



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #6H

EDDY COUNTY, NM

WELL FILE: PLAN 1

APRIL 26, 2010

Weatherford International, Ltd.

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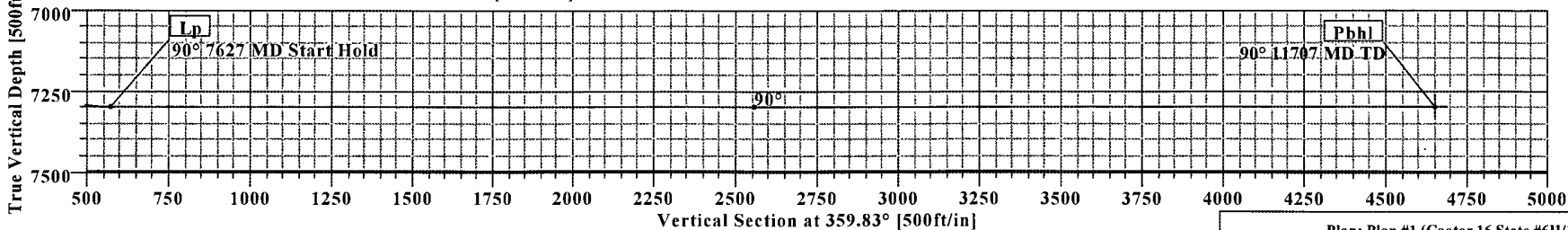
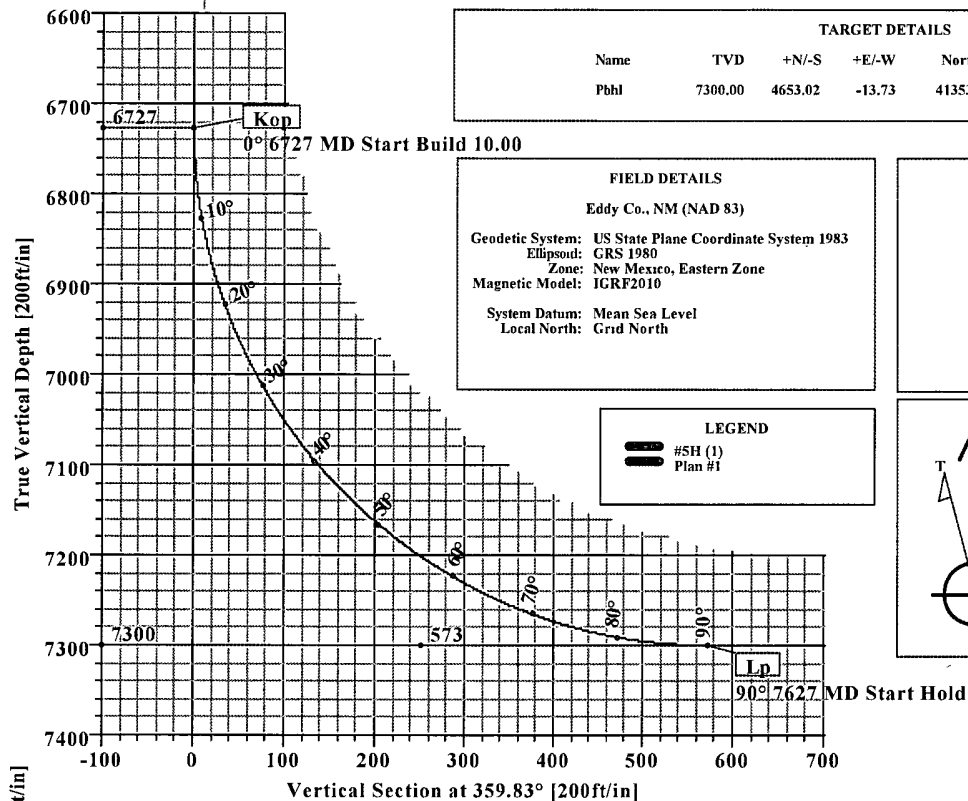
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**COOTER 16 STATE #6H
EDDY CO., NEW MEXICO**

KB ELEV: 2999
GL ELEV: 2974



SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.83	0.00	0.00	0.00	0.00	0.00	0.00	
2	6727.04	0.00	359.83	6727.04	0.00	0.00	0.00	0.00	0.00	
3	7627.04	90.00	359.83	7300.00	572.96	-1.69	10.00	359.83	572.96	
4	11707.12	90.00	359.83	7300.00	4653.02	-13.73	0.00	0.00	4653.04	Pbhl

