



Weatherford[™]

Drilling Services

30-015-39994

Proposal



SHAQTUS 26 STATE COM#3H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

FEBRUARY 23, 2012

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Shaqtus 26 State Com 3H
Eddy Co., New Mexico

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	359.93	0.00	0.00	0.00	0.00	0.00	0.00	
2	7477.05	0.00	359.93	7477.05	0.00	0.00	0.00	0.00	0.00	
3	8380.10	90.30	359.93	8050.00	576.00	-0.68	10.00	359.93	576.00	
4	13083.19	90.30	359.93	8025.00	5279.02	-6.21	0.00	0.00	5279.02	PBHL

WELL DETAILS

Name+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
2H 0.00	0.00	524811.53	722367.62	32°26'29.048N	103°44'47.483W	N/A

TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	8025.00	5279.02	-6.21	530090.55	722361.41	32°27'21.285N	103°44'47.217W	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

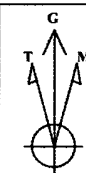
SITE DETAILS

Shaqtus 26 State Com 3H

Site Centre Northing: 524811.53
Easting: 722367.62

Ground Level: 3525.20
Positional Uncertainty: 0.00
Convergence: 0.31

LEGEND



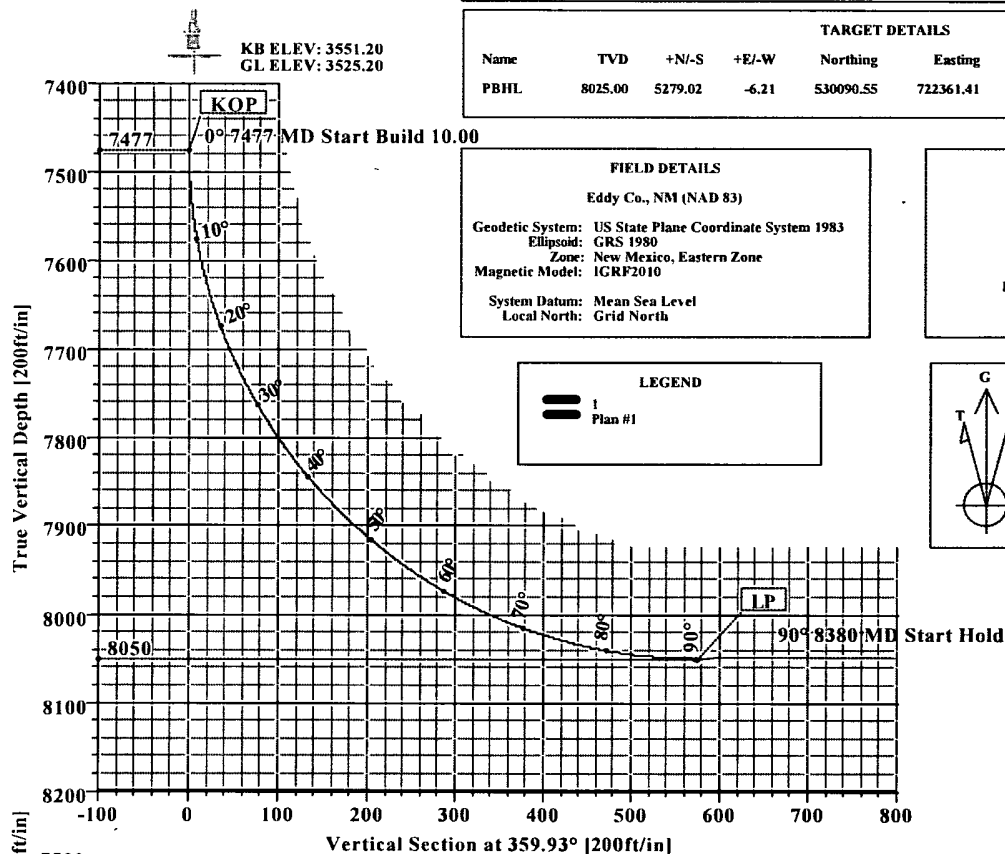
Azimuths to Grid North
True North: -0.31°
Magnetic North: 7.25°

Magnetic Field
Strength: 48658nT
Dip Angle: 60.33°
Date: 6/1/2012
Model: IGRF2010

