



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #7H

EDDY COUNTY, NM

WELL FILE: PLAN 1

APRIL 26, 2010

Weatherford International, Ltd.

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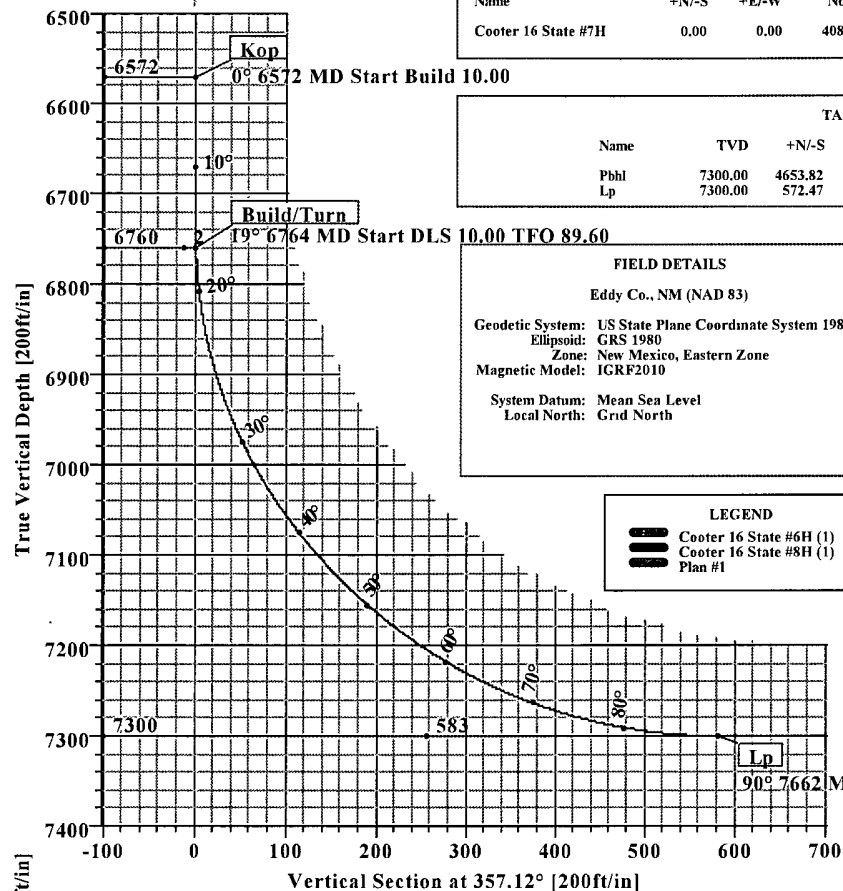
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www.weatherford.com

devon

COOTER 16 STATE #7H EDDY CO., NFW MEXICO

KB ELEV: 3045
GL ELEV: 3020



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	6571.83	0.00	0.00	6571.83	0.00	0.00	0.00	0.00	0.00	
3	6763.76	19.19	270.25	6760.19	0.14	-31.85	10.00	270.25	1.74	
4	7662.33	90.00	359.82	7300.00	572.47	-221.50	10.00	89.60	582.87	Lp
5	11743.70	90.00	359.82	7300.00	4653.82	-234.08	0.00	-0.42	4659.71	Pbhl

WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cooter 16 State #7H	0.00	0.00	408887.89	649665.76	32°07'25.054N	103°59'00.271W

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7300.00	4653.82	-234.08	413541.72	649431.68	Point
Lp	7300.00	572.47	-221.50	409460.36	649444.26	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

