



Weatherford[®]

Drilling Services

Bo 015-40106

Proposal



devon

BIG ARISTOTLE 27 STATE #1H

EDDY COUNTY, NM

WELL FILE: **PLAN 1**

MARCH 20, 2012

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Big Aristotle 27 State #1H Eddy Co., New Mexico

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	356.74	0.00	0.00	0.00	0.00	0.00	0.00	
2	7352.05	0.00	356.74	7352.05	0.00	0.00	0.00	0.00	0.00	
3	8254.32	90.23	356.74	7925.00	574.30	-32.70	10.00	356.74	575.23	
4	13300.35	90.23	356.74	7905.00	5612.13	-319.57	0.00	0.00	5621.22	PBHL

WELL DETAILS							
Name	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
BA 27 State #1H	0.00	0.00	524457.35	717398.93	32°26'25.810N	103°45'45.485W	N/A

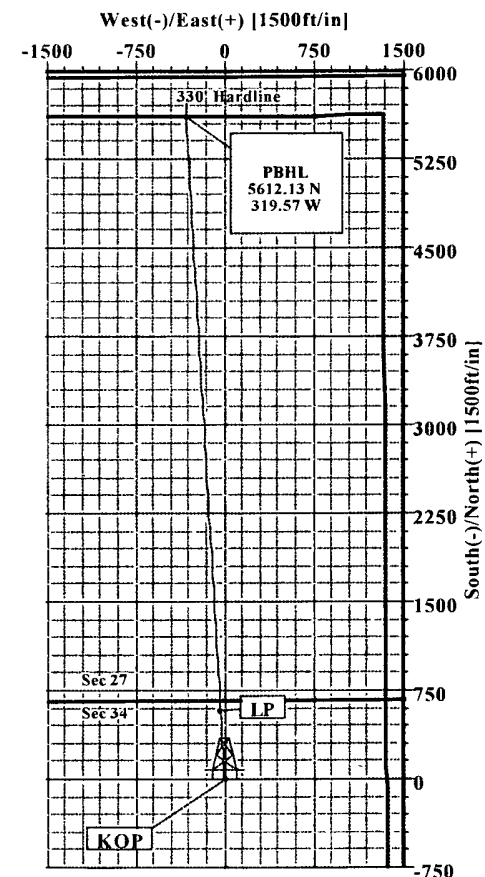
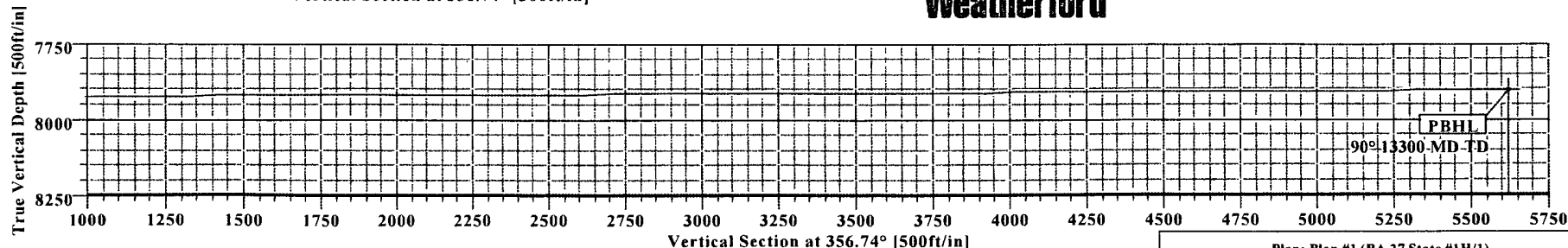
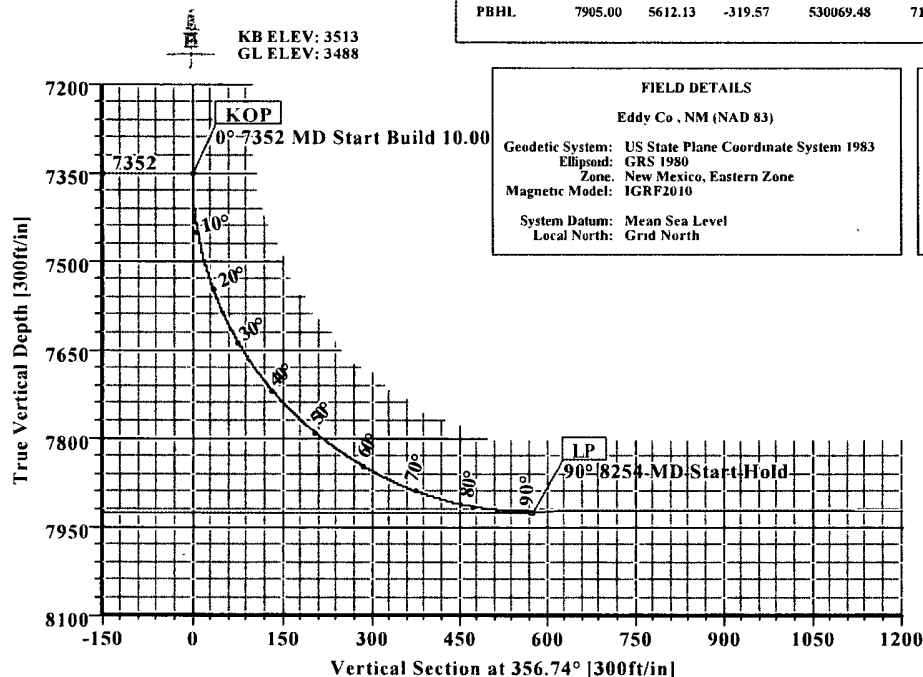
TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	7905.00	5612.13	-319.57	530069.48	717079.36	32°27'21.360N	103°45'48.864W	Point

