	953.12	15.35	
9600.00	8212.00	9517.77	8207.00	36.89	32.75	89.72	-1519.98	-50.99	1038.85	969.29	14.93	
9700.00	8212.00	9615.89	8207.00	38.57	34.26	89.72	-1618.10	-51.05	1058.17	985.42	14.55	
9800.00	8212.00	9714.01	8207.00	40.26	35.79	89.73	-1716.21	-51.11	1077.48	1001.49	14.18	
9900.00	8212.00	9812.13	8207.00	41.98	37.36	89.73	-1814.33	-51.17	1096.79	1017.52	13.84	
10000.00	8212.00	9910.24	8207.00	43.72	38.94	89.74	-1912.45	-51.23	1116.10	1033.52	13.51	
10100.00	8212.00	10008.36	8207.00	45.47	40.53	89.74	-2010.57	-51.29	1135.42	1049.48	13.21	
10200.00	8212.00	10106.48	8207.00	47.23	42.15	89.75	-2108.68	-51.35	1154.73	1065.42	12.93	
10300.00	8212.00	10204.60	8207.00	49.00	43.77	89.75	-2206.80	-51.41	1174.04	1081.32	12.66	
10400.00	8212.00	10302.71	8207.00	50.79	45.41	89.76	-2304.92	-51.47	1193.35	1097.21	12.41	
10500.00	8212.00	10400.83	8207.00	52.59	47.06	89.76	-2403.04	-51.53	1212.67	1113.07	12.18	
10600.00	8212.00	10498.95	8207.00	54.39	48.72	89.76	-2501.15	-51.59	1231.98	1128.92	11.95	
10700.00	8212.00	10597.06	8207.00	56.21	50.39	89.77	-2599.27	-51.65	1251.29	1144.74	11.74	
10800.00	8212.00	10695.18	8207.00	58.03	52.07	89.77	-2697.39	-51.71	1270.61	1160.56	11.55	
10900.00	8212.00	10793.30	8207.00	59.86	53.76	89.77	-2795.51	-51.77	1289.92	1176.36	11.36	
11000.00	8212.00	10891.42	8207.00	61.69	55.45	89.78	-2893.62	-51.83	1309.23	1192.14	11.18	
11100.00	8212.00	10989.53	8207.00	63.53	57.14	89.78	-2991.74	-51.89	1328.54	1207.92	11.01	
11200.00	8212.00	11087.65	8207.00	65.37	58.85	89.78	-3089.86	-51.95	1347.86	1223.68	10.85	
11300.00	8212.00	11185.77	8207.00	67.22	60.56	89.79	-3187.98	-52.01	1367.17	1239.44	10.70	
11400.00	8212.00	11283.89	8207.00	69.07	62.27	89.79	-3286.09	-52.07	1386.48	1255.18	10.56	
11500.00	8212.00	11382.00	8207.00	70.93	63.99	89.79	-3384.21	-52.13	1405.79	1270.92	10.42	
11600.00	8212.00	11480.12	8207.00	72.79	65.71	89.80	-3482.33	-52.19	1425.11	1286.65	10.29	
11700.00	8212.00	11578.24	8207.00	74.65	67.43	89.80	-3580.44	-52.25	1444.42	1302.37	10.17	
11800.00	8212.00	11676.36	8207.00	76.52	69.16	89.80	-3678.56	-52.31	1463.73	1318.09	10.05	
11900.00	8212.00	11774.47	8207.00	78.39	70.89	89.80	-3776.68	-52.37	1483.04	1333.80	9.94	
12000.00	8212.00	11872.59	8207.00	80.26	72.62	89.81	-3874.80	-52.43	1502.36	1349.51	9.83	
12100.00	8212.00	11970.71	8207.00	82.14	74.36	89.81	-3972.91	-52.49	1521.67	1365.21	9.73	
12200.00	8212.00	12068.83	8207.00	84.02	76.10	89.81	-4071.03	-52.55	1540.98	1380.90	9.63	
12300.00	8212.00	12166.94	8207.00	85.89	77.84	89.81	-4169.15	-52.61	1560.30	1396.59	9.53	
12400.00	8212.00	12265.06	8207.00	87.78	79.59	89.82	-4267.27	-52.67	1579.61	1412.28	9.44	
12500.00	8212.00	12363.18	8207.00	89.66	81.33	89.82	-4365.38	-52.73	1598.92	1427.96	9.35	
12600.00	8212.00	12461.29	8207.00	91.54	83.08	89.82	-4463.50	-52.79	1618.23	1443.64	9.27	
12700.00	8212.00	12559.41	8207.00	93.43	84.83	89.82	-4561.62	-52.85	1637.55	1459.32	9.19	
12764.48	8212.00	12622.68	8207.00	94.65	85.96	89.82	-4624.89	-52.89	1650.00	1469.43	9.14	

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #2H
Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
0.00	0.00	0.00	0.00	0.00	0.00	269.54	-0.80	-100.10	100.10			No Data
100.00	100.00	100.00	100.00	0.08	0.08	269.54	-0.80	-100.10	100.10	99.93	593.82	
200.00	200.00	200.00	200.00	0.31	0.31	269.54	-0.80	-100.10	100.10	99.49	161.95	



Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 4
 Field: Eddy Co. NM (NAD 83)
 Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well: CD 15 Fed #3H Grid North
 Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE:3408.0
 Reference Wellpath: Db: Sybase

Site: Cotton Draw 15 Fed Pad
 Well: CD 15 Fed #2H
 Wellpath: 1 V0 Plan: Plan #2 V1

