



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #5H

EDDY COUNTY, NM

WELL FILE: PLAN 1

APRIL 26, 2010

Weatherford International, Ltd.

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BEFORE THE OIL CONSERVATION DIVISION

Santa Fe, New Mexico

(Consolidated Case No.'s 14502 & 14503) Exhibit No. 10

Submitted by:

DEVON ENERGY PRODUCTION COMPANY, L.P.

Hearing Date: July 8, 2010



devon

COOTER 16 STATE #5H
EDDY CO., NEW MEXICO

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DI-eg	TFace	VSec	Target
1	0.00	0.00	85.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6676.19	0.00	85.63	6676.19	0.00	0.00	0.00	85.63	0.00	0.00
3	6734.39	5.80	85.63	6734.20	0.22	2.92	10.00	85.63	0.25	0.25
4	7630.04	90.00	359.85	7300.00	573.32	58.70	10.00	-85.81	573.89	573.89
5	11708.12	90.00	359.85	7300.00	4651.38	47.75	0.00	0.00	0.00	4651.63 Pbl

WELL DETAILS

Name	+N/-S	+E/-W	North	East	Latitude	Longitude	Spot
#5H	0.00	0.00	408885.05	648125.16	32°07'25.075N	103°59'18.187W	N/A

TARGET DETAILS

Name	+N/-S	+E/-W	North	East	Shape
Pbl	7300.00	4651.38	47.75	413536.43	648172.91 Point
Lp	7300.00	573.42	58.70	409458.47	648163.86 Point

FIELD DETAILS

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

SITE DETAILS

Cooter 16 State #5H
Site Centre Northing: 408885.05
Easting: 648125.16
Ground Level: 2998.00
Positional Uncertainty: 0.00
Convergence: 0.18

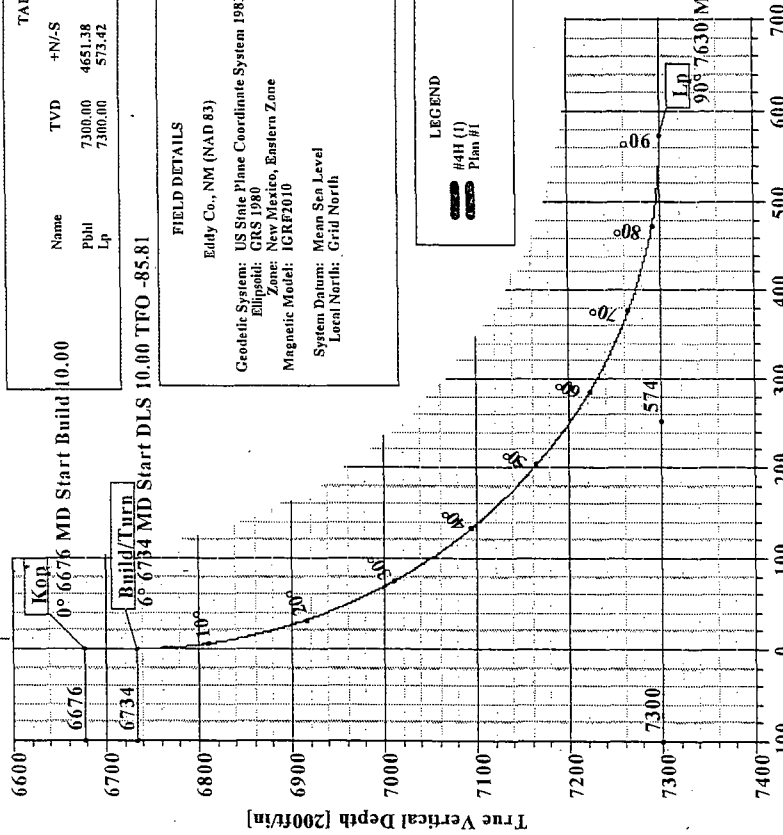
LEGEND
#4H (1)
Plan #1

Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.70°

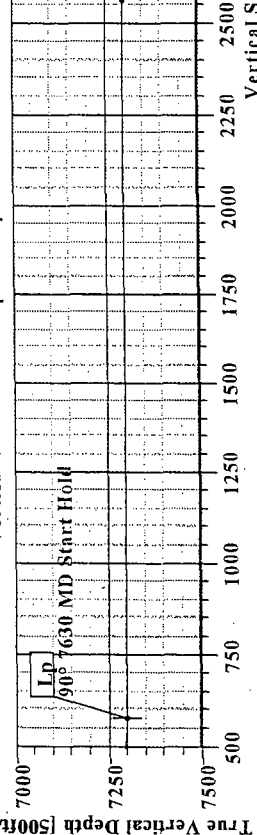
Magnetic Field
Strength: 48624 nT
Dip Angle: 60.04°
Date: 7/20/2010
Model: IGRF2010