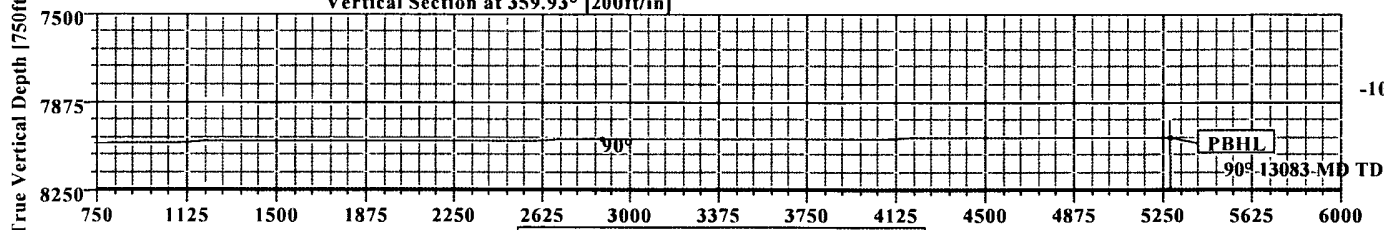
Total Correction to Grid North: 7.25°



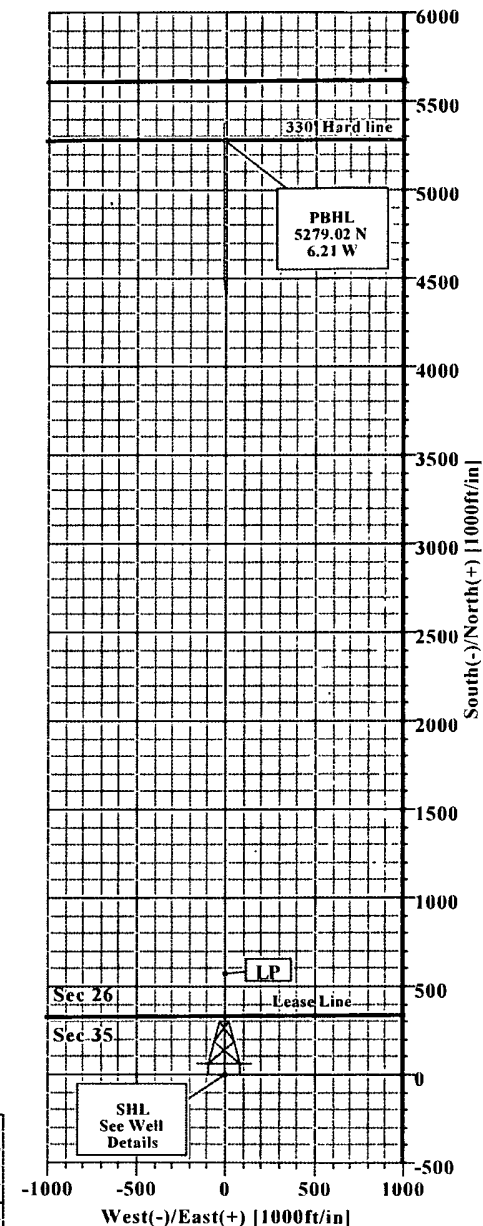
Weatherford



Vertical Section at 359.93° [200ft/in]



Vertical Section at 359.93° [750ft/in]



Plan: Plan #1 (2H/1)

Created By: Keith Noack

Date: 2/23/2012



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WFT Plan Report - X & Y's



Company: Devon Energy Date: 2/23/2012 Time: 12:56:57 Page: 1
Field: Eddy Co., NM (NAD 83) Co-ordinate(NE) Reference: Well: 2H, Grd North
Site: Shaqtus 26 State Com 3H Vertical (TVD) Reference: SITE 3551.2
Well: 2H Section (VS) Reference: Well (0 00N,0.00E,359.93Azi)
Wellpath: 1 Survey Calculation Method: Minimum Curvature Db: Sybase

Plan: Plan #1 Date Composed: 2/23/2012
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: Shaqtus 26 State Com 3H

Site Position: Northing: 524811 53 ft Latitude: 32 26 29.048 N
From: Map Easting: 722367 62 ft Longitude: 103 44 47.483 W
Position Uncertainty: 0.00 ft North Reference: Grd
Ground Level: 3525.20 ft Grid Convergence: 0 31 deg

Well: 2H Slot Name:
Well Position: +N/-S 0 00 ft Northing: 524811 53 ft Latitude: 32 26 29.048 N
+E/-W 0.00 ft Easting: 722367 62 ft Longitude: 103 44 47.483 W
Position Uncertainty: 0.00 ft

Wellpath: 1 Drilled From: Surface
Current Datum: SITE Height 3551.20 ft Tie-on Depth: 0.00 ft
Magnetic Data: 6/1/2012 Above System Datum: Mean Sea Level
Field Strength: 48658 nT Declination: 7.57 deg
Vertical Section: Depth From (TVD) +N/-S +E/-W Mag Dip Angle: 60.33 deg
ft ft ft Direction deg
0 00 0 00 0 00 359.93