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr	Edge	Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
300.00	300.00	300.00	300.00	0 53	0 53	269.54	-0.80	-100.10	100.10	99.04	93.76	
400.00	400.00	400.00	400.00	0 76	0 76	269.54	-0.80	-100.10	100.10	98.59	65.98	
500.00	500.00	500.00	500.00	0 98	0 98	269.54	-0.80	-100.10	100.10	98.14	50.90	
600.00	600.00	600.00	600.00	1 21	1.21	269.54	-0.80	-100.10	100.10	97.69	41.43	
700.00	700.00	700.00	700.00	1 43	1.43	269.54	-0.80	-100.10	100.10	97.24	34.93	
800.00	800.00	800.00	800.00	1 66	1.66	269.54	-0.80	-100.10	100.10	96.79	30.19	
900.00	900.00	900.00	900.00	1 88	1.88	269.54	-0.80	-100.10	100.10	96.34	26.59	
1000.00	1000.00	1000.00	1000.00	2 11	2.11	269.54	-0.80	-100.10	100.10	95.89	23.75	
1100.00	1100.00	1100.00	1100.00	2 33	2.33	269.54	-0.80	-100.10	100.10	95.44	21.46	
1200.00	1200.00	1200.00	1200.00	2 56	2.56	269.54	-0.80	-100.10	100.10	94.99	19.58	
1300.00	1300.00	1300.00	1300.00	2 78	2.78	269.54	-0.80	-100.10	100.10	94.54	17.99	
1400.00	1400.00	1400.00	1400.00	3 01	3.01	269.54	-0.80	-100.10	100.10	94.09	16.65	
1500.00	1500.00	1500.00	1500.00	3 23	3.23	269.54	-0.80	-100.10	100.10	93.64	15.49	
1600.00	1600.00	1600.00	1600.00	3 46	3.46	269.54	-0.80	-100.10	100.10	93.19	14.48	
1700.00	1700.00	1700.00	1700.00	3 68	3.68	269.54	-0.80	-100.10	100.10	92.74	13.60	
1800.00	1800.00	1800.00	1800.00	3 91	3.91	269.54	-0.80	-100.10	100.10	92.29	12.82	
1900.00	1900.00	1900.00	1900.00	4 13	4.13	269.54	-0.80	-100.10	100.10	91.84	12.12	
2000.00	2000.00	2000.00	2000.00	4 35	4.35	269.54	-0.80	-100.10	100.10	91.39	11.49	
2100.00	2100.00	2100.00	2100.00	4 58	4.58	269.54	-0.80	-100.10	100.10	90.94	10.93	
2200.00	2200.00	2200.00	2200.00	4 80	4.80	269.54	-0.80	-100.10	100.10	90.49	10.42	
2300.00	2300.00	2300.00	2300.00	5 03	5.03	269.54	-0.80	-100.10	100.10	90.04	9.95	
2400.00	2400.00	2400.00	2400.00	5 25	5.25	269.54	-0.80	-100.10	100.10	89.60	9.53	
2500.00	2500.00	2500.00	2500.00	5 48	5.48	269.54	-0.80	-100.10	100.10	89.15	9.14	
2600.00	2600.00	2600.00	2600.00	5 70	5.70	269.54	-0.80	-100.10	100.10	88.70	8.78	
2700.00	2700.00	2700.00	2700.00	5 93	5.93	269.54	-0.80	-100.10	100.10	88.25	8.44	
2800.00	2800.00	2800.00	2800.00	6 15	6.15	269.54	-0.80	-100.10	100.10	87.80	8.13	
2900.00	2900.00	2900.00	2900.00	6 38	6.38	269.54	-0.80	-100.10	100.10	87.35	7.85	
3000.00	3000.00	3000.00	3000.00	6 60	6.60	269.54	-0.80	-100.10	100.10	86.90	7.58	
3100.00	3100.00	3100.00	3100.00	6 83	6.83	269.54	-0.80	-100.10	100.10	86.45	7.33	
3200.00	3200.00	3200.00	3200.00	7 05	7.05	269.54	-0.80	-100.10	100.10	86.00	7.10	
3300.00	3300.00	3300.00	3300.00	7 28	7.28	269.54	-0.80	-100.10	100.10	85.55	6.88	
3400.00	3400.00	3400.00	3400.00	7 50	7.50	269.54	-0.80	-100.10	100.10	85.10	6.67	
3500.00	3500.00	3500.00	3500.00	7 73	7.73	269.54	-0.80	-100.10	100.10	84.65	6.48	
3600.00	3600.00	3600.00	3600.00	7 95	7.95	269.54	-0.80	-100.10	100.10	84.20	6.29	
3700.00	3700.00	3700.00	3700.00	8 18	8.18	269.54	-0.80	-100.10	100.10	83.75	6.12	
3800.00	3800.00	3800.00	3800.00	8 40	8.40	269.54	-0.80	-100.10	100.10	83.30	5.96	
3900.00	3900.00	3900.00	3900.00	8 63	8.63	269.54	-0.80	-100.10	100.10	82.85	5.80	
4000.00	4000.00	4000.00	4000.00	8 85	8.85	269.54	-0.80	-100.10	100.10	82.40	5.66	
4100.00	4100.00	4100.00	4100.00	9 07	9.07	269.54	-0.80	-100.10	100.10	81.95	5.52	
4200.00	4200.00	4200.00	4200.00	9 30	9.30	269.54	-0.80	-100.10	100.10	81.50	5.38	
4300.00	4300.00	4300.00	4300.00	9 52	9.52	269.54	-0.80	-100.10	100.10	81.05	5.26	
4400.00	4400.00	4400.00	4400.00	9 75	9.75	269.54	-0.80	-100.10	100.10	80.60	5.13	
4500.00	4499.92	4493.05	4492.98	9 97	9.96	179.57	-0.80	-103.12	106.84	86.95	5.37	
4600.00	4599.35	4583.64	4583.13	10 20	10.16	179.63	-0.80	-111.86	126.84	106.64	6.28	
4700.00	4697.81	4669.56	4667.97	10 43	10.36	179.69	-0.80	-125.39	159.51	139.08	7.81	
4800.00	4794.88	4749.15	4745.71	10 68	10.56	179.74	-0.80	-142.44	203.75	183.13	9.88	
4900.00	4891.47	4832.08	4825.87	10 95	10.78	179.79	-0.80	-163.68	253.48	232.49	12.07	
5000.00	4988.06	4918.68	4909.52	11 24	11.02	179.83	-0.80	-186.10	303.48	282.06	14.17	
5100.00	5084.66	5005.29	4993.17	11 55	11.28	179.85	-0.80	-208.51	353.48	331.63	16.18	
5200.00	5181.25	5091.89	5076.82	11 88	11.55	179.87	-0.80	-230.92	403.48	381.20	18.11	
5300.00	5277.84	5178.49	5160.47	12 22	11.83	179.88	-0.80	-253.34	453.48	430.76	19.96	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 5
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well: CD 15 Fed #3H, Grid North
Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
Reference Wellpath: Db: Sybase