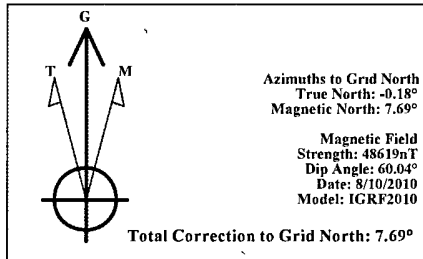
WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cooter 16 State #6H	0.00	0.00	408886.93	648785.41	32°07'25.072N	103°59'10.509W	N/A

TARGET DETAILS						
Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7300.00	4653.02	-13.73	413539.94	648771.69	Point

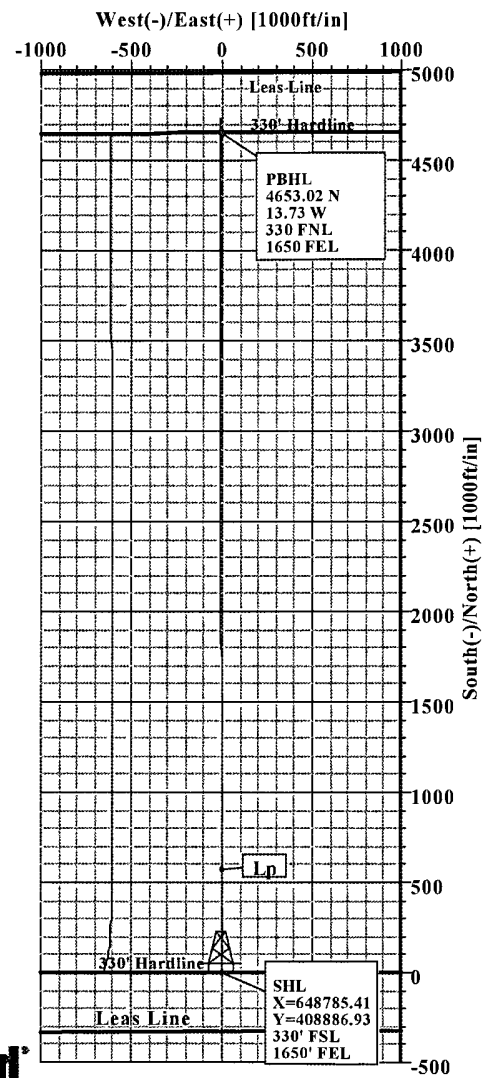
FIELD DETAILS
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS
Cooter 16 State #6H
Site Centre Northing: 408886.93
Easting: 648785.41
Ground Level: 2974.00
Positional Uncertainty: 0.00
Convergence: 0.18

LEGEND
#5H (1)
Plan #1



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Plan: Plan #1 (Cooter 16 State #6H/1)
Credited By: Russell W Joyner
Date: 4/26/2010



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Cooter 16 State #6H
Well: Cooter 16 State #6H
Wellpath: 1

Date: 4/26/2010
Co-ordinate(NE) Reference: Well: Cooter 16 State #6H, Grid North
Vertical (TVD) Reference: SITE 2999.0
Section (VS) Reference: Well (0.00N,0.00E,359.83Azi)
Survey Calculation Method: Minimum Curvature
Page: 1
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 #6H

Site Position: Northing: 408886.93 ft Latitude: 32 7 25.072 N
From: Map Easting: 648785.41 ft Longitude: 103 59 10.509 W
Position Uncertainty: 0.00 ft North Reference: Grid
Ground Level: 2974.00 ft Grid Convergence: 0.18 deg

Well: Cooter 16 State #6H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 408886.93 ft Latitude: 32 7 25.072 N
+E/-W 0.00 ft Easting: 648785.41 ft Longitude: 103 59 10.509 W
Position Uncertainty: 0.00 ft

Wellpath: 1

Drilled From: Surface
Tie-on Depth: 0.00 ft
Above System Datum: Mean Sea Level
Declination: 7.87 deg
Mag Dip Angle: 60 04 deg
+E/-W Direction deg