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 #1H	
Site Centre Northing: 524457.35	
Easting: 717398.93	
Ground Level: 3488.00	
Positional Uncertainty: 0.00	
Convergence: 0.31	

Azimuths to Grid North	
True North: -0.31°	
Magnetic North: 7.23°	
Magnetic Field	
Strength: 48620nT	
Dip Angle: 60.32°	
Date: 9/15/2012	
Model: IGRF2010	
Total Correction to Grid North: 7.23°	

LEGEND	
	1
	Plan #1



SHL
See Well
Details



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/20/2012	Time: 08 56 14	Page: 1
Field: Eddy Co , NM (NAD 83)	Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North		
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference: SITE 3513.0		
Well: BA 27 State #1H	Section (VS) Reference: Well (0 00N;0 00E,356.74Azi)		
Wellpath: 1	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Plan: Plan #1	Date Composed: 3/20/2012
Principal: Yes	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 #1H

Site Position:	Northing: 524457 35 ft	Latitude: 32 26 25 810 N
From: Map	Easting: 717398.93 ft	Longitude: 103 45 45 485 W
Position Uncertainty: 0.00 ft		North Reference: Grid
Ground Level: 3488 00 ft		Grid Convergence: 0.31 deg

Well: BA 27 State #1H

Slot Name:

Well Position: +N/-S 0 00 ft	Northing: 524457 35 ft	Latitude: 32 26 25.810 N
+E/-W 0.00 ft	Easting: 717398 93 ft	Longitude: 103 45 45 485 W
Position Uncertainty: 0.00 ft		

Wellpath: 1

Drilled From: Surface

Current Datum: SITE	Height 3513.00 ft	Tie-on Depth: 0.00 ft
Magnetic Data: 9/15/2012		Above System Datum: Mean Sea Level
Field Strength: 48626 nT		Declination: 7 54 deg
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60 32 deg
	ft	+E/-W
		Direction
		deg
0 00	0 00	0 00 356 74

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	356 74	0 00	0 00	0 00	0 00	0 00	0 00	0 00	
7352 05	0 00	356.74	7352 05	0 00	0 00	0 00	0 00	0 00	0 00	
8254.32	90.23	356 74	7925 00	574.30	-32.70	10.00	10 00	0 00	356 74	
13300 35	90 23	356 74	7905 00	5612 13	-319 57	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	356 74	7300 00	0 00	0 00	0 00	0 00	524457 35	717398 93	KOP
7352.05	0 00	356.74	7352 05	0 00	0 00	0 00	0 00	524457.35	717398 93	
7400 00	4.80	356.74	7399 94	2.00	-0.11	2 01	10 00	524459 35	717398 82	
7500.00	14 80	356.74	7498 36	18 97	-1 08	19 00	10 00	524476 32	717397.85	
7600 00	24 80	356.74	7592 33	52 73	-3 00	52 82	10 00	524510 08	717395.93	
7700 00	34.80	356 74	7679 00	102 28	-5 82	102 45	10.00	524559.63	717393 11	LP
7800.00	44.80	356.74	7755 74	166.10	-9.46	166 37	10.00	524623.45	717389.47	
7900 00	54 80	356 74	7820 21	242 25	-13 79	242.65	10 00	524699 60	717385.14	
8000 00	64 80	356 74	7870 46	328 43	-18 70	328 96	10 00	524785.78	717380 23	
8100 00	74 80	356 74	7904.95	422 00	-24.03	422 69	10.00	524879 35	717374 90	
8200.00	84.80	356.74	7922.65	520 14	-29 62	520 98	10 00	524977.49	717369.31	
8254.32	90 23	356 74	7925.00	574.30	-32 70	575 23	10.00	525031 65	717366 23	
8300.00	90.23	356 74	7924 82	619 90	-35 30	620 91	0 00	525077.25	717363.63	
8400 00	90 23	356.74	7924.43	719 74	-40.98	720.91	0 00	525177 09	717357 95	
8500.00	90.23	356.74	7924.03	819.58	-46.67	820 91	0.00	525276.93	717352.26	
8600 00	90.23	356 74	7923 63	919 42	-52.35	920.91	0 00	525376.77	717346 58	
8700 00	90 23	356 74	7923 24	1019.25	-58 04	1020 90	0 00	525476 60	717340 89	



