



Weatherford®

Drilling Services

Proposal



devon

SPUD 16 STATE #9H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MAY 11, 2010

Weatherford International, Ltd.

P O Box 61028

Midland, TX 79711 USA

+1.432 561 8892 Main

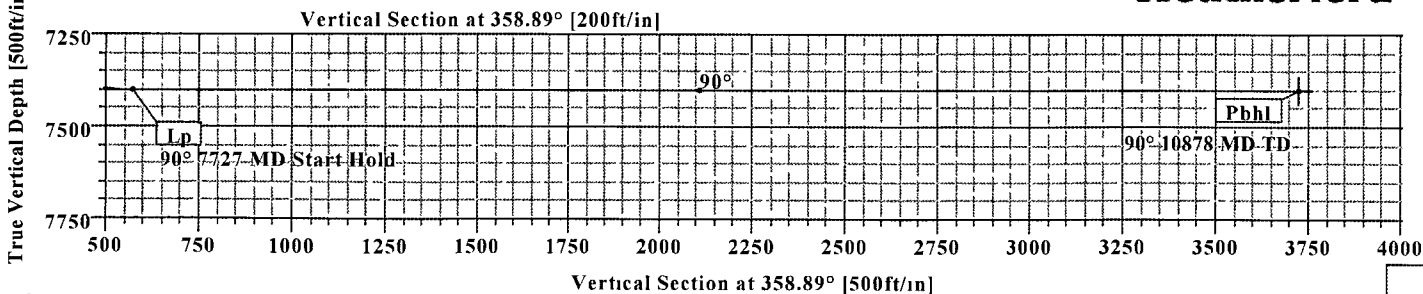
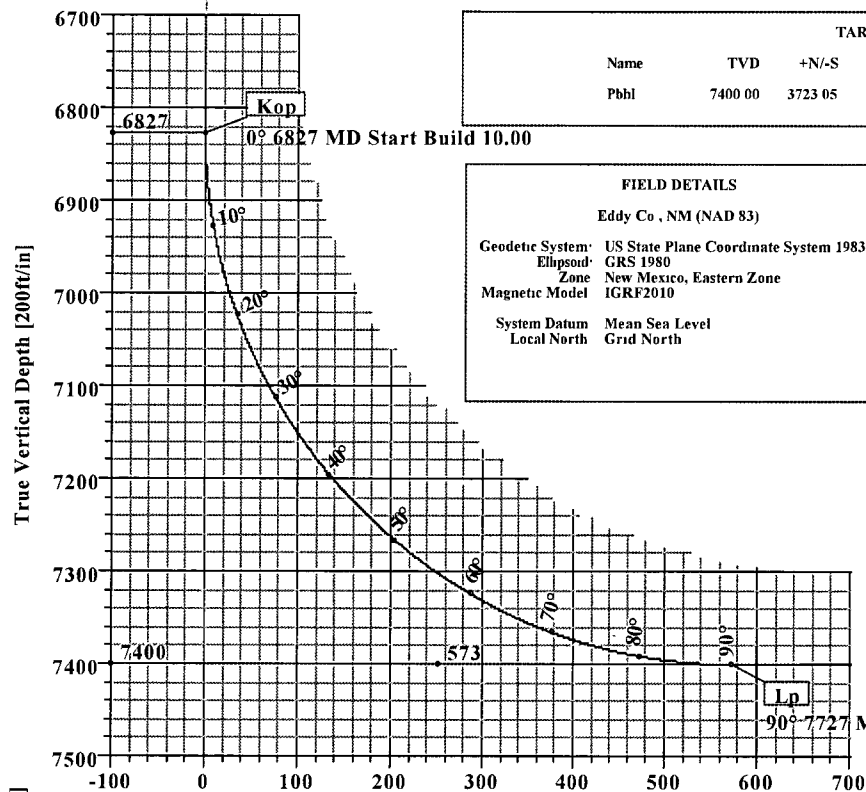
+1.432 561 8895 Fax

www.weatherford.com



Spud 16 State #9H
Eddy Co., New Mexico

KB ELEV: 2981
GL ELEV: 2956



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0 00	0.00	358.89	0 00	0.00	0.00	0.00	0.00	0.00	
2	6827.04	0.00	358.89	6827.04	0.00	0.00	0.00	0.00	0.00	
3	7727.04	90.00	358.89	7400.00	572.85	-11.11	10.00	358.89	572.96	
4	10877.84	90.00	358.89	7400.00	3723.05	-72.23	0.00	0.00	3723.75	Pbhl