Total Correction to Grid North: 7.70°

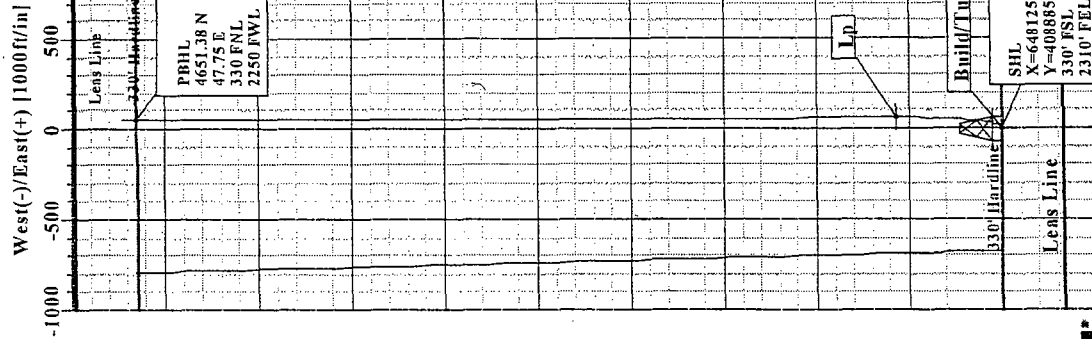
KB ELEV: 3023
GL ELEV: 2998



Vertical Section at 0.59° [200ft/in]



Vertical Section at 0.59° [500ft/in]



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Plan: Plan #1 (#5H/1)

Created By: Russell W Joyner

Date: 4/26/2010



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WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	4/26/2010	Time:	11:31:38	Page:	1
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #5H, Grid North				
Site:	Cooter 16 State #5H	Vertical (TVD) Reference:	SITE 3023.0				
Well:	#5H	Section (VS) Reference:	Well (0.00N,0.00E,0.59Azi)				
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 #5H

Site Position:		Northing:	408885.05 ft	Latitude:	32 7 25.075 N
From: Map		Easting:	648125.16 ft	Longitude:	103 59 18.187 W
Position Uncertainty:	0.00 ft			North Reference:	Grid
Ground Level:	2998.00 ft			Grid Convergence:	0.18 deg

Well: #5H

Slot Name:

Well Position:	+N/-S	0.00 ft	Northing:	408885.05 ft	Latitude:	32 7 25.075 N
	+E/-W	0.00 ft	Easting:	648125.16 ft	Longitude:	103 59 18.187 W
Position Uncertainty:		0.00 ft				

Wellpath: 1

Drilled From: Surface

Current Datum:	SITE	Height	3023.00 ft	Tie-on Depth:	0.00 ft
Magnetic Data:	7/20/2010			Above System Datum:	Mean Sea Level
Field Strength:	48624 nT			Declination:	7.88 deg
Vertical Section:	Depth From (TVD)	+N/-S		Mag Dip Angle:	60.04 deg
	ft	ft		+E/-W	Direction
				ft	deg
	0.00	0.00		0.00	0.59

Plan Section Information

MD	Incl	Azim	TVD	+N/-S	+E/-W	DLS	Build	Turn	TFO	Target
ft	deg	deg	ft	ft	ft	deg/100ft	deg/100ft	deg/100ft	deg	
0.00	0.00	85.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6676.29	0.00	85.63	6676.29	0.00	0.00	0.00	0.00	0.00	85.63	
6734.29	5.80	85.63	6734.20	0.22	2.92	10.00	10.00	0.00	85.63	
7630.04	90.00	359.85	7300.00	573.32	58.70	10.00	9.40	-9.58	-85.81	
11708.12	90.00	359.85	7300.00	4651.38	47.75	0.00	0.00	0.00	0.00	Pbhl

Survey

MD	Incl	Azim	TVD	N/S	E/W	VS	DLS	MapN	MapE	Comment
ft	deg	deg	ft	ft	ft	ft	deg/100ft	ft	ft	
6600.00	0.00	85.63	6600.00	0.00	0.00	0.00	0.00	408885.05	648125.16	
6676.29	0.00	85.63	6676.29	0.00	0.00	0.00	0.00	408885.05	648125.16	Kop
6700.00	2.37	85.63	6699.99	0.04	0.49	0.04	10.00	408885.09	648125.65	
6734.29	5.80	85.63	6734.20	0.22	2.92	0.25	10.00	408885.27	648128.08	Build/Turn
6800.00	9.07	39.24	6799.39	4.49	9.52	4.59	10.00	408889.54	648134.68	
6900.00	17.93	18.10	6896.59	25.28	19.31	25.47	10.00	408910.32	648144.47	
7000.00	27.56	11.04	6988.72	62.71	28.54	63.00	10.00	408947.76	648153.70	
7100.00	37.38	7.47	7072.99	115.65	36.94	116.02	10.00	409000.70	648162.09	
7200.00	47.27	5.22	7146.84	182.49	44.24	182.94	10.00	409067.54	648169.39	
7300.00	57.19	3.59	7208.02	261.21	50.22	261.71	10.00	409146.25	648175.38	
7400.00	67.12	2.30	7254.67	349.40	54.71	349.94	10.00	409234.45	648179.87	
7500.00	77.06	1.18	7285.38	444.39	57.57	444.96	10.00	409329.44	648182.73	
7600.00	87.01	0.15	7299.22	543.29	58.70	543.87	10.00	409428.34	648183.86	
7630.04	90.00	359.85	7300.00	573.32	58.70	573.89	10.00	409458.37	648183.86	Lp
7700.00	90.00	359.85	7300.00	643.28	58.51	643.85	0.00	409528.33	648183.67	
7800.00	90.00	359.85	7300.00	743.28	58.25	743.84	0.00	409628.33	648183.40	
7900.00	90.00	359.85	7300.00	843.28	57.98	843.83	0.00	409728.33	648183.14	
8000.00	90.00	359.85	7300.00	943.28	57.71	943.82	0.00	409828.33	648182.87	
8100.00	90.00	359.85	7300.00	1043.28	57.44	1043.81	0.00	409928.33	648182.60	
8200.00	90.00	359.85	7300.00	1143.28	57.17	1143.80	0.00	410028.33	648182.33	