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	359.93	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
7477 05	0 00	359.93	7477 05	0 00	0 00	0 00	0 00	0 00	0 00	
8380 10	90 30	359.93	8050.00	576 00	-0.68	10 00	10 00	0 00	359 93	
13083.19	90 30	359.93	8025.00	5279 02	-6.21	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
7400 00	0 00	359.93	7400.00	0 00	0 00	0 00	0 00	524811.53	722367 62	KOP
7477 05	0 00	359.93	7477.05	0 00	0 00	0 00	0 00	524811 53	722367 62	
7500 00	2 29	359.93	7499 99	0 46	0 00	0 46	10 00	524811.99	722367 62	
7600 00	12 29	359.93	7599 06	13.14	-0.02	13.14	10 00	524824.67	722367 60	
7700 00	22 29	359.93	7694 42	42 83	-0.05	42 83	10 00	524854.36	722367 57	
7800 00	32 29	359.93	7783 17	88 63	-0.10	88.63	10 00	524900 16	722367 52	LP
7900 00	42 29	359.93	7862 62	149 14	-0.18	149 14	10 00	524960 67	722367 44	
8000 00	52 29	359.93	7930 36	222 54	-0 26	222 54	10 00	525034 07	722367 36	
8100 00	62 29	359.93	7984 32	306 58	-0 36	306 58	10 00	525118.11	722367 26	
8200 00	72 29	359.93	8022 87	398.71	-0 47	398.71	10 00	525210 24	722367 15	
8300 00	82 29	359.93	8044 84	496 14	-0 58	496 14	10 00	525307 67	722367 04	
8380 10	90 30	359.93	8050.00	576 00	-0 68	576 00	10 00	525387 53	722366 94	
8400 00	90 30	359.93	8049 90	595 90	-0 70	595 90	0 00	525407 43	722366 92	
8500 00	90 30	359.93	8049 37	695 90	-0 82	695 90	0 00	525507 43	722366 80	
8600 00	90 30	359.93	8048 83	795 90	-0 94	795 90	0 00	525607 43	722366 68	
8700 00	90 30	359.93	8048 30	895 90	-1 05	895 90	0 00	525707 43	722366 57	
8800 00	90 30	359.93	8047 77	995 90	-1 17	995 90	0 00	525807 43	722366 45	