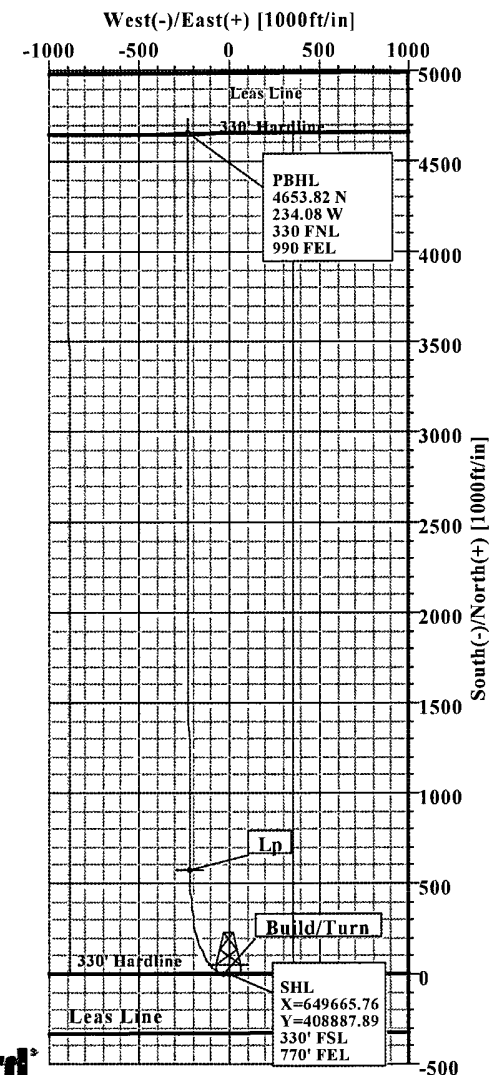
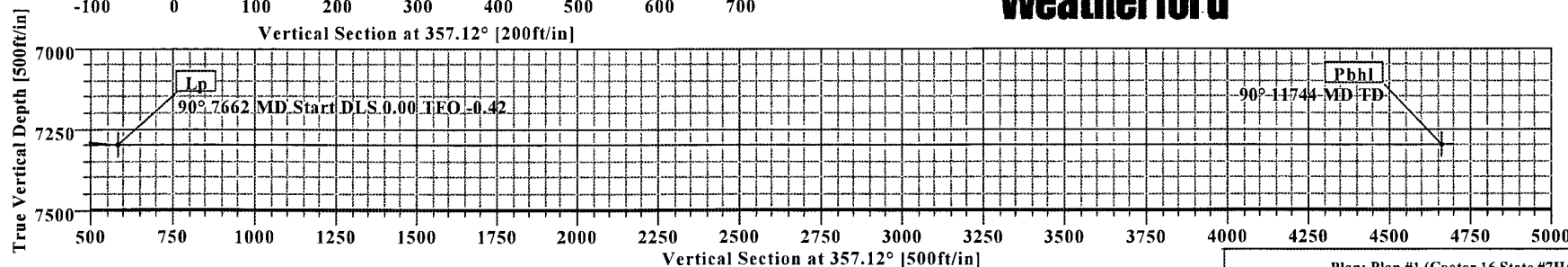
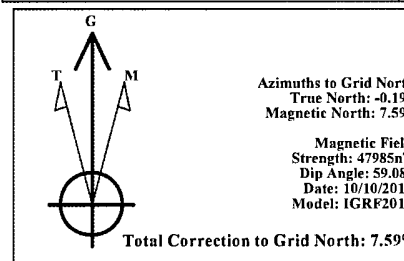
SITE DETAILS
Cooter 16 State #7H

Site Centre Northing: 408887.89
Easting: 649665.76

Ground Level: 3020.00
Positional Uncertainty: 0.00
Convergence: 0.19

LEGEND

- Cooter 16 State #6H (1)
- Cooter 16 State #8H (1)
- Plan #1



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 4/26/2010 Time: 13:27:29 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well, Cooter 16 State #7H, Grid North
Site: Cooter 16 State #7H Vertical (TVD) Reference: SITE 3045.0
Well: Cooter 16 State #7H Section (VS) Reference: Well (0.00N,0.00E,357.12Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Field: Eddy Co., NM (NAD 83)

Map System: US State Plane Coordinate System 1983
Geo Datum: GRS 1980
Sys Datum: Mean Sea Level

Map Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Cooter 16 State #7H

Site Position: Northing: 408887.89 ft Latitude: 32 7 25 054 N
From: Map Easting: 649665.76 ft Longitude: 103 59 0.271 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 3020.00 ft Grid Convergence: 0.19 deg

Well: Cooter 16 State #7H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 408887.89 ft Latitude: 32 7 25.054 N
+E/-W 0.00 ft Easting: 649665.76 ft Longitude: 103 59 0.271 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.77 deg
Mag Dip Angle: 59.08 deg
+E/-W Direction
ft deg

Current Datum: SITE Height 3045.00 ft
Magnetic Data: 10/10/2010
Field Strength: 47985 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00 0.00 357.12

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	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6571.83	0.00	0.00	6571.83	0.00	0.00	0.00	0.00	0.00	0.00	
6763.76	19.19	270.25	6760.19	0.14	-31.85	10.00	10.00	0.00	270.25	
7662.33	90.00	359.82	7300.00	572.47	-221.50	10.00	7.88	9.97	89.60	Lp
11743.70	90.00	359.82	7300.00	4653.82	-234.08	0.00	0.00	0.00	-0.42	Pbhl

