



Weatherford[®]

Drilling Services

30-015.40107

Proposal



devon

BIG ARISTOTLE 27 STATE #2H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 21, 2012

Weatherford International, Ltd.

P O. Box 61028

Midland, TX 79711 USA

+1.432.561.8892 Main

+1.432.561.8895 Fax

www.weatherford.com



Big Aristotle 27 State #2H
Eddy Co., New Mexico

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	7377.05	0.00	0.00	7377.05	0.00	0.00	0.00	0.00	0.00	
3	8279.32	90.23	0.00	7950.00	575.23	0.04	10.00	0.00	575.23	
4	13317.34	90.23	0.00	7930.00	5613.21	0.36	0.00	0.00	5613.21	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shot
BA 27 State #2H	0.00	0.00	524462.11	718398.70	32°26'25.804N	103°45'33.818W	N/A

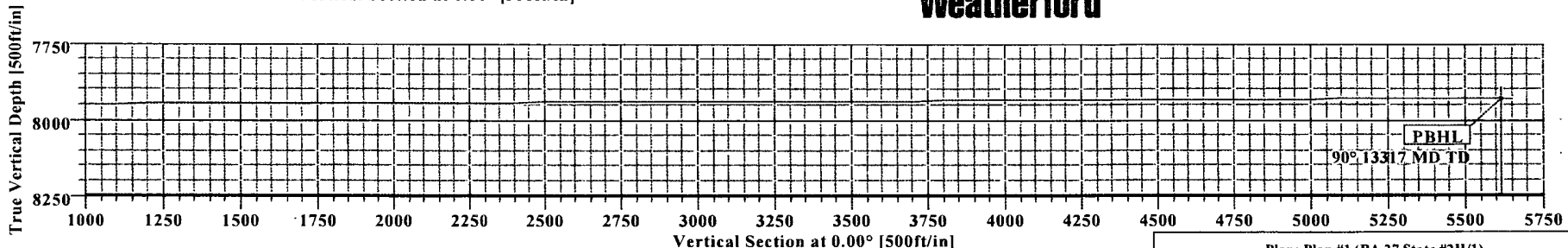
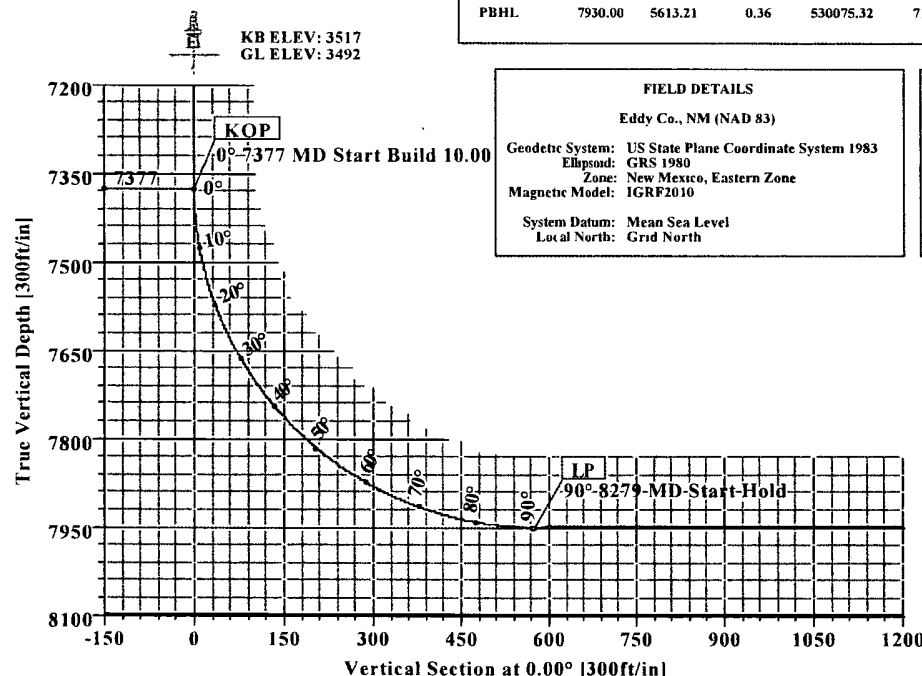
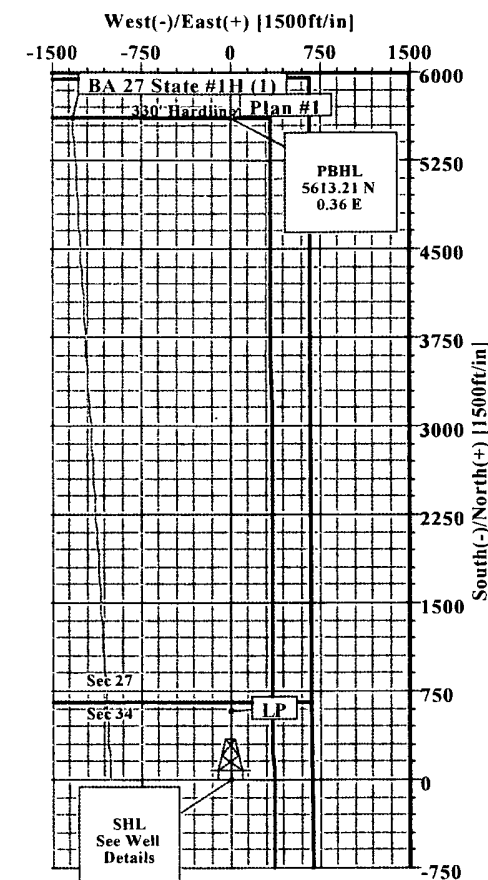
TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7930.00	5613.21	0.36	530075.32	718399.06	32°27'21.348N	103°45'33.462W	Point