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WFT Plan Report - X & Y's



Company:	Devon Energy	Date:	4/26/2010	Time:	11:31:38	Page:	2
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #5H, Grid North				
Site:	Cooter 16 State #5H	Vertical (TVD) Reference:	SITE 3023.0				
Well:	#5H	Section (VS) Reference:	Well: (0.00N;0.00E;0.59Azi)				
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
8300.00	90.00	359.85	7300.00	1243.28	56.90	1243.80	0.00	410128.32	648182.06	
8400.00	90.00	359.85	7300.00	1343.28	56.64	1343.79	0.00	410228.32	648181.79	
8500.00	90.00	359.85	7300.00	1443.28	56.37	1443.78	0.00	410328.32	648181.52	
8600.00	90.00	359.85	7300.00	1543.28	56.10	1543.77	0.00	410428.32	648181.26	
8700.00	90.00	359.85	7300.00	1643.28	55.83	1643.76	0.00	410528.32	648180.99	
8800.00	90.00	359.85	7300.00	1743.27	55.56	1743.75	0.00	410628.32	648180.72	
8900.00	90.00	359.85	7300.00	1843.27	55.29	1843.75	0.00	410728.32	648180.45	
9000.00	90.00	359.85	7300.00	1943.27	55.02	1943.74	0.00	410828.32	648180.18	
9100.00	90.00	359.85	7300.00	2043.27	54.76	2043.73	0.00	410928.32	648179.91	
9200.00	90.00	359.85	7300.00	2143.27	54.49	2143.72	0.00	411028.32	648179.64	
9300.00	90.00	359.85	7300.00	2243.27	54.22	2243.71	0.00	411128.32	648179.38	
9400.00	90.00	359.85	7300.00	2343.27	53.95	2343.70	0.00	411228.32	648179.11	
9500.00	90.00	359.85	7300.00	2443.27	53.68	2443.69	0.00	411328.32	648178.84	
9600.00	90.00	359.85	7300.00	2543.27	53.41	2543.69	0.00	411428.32	648178.57	
9700.00	90.00	359.85	7300.00	2643.27	53.14	2643.68	0.00	411528.32	648178.30	
9800.00	90.00	359.85	7300.00	2743.27	52.88	2743.67	0.00	411628.32	648178.03	
9900.00	90.00	359.85	7300.00	2843.27	52.61	2843.66	0.00	411728.32	648177.77	
10000.00	90.00	359.85	7300.00	2943.27	52.34	2943.65	0.00	411828.32	648177.50	
10100.00	90.00	359.85	7300.00	3043.27	52.07	3043.64	0.00	411928.32	648177.23	
10200.00	90.00	359.85	7300.00	3143.27	51.80	3143.64	0.00	412028.32	648176.96	
10300.00	90.00	359.85	7300.00	3243.27	51.53	3243.63	0.00	412128.32	648176.69	
10400.00	90.00	359.85	7300.00	3343.27	51.26	3343.62	0.00	412228.32	648176.42	
10500.00	90.00	359.85	7300.00	3443.27	51.00	3443.61	0.00	412328.32	648176.15	
10600.00	90.00	359.85	7300.00	3543.27	50.73	3543.60	0.00	412428.32	648175.89	
10700.00	90.00	359.85	7300.00	3643.27	50.46	3643.59	0.00	412528.32	648175.62	
10800.00	90.00	359.85	7300.00	3743.27	50.19	3743.59	0.00	412628.32	648175.35	
10900.00	90.00	359.85	7300.00	3843.27	49.92	3843.58	0.00	412728.32	648175.08	
11000.00	90.00	359.85	7300.00	3943.27	49.65	3943.57	0.00	412828.32	648174.81	
11100.00	90.00	359.85	7300.00	4043.27	49.38	4043.56	0.00	412928.31	648174.54	
11200.00	90.00	359.85	7300.00	4143.27	49.12	4143.55	0.00	413028.31	648174.27	
11300.00	90.00	359.85	7300.00	4243.27	48.85	4243.54	0.00	413128.31	648174.01	
11400.00	90.00	359.85	7300.00	4343.27	48.58	4343.54	0.00	413228.31	648173.74	
11500.00	90.00	359.85	7300.00	4443.27	48.31	4443.53	0.00	413328.31	648173.47	
11600.00	90.00	359.85	7300.00	4543.26	48.04	4543.52	0.00	413428.31	648173.20	
11700.00	90.00	359.85	7300.00	4643.26	47.77	4643.51	0.00	413528.31	648172.93	
11708.12	90.00	359.85	7300.00	4651.38	47.75	4651.63	0.00	413536.43	648172.91	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	4651.38	47.75	413536.43	648172.91	32 8 11.103 N	103 59 17.458 W
Lp			7300.00	573.42	58.70	409458.47	648183.86	32 7 30.747 N	103 59 17.483 W

Casing Points

MD	TVD	Diameter	Hole Size	Name



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company:	Devon Energy	Date:	4/26/2010	Time:	11:31:38	Page:	3
Field:	Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: #5H, Grid North				
Site:	Cooter 16 State #5H	Vertical (TVD) Reference:	SITE 3023.0				
Well:	#5H	Section (VS) Reference:	Well (0.00N,0.00E,0.59Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature	Db:	Sybase		