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #2H
Wellpath: 1 V0 Plan. Plan #2 V1

Inter-Site Error: 0.00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr. Edge		Separation	Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
5400.00	5374.43	5265.09	5244.12	12.57	12.12	179.89	-0.80	-275.75	503.48	480.32	21.74	
5500.00	5471.03	5351.70	5327.78	12.93	12.43	179.90	-0.80	-298.17	553.48	529.87	23.44	
5600.00	5567.62	5438.30	5411.43	13.31	12.74	179.91	-0.80	-320.58	603.48	579.42	25.08	
5700.00	5664.21	5524.90	5495.08	13.70	13.06	179.92	-0.80	-343.00	653.48	628.96	26.65	
5800.00	5760.80	5611.50	5578.73	14.10	13.39	179.92	-0.80	-365.41	703.48	678.50	28.17	
5900.00	5857.40	5698.11	5662.38	14.50	13.73	179.93	-0.80	-387.83	753.48	728.04	29.62	
6000.00	5953.99	5784.71	5746.03	14.92	14.08	179.93	-0.80	-410.24	803.48	777.58	31.02	
6100.00	6050.58	5871.31	5829.69	15.34	14.43	179.94	-0.80	-432.65	853.48	827.11	32.37	
6200.00	6147.18	5957.91	5913.34	15.77	14.79	179.94	-0.80	-455.07	903.48	876.64	33.66	
6300.00	6243.77	6044.52	5996.99	16.20	15.15	179.94	-0.80	-477.48	953.48	926.16	34.91	
6400.00	6340.36	6131.12	6080.64	16.64	15.52	179.95	-0.80	-499.90	1003.48	975.69	36.11	
6500.00	6436.95	6217.72	6164.29	17.09	15.90	179.95	-0.80	-522.31	1053.48	1025.21	37.27	
6600.00	6533.55	6304.32	6247.94	17.54	16.28	179.95	-0.80	-544.73	1103.48	1074.73	38.38	
6700.00	6630.14	6390.93	6331.60	17.99	16.66	179.95	-0.80	-567.14	1153.48	1124.25	39.46	
6800.00	6726.73	6477.53	6415.25	18.45	17.05	179.96	-0.80	-589.55	1203.48	1173.76	40.50	
6900.00	6823.36	6564.19	6498.96	18.90	17.45	179.96	-0.80	-611.98	1253.37	1223.16	41.48	
7000.00	6920.60	6652.10	6583.87	19.25	17.85	179.96	-0.80	-634.74	1301.03	1270.32	42.36	
7100.00	7018.60	6741.61	6670.33	19.57	18.26	179.96	-0.80	-657.90	1345.60	1314.41	43.14	
7200.00	7117.23	6832.63	6758.25	19.85	18.68	179.96	-0.80	-681.46	1387.01	1355.36	43.81	
7300.00	7216.38	6986.37	6907.40	20.11	19.27	179.97	-0.80	-718.68	1423.89	1391.61	44.10	
7400.00	7315.92	7179.30	7097.00	20.33	19.85	179.97	-0.80	-754.17	1451.59	1418.66	44.08	
7500.00	7415.73	7380.14	7296.44	20.53	20.33	179.97	-0.80	-777.48	1469.19	1435.70	43.87	
7600.00	7515.69	7585.45	7501.50	20.69	20.70	179.97	-0.80	-786.80	1476.29	1442.34	43.49	
7700.00	7615.69	7699.65	7615.69	20.84	20.87	269.97	-0.80	-786.94	1476.45	1434.74	35.40	
7800.00	7715.46	7770.12	7686.07	20.87	20.90	100.91	-3.59	-787.51	1478.30	1443.57	42.57	
7900.00	7812.91	7835.92	7751.03	20.45	20.73	100.35	-13.67	-789.56	1485.62	1450.50	42.30	
8000.00	7905.07	7901.55	7814.21	19.67	20.39	99.40	-30.92	-793.08	1498.34	1462.77	42.13	
8100.00	7989.15	7966.96	7874.77	19.04	19.88	98.07	-55.05	-798.00	1516.10	1479.98	41.97	
8200.00	8062.59	8032.17	7931.96	19.18	19.35	96.41	-85.68	-804.24	1538.47	1501.59	41.72	
8300.00	8123.16	8097.30	7985.17	19.70	19.02	94.44	-122.42	-811.74	1564.87	1527.04	41.36	
8400.00	8169.02	8162.53	8033.86	20.42	19.07	92.23	-164.91	-820.40	1594.69	1555.68	40.88	
8500.00	8198.77	8228.20	8077.57	21.33	19.31	89.84	-212.88	-830.18	1627.24	1586.87	40.31	
8600.00	8211.53	8294.81	8115.90	22.43	19.66	87.35	-266.21	-841.06	1661.78	1619.98	39.75	
8700.00	8212.00	8365.19	8149.25	23.59	20.13	87.72	-326.90	-853.43	1697.84	1654.34	39.03	
8800.00	8212.00	8444.27	8177.34	24.82	20.76	88.76	-399.25	-868.19	1735.28	1689.83	38.18	
8900.00	8212.00	8530.51	8196.08	26.14	21.57	89.44	-481.66	-884.99	1773.45	1725.85	37.26	
9000.00	8212.00	8620.79	8202.00	27.53	22.54	89.66	-569.84	-902.97	1811.87	1761.96	36.31	
9100.00	8212.00	8713.09	8202.00	28.98	23.54	89.66	-660.28	-921.41	1850.34	1797.98	35.34	
9200.00	8212.00	8805.40	8202.00	30.48	24.62	89.67	-750.72	-939.85	1888.81	1833.87	34.38	
9300.00	8212.00	8897.70	8202.00	32.03	25.76	89.68	-841.17	-958.30	1927.28	1869.65	33.44	
9400.00	8212.00	8990.00	8202.00	33.62	26.95	89.68	-931.61	-976.74	1965.75	1905.33	32.54	
9500.00	8212.00	9082.31	8202.00	35.24	28.20	89.69	-1022.05	-995.18	2004.22	1940.94	31.67	
9600.00	8212.00	9174.61	8202.00	36.89	29.48	89.70	-1112.49	-1013.62	2042.69	1976.47	30.85	
9700.00	8212.00	9266.92	8202.00	38.57	30.80	89.70	-1202.94	-1032.07	2081.16	2011.94	30.06	
9800.00	8212.00	9359.22	8202.00	40.26	32.16	89.71	-1293.38	-1050.51	2119.63	2047.35	29.32	
9900.00	8212.00	9451.52	8202.00	41.98	33.54	89.71	-1383.82	-1068.95	2158.10	2082.71	28.63	
10000.00	8212.00	9543.83	8202.00	43.72	34.95	89.72	-1474.26	-1087.39	2196.57	2118.04	27.97	
10100.00	8212.00	9636.13	8202.00	45.47	36.38	89.72	-1564.71	-1105.84	2235.04	2153.32	27.35	
10200.00	8212.00	9728.44	8202.00	47.23	37.83	89.73	-1655.15	-1124.28	2273.51	2188.57	26.77	
10300.00	8212.00	9820.74	8202.00	49.00	39.30	89.73	-1745.59	-1142.72	2311.98	2223.80	26.22	
10400.00	8212.00	9913.04	8202.00	50.79	40.78	89.74	-1836.04	-1161.16	2350.45	2258.99	25.70	