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
6500.00	0.00	0.00	6500.00	0.00	0.00	0.00	0.00	408887.89	649665.76	
6571.83	0.00	0.00	6571.83	0.00	0.00	0.00	0.00	408887.89	649665.76	Kop
6600.00	2.82	270.25	6599.99	0.00	-0.69	0.04	10.00	408887.90	649665.07	
6700.00	12.82	270.25	6698.93	0.06	-14.28	0.78	10.00	408887.96	649651.48	
6763.76	19.19	270.25	6760.19	0.14	-31.85	1.74	10.00	408888.03	649633.91	Build/Turn
6800.00	19.54	281.14	6794.39	1.33	-43.76	3.53	10.00	408889.23	649622.01	
6900.00	23.46	306.51	6887.61	16.45	-76.25	20.26	10.00	408904.34	649589.51	
7000.00	30.19	323.08	6976.92	48.48	-107.44	53.81	10.00	408936.37	649558.32	
7100.00	38.27	333.64	7059.61	96.45	-136.37	103.17	10.00	408984.34	649529.39	
7200.00	46.99	340.88	7133.15	158.90	-162.16	166.84	10.00	409046.79	649503.60	
7300.00	56.06	346.28	7195.33	233.93	-184.03	242.88	10.00	409121.83	649481.73	
7400.00	65.32	350.62	7244.25	319.27	-201.32	328.98	10.00	409207.17	649464.44	
7500.00	74.69	354.36	7278.41	412.33	-213.50	422.53	10.00	409300.22	649452.26	
7600.00	84.11	357.77	7296.80	510.26	-220.19	520.68	10.00	409398.16	649445.57	
7662.33	90.00	359.82	7300.00	572.47	-221.50	582.87	10.00	409460.36	649444.26	Lp
7700.00	90.00	359.82	7300.00	610.14	-221.62	620.50	0.00	409498.03	649444.14	
7800.00	90.00	359.82	7300.01	710.14	-221.92	720.39	0.00	409598.03	649443.84	
7900.00	90.00	359.82	7300.02	810.14	-222.23	820.28	0.00	409698.03	649443.53	
8000.00	90.00	359.82	7300.03	910.14	-222.54	920.17	0.00	409798.03	649443.22	
8100.00	90.00	359.82	7300.03	1010.14	-222.85	1020.05	0.00	409898.03	649442.91	