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	
Big Aristotle 27 State #2H	
Site Centre Northing: 524462.11	
Easting: 718398.70	
Ground Level: 3492.00	
Positional Uncertainty: 0.00	
Convergence: 0.31	

	Azimuths to Grid North
	True North: -0.31°
	Magnetic North: 7.22°
	Magnetic Field
Strength: 48618nT	
Dip Angle: 60.32°	
Date: 10/15/2012	
Model: IGRF2010	
Total Correction to Grid North: 7.22°	

LEGEND	
	BA 27 State #1H (1)
	1
	Plan #1



Plan: Plan #1 (BA 27 State #2H/1)
Created By: Russell W. Joyner Date: 3/21/2012



Weatherford International Ltd.

WFT Plan Report - X & Y's



Company: Devon Energy
Field: Eddy Co.; NM (NAD 83)
Site: Big Aristotle.27 State #2H
Well: BA 27 State #2H
Wellpath: 1

Date: 3/21/2012
Co-ordinate(N/E) Reference: Well: BA 27 State #2H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Survey Calculation Method: Minimum Curvature
Db: Sybase

Time: 07:57:27
Page: 1

Plan: Plan #1
Principal: Yes

Date Composed: 3/21/2012
Version: 1
Tied-to: From Surface

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: Big Aristotle 27 State #2H

Site Position: Northing: 524462 11 ft
From: Map Easting: 718398 70 ft
Position Uncertainty: 0 00 ft
Ground Level: 3492.00 ft

Latitude: 32 26 25.804 N
Longitude: 103 45 33 818 W
North Reference: Grid
Grid Convergence: 0 31 deg

Well: BA 27 State #2H

Slot Name:

Well Position: +N/-S 0.00 ft Northing: 524462 11 ft
+E/-W 0.00 ft Easting: 718398 70 ft
Position Uncertainty: 0.00 ft

Latitude: 32 26 25.804 N
Longitude: 103 45 33 818 W

Wellpath: 1

Drilled From: Surface

Current Datum: SITE
Magnetic Data: 10/15/2012
Field Strength: 48618 nT
Vertical Section: Depth From (TVD) ft
+N/-S ft
+E/-W ft
Direction deg

Height 3517 00 ft

Tie-on Depth: 0 00 ft
Above System Datum: Mean Sea Level
Declination: 7 53 deg
Mag Dip Angle: 60 32 deg