WELL DETAILS

Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
Spud 16 State #9H	0 00	0 00	473535.56	648238.52	32°18'04.845N	103°59'14.448W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
Pbhl	7400.00	3723.05	-72.23	477258.61	648166.29	Point

FIELD DETAILS

Eddy Co., NM (NAD 83)

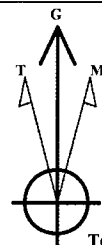
Geodetic System: US State Plane Coordinate System 1983
Ellipsoid: GRS 1980
Zone: New Mexico, Eastern Zone
Magnetic Model: IGRF2010
System Datum: Mean Sea Level
Local North: Grid North

SITE DETAILS

Spud 16 State #9H

Site Centre Northing: 473535.56
Easting: 648238.52

Ground Level: 2956.00
Positional Uncertainty: 0.00
Convergence: 0.18



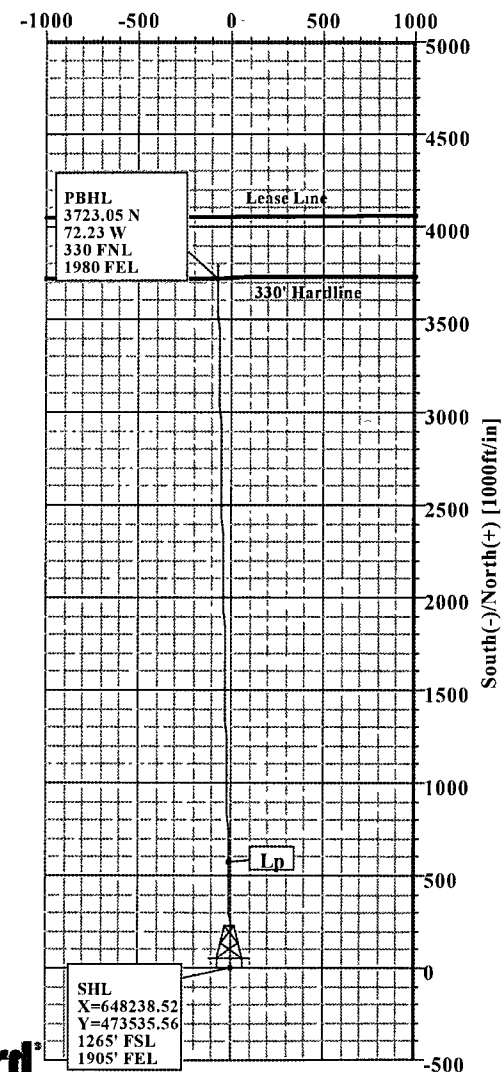
Azimuths to Grid North
True North: -0.18°
Magnetic North: 7.70°

Magnetic Field
Strength: 48728nT
Dip Angle: 60.21°
Date: 8/5/2010
Model: IGRF2010

Total Correction to Grid North: 7.70°



West(-)/East(+) [1000ft/in]



Plan: Plan #1 (Spud 16 State #9H/1)

Created By: Russell W Joyner

Date: 5/11/2010



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	5/11/2010	Time:	14.24 07	Page:	1
Field:	Eddy Co, NM (NAD 83)	Co-ordinate(NE) Reference:	Well Spud 16 State #9H, Grid North				
Site:	Spud 16 State #9H	Vertical (TVD) Reference:	SITE 2981 0				
Well:	Spud 16 State #9H	Section (VS) Reference:	Well (0 00N,0 00E,358 89Azi)				
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 LevelMap Zone: New Mexico, Eastern Zone
Coordinate System: Well Centre
Geomagnetic Model: IGRF2010

Site: Spud 16 State #9H

Site Position:		Northing:	473535 56 ft	Latitude:	32 18 4 845 N
From: Map		Easting:	648238 52 ft	Longitude:	103 59 14 448 W
Position Uncertainty:	0 00 ft			North Reference:	Grid
Ground Level:	2956 00 ft			Grid Convergence:	0 18 deg