Annotation

MD ft	TVD ft	
6676.29	6676.29	Kop
6734.29	6734.19	Build/Turn
7630.04	7300.00	Lp
11708.11	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 #5H
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 408885.050 USFT	Latitude 32.1236341 DEG
East/West 648125.160 USFT	Longitude -103.9883810 DEG
Grid Convergence: .18°	
Total Correction: +7.70°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.12363° N	32° 7 min 25.083 sec
Longitude =	103.98838° W	103° 59 min 18.172 sec

Magnetic Declination =	7.88°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6506
Local Field Strength =	48620 nT	Magnetic Vector X =	24050 nT
Magnetic Dip =	60.04°	Magnetic Vector Y =	3329 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42124 nT
Spud Date =	Jul 20, 2010	Magnetic Vector H =	24279 nT

Signed: _____

Date: _____



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #6H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

APRIL 26, 2010

Weatherford International, Ltd.

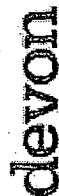
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KB ELEV: 2999
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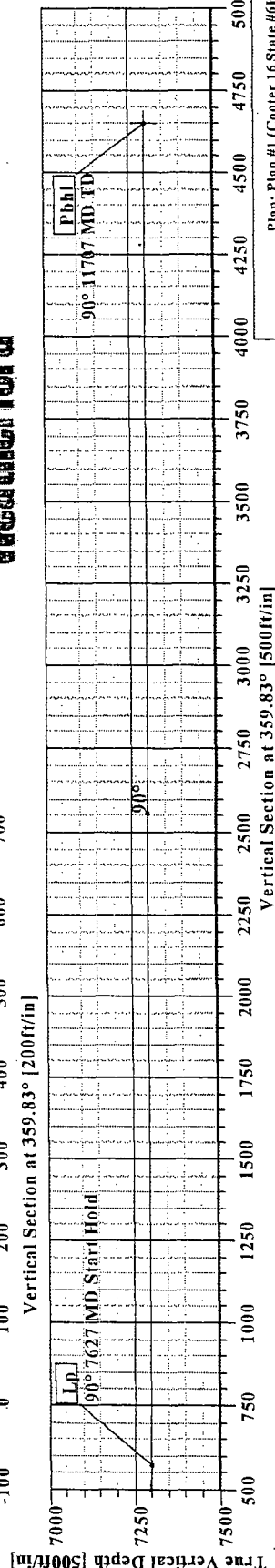
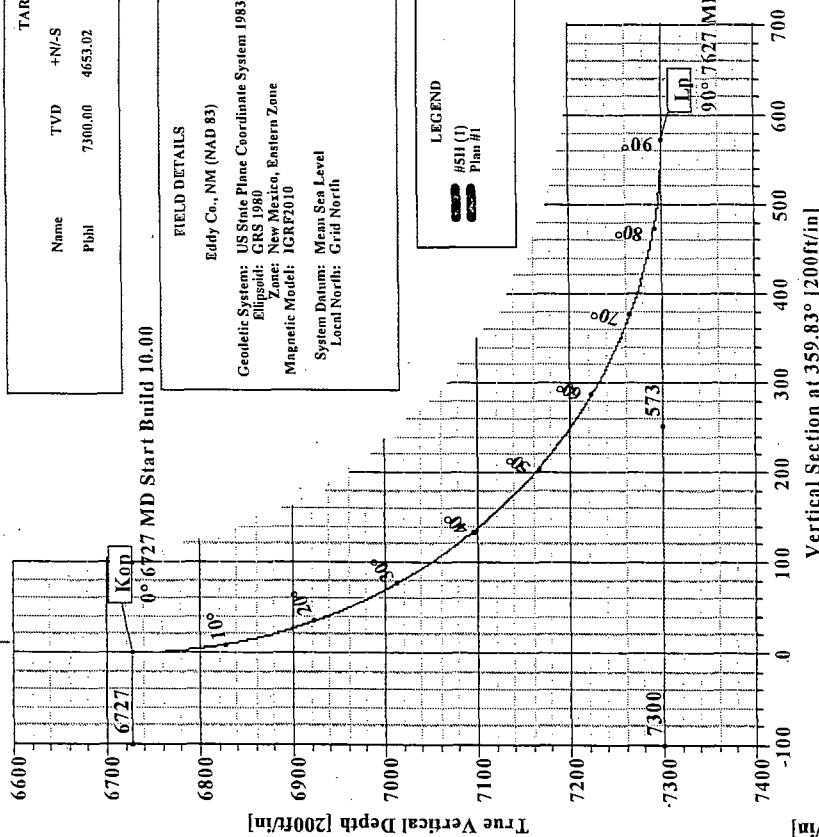
WELL DETAILS						
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
Cooter 16 Site #611	0.00	0.00	408886.93	648785.41	32°07'25.072N	103°59'10.509W
N/A						

FIELD DETAILS	SITE DETAILS
Eddy Co., NM (NAD 83)	Cooter 16 State #611
Geologic System: US State Plane Coordinate System 1983	Site Centre Northing: 408886.93
Ellipsoid: GRS 1980	Easting: 648785.41
Zone: New Mexico, Eastern Zone	Ground Level: 2974.00
Magnetic Model: IGRF2010	Positional Uncertainty: 0.00
System Datum: Mean Sea Level	Convergence: 0.18
Local North: Grid North	

LEGEND

 #SH (1)