0.00 0 00 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	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
7377 05	0 00	0 00	7377 05	0 00	0 00	0 00	0 00	0 00	0 00	
8279 32	90.23	0 00	7950 00	575 23	0 04	10.00	10.00	0 00	0 00	
13317 34	90.23	0 00	7930 00	5613 21	0 36	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
7300 00	0 00	0 00	7300 00	0 00	0 00	0 00	0 00	524462 11	718398.70	KOP
7377 05	0 00	0 00	7377 05	0 00	0 00	0 00	0 00	524462.11	718398 70	
7400 00	2 30	0 00	7399.99	0 46	0 00	0 46	10.00	524462 57	718398 70	
7500 00	12 30	0 00	7499 06	13 14	0 00	13 14	10.00	524475 25	718398.70	
7600 00	22 30	0 00	7594 42	42 83	0 00	42 83	10 00	524504 94	718398 70	
7700 00	32 30	0 00	7683.17	88 63	0 01	88.63	10 00	524550.74	718398 71	LP
7800 00	42 30	0 00	7762 62	149 15	0 01	149 15	10.00	524611 26	718398 71	
7900 00	52 30	0 00	7830.36	222 54	0 01	222 54	10 00	524684.65	718398 71	
8000 00	62 30	0 00	7884 32	306.58	0 02	306.58	10 00	524768.69	718398.72	
8100 00	72 30	0 00	7922.87	398 71	0 03	398 71	10.00	524860 82	718398 73	
8200 00	82 30	0 00	7944 83	496 14	0 03	496 14	10.00	524958 25	718398.73	
8279 32	90.23	0 00	7950 00	575 23	0 04	575 23	10.00	525037 34	718398 74	
8300 00	90 23	0 00	7949 92	595.91	0 04	595 91	0 00	525058 02	718398 74	
8400 00	90 23	0 00	7949 52	695 91	0 04	695 91	0 00	525158 02	718398 74	
8500 00	90 23	0 00	7949.13	795 91	0 05	795 91	0 00	525258 02	718398 75	
8600 00	90 23	0 00	7948.73	895 91	0 06	895 91	0 00	525358 02	718398.76	
8700 00	90.23	0 00	7948 33	995 90	0 06	995.90	0 00	525458.01	718398.76	



Weatherford International Ltd.

WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/21/2012	Time: 07:57:27	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: BA 27 State #2H, Grid North		
Site: Big Aristotle 27 State #2H	Vertical (TVD) Reference: SITE 3517 0		
Well: BA 27 State #2H	Section (VS) Reference: Well (0 00N,0.00E,0.00Azi)		
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
8800.00	90.23	0.00	7947.94	1095.90	0.07	1095.90	0.00	525558.01	718398.77	
8900.00	90.23	0.00	7947.54	1195.90	0.08	1195.90	0.00	525658.01	718398.78	
9000.00	90.23	0.00	7947.14	1295.90	0.08	1295.90	0.00	525758.01	718398.78	
9100.00	90.23	0.00	7946.74	1395.90	0.09	1395.90	0.00	525858.01	718398.79	
9200.00	90.23	0.00	7946.35	1495.90	0.10	1495.90	0.00	525958.01	718398.80	
9300.00	90.23	0.00	7945.95	1595.90	0.10	1595.90	0.00	526058.01	718398.80	
9400.00	90.23	0.00	7945.55	1695.90	0.11	1695.90	0.00	526158.01	718398.81	
9500.00	90.23	0.00	7945.16	1795.90	0.12	1795.90	0.00	526258.01	718398.82	
9600.00	90.23	0.00	7944.76	1895.90	0.12	1895.90	0.00	526358.01	718398.82	
9700.00	90.23	0.00	7944.36	1995.90	0.13	1995.90	0.00	526458.01	718398.83	
9800.00	90.23	0.00	7943.97	2095.90	0.13	2095.90	0.00	526558.01	718398.83	
9900.00	90.23	0.00	7943.57	2195.90	0.14	2195.90	0.00	526658.01	718398.84	
10000.00	90.23	0.00	7943.17	2295.89	0.15	2295.89	0.00	526758.00	718398.85	
10100.00	90.23	0.00	7942.77	2395.89	0.15	2395.89	0.00	526858.00	718398.85	
10200.00	90.23	0.00	7942.38	2495.89	0.16	2495.89	0.00	526958.00	718398.86	
10300.00	90.23	0.00	7941.98	2595.89	0.17	2595.89	0.00	527058.00	718398.87	
10400.00	90.23	0.00	7941.58	2695.89	0.17	2695.89	0.00	527158.00	718398.87	
10500.00	90.23	0.00	7941.19	2795.89	0.18	2795.89	0.00	527258.00	718398.88	
10600.00	90.23	0.00	7940.79	2895.89	0.19	2895.89	0.00	527358.00	718398.89	
10700.00	90.23	0.00	7940.39	2995.89	0.19	2995.89	0.00	527458.00	718398.89	
10800.00	90.23	0.00	7940.00	3095.89	0.20	3095.89	0.00	527558.00	718398.90	
10900.00	90.23	0.00	7939.60	3195.89	0.20	3195.89	0.00	527658.00	718398.90	
11000.00	90.23	0.00	7939.20	3295.89	0.21	3295.89	0.00	527758.00	718398.91	
11100.00	90.23	0.00	7938.80	3395.89	0.22	3395.89	0.00	527858.00	718398.92	
11200.00	90.23	0.00	7938.41	3495.88	0.22	3495.88	0.00	527957.99	718398.92	
11300.00	90.23	0.00	7938.01	3595.88	0.23	3595.88	0.00	528057.99	718398.93	
11400.00	90.23	0.00	7937.61	3695.88	0.24	3695.88	0.00	528157.99	718398.94	
11500.00	90.23	0.00	7937.22	3795.88	0.24	3795.88	0.00	528257.99	718398.94	
11600.00	90.23	0.00	7936.82	3895.88	0.25	3895.88	0.00	528357.99	718398.95	
11700.00	90.23	0.00	7936.42	3995.88	0.26	3995.88	0.00	528457.99	718398.96	
11800.00	90.23	0.00	7936.02	4095.88	0.26	4095.88	0.00	528557.99	718398.96	
11900.00	90.23	0.00	7935.63	4195.88	0.27	4195.88	0.00	528657.99	718398.97	
12000.00	90.23	0.00	7935.23	4295.88	0.28	4295.88	0.00	528757.99	718398.98	
12100.00	90.23	0.00	7934.83	4395.88	0.28	4395.88	0.00	528857.99	718398.98	
12200.00	90.23	0.00	7934.44	4495.88	0.29	4495.88	0.00	528957.99	718398.99	
12300.00	90.23	0.00	7934.04	4595.88	0.29	4595.88	0.00	529057.99	718398.99	
12400.00	90.23	0.00	7933.64	4695.88	0.30	4695.88	0.00	529157.99	718399.00	
12500.00	90.23	0.00	7933.25	4795.87	0.31	4795.87	0.00	529257.98	718399.01	
12600.00	90.23	0.00	7932.85	4895.87	0.31	4895.87	0.00	529357.98	718399.01	
12700.00	90.23	0.00	7932.45	4995.87	0.32	4995.87	0.00	529457.98	718399.02	
12800.00	90.23	0.00	7932.05	5095.87	0.33	5095.87	0.00	529557.98	718399.03	
12900.00	90.23	0.00	7931.66	5195.87	0.33	5195.87	0.00	529657.98	718399.03	
13000.00	90.23	0.00	7931.26	5295.87	0.34	5295.87	0.00	529757.98	718399.04	
13100.00	90.23	0.00	7930.86	5395.87	0.35	5395.87	0.00	529857.98	718399.05	
13200.00	90.23	0.00	7930.47	5495.87	0.35	5495.87	0.00	529957.98	718399.05	
13300.00	90.23	0.00	7930.07	5595.87	0.36	5595.87	0.00	530057.98	718399.06	
13317.34	90.23	0.00	7930.00	5613.21	0.36	5613.21	0.00	530075.32	718399.06	PBHL



Weatherford International Ltd.

WFT Plan Report - X & Y's



Weatherford

Company: Devon Energy
Field: Eddy Co., NM (NAD 83)
Site: Big Aristotle 27 State #2H
Well: BA 27 State #2H
Wellpath: 1

Date: 3/21/2012 Time: 07:57:27 Page: 3
Co-ordinate(NE) Reference: Well: BA 27 State #2H, Grid North
Vertical (TVD) Reference: SITE 3517.0
Section (VS) Reference: Well (0.00N,0.00E,0.00Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

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		7930.00	5613.21	0.36	530075.32	718399.06	32 27 21.348 N	103 45 33.462 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7377.05	7377.05	KOP
8279.32	7950.00	LP
13317.34	7930.00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: March 21, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Big Aristotle 27 State #2H
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 524462.110 USFT	Latitude 32.4405039 DEG
East/West 718398.700 USFT	Longitude -103.7593893 DEG
Grid Convergence: .31°	
Total Correction: +7.22°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.44050° N	32° 26 min 25.814 sec
Longitude =	103.75939° W	103° 45 min 33.802 sec

Magnetic Declination =	7.53°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6510
Local Field Strength =	48614 nT	Magnetic Vector X = 23862 nT
Magnetic Dip =	60.32°	Magnetic Vector Y = 3153 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42237 nT
Spud Date =	Oct 15, 2012	Magnetic Vector H = 24070 nT

Signed: _____

Date: _____