Well: Spud 16 State #9H

Slot Name:

Well Position:	+N/-S	0 00 ft	Northing:	473535 56 ft	Latitude:	32 18 4 845 N
	+E/-W	0 00 ft	Easting:	648238 52 ft	Longitude:	103 59 14 448 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 89 deg
Mag Dip Angle:	60 21 deg
+E/-W	Direction
ft	deg

Current Datum:	SITE	Height	2981 00 ft
Magnetic Data:	8/5/2010		
Field Strength:	48728 nT		
Vertical Section:	Depth From (TVD)	+N/-S	
	ft	ft	
	7400 00	0 00	0 00

358 89

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	358 89	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
6827 04	0 00	358 89	6827 04	0 00	0 00	0 00	0 00	0 00	0 00	
7727 04	90 00	358 89	7400 00	572 85	-11 11	10 00	10 00	0 00	358 89	
10877 84	90 00	358 89	7400 00	3723 05	-72 23	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
6800 00	0 00	358 89	6800 00	0 00	0 00	0 00	0 00	473535 56	648238 52	
6827 04	0 00	358 89	6827 04	0 00	0 00	0 00	0 00	473535 56	648238 52	Kop
6900 00	7 30	358 89	6899 80	4 64	-0 09	4 64	10 00	473540 19	648238 43	
7000 00	17 30	358 89	6997 39	25 90	-0 50	25 91	10 00	473561 46	648238 02	
7100 00	27 30	358 89	7089 79	63 79	-1 24	63 80	10 00	473599 34	648237 29	
7200 00	37 30	358 89	7174 21	117 14	-2 27	117 16	10 00	473652 69	648236 25	
7300 00	47 30	358 89	7248 09	184 34	-3 58	184 37	10 00	473719 89	648234 95	
7400 00	57 30	358 89	7309 17	263 34	-5 11	263 39	10 00	473798 89	648233 41	
7500 00	67 30	358 89	7355 60	351 74	-6 82	351 81	10 00	473887 30	648231 70	
7600 00	77 30	358 89	7385 97	446 87	-8 67	446 95	10 00	473982 43	648229 85	
7700 00	87 30	358 89	7399 36	545 82	-10 59	545 93	10 00	474081 38	648227 93	
7727 04	90 00	358 89	7400 00	572 85	-11 11	572 96	10 00	474108 41	648227 41	Lp
7800 00	90 00	358 89	7400 00	645 79	-12 53	645 92	0 00	474181 35	648225 99	
7900 00	90 00	358 89	7400 00	745 78	-14 47	745 92	0 00	474281 33	648224 05	
8000 00	90 00	358 89	7400 00	845 76	-16 41	845 92	0 00	474381 31	648222 11	
8100 00	90 00	358 89	7400 00	945 74	-18 35	945 92	0 00	474481 29	648220 17	
8200 00	90 00	358 89	7400 00	1045 72	-20 29	1045 92	0 00	474581 27	648218 23	
8300 00	90 00	358 89	7400 00	1145 70	-22 23	1145 92	0 00	474681 26	648216 30	
8400 00	90 00	358 89	7400 00	1245 68	-24 17	1245 92	0 00	474781 24	648214 36	
8500 00	90 00	358 89	7400 00	1345 66	-26 11	1345 92	0 00	474881 22	648212 42	



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WFT Plan Report - X & Y's

**Weatherford**

Company:	Devon Energy	Date:	5/11/2010	Time:	14.24.07	Page:	2
Field:	Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well Spud 16 State #9H, Grnd North				
Site:	Spud 16 State #9H	Vertical (TVD) Reference:	SITE 2981.0				
Well:	Spud 16 State #9H	Section (VS) Reference:	Well (0 00N,0 00E,358 89Azi)				
Wellpath:	1	Survey Calculation Method:	Minimum Curvature Db: Sybase				