Weatherford Anticollision Report

**Weatherford**

Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 6
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well, CD 15 Fed #3H, Grid North
Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
Reference Wellpath: Db: Sybase

Site: Cotton Draw 15 Fed Pad
Well: CD 15 Fed #2H
Wellpath: 1 V0 Plan. Plan #2 V1

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge Separation		Warning	
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance		Distance
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
10500.00	8212.00	10005.35	8202.00	52.59	42.28	89.74	-1926.48	-1179.60	2388.92	2294.17	25.21
10600.00	8212.00	10097.65	8202.00	54.39	43.79	89.74	-2016.92	-1198.05	2427.39	2329.32	24.75
10700.00	8212.00	10189.96	8202.00	56.21	45.31	89.75	-2107.36	-1216.49	2465.86	2364.45	24.31
10800.00	8212.00	10282.26	8202.00	58.03	46.84	89.75	-2197.81	-1234.93	2504.33	2399.56	23.90
10900.00	8212.00	10374.56	8202.00	59.86	48.38	89.76	-2288.25	-1253.37	2542.80	2434.66	23.51
11000.00	8212.00	10466.87	8202.00	61.69	49.93	89.76	-2378.69	-1271.82	2581.27	2469.74	23.14
11100.00	8212.00	10559.17	8202.00	63.53	51.49	89.76	-2469.14	-1290.26	2619.74	2504.81	22.79
11200.00	8212.00	10651.48	8202.00	65.37	53.06	89.77	-2559.58	-1308.70	2658.21	2539.87	22.46
11300.00	8212.00	10743.78	8202.00	67.22	54.63	89.77	-2650.02	-1327.14	2696.68	2574.92	22.15
11400.00	8212.00	10836.08	8202.00	69.07	56.21	89.77	-2740.46	-1345.59	2735.15	2609.96	21.85
11500.00	8212.00	10928.39	8202.00	70.93	57.79	89.78	-2830.91	-1364.03	2773.62	2644.99	21.56
11600.00	8212.00	11020.69	8202.00	72.79	59.38	89.78	-2921.35	-1382.47	2812.10	2680.01	21.29
11700.00	8212.00	11112.99	8202.00	74.65	60.97	89.78	-3011.79	-1400.91	2850.57	2715.02	21.03
11800.00	8212.00	11205.30	8202.00	76.52	62.56	89.79	-3102.23	-1419.35	2889.04	2750.02	20.78
11900.00	8212.00	11297.60	8202.00	78.39	64.16	89.79	-3192.68	-1437.80	2927.51	2785.02	20.55
12000.00	8212.00	11389.91	8202.00	80.26	65.77	89.79	-3283.12	-1456.24	2965.98	2820.02	20.32
12100.00	8212.00	11482.21	8202.00	82.14	67.38	89.79	-3373.56	-1474.68	3004.45	2855.00	20.10
12200.00	8212.00	11574.51	8202.00	84.02	68.99	89.80	-3464.01	-1493.12	3042.92	2889.98	19.90
12300.00	8212.00	11666.82	8202.00	85.89	70.60	89.80	-3554.45	-1511.57	3081.39	2924.96	19.70
12400.00	8212.00	11759.12	8202.00	87.78	72.22	89.80	-3644.89	-1530.01	3119.86	2959.93	19.51
12500.00	8212.00	11851.43	8202.00	89.66	73.83	89.80	-3735.33	-1548.45	3158.33	2994.90	19.33
12600.00	8212.00	11943.73	8202.00	91.54	75.46	89.81	-3825.78	-1566.89	3196.80	3029.86	19.15
12700.00	8212.00	12036.03	8202.00	93.43	77.08	89.81	-3916.22	-1585.34	3235.27	3064.82	18.98
12764.48	8212.00	12095.56	8202.00	94.65	78.13	89.81	-3974.54	-1597.23	3260.08	3087.36	18.88