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy Date: 4/26/2010 Time: 13:27:29 Page: 2
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: Cooter 16 State #7H, Grid North
Site: Cooter 16 State #7H Vertical (TVD) Reference: SITE 3045.0
Well: Cooter 16 State #7H Section (VS) Reference: Well (0.00N,0.00E,357.12Azi)
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
8200.00	90.00	359.82	7300.04	1110.13	-223.16	1119.94	0.00	409998.03	649442.60	
8300.00	90.00	359.82	7300.05	1210.13	-223.47	1219.83	0.00	410098.03	649442.30	
8400.00	90.00	359.82	7300.05	1310.13	-223.77	1319.72	0.00	410198.03	649441.99	
8500.00	90.00	359.82	7300.06	1410.13	-224.08	1419.61	0.00	410298.03	649441.68	
8600.00	90.00	359.82	7300.06	1510.13	-224.39	1519.50	0.00	410398.03	649441.37	
8700.00	90.00	359.82	7300.07	1610.13	-224.70	1619.39	0.00	410498.03	649441.06	
8800.00	90.00	359.82	7300.07	1710.13	-225.01	1719.28	0.00	410598.03	649440.75	
8900.00	90.00	359.82	7300.07	1810.13	-225.31	1819.16	0.00	410698.03	649440.45	
9000.00	90.00	359.82	7300.08	1910.13	-225.62	1919.05	0.00	410798.02	649440.14	
9100.00	90.00	359.82	7300.08	2010.13	-225.93	2018.94	0.00	410898.02	649439.83	
9200.00	90.00	359.82	7300.08	2110.13	-226.24	2118.83	0.00	410998.02	649439.52	
9300.00	90.00	359.82	7300.08	2210.13	-226.55	2218.72	0.00	411098.02	649439.21	
9400.00	90.00	359.82	7300.08	2310.13	-226.86	2318.61	0.00	411198.02	649438.91	
9500.00	90.00	359.82	7300.09	2410.13	-227.16	2418.50	0.00	411298.02	649438.60	
9600.00	90.00	359.82	7300.09	2510.13	-227.47	2518.39	0.00	411398.02	649438.29	
9700.00	90.00	359.82	7300.09	2610.13	-227.78	2618.27	0.00	411498.02	649437.98	
9800.00	90.00	359.82	7300.09	2710.13	-228.09	2718.16	0.00	411598.02	649437.67	
9900.00	90.00	359.82	7300.09	2810.13	-228.40	2818.05	0.00	411698.02	649437.36	
10000.00	90.00	359.82	7300.08	2910.13	-228.71	2917.94	0.00	411798.02	649437.06	
10100.00	90.00	359.82	7300.08	3010.13	-229.01	3017.83	0.00	411898.02	649436.75	
10200.00	90.00	359.82	7300.08	3110.13	-229.32	3117.72	0.00	411998.02	649436.44	
10300.00	90.00	359.82	7300.08	3210.12	-229.63	3217.61	0.00	412098.02	649436.13	
10400.00	90.00	359.82	7300.08	3310.12	-229.94	3317.50	0.00	412198.02	649435.82	
10500.00	90.00	359.82	7300.07	3410.12	-230.25	3417.38	0.00	412298.02	649435.51	
10600.00	90.00	359.82	7300.07	3510.12	-230.55	3517.27	0.00	412398.02	649435.21	
10700.00	90.00	359.82	7300.07	3610.12	-230.86	3617.16	0.00	412498.02	649434.90	
10800.00	90.00	359.82	7300.06	3710.12	-231.17	3717.05	0.00	412598.02	649434.59	
10900.00	90.00	359.82	7300.06	3810.12	-231.48	3816.94	0.00	412698.02	649434.28	
11000.00	90.00	359.82	7300.05	3910.12	-231.79	3916.83	0.00	412798.02	649433.97	
11100.00	90.00	359.82	7300.05	4010.12	-232.10	4016.72	0.00	412898.02	649433.66	
11200.00	90.00	359.82	7300.04	4110.12	-232.40	4116.61	0.00	412998.01	649433.36	
11300.00	90.00	359.82	7300.03	4210.12	-232.71	4216.49	0.00	413098.01	649433.05	
11400.00	90.00	359.82	7300.03	4310.12	-233.02	4316.38	0.00	413198.01	649432.74	
11500.00	90.00	359.82	7300.02	4410.12	-233.33	4416.27	0.00	413298.01	649432.43	
11600.00	90.00	359.82	7300.01	4510.12	-233.64	4516.16	0.00	413398.01	649432.12	
11700.00	90.00	359.82	7300.00	4610.12	-233.95	4616.05	0.00	413498.01	649431.81	
11743.70	90.00	359.82	7300.00	4653.82	-234.08	4659.71	0.00	413541.72	649431.68	Pbhl

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg. Min Sec			<--- Longitude ---> Deg Min Sec		
Pbhl			7300.00	4653.82	-234.08	413541.72	649431.68	32	8	11.116 N	103	59	2.818 W
Lp			7300.00	572.47	-221.50	409460.36	649444.26	32	7	30.726 N	103	59	2.825 W



Weatherford International Ltd.
WFT Plan Report - X & Y's



Company:	Devon Energy	Date:	4/26/2010	Time:	13:27:29	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cooter 16 State #7H, Grid North				
Site:	Cooter 16 State #7H	Vertical (TVD) Reference:	SITE 3045.0				
Well:	Cooter 16 State #7H	Section (VS) Reference:	Well (0.00N,0.00E,357.12Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature			Db:	Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6571.83	6571.83	Kop
6763.76	6760.19	Build/Turn
7662.33	7300.00	Lp
11743.70	7300.00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: April 26, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cooter 16 State #7H
API Number: _____
Rig Name: _____
Location: Eddy Co, NM
Block: _____
Engineer: R Joyner

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 408887.890 USFT	Latitude 32.1236283 DEG
East/West 649665.760 USFT	Longitude -103.9834045 DEG
Grid Convergence: .19°	
Total Correction: +7.67°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.12363° N	32° 7 min 25.062 sec
Longitude =	103.98340° W	103° 59 min .256 sec

Magnetic Declination =	7.86°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6594
Local Field Strength =	48607 nT	Magnetic Vector X = 24046 nT
Magnetic Dip =	60.04°	Magnetic Vector Y = 3320 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42111 nT
Spud Date =	Sep 10, 2010	Magnetic Vector H = 24274 nT

Signed: _____

Date: _____