 Plan #1



Vertical Section at 359.83° [500ft/in]

Plan: Plan #1 (Cooter 16 State #6H/I)

Created By: Russell W Joyner

Date: 4/26/2010



Company: Devon Energy	Date: 4/26/2010	Time: 12:47:38	Page: 1
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

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

Current Datum: SITE
Magnetic Data: 8/10/2010
Field Strength: 48619 nT
Vertical Section: Depth From (TVD)
ft

0.00	0.00	0.00	359.83
------	------	------	--------

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	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 4/26/2010	Time: 12:47:38	Page: 2
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	

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



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: _____



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #7H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

APRIL 26, 2010

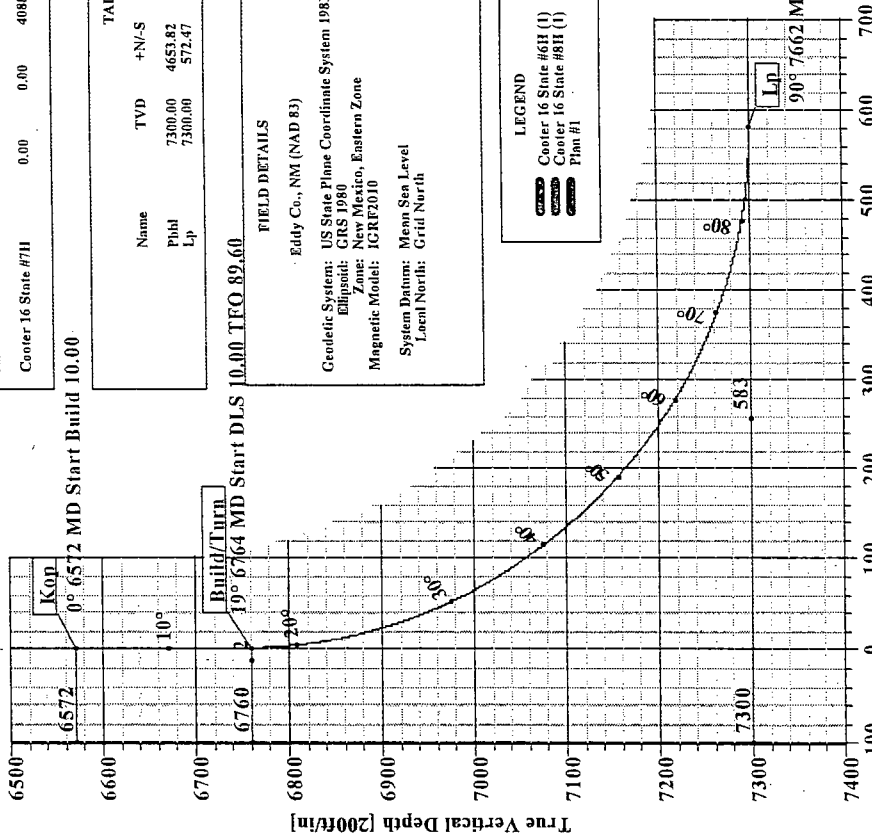
Weatherford International, Ltd.

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+1.432.561.8892 Main
+1.432.561.8895 Fax
www.weatherford.com



COOTER 16 STATE #7H EDDY CO., NEW 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	Lp
4	7663.33	90.00	359.82	7300.00	572.47	-221.50	10.00	89.60	582.67	Lp
5	11743.70	90.00	359.82	7300.00	4653.82	-234.09	0.00	-0.42	4659.71	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	North	East	Latitude	Longitude	Stoi
Cooler 16 State #7H	0.00	0.00	408887.89	649665.76	32°07'25.054N	103°59'00.271W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	North	East	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

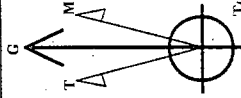
Eddy Co., NM (NAD 83)
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Cooler 16 State #7H
Site Centre Northing: 408887.89
Easting: 649665.76
Ground Level: 3020.00
Positional Uncertainty: 0.00
Convergence: 0.19

LEGEND

- Cooler 16 State #6H (1)
- Cooler 16 State #8H (1)
- Pm #1



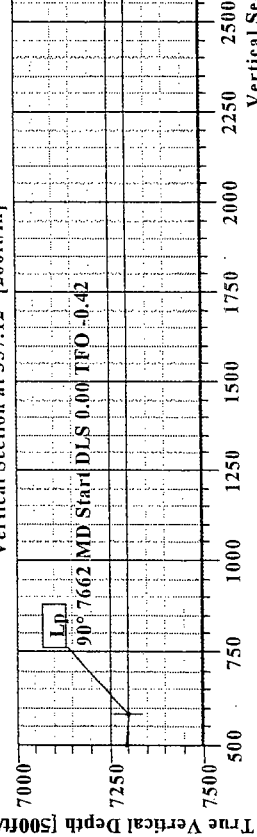
Azimuths to Grid North
True North: 4.19°
Magnetic North: 7.59°
Magnetic Field
Strength: 41,908.57
Dip Angle: 66.59°
Model: IGRF2010

Total Correction to Grid North: 7.59°



Weatherford

Vertical Section at 357.12° [200ft/in]



Vertical Section at 357.12° [500ft/in]

Plan: Plan #1 (Cooler 16 State #7H/1)

Created By: Russell W Joyner

Date: 4/26/2010



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

Current Datum: SITE	Height 3045.00 ft	Drilled From: Surface
Magnetic Data: 10/10/2010		Tie-on Depth: 0.00 ft
Field Strength: 47985 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 7.77 deg
ft	ft	Mag Dip Angle: 59.08 deg
		+E/-W
		Direction
		deg
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	



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



Weatherford

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	TVD	
ft	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: _____



Weatherford®

Drilling Services

Proposal



devon

COOTER 16 STATE #8H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

APRIL 20, 2010

Weatherford International, Ltd.