Site: Cotton Draw Unit 10 Fed #1H
Well: 10 Fed #1H
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis			Offset Location		Ctr-Ctr Edge Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
0.00	0.00	49308.53	-6.54	0.00	8.82	330.02	666.14	-384.29	769.04	761.80	106.28
100.00	100.00	102.28	102.28	0.08	0.02	330.05	665.84	-383.70	768.52	768.43	7717.38
200.00	200.00	205.35	205.34	0.31	0.10	330.10	665.03	-382.47	767.25	766.86	1960.66
300.00	300.00	310.14	310.10	0.53	0.16	330.13	663.64	-381.18	765.50	764.82	1131.05
400.00	400.00	422.05	421.98	0.76	0.22	330.11	660.80	-379.76	762.67	761.71	795.50
500.00	500.00	537.48	537.27	0.98	0.27	330.03	655.52	-378.02	757.94	756.71	614.23
600.00	600.00	644.12	643.67	1.21	0.31	329.88	648.66	-376.26	751.53	750.03	501.02
700.00	700.00	739.64	738.98	1.43	0.34	329.74	642.39	-374.83	745.11	743.35	423.65
800.00	800.00	833.12	832.29	1.66	0.37	329.60	637.04	-373.73	739.56	737.55	366.92
900.00	900.00	930.67	929.71	1.88	0.41	329.47	631.98	-372.78	734.60	732.33	322.95
1000.00	1000.00	1029.88	1028.79	2.11	0.45	329.32	626.89	-371.89	729.73	727.19	287.14
1100.00	1100.00	1127.27	1126.05	2.33	0.50	329.18	622.20	-371.14	725.19	722.37	257.22
1200.00	1200.00	1226.99	1225.67	2.56	0.56	329.05	617.52	-370.34	720.75	717.65	232.21
1300.00	1300.00	1325.07	1323.64	2.78	0.62	328.93	613.15	-369.49	716.48	713.09	211.29
1400.00	1400.00	1423.03	1421.52	3.01	0.68	328.82	609.11	-368.59	712.48	708.80	193.60
1500.00	1500.00	1520.96	1519.37	3.23	0.74	328.73	605.43	-367.64	708.76	704.79	178.50
1600.00	1600.00	1619.31	1617.66	3.46	0.81	328.66	602.09	-366.61	705.31	701.05	165.46
1700.00	1700.00	1718.33	1716.63	3.68	0.88	328.62	599.01	-365.34	702.00	697.44	154.07
1800.00	1800.00	1815.77	1814.02	3.91	0.94	328.60	596.40	-363.99	698.99	694.14	144.13
1900.00	1900.00	1916.19	1914.39	4.13	1.01	328.60	593.85	-362.53	696.06	690.92	135.29

Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 7
 Field: Eddy Co. NM (NAD 83)
 Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well: CD 15 Fed #3H, Grid North
 Reference Well: CD 15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
 Reference Wellpath: Db: Sybase