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WFT Plan Report - X & Y's



Company: Devon Energy	Date: 2/23/2012	Time: 12:56:57	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference:	Well: 2H, Grid North	
Site: Shaqlus 26 State Com 3H	Vertical (TVD) Reference:	SITE 3551.2	
Well: 2H	Section (VS) Reference:	Well (0 00N,0 00E,359 93Azi)	
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
8900.00	90.30	359.93	8047.24	1095.90	-1.29	1095.90	0.00	525907.43	722366.33	
9000.00	90.30	359.93	8046.71	1195.90	-1.41	1195.90	0.00	526007.43	722366.21	
9100.00	90.30	359.93	8046.18	1295.89	-1.52	1295.89	0.00	526107.42	722366.10	
9200.00	90.30	359.93	8045.64	1395.89	-1.64	1395.89	0.00	526207.42	722365.98	
9300.00	90.30	359.93	8045.11	1495.89	-1.76	1495.89	0.00	526307.42	722365.86	
9400.00	90.30	359.93	8044.58	1595.89	-1.88	1595.89	0.00	526407.42	722365.74	
9500.00	90.30	359.93	8044.05	1695.89	-1.99	1695.89	0.00	526507.42	722365.63	
9600.00	90.30	359.93	8043.52	1795.89	-2.11	1795.89	0.00	526607.42	722365.51	
9700.00	90.30	359.93	8042.99	1895.88	-2.23	1895.89	0.00	526707.41	722365.39	
9800.00	90.30	359.93	8042.45	1995.88	-2.35	1995.88	0.00	526807.41	722365.27	
9900.00	90.30	359.93	8041.92	2095.88	-2.47	2095.88	0.00	526907.41	722365.15	
10000.00	90.30	359.93	8041.39	2195.88	-2.58	2195.88	0.00	527007.41	722365.04	
10100.00	90.30	359.93	8040.86	2295.88	-2.70	2295.88	0.00	527107.41	722364.92	
10200.00	90.30	359.93	8040.33	2395.88	-2.82	2395.88	0.00	527207.41	722364.80	
10300.00	90.30	359.93	8039.80	2495.88	-2.94	2495.88	0.00	527307.41	722364.68	
10400.00	90.30	359.93	8039.26	2595.87	-3.05	2595.88	0.00	527407.40	722364.57	
10500.00	90.30	359.93	8038.73	2695.87	-3.17	2695.87	0.00	527507.40	722364.45	
10600.00	90.30	359.93	8038.20	2795.87	-3.29	2795.87	0.00	527607.40	722364.33	
10700.00	90.30	359.93	8037.67	2895.87	-3.41	2895.87	0.00	527707.40	722364.21	
10800.00	90.30	359.93	8037.14	2995.87	-3.52	2995.87	0.00	527807.40	722364.10	
10900.00	90.30	359.93	8036.61	3095.87	-3.64	3095.87	0.00	527907.40	722363.98	
11000.00	90.30	359.93	8036.07	3195.87	-3.76	3195.87	0.00	528007.40	722363.86	
11100.00	90.30	359.93	8035.54	3295.86	-3.88	3295.87	0.00	528107.39	722363.74	
11200.00	90.30	359.93	8035.01	3395.86	-3.99	3395.86	0.00	528207.39	722363.63	
11300.00	90.30	359.93	8034.48	3495.86	-4.11	3495.86	0.00	528307.39	722363.51	
11400.00	90.30	359.93	8033.95	3595.86	-4.23	3595.86	0.00	528407.39	722363.39	
11500.00	90.30	359.93	8033.42	3695.86	-4.35	3695.86	0.00	528507.39	722363.27	
11600.00	90.30	359.93	8032.88	3795.86	-4.47	3795.86	0.00	528607.39	722363.15	
11700.00	90.30	359.93	8032.35	3895.86	-4.58	3895.86	0.00	528707.39	722363.04	
11800.00	90.30	359.93	8031.82	3995.85	-4.70	3995.86	0.00	528807.38	722362.92	
11900.00	90.30	359.93	8031.29	4095.85	-4.82	4095.86	0.00	528907.38	722362.80	
12000.00	90.30	359.93	8030.76	4195.85	-4.94	4195.85	0.00	529007.38	722362.68	
12100.00	90.30	359.93	8030.23	4295.85	-5.05	4295.85	0.00	529107.38	722362.57	
12200.00	90.30	359.93	8029.70	4395.85	-5.17	4395.85	0.00	529207.38	722362.45	
12300.00	90.30	359.93	8029.16	4495.85	-5.29	4495.85	0.00	529307.38	722362.33	
12400.00	90.30	359.93	8028.63	4595.84	-5.41	4595.85	0.00	529407.37	722362.21	
12500.00	90.30	359.93	8028.10	4695.84	-5.52	4695.85	0.00	529507.37	722362.10	
12600.00	90.30	359.93	8027.57	4795.84	-5.64	4795.85	0.00	529607.37	722361.98	
12700.00	90.30	359.93	8027.04	4895.84	-5.76	4895.84	0.00	529707.37	722361.86	
12800.00	90.30	359.93	8026.51	4995.84	-5.88	4995.84	0.00	529807.37	722361.74	
12900.00	90.30	359.93	8025.97	5095.84	-5.99	5095.84	0.00	529907.37	722361.63	
13000.00	90.30	359.93	8025.44	5195.84	-6.11	5195.84	0.00	530007.37	722361.51	
13083.19	90.30	359.93	8025.00	5279.02	-6.21	5279.02	0.00	530090.55	722361.41	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			8025.00	5279.02	-6.21	530090.55	722361.41	32 27 21.285 N	103 44 47.217 W



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



Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Shaqtus 26 State Com 3H
Well: 2H
Wellpath: 1

Date: 2/23/2012 Time: 12:56:57 Page: 3
Co-ordinate(NE) Reference: Well: 2H, Grid North
Vertical (TVD) Reference: SITE 3551 2
Section (VS) Reference: Well (0 00N,0.00E,359.93Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7477.05	7477.05	KOP
8380.10	8050.00	LP
13083.18	8025.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: February 23, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Shaqtus 26 State Com 3H
API Number: _____
Rig Name: _____
Location: Eddy Co., NM (NAD 83)
Block: _____
Engineer: KRN

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 524811.530 USFT	Latitude 32.4414051 DEG
East/West 722367.620 USFT	Longitude -103.7465184 DEG
Grid Convergence: .31°	
Total Correction: +7.26°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.44141° N	32° 26 min 29.058 sec
Longitude =	103.74652° W	103° 44 min 47.466 sec

Magnetic Declination =	7.57°	[True North Offset]	
Local Gravity =	.9988 g	Checksum =	6582
Local Field Strength =	48654 nT	Magnetic Vector X =	23871 nT
Magnetic Dip =	60.33°	Magnetic Vector Y =	3171 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z =	42277 nT
Spud Date =	Jun 01, 2012	Magnetic Vector H =	24080 nT

Signed: _____

Date: _____

13-5/8" 3M BOPE & Closed Loop Equipment Schematic