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WFT Plan Report - X & Y's

**Weatherford**

Company: Devon Energy	Date: 3/20/2012	Time: 08.56.14	Page: 2
Field: Eddy Co., NM (NAD 83)	Co-ordinate(NE) Reference: Well: BA 27 State #1H, Grid North		
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference: SITE 3513 0		
Well: BA 27 State #1H	Section (VS) Reference: Well (0 00N,0 00E,356.74Azi)		
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	356.74	7922.84	1119.09	-63.72	1120.90	0.00	525576.44	717335.21	
8900.00	90.23	356.74	7922.44	1218.93	-69.41	1220.90	0.00	525676.28	717329.52	
9000.00	90.23	356.74	7922.05	1318.77	-75.09	1320.90	0.00	525776.12	717323.84	
9100.00	90.23	356.74	7921.65	1418.60	-80.78	1420.90	0.00	525875.95	717318.15	
9200.00	90.23	356.74	7921.25	1518.44	-86.46	1520.90	0.00	525975.79	717312.47	
9300.00	90.23	356.74	7920.86	1618.28	-92.15	1620.90	0.00	526075.63	717306.78	
9400.00	90.23	356.74	7920.46	1718.12	-97.83	1720.90	0.00	526175.47	717301.10	
9500.00	90.23	356.74	7920.07	1817.95	-103.52	1820.90	0.00	526275.30	717295.41	
9600.00	90.23	356.74	7919.67	1917.79	-109.20	1920.90	0.00	526375.14	717289.73	
9700.00	90.23	356.74	7919.27	2017.63	-114.89	2020.90	0.00	526474.98	717284.04	
9800.00	90.23	356.74	7918.88	2117.47	-120.57	2120.90	0.00	526574.82	717278.36	
9900.00	90.23	356.74	7918.48	2217.30	-126.26	2220.89	0.00	526674.65	717272.67	
10000.00	90.23	356.74	7918.08	2317.14	-131.94	2320.89	0.00	526774.49	717266.99	
10100.00	90.23	356.74	7917.69	2416.98	-137.63	2420.89	0.00	526874.33	717261.30	
10200.00	90.23	356.74	7917.29	2516.82	-143.31	2520.89	0.00	526974.17	717255.62	
10300.00	90.23	356.74	7916.89	2616.65	-149.00	2620.89	0.00	527074.00	717249.93	
10400.00	90.23	356.74	7916.50	2716.49	-154.68	2720.89	0.00	527173.84	717244.25	
10500.00	90.23	356.74	7916.10	2816.33	-160.37	2820.89	0.00	527273.68	717238.56	
10600.00	90.23	356.74	7915.70	2916.17	-166.05	2920.89	0.00	527373.52	717232.88	
10700.00	90.23	356.74	7915.31	3016.00	-171.74	3020.89	0.00	527473.35	717227.19	
10800.00	90.23	356.74	7914.91	3115.84	-177.42	3120.89	0.00	527573.19	717221.51	
10900.00	90.23	356.74	7914.52	3215.68	-183.11	3220.89	0.00	527673.03	717215.82	
11000.00	90.23	356.74	7914.12	3315.52	-188.79	3320.89	0.00	527772.87	717210.14	
11100.00	90.23	356.74	7913.72	3415.35	-194.48	3420.89	0.00	527872.70	717204.45	
11200.00	90.23	356.74	7913.33	3515.19	-200.16	3520.88	0.00	527972.54	717198.77	
11300.00	90.23	356.74	7912.93	3615.03	-205.85	3620.88	0.00	528072.38	717193.08	
11400.00	90.23	356.74	7912.53	3714.87	-211.53	3720.88	0.00	528172.22	717187.40	
11500.00	90.23	356.74	7912.14	3814.70	-217.22	3820.88	0.00	528272.05	717181.71	
11600.00	90.23	356.74	7911.74	3914.54	-222.90	3920.88	0.00	528371.89	717176.03	
11700.00	90.23	356.74	7911.34	4014.38	-228.59	4020.88	0.00	528471.73	717170.34	
11800.00	90.23	356.74	7910.95	4114.22	-234.27	4120.88	0.00	528571.57	717164.66	
11900.00	90.23	356.74	7910.55	4214.05	-239.96	4220.88	0.00	528671.40	717158.97	
12000.00	90.23	356.74	7910.15	4313.89	-245.64	4320.88	0.00	528771.24	717153.29	
12100.00	90.23	356.74	7909.76	4413.73	-251.33	4420.88	0.00	528871.08	717147.60	
12200.00	90.23	356.74	7909.36	4513.57	-257.01	4520.88	0.00	528970.92	717141.92	
12300.00	90.23	356.74	7908.97	4613.40	-262.70	4620.88	0.00	529070.75	717136.23	
12400.00	90.23	356.74	7908.57	4713.24	-268.38	4720.88	0.00	529170.59	717130.55	
12500.00	90.23	356.74	7908.17	4813.08	-274.07	4820.87	0.00	529270.43	717124.86	
12600.00	90.23	356.74	7907.78	4912.92	-279.75	4920.87	0.00	529370.27	717119.18	
12700.00	90.23	356.74	7907.38	5012.75	-285.44	5020.87	0.00	529470.10	717113.49	
12800.00	90.23	356.74	7906.98	5112.59	-291.12	5120.87	0.00	529569.94	717107.81	
12900.00	90.23	356.74	7906.59	5212.43	-296.81	5220.87	0.00	529669.78	717102.12	
13000.00	90.23	356.74	7906.19	5312.27	-302.49	5320.87	0.00	529769.62	717096.44	
13100.00	90.23	356.74	7905.79	5412.10	-308.18	5420.87	0.00	529869.45	717090.75	
13200.00	90.23	356.74	7905.40	5511.94	-313.86	5520.87	0.00	529969.29	717085.07	
13300.00	90.23	356.74	7905.00	5611.78	-319.55	5620.87	0.00	530069.13	717079.38	