Site: Cotton Draw Unit 10 Fed #1H
 Well: 10 Fed #1H
 Wellpath: 1 V0

Inter-Site Error: 0.00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset TFO-HS	Major Axis deg	Offset Location North	Offset Location East	Ctr-Ctr Edge Distance	Edge Distance	Separation Factor	Warning
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
2000.00	2000.00	2013.95	2012.12	4.35	1.08	328.60	591.54	-361.12	693.29	687.85	127.48	
2100.00	2100.00	2112.27	2110.40	4.58	1.15	328.60	589.50	-359.79	690.82	685.08	120.51	
2200.00	2200.00	2212.66	2210.77	4.80	1.22	328.62	587.55	-358.38	688.43	682.40	114.22	
2300.00	2300.00	2314.98	2313.05	5.03	1.29	328.64	585.43	-356.75	685.83	679.51	108.48	
2400.00	2400.00	2418.45	2416.48	5.25	1.36	328.66	582.86	-354.92	682.79	676.18	103.17	
2500.00	2500.00	2520.30	2518.27	5.48	1.43	328.65	579.74	-353.19	679.28	672.37	98.27	
2600.00	2600.00	2617.91	2615.82	5.70	1.50	328.61	576.68	-351.92	675.93	668.73	93.83	
2700.00	2700.00	2718.94	2716.79	5.93	1.57	328.53	573.35	-350.91	672.59	665.10	89.73	
2800.00	2800.00	2817.70	2815.49	6.15	1.63	328.44	569.98	-350.17	669.29	661.51	85.97	
2900.00	2900.00	2916.56	2914.29	6.38	1.70	328.35	566.82	-349.44	666.19	658.11	82.51	
3000.00	3000.00	3017.42	3015.10	6.60	1.77	328.31	563.91	-348.18	663.08	654.71	79.25	
3100.00	3100.00	3118.28	3115.91	6.83	1.83	328.34	561.29	-346.15	659.81	651.15	76.19	
3200.00	3200.00	3217.73	3215.29	7.05	1.89	328.46	559.22	-343.27	656.51	647.57	73.38	
3300.00	3300.00	3315.42	3312.91	7.28	1.95	328.63	557.66	-339.95	653.38	644.16	70.82	
3400.00	3400.00	3408.38	3405.84	7.50	2.00	328.79	556.72	-337.31	651.04	641.54	68.52	
3500.00	3500.00	3503.84	3501.27	7.73	2.05	328.90	556.20	-335.47	649.58	639.81	66.45	
3600.00	3600.00	3603.31	3600.74	7.95	2.10	328.99	555.84	-334.08	648.55	638.50	64.54	
3700.00	3700.00	3718.78	3716.14	8.18	2.16	329.21	554.73	-330.55	646.12	635.80	62.58	
3800.00	3800.00	3822.13	3819.38	8.40	2.22	329.46	552.95	-326.21	642.51	631.90	60.58	
3900.00	3900.00	3933.95	3931.05	8.63	2.30	329.68	549.66	-321.51	637.86	626.95	58.47	
4000.00	4000.00	4051.73	4048.49	8.85	2.41	329.88	543.27	-315.20	630.44	619.21	56.14	
4100.00	4100.00	4150.49	4146.82	9.07	2.47	330.03	536.39	-309.27	621.41	609.90	53.98	
4200.00	4200.00	4239.95	4236.02	9.30	2.51	330.12	530.94	-305.04	613.77	601.99	52.12	
4300.00	4300.00	4331.73	4327.63	9.52	2.56	330.16	526.27	-301.90	607.65	595.59	50.41	
4400.00	4400.00	4427.63	4423.40	9.75	2.62	330.17	522.09	-299.34	602.53	590.19	48.82	
4500.00	4499.92	4526.22	4521.87	9.97	2.69	239.79	518.00	-296.86	599.43	586.80	47.47	
4600.00	4599.35	4622.05	4617.62	10.20	2.75	239.02	514.53	-294.62	600.45	587.55	46.53	
4700.00	4697.81	4718.95	4714.44	10.43	2.82	237.85	511.39	-292.48	605.70	592.52	45.98	
4800.00	4794.88	4813.24	4808.67	10.68	2.88	236.31	508.74	-290.58	615.49	602.05	45.79	
4900.00	4891.47	4909.02	4904.40	10.95	2.95	234.43	506.43	-288.68	627.39	613.63	45.62	
5000.00	4988.06	5004.71	5000.06	11.24	3.01	232.65	504.42	-286.72	640.17	626.10	45.50	
5100.00	5084.66	5101.24	5096.55	11.55	3.08	230.93	502.63	-284.68	653.72	639.33	45.42	
5200.00	5181.25	5196.70	5191.98	11.88	3.14	229.32	501.08	-282.65	668.01	653.29	45.38	
5300.00	5277.84	5292.58	5287.82	12.22	3.21	227.77	499.72	-280.68	683.04	667.99	45.38	
5400.00	5374.43	5389.31	5384.53	12.57	3.27	226.27	498.46	-278.76	698.69	683.30	45.42	
5500.00	5471.03	5483.87	5479.06	12.93	3.33	224.87	497.36	-276.99	714.97	699.25	45.48	
5600.00	5567.62	5579.62	5574.79	13.31	3.40	223.52	496.45	-275.39	731.97	715.92	45.59	
5700.00	5664.21	5676.49	5671.65	13.70	3.46	222.21	495.62	-273.82	749.46	733.07	45.72	
5800.00	5760.80	5772.88	5768.03	14.10	3.52	220.97	494.80	-272.27	767.35	750.62	45.87	
5900.00	5857.40	5867.48	5862.61	14.50	3.58	219.80	494.06	-270.92	785.75	768.69	46.04	
6000.00	5953.99	5961.80	5956.92	14.92	3.65	218.68	493.43	-269.89	804.82	787.42	46.24	
6100.00	6050.58	6058.24	6053.36	15.34	3.71	217.57	492.84	-269.09	824.42	806.69	46.49	
6200.00	6147.18	6155.42	6150.53	15.77	3.78	216.49	492.01	-268.37	844.24	826.18	46.73	
6300.00	6243.77	6251.79	6246.89	16.20	3.84	215.45	490.95	-267.83	864.36	845.97	47.01	
6400.00	6340.36	6348.35	6343.44	16.64	3.90	214.44	489.66	-267.50	884.79	866.09	47.30	
6500.00	6436.95	6446.75	6441.84	17.09	3.96	213.44	488.18	-267.20	905.43	886.42	47.62	
6600.00	6533.55	6545.07	6540.13	17.54	4.02	212.47	486.37	-266.80	926.06	906.75	47.95	
6700.00	6630.14	6641.21	6636.26	17.99	4.08	211.56	484.54	-266.42	946.90	927.29	48.28	
6800.00	6726.73	6736.08	6731.11	18.45	4.14	210.70	482.78	-266.12	968.08	948.16	48.61	
6900.00	6823.36	6830.21	6825.23	18.90	4.19	209.83	481.25	-266.00	989.62	969.42	49.00	
7000.00	6920.60	6926.46	6921.47	19.25	4.24	208.91	479.65	-266.08	1009.33	988.87	49.34	



Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 8
 Field: Eddy Co., NM (NAD:83)
 Reference Site: Cotton Draw 15 Fed Pad Co-ordinate(NE) Reference: Well: CD-15 Fed #3H; Grid North
 Reference Well: CD-15 Fed #3H Vertical (TVD) Reference: SITE 3408.0
 Reference Wellpath: Db: Sybase

Site: Cotton Draw Unit 10 Fed #1H
 Well: 10 Fed #1H
 Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference MD	Reference TVD	Offset MD	Offset TVD	Semi-Major Axis Ref	Offset TFO-HS	Offset Location North	Offset Location East	Ctr-Ctr Edge Distance	Separation Distance	Warning
ft	ft	ft	ft	ft	deg	ft	ft	ft	ft	
7100 00	7018 60	7023 84	7018 83	19 57	4 29	208 13	478 03	-266 22	1026 23 1005.53	49 58
7200 00	7117 23	7121 14	7116 12	19 85	4 34	207 50	476 58	-266 39	1040 28 1019.35	49 71
7300 00	7216 38	7218 69	7213 66	20 11	4 39	207 01	475 33	-266 61	1051 48 1030.35	49 78
7400 00	7315 92	7318 23	7313 19	20 33	4 43	206 63	473 99	-266 95	1059 68 1038.38	49 74
7500 00	7415 73	7419 12	7414 08	20 53	4 48	206 37	472 67	-267 21	1064 74 1043.26	49 57
7600 00	7515 69	7522 44	7517 39	20 69	4 53	206 22	471 24	-267 34	1066 54 1044.92	49 31
7700 00	7615 69	7605 79	7600 72	20 84	4 62	296 22	471 15	-266 99	1066 29 1041.94	43 79
7800 00	7715 46	7667 90	7662 64	20 87	5 01	127 26	475 78	-266 40	1071 93 1049.73	48 28
7900 00	7812 91	7719 00	7713 02	20 45	5 71	126 53	484 18	-265 71	1091 81 1069 35	48 62
8000 00	7905 07	7764 27	7756 92	19 67	6 53	124 82	495 16	-264 91	1126 20 1103 52	49 64
8100 00	7989 15	7797 08	7788 10	19 04	7 30	121 47	505 33	-264 11	1174 45 1151 42	51 00
8200 00	8062 59	7819 35	7808 86	19 18	7 83	115 88	513 34	-263 39	1234 93 1211 19	52 01
8300 00	8123 16	7831 85	7820 37	19 70	8 11	107 41	518 20	-262 93	1305 20 1280.15	52 10
8400 00	8169 02	7835 31	7823 54	20 42	8 19	95 78	519 59	-262 80	1382 31 1355 64	51 83
8500 00	8198 77	7831 35	7819 92	21 33	8 10	81 81	518 00	-262 95	1463 16 1435 53	52 96
8600 00	8211 53	7821 41	7810 76	22 43	7 88	67 63	514 13	-263 32	1544 78 1517 69	57 03
8700 00	8212 00	7813 00	7802 98	23 59	7 69	64 29	510 97	-263 61	1625 98 1598 48	59 13
8800 00	8212 00	7797 94	7788 91	24 82	7 32	63 55	505 62	-264 08	1708 79 1680 45	60 28
8900 00	8212 00	7781 00	7772 90	26 14	6 90	62 72	500 10	-264 53	1793 24 1764 06	61 46
9000 00	8212 00	7781 00	7772 90	27 53	6 90	62 72	500 10	-264 53	1878 97 1848 50	61 67
9100 00	8212 00	7771 66	7764 00	28 98	6 69	62 27	497 28	-264 75	1965 96 1934 38	62 26
9200 00	8212 00	7764 50	7757 14	30 48	6 53	61 92	495 23	-264 91	2054 03 2021 26	62 68
9300 00	8212 00	7750 00	7743 17	32 03	6 21	61 21	491 35	-265 19	2143 13 2109 36	63 46
9400 00	8212 00	7750 00	7743 17	33 62	6 21	61 21	491 35	-265 19	2232 96 2197 75	63 43
9500 00	8212 00	7750 00	7743 17	35 24	6 21	61 21	491 35	-265 19	2323 62 2286 96	63 37
9600 00	8212 00	7739 85	7733 34	36 89	6 05	60 72	488 84	-265 37	2414 94 2377 05	63 73
9700 00	8212 00	7734 30	7727 95	38 57	5 96	60 45	487 54	-265 47	2506 87 2467 63	63 88
9800 00	8212 00	7729 13	7722 91	40 26	5 87	60 20	486 36	-265 55	2599 36 2558 75	64 00
9900 00	8212 00	7719 00	7713 02	41 98	5 71	59 71	484 18	-265 71	2692 37 2650 53	64 34
10000 00	8212 00	7719 00	7713 02	43 72	5 71	59 71	484 18	-265 71	2785 78 2742 40	64 22
10100 00	8212 00	7719 00	7713 02	45 47	5 71	59 71	484 18	-265 71	2879 64 2834 71	64 09
10200 00	8212 00	7719 00	7713 02	47 23	5 71	59 71	484 18	-265 71	2973 89 2927 40	63 97
10300 00	8212 00	7719 00	7713 02	49 00	5 71	59 71	484 18	-265 71	3068 51 3020 45	63 84
10400 00	8212 00	7705 85	7700 13	50 79	5 51	59 09	481 59	-265 91	3163 30 3114 09	64 28
10500 00	8212 00	7702 87	7697 20	52 59	5 46	58 95	481 05	-265 95	3258 47 3207 78	64 28
10600 00	8212 00	7700 05	7694 43	54 39	5 42	58 81	480 54	-265 99	3353 91 3301 73	64 28
10700 00	8212 00	7688 00	7682 54	56 21	5 24	58 24	478 55	-266 15	3449 68 3396 34	64 68
10800 00	8212 00	7688 00	7682 54	58 03	5 24	58 24	478 55	-266 15	3545 55 3490 63	64 56
10900 00	8212 00	7688 00	7682 54	59 86	5 24	58 24	478 55	-266 15	3641 64 3585 12	64 44
11000 00	8212 00	7688 00	7682 54	61 69	5 24	58 24	478 55	-266 15	3737 94 3679 82	64 32
11100 00	8212 00	7688 00	7682 54	63 53	5 24	58 24	478 55	-266 15	3834 43 3774 71	64 21
11200 00	8212 00	7688 00	7682 54	65 37	5 24	58 24	478 55	-266 15	3931 09 3869 76	64 10
11300 00	8212 00	7688 00	7682 54	67 22	5 24	58 24	478 55	-266 15	4027 91 3964 98	64 00
11400 00	8212 00	7688 00	7682 54	69 07	5 24	58 24	478 55	-266 15	4124 89 4060 34	63 90
11500 00	8212 00	7688 00	7682 54	70 93	5 24	58 24	478 55	-266 15	4222 01 4155 84	63 80
11600 00	8212 00	7688 00	7682 54	72 79	5 24	58 24	478 55	-266 15	4319 26 4251 47	63 71
11700 00	8212 00	7688 00	7682 54	74 65	5 24	58 24	478 55	-266 15	4416 63 4347 21	63 62
11800 00	8212 00	7674 99	7669 66	76 52	5 09	57 63	476 68	-266 32	4513 97 4443 45	64 01
11900 00	8212 00	7673 43	7668 12	78 39	5 07	57 56	476 48	-266 34	4611 53 4539 45	63 98
12000 00	8212 00	7671 93	7666 63	80 26	5 06	57 49	476 28	-266 36	4709 18 4635 55	63 95
12100 00	8212 00	7670 49	7665 21	82 14	5 04	57 42	476 10	-266 37	4806 93 4731 74	63 93