Current Datum: SITE Height 2999.00 ft
Magnetic Data: 8/10/2010
Field Strength: 48619 nT
Vertical Section: Depth From (TVD) +N/-S
ft ft
0.00 0.00

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	359.83	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6727.04	0.00	359.83	6727.04	0.00	0.00	0.00	0.00	0.00	0.00	
7627.04	90.00	359.83	7300.00	572.96	-1.69	10.00	10.00	0.00	359.83	
11707.12	90.00	359.83	7300.00	4653.02	-13.73	0.00	0.00	0.00	0.00	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
6700.00	0.00	359.83	6700.00	0.00	0.00	0.00	0.00	408886.93	648785.41	
6727.04	0.00	359.83	6727.04	0.00	0.00	0.00	0.00	408886.93	648785.41	Kop
6800.00	7.30	359.83	6799.80	4.64	-0.01	4.64	10.00	408891.56	648785.40	
6900.00	17.30	359.83	6897.39	25.91	-0.08	25.91	10.00	408912.83	648785.34	
7000.00	27.30	359.83	6989.79	63.80	-0.19	63.80	10.00	408950.72	648785.22	
7100.00	37.30	359.83	7074.21	117.16	-0.35	117.16	10.00	409004.09	648785.07	
7200.00	47.30	359.83	7148.09	184.37	-0.54	184.37	10.00	409071.30	648784.87	
7300.00	57.30	359.83	7209.17	263.39	-0.78	263.39	10.00	409150.31	648784.64	
7400.00	67.30	359.83	7255.60	351.81	-1.04	351.81	10.00	409238.74	648784.38	
7500.00	77.30	359.83	7285.97	446.95	-1.32	446.95	10.00	409333.88	648784.09	
7600.00	87.30	359.83	7299.36	545.92	-1.61	545.93	10.00	409432.85	648783.80	
7627.04	90.00	359.83	7300.00	572.96	-1.69	572.96	10.00	409459.88	648783.72	Lp
7700.00	90.00	359.83	7300.00	645.91	-1.91	645.92	0.00	409532.84	648783.51	
7800.00	90.00	359.83	7300.00	745.91	-2.20	745.92	0.00	409632.84	648783.21	
7900.00	90.00	359.83	7300.00	845.91	-2.50	845.92	0.00	409732.84	648782.92	
8000.00	90.00	359.83	7300.00	945.91	-2.79	945.92	0.00	409832.84	648782.62	
8100.00	90.00	359.83	7300.00	1045.91	-3.09	1045.92	0.00	409932.84	648782.33	
8200.00	90.00	359.83	7300.00	1145.91	-3.38	1145.92	0.00	410032.84	648782.03	
8300.00	90.00	359.83	7300.00	1245.91	-3.68	1245.92	0.00	410132.84	648781.74	
8400.00	90.00	359.83	7300.00	1345.91	-3.97	1345.92	0.00	410232.84	648781.44	



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy
Field: Eddy Co. NM (NAD 83)
Site: Cooter 16 State #6H
Well: Cooter 16 State #6H
Wellpath: 1