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devon

COOTER 16 STATE #8H
EDDY CO., NEW MEXICO

KB ELEV: 3061
GL ELEV: 3036



True Vertical Depth [2000ft/in]
0° 6727 MD Start Build 10.00

0° 6727 MD Start Build 10.00

10° 6727 MD Start Build 10.00

20° 6727 MD Start Build 10.00

30° 6727 MD Start Build 10.00

40° 6727 MD Start Build 10.00

50° 6727 MD Start Build 10.00

60° 6727 MD Start Build 10.00

70° 6727 MD Start Build 10.00

80° 6727 MD Start Build 10.00

90° 6727 MD Start Build 10.00

100° 6727 MD Start Build 10.00

110° 6727 MD Start Build 10.00

120° 6727 MD Start Build 10.00

130° 6727 MD Start Build 10.00

140° 6727 MD Start Build 10.00

150° 6727 MD Start Build 10.00

160° 6727 MD Start Build 10.00

170° 6727 MD Start Build 10.00

180° 6727 MD Start Build 10.00

190° 6727 MD Start Build 10.00

200° 6727 MD Start Build 10.00

210° 6727 MD Start Build 10.00

220° 6727 MD Start Build 10.00

230° 6727 MD Start Build 10.00

240° 6727 MD Start Build 10.00

250° 6727 MD Start Build 10.00

260° 6727 MD Start Build 10.00

270° 6727 MD Start Build 10.00

280° 6727 MD Start Build 10.00

290° 6727 MD Start Build 10.00

300° 6727 MD Start Build 10.00

310° 6727 MD Start Build 10.00

320° 6727 MD Start Build 10.00

330° 6727 MD Start Build 10.00

340° 6727 MD Start Build 10.00

350° 6727 MD Start Build 10.00

360° 6727 MD Start Build 10.00

370° 6727 MD Start Build 10.00

380° 6727 MD Start Build 10.00

390° 6727 MD Start Build 10.00

400° 6727 MD Start Build 10.00

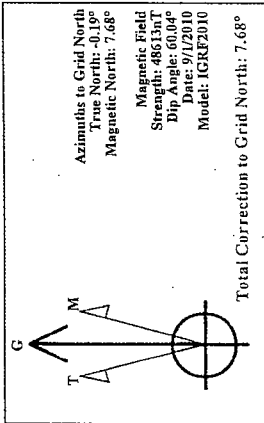
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.10	0.00	0.00	0.00	0.00	0.00	0.00	
2	6727.04	0.00	0.10	6727.04	0.00	0.00	0.00	0.00	0.00	
3	7627.04	90.00	0.10	7300.00	572.96	0.95	10.00	0.10	572.96	Pbhl
4	11708.62	90.00	0.10	7300.00	4654.53	7.73	0.00	0.00	4654.54	Pbhl

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Cooter 16 State #8H	0.00	0.00	408889.66	650015.16	32°07'25.060N	103°58'56.208W	N/A

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7300.00	4654.53	7.73	413544.20	650022.89	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 #8H	
Site Centre Northing: 408889.66	
Easting: 650015.16	
Ground Level: 3036.00	
Positional Uncertainty: 0.00	
Convergence: 0.19	



90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

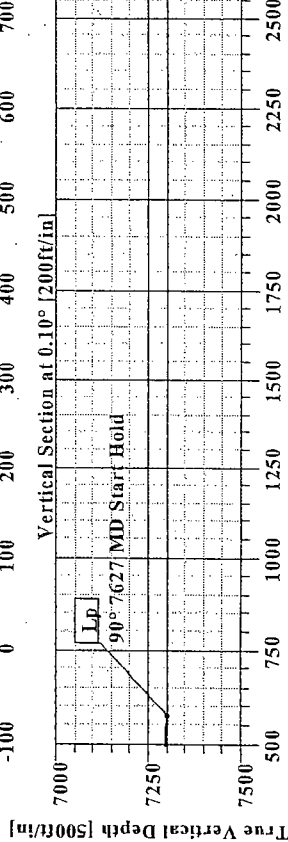
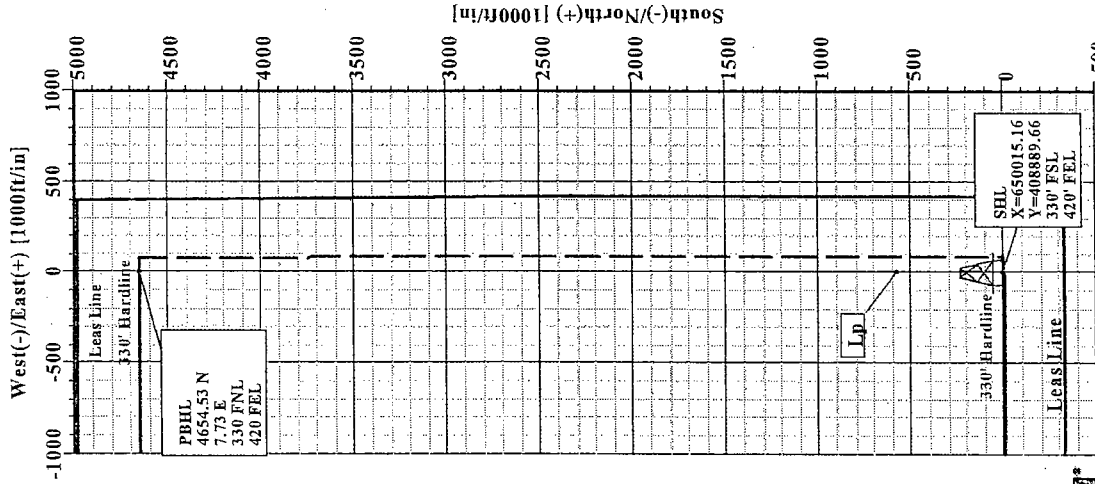
90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold