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WFT Plan Report - X & Y's



Company: Devon Energy	Date: 3/20/2012	Time: 08:56 14	Page: 3
Field: Eddy Co , NM (NAD 83)	Co-ordinate(NE) Reference: Well. BA 27 State #1H, Grid:North		
Site: Big Aristotle 27 State #1H	Vertical (TVD) Reference: SITE 3513 0		
Well: BA 27 State #1H	Section (VS) Reference: Well (0.00N,0.00E,356.74Azi)		
Wellpath: 1	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			7905 00	5612.13	-319.57	530069 48	717079.36	32 27 21.360 N	103 45 48.864 W

Casing Points

MD	TVD	Diameter	Hole Size	Name

Annotation

MD ft	TVD ft	
7352.05	7352 05	KOP
8254 32	7925 00	LP
13300.35	7905 00	PBHL

Formations

MD	TVD	Formations	Lithology	Dip Angle	Dip Direction

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

GeoDec v5.03

Report Date: March 20, 2012
Job Number: _____
Customer: Devon Energy
Well Name: Big Aristotle 27 State #1H
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 524457.350 USFT	Latitude 32.4405056 DEG
East/West 717398.930 USFT	Longitude -103.7626300 DEG
Grid Convergence: .31°	
Total Correction: +7.23°	

Geodetic Location WGS84	Elevation =	0.0 Meters
Latitude =	32.44051° N	32° 26 min 25.820 sec
Longitude =	103.76263° W	103° 45 min 45.468 sec

Magnetic Declination =	7.54°	[True North Offset]
Local Gravity =	.9988 g	Checksum = 6514
Local Field Strength =	48622 nT	Magnetic Vector X = 23865 nT
Magnetic Dip =	60.32°	Magnetic Vector Y = 3158 nT
Magnetic Model =	IGRF-2010g11	Magnetic Vector Z = 42245 nT
Spud Date =	Sep 15, 2012	Magnetic Vector H = 24073 nT

Signed: _____

Date: _____