Survey

MD ft	Incl deg	Azin deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	MapN ft	MapE ft	Comment
8600 00	90 00	358 89	7400 00	1445 64	-28 05	1445 92	0 00	474981 20	648210 48	
8700 00	90 00	358 89	7400 00	1545 62	-29 99	1545 92	0 00	475081 18	648208 54	
8800 00	90 00	358 89	7400 00	1645 61	-31 93	1645 92	0 00	475181 16	648206 60	
8900 00	90 00	358 89	7400 00	1745 59	-33 87	1745 92	0 00	475281.14	648204 66	
9000 00	90 00	358 89	7400 00	1845 57	-35 81	1845 92	0 00	475381 12	648202 72	
9100 00	90 00	358 89	7400 00	1945 55	-37 75	1945 92	0 00	475481 11	648200 78	
9200 00	90 00	358 89	7400 00	2045 53	-39 69	2045 92	0 00	475581 09	648198 84	
9300 00	90 00	358 89	7400 00	2145 51	-41 63	2145 92	0 00	475681 07	648196 90	
9400 00	90 00	358 89	7400 00	2245 49	-43 57	2245 92	0 00	475781 05	648194 96	
9500 00	90 00	358 89	7400 00	2345 47	-45 51	2345 92	0 00	475881 03	648193 02	
9600 00	90 00	358 89	7400 00	2445 46	-47 45	2445 92	0 00	475981 01	648191 08	
9700 00	90 00	358 89	7400 00	2545 44	-49 39	2545 92	0 00	476080 99	648189 14	
9800 00	90 00	358 89	7400 00	2645 42	-51 33	2645 92	0 00	476180 97	648187 20	
9900 00	90 00	358 89	7400 00	2745 40	-53 27	2745 92	0 00	476280 95	648185 26	
10000 00	90 00	358 89	7400 00	2845 38	-55 21	2845 92	0 00	476380 94	648183 32	
10100 00	90 00	358 89	7400 00	2945 36	-57 15	2945 92	0 00	476480 92	648181 38	
10200 00	90 00	358 89	7400 00	3045 34	-59 09	3045 92	0 00	476580 90	648179 44	
10300 00	90 00	358 89	7400 00	3145 32	-61 03	3145 92	0 00	476680 88	648177 50	
10400 00	90 00	358 89	7400 00	3245 30	-62 97	3245 92	0 00	476780 86	648175 56	
10500 00	90 00	358 89	7400 00	3345 29	-64 91	3345 92	0 00	476880 84	648173 62	
10600 00	90 00	358 89	7400 00	3445 27	-66 85	3445 92	0 00	476980 82	648171 68	
10700 00	90 00	358 89	7400 00	3545 25	-68 79	3545 92	0 00	477080 80	648169 74	
10800 00	90 00	358 89	7400 00	3645 23	-70 73	3645 92	0 00	477180 79	648167 80	
10877 84	90 00	358 89	7400 00	3723 05	-72 23	3723 75	0 00	477258 61	648166 29	Pbhl

Targets

Name	Description Dip.	TVD Dir.	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<--- Latitude ---> Deg Min Sec	<--- Longitude ---> Deg Min Sec
Pbhl			7400 00	3723 05	-72 23	477258 61 648166 29	32 18 41 690 N	103 59 15 150 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
6827 04	6827 04	Kop
7727 04	7400 00	Lp
10877 83	7400 00	Pbhl

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: May 11, 2010

Job Number: _____

Customer: Devon Energy

Well Name: Spud 16 State #9H

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 473535.560 USFT

Latitude 32.3013484 DEG

East/West 648238.520 USFT

Longitude -103.9873426 DEG

Grid Convergence: .18°

Total Correction: +7.74°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.30135° N 32° 18 min 4.854 sec

Longitude = 103.98734° W 103° 59 min 14.433 sec

Magnetic Declination = 7.92°

[True North Offset]

Local Gravity = .9988 g

Checksum = 6574

Local Field Strength = 48747 nT

Magnetic Vector X = 23986 nT

Magnetic Dip = 60.21°

Magnetic Vector Y = 3336 nT

Magnetic Model = IGRF-2010g11

Magnetic Vector Z = 42307 nT

Spud Date = May 11, 2010

Magnetic Vector H = 24217 nT

Signed: _____

Date: _____