90° 7627 MD Start Hold



Vertical Section at 0.10° [500ft/in]

Plan: Plan #1 (Cooter 16 State #8H/1)

Created By: Russell W Joyner

Date: 4/20/2010



Company: Devon Energy	Date: 4/20/2010	Time: 15:42:33	Page: 1
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cooter 16 State #8H, Grid North		
Site: Cooter 16 State #8H	Vertical (TVD) Reference: SITE 3061.0		
Well: Cooter 16 State #8H	Section (VS) Reference: Well (0.00N,0.00E,0.10Azi)		
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 #8H

Site Position:	Northing: 408889.66 ft	Latitude: 32 7 25.060 N
From: Map	Easting: 650015.16 ft	Longitude: 103 58 56.208 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3036.00 ft		Grid Convergence: 0.19 deg

Well: Cooter 16 State #8H

Slot Name:

Well Position: +N/-S 0.00 ft	Northing: 408889.66 ft	Latitude: 32 7 25.060 N
+E/-W 0.00 ft	Easting: 650015.16 ft	Longitude: 103 58 56.208 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Current Datum: SITE	Height 3061.00 ft	Drilled From: Surface
Magnetic Data: 9/1/2010		Tie-on Depth: 0.00 ft
Field Strength: 48613 nT		Above System Datum: Mean Sea Level
Vertical Section: Depth From (TVD)	+N/-S	Declination: 7.86 deg
ft	ft	Mag Dip Angle: 60.04 deg
		+E/-W
		ft
		Direction
		deg
7300.00	0.00	0.00
		0.10