Weatherford Anticollision Report



Company: Devon Energy Date: 8/7/2012 Time: 12:42:08 Page: 9
Field: Eddy Co., NM (NAD 83)
Reference Site: Cotton Draw 15 Fed Pad
Reference Well: CD 15 Fed #3H
Reference Wellpath: Co-ordinate(NE) Reference: Well CD 15 Fed #3H, Grid North
Vertical (TVD) Reference: SITE 3408.0
Db: Sybase

Site: Cotton Draw Unit 10 Fed #1H
Well: 10 Fed #1H
Wellpath: 1 V0

Inter-Site Error: 0 00 ft

Reference		Offset		Semi-Major Axis		Offset Location		Ctr-Ctr Edge		Separation		Warning
MD	TVD	MD	TVD	Ref	Offset	TFO-HS	North	East	Distance	Distance	Factor	
ft	ft	ft	ft	ft	ft	deg	ft	ft	ft	ft		
12200 00	8212 00	7669 10	7663.83	84 02	5 02	57 36	475 93	-266.39	4904 77	4828 01	63 90	
12300 00	8212 00	7656 00	7650.81	85 89	4 88	56 75	474 46	-266 55	5002 81	4925.01	64 31	
12400 00	8212 00	7656 00	7650 81	87 78	4.88	56 75	474.46	-266 55	5100 78	5021 37	64 23	
12500 00	8212 00	7656 00	7650 81	89 66	4 88	56 75	474 46	-266 55	5198 83	5117 79	64 16	
12600 00	8212 00	7656 00	7650 81	91 54	4.88	56 75	474.46	-266 55	5296 95	5214.29	64 09	
12700 00	8212 00	7656 00	7650 81	93 43	4 88	56 75	474 46	-266.55	5395 14	5310.86	64 02	
12764 48	8212 00	7656 00	7650.81	94 65	4 88	56.75	474 46	-266.55	5458 49	5373 17	63 97	

**Weatherford®****Weatherford Drilling Services**

GeoDec v5.03

Report Date: June 14, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Cotton Draw 15 Fed #3H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM
Block: _____
Engineer: RWJ

US State Plane 1983	Geodetic Latitude / Longitude
System: New Mexico Eastern Zone	System: Latitude / Longitude
Projection: Transverse Mercator/Gauss Kruger	Projection: Geodetic Latitude and Longitude
Datum: North American Datum 1983	Datum: North American Datum 1983
Ellipsoid: GRS 1980	Ellipsoid: GRS 1980
North/South 413963.100 USFT	Latitude 32.1367812 DEG
East/West 717683.700 USFT	Longitude -103.7636094 DEG
Grid Convergence: 30°	
Total Correction: +7.17°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.13678° N	32° 8 min 12.412 sec
Longitude =	103.76361° W	103° 45 min 48.994 sec

Magnetic Declination =	7.47°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6522
Local Field Strength =	48406 nT	Magnetic Vector X = 23973 nT
Magnetic Dip =	60.03°	Magnetic Vector Y = 3145 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 41935 nT
Spud Date =	Jan 15, 2013	Magnetic Vector H = 24178 nT

Signed: _____

Date: _____