Date: 4/26/2010
Co-ordinate(NE) Reference: Well: Cooter 16 State #6H Grid North
Vertical (TVD) Reference: SITE 2999.0
Section (VS) Reference: Well (0.00N,0.00E,359.83Azi)
Survey Calculation Method: Minimum Curvature
Page: 2
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
8500.00	90.00	359.83	7300.00	1445.91	-4.27	1445.92	0.00	410332.84	648781.15	
8600.00	90.00	359.83	7300.00	1545.91	-4.56	1545.92	0.00	410432.83	648780.85	
8700.00	90.00	359.83	7300.00	1645.91	-4.86	1645.92	0.00	410532.83	648780.56	
8800.00	90.00	359.83	7300.00	1745.91	-5.15	1745.92	0.00	410632.83	648780.26	
8900.00	90.00	359.83	7300.00	1845.91	-5.45	1845.92	0.00	410732.83	648779.97	
9000.00	90.00	359.83	7300.00	1945.91	-5.74	1945.92	0.00	410832.83	648779.67	
9100.00	90.00	359.83	7300.00	2045.91	-6.04	2045.92	0.00	410932.83	648779.38	
9200.00	90.00	359.83	7300.00	2145.91	-6.33	2145.92	0.00	411032.83	648779.08	
9300.00	90.00	359.83	7300.00	2245.91	-6.63	2245.92	0.00	411132.83	648778.79	
9400.00	90.00	359.83	7300.00	2345.91	-6.92	2345.92	0.00	411232.83	648778.49	
9500.00	90.00	359.83	7300.00	2445.90	-7.22	2445.92	0.00	411332.83	648778.20	
9600.00	90.00	359.83	7300.00	2545.90	-7.51	2545.92	0.00	411432.83	648777.90	
9700.00	90.00	359.83	7300.00	2645.90	-7.81	2645.92	0.00	411532.83	648777.61	
9800.00	90.00	359.83	7300.00	2745.90	-8.10	2745.92	0.00	411632.83	648777.31	
9900.00	90.00	359.83	7300.00	2845.90	-8.40	2845.92	0.00	411732.83	648777.02	
10000.00	90.00	359.83	7300.00	2945.90	-8.69	2945.92	0.00	411832.83	648776.72	
10100.00	90.00	359.83	7300.00	3045.90	-8.99	3045.92	0.00	411932.83	648776.43	
10200.00	90.00	359.83	7300.00	3145.90	-9.28	3145.92	0.00	412032.83	648776.13	
10300.00	90.00	359.83	7300.00	3245.90	-9.58	3245.92	0.00	412132.83	648775.84	
10400.00	90.00	359.83	7300.00	3345.90	-9.87	3345.92	0.00	412232.83	648775.54	
10500.00	90.00	359.83	7300.00	3445.90	-10.17	3445.92	0.00	412332.83	648775.25	
10600.00	90.00	359.83	7300.00	3545.90	-10.46	3545.92	0.00	412432.83	648774.95	
10700.00	90.00	359.83	7300.00	3645.90	-10.76	3645.92	0.00	412532.83	648774.66	
10800.00	90.00	359.83	7300.00	3745.90	-11.05	3745.92	0.00	412632.83	648774.36	
10900.00	90.00	359.83	7300.00	3845.90	-11.35	3845.92	0.00	412732.82	648774.07	
11000.00	90.00	359.83	7300.00	3945.90	-11.64	3945.92	0.00	412832.82	648773.77	
11100.00	90.00	359.83	7300.00	4045.90	-11.94	4045.92	0.00	412932.82	648773.48	
11200.00	90.00	359.83	7300.00	4145.90	-12.23	4145.92	0.00	413032.82	648773.18	
11300.00	90.00	359.83	7300.00	4245.90	-12.53	4245.92	0.00	413132.82	648772.89	
11400.00	90.00	359.83	7300.00	4345.90	-12.82	4345.92	0.00	413232.82	648772.59	
11500.00	90.00	359.83	7300.00	4445.90	-13.12	4445.92	0.00	413332.82	648772.30	
11600.00	90.00	359.83	7300.00	4545.90	-13.41	4545.92	0.00	413432.82	648772.00	
11700.00	90.00	359.83	7300.00	4645.90	-13.71	4645.92	0.00	413532.82	648771.71	
11707.12	90.00	359.83	7300.00	4653.02	-13.73	4653.04	0.00	413539.94	648771.69	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	4653.02	-13.73	413539.94	648771.69	32 8 11.119 N	103 59 10.494 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6727.04	6727.04	Kop
7627.04	7300.00	Lp
11707.12	7300.00	Pbhl



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



Company:	Devon Energy	Date:	4/26/2010	Time:	12:47:38	Page:	3
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cooter 16 State #6H, Grid North				
Site:	Cooter 16 State #6H	Vertical (TVD) Reference:	SITE 2999.0				
Well:	Cooter 16 State #6H	Section (VS) Reference:	Well (0.00N,0.00E,359.83Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature		Db: Sybase		

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 #6H
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 408886.930 USFT	Latitude 32.1236335 DEG
East/West 648785.410 USFT	Longitude -103.9862482 DEG
Grid Convergence: .18°	
Total Correction: +7.69°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.12363° N	32° 7 min 25.080 sec
Longitude =	103.98625° W	103° 59 min 10.494 sec

Magnetic Declination =	7.87°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6608
Local Field Strength =	48615 nT	Magnetic Vector X = 24049 nT
Magnetic Dip =	60.04°	Magnetic Vector Y = 3325 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42119 nT
Spud Date =	Aug 10, 2010	Magnetic Vector H = 24277 nT

Signed: _____

Date: _____