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	0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
6727.04	0.00	0.10	6727.04	0.00	0.00	0.00	0.00	0.00	0.00	
7627.04	90.00	0.10	7300.00	572.96	0.95	10.00	10.00	0.00	0.10	
11708.62	90.00	0.10	7300.00	4654.53	7.73	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	0.10	6700.00	0.00	0.00	0.00	0.00	408889.66	650015.16	
6727.04	0.00	0.10	6727.04	0.00	0.00	0.00	0.00	408889.66	650015.16	Kop
6800.00	7.30	0.10	6799.80	4.64	0.01	4.64	10.00	408894.30	650015.17	
6900.00	17.30	0.10	6897.39	25.91	0.04	25.91	10.00	408915.57	650015.21	
7000.00	27.30	0.10	6989.79	63.80	0.11	63.80	10.00	408953.46	650015.27	
7100.00	37.30	0.10	7074.21	117.16	0.19	117.16	10.00	409006.82	650015.36	
7200.00	47.30	0.10	7148.09	184.37	0.31	184.37	10.00	409074.03	650015.47	
7300.00	57.30	0.10	7209.17	263.39	0.44	263.39	10.00	409153.05	650015.60	
7400.00	67.30	0.10	7255.60	351.81	0.58	351.81	10.00	409241.48	650015.75	
7500.00	77.30	0.10	7285.97	446.95	0.74	446.95	10.00	409336.62	650015.91	
7600.00	87.30	0.10	7299.36	545.92	0.91	545.93	10.00	409435.59	650016.07	
7627.04	90.00	0.10	7300.00	572.96	0.95	572.96	10.00	409462.62	650016.12	Lp
7700.00	90.00	0.10	7300.00	645.91	1.07	645.92	0.00	409535.58	650016.24	
7800.00	90.00	0.10	7300.00	745.91	1.24	745.92	0.00	409635.58	650016.40	
7900.00	90.00	0.10	7300.00	845.91	1.40	845.92	0.00	409735.58	650016.57	
8000.00	90.00	0.10	7300.00	945.91	1.57	945.92	0.00	409835.58	650016.73	
8100.00	90.00	0.10	7300.00	1045.91	1.74	1045.92	0.00	409935.58	650016.90	
8200.00	90.00	0.10	7300.00	1145.91	1.90	1145.92	0.00	410035.58	650017.07	
8300.00	90.00	0.10	7300.00	1245.91	2.07	1245.92	0.00	410135.58	650017.23	
8400.00	90.00	0.10	7300.00	1345.91	2.23	1345.92	0.00	410235.58	650017.40	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	4/20/2010	Time:	15:42:33	Page:	2
Field:	Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference:	Well: Cooter 16 State #8H	Grid North			
Site:	Cooter 16 State #8H	Vertical (TVD) Reference:	SITE 3061.0				
Well:	Cooter 16 State #8H	Section (VS) Reference:	Well (0.00N,0.00E,0.10Azi)				
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
8500.00	90.00	0.10	7300.00	1445.91	2.40	1445.92	0.00	410335.58	650017.56	
8600.00	90.00	0.10	7300.00	1545.91	2.57	1545.92	0.00	410435.58	650017.73	
8700.00	90.00	0.10	7300.00	1645.91	2.73	1645.92	0.00	410535.58	650017.90	
8800.00	90.00	0.10	7300.00	1745.91	2.90	1745.92	0.00	410635.58	650018.06	
8900.00	90.00	0.10	7300.00	1845.91	3.07	1845.92	0.00	410735.58	650018.23	
9000.00	90.00	0.10	7300.00	1945.91	3.23	1945.92	0.00	410835.58	650018.40	
9100.00	90.00	0.10	7300.00	2045.91	3.40	2045.92	0.00	410935.58	650018.56	
9200.00	90.00	0.10	7300.00	2145.91	3.56	2145.92	0.00	411035.58	650018.73	
9300.00	90.00	0.10	7300.00	2245.91	3.73	2245.92	0.00	411135.58	650018.89	
9400.00	90.00	0.10	7300.00	2345.91	3.90	2345.92	0.00	411235.58	650019.06	
9500.00	90.00	0.10	7300.00	2445.91	4.06	2445.92	0.00	411335.58	650019.23	
9600.00	90.00	0.10	7300.00	2545.91	4.23	2545.92	0.00	411435.58	650019.39	
9700.00	90.00	0.10	7300.00	2645.91	4.39	2645.92	0.00	411535.58	650019.56	
9800.00	90.00	0.10	7300.00	2745.91	4.56	2745.92	0.00	411635.58	650019.72	
9900.00	90.00	0.10	7300.00	2845.91	4.73	2845.92	0.00	411735.58	650019.89	
10000.00	90.00	0.10	7300.00	2945.91	4.89	2945.92	0.00	411835.58	650020.06	
10100.00	90.00	0.10	7300.00	3045.91	5.06	3045.92	0.00	411935.58	650020.22	
10200.00	90.00	0.10	7300.00	3145.91	5.22	3145.92	0.00	412035.58	650020.39	
10300.00	90.00	0.10	7300.00	3245.91	5.39	3245.92	0.00	412135.58	650020.55	
10400.00	90.00	0.10	7300.00	3345.91	5.56	3345.92	0.00	412235.58	650020.72	
10500.00	90.00	0.10	7300.00	3445.91	5.72	3445.92	0.00	412335.58	650020.89	
10600.00	90.00	0.10	7300.00	3545.91	5.89	3545.92	0.00	412435.58	650021.05	
10700.00	90.00	0.10	7300.00	3645.91	6.05	3645.92	0.00	412535.58	650021.22	
10800.00	90.00	0.10	7300.00	3745.91	6.22	3745.92	0.00	412635.58	650021.38	
10900.00	90.00	0.10	7300.00	3845.91	6.39	3845.92	0.00	412735.58	650021.55	
11000.00	90.00	0.10	7300.00	3945.91	6.55	3945.92	0.00	412835.58	650021.72	
11100.00	90.00	0.10	7300.00	4045.91	6.72	4045.92	0.00	412935.58	650021.88	
11200.00	90.00	0.10	7300.00	4145.91	6.88	4145.92	0.00	413035.57	650022.05	
11300.00	90.00	0.10	7300.00	4245.91	7.05	4245.92	0.00	413135.57	650022.21	
11400.00	90.00	0.10	7300.00	4345.91	7.22	4345.92	0.00	413235.57	650022.38	
11500.00	90.00	0.10	7300.00	4445.91	7.38	4445.92	0.00	413335.57	650022.55	
11600.00	90.00	0.10	7300.00	4545.91	7.55	4545.92	0.00	413435.57	650022.71	
11700.00	90.00	0.10	7300.00	4645.91	7.71	4645.92	0.00	413535.57	650022.88	
11708.62	90.00	0.10	7300.00	4654.53	7.73	4654.54	0.00	413544.20	650022.89	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	4654.53	7.73	413544.20	650022.89	32 8 11.121 N	103 58 55.942 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6727.04	6727.04	Kop
7627.04	7300.00	Lp
11708.62	7300.00	Pbhl



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



Weatherford

Company: Devon Energy	Date: 4/20/2010	Time: 15:42:33	Page: 3
Field: Eddy Co. NM (NAD 83)	Co-ordinate(NE) Reference: Well: Cooter 16 State #8H, Grid North		
Site: Cooter 16 State #8H	Vertical (TVD) Reference: SITE 3061.0		
Well: Cooter 16 State #8H	Section (VS) Reference: Well (0.00N,0.00E,0.10Azi)		
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 20, 2010
Job Number: _____
Customer: Devon Energy
Well Name: Cooter 16 State #8H
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 408889.660 USFT	Latitude 32.1236300 DEG
East/West 650015.160 USFT	Longitude -103.9822758 DEG
Grid Convergence: .19°	
Total Correction: +7.67°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.12363° N	32° 7 min 25.068 sec
Longitude =	103.98228° W	103° 58 min 56.193 sec

Magnetic Declination =	7.86°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6604
Local Field Strength =	48609 nT	Magnetic Vector X =	24047 nT
Magnetic Dip =	60.04°	Magnetic Vector Y =	3321 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42114 nT
Spud Date =	Sep 01, 2010	Magnetic Vector H =	24275 nT

Signed: _____

Date: _____