

5D Plan Report

Devon Energy

Field Name: *Eddy Co, NM (Nad 83 NME)*

Site Name: *Ark 36 State 1H*

Well Name: *Ark 36 State 1H*

Plan: *P1:V2*

10 February 2014





Ark 36 State 1H
Eddy Co, NM



Weatherford

Plan Data for Ark 36 State 1H

Plan Point Information:									
DogLeg Severity Unit: °/100.00ft				Position offsets from Slot centre					
MD	Inc	Az	TVD	+N/-S	+E/-W	Northing	Easting	VSec	DLS
(USft)	(°)	(°)	(USft)	(USft)	(USft)	(USft)	(USft)	(USft)	(DLSU)
0.00	0.00	0.00	0.00	0.00	0.00	488398.72	725358.24	0.00	0.00
9735.63	0.00	0.00	9735.63	0.00	0.00	488398.72	725358.24	0.00	0.00
9858.70	12.31	270.87	9857.75	0.20	-13.16	488398.92	725345.08	0.28	10.00
10756.09	90.00	359.65	10415.00	572.39	-138.24	488971.11	725220.00	573.22	10.00
14941.40	90.00	359.65	10415.00	4757.62	-164.11	493156.34	725194.13	4758.53	0.00

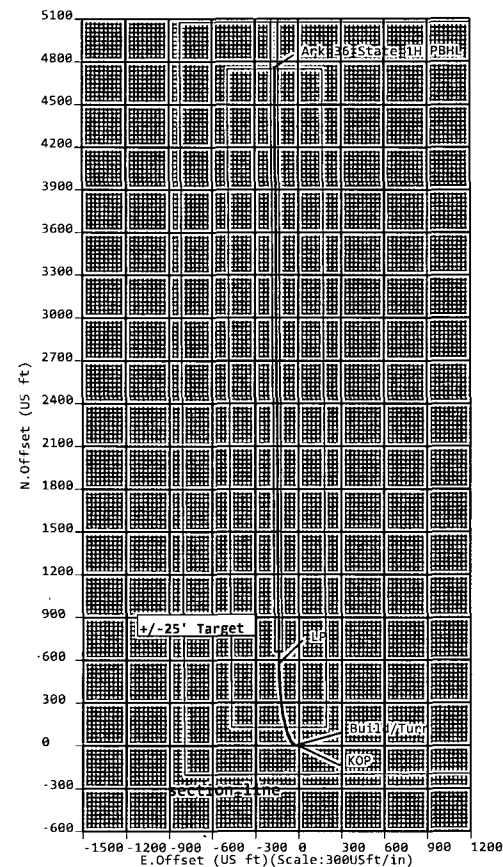
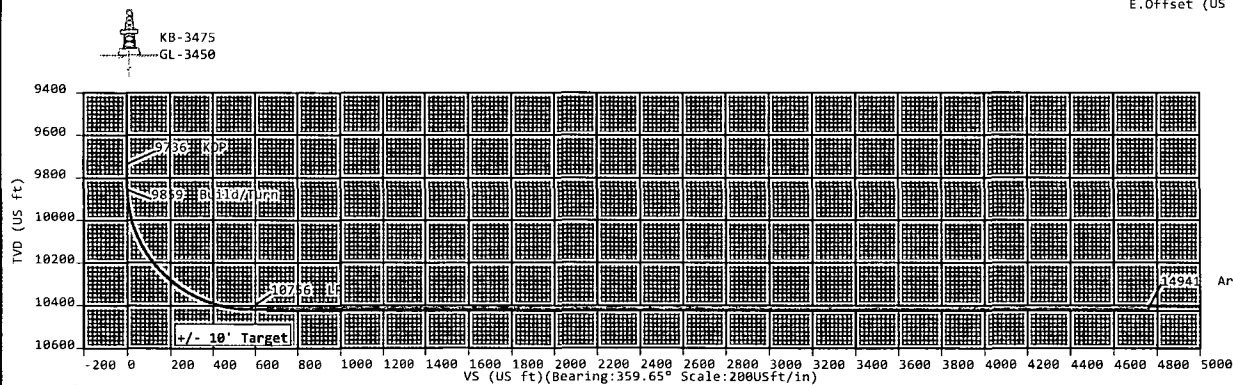
Plan Data for Ark 36 State 1H

Slot: Ark 36 State 1H
Position:
Offset is from Site centre
+N/-S: 0.00USft Northing: 488398.72USft Latitude: 32°20'28.6"
+E/-W: 0.00USft Easting: 725358.24USft Longitude: -103°44'14.9"
Elevation Above VRD: 3450.00USft

Plan Data for Ark 36 State 1H

Target Set Information:
Name: Ark 36 State 1H
Position offsets from Slot centre
Name TVD +N/-S +E/-W Northing Easting Shape Comment
(USft) (USft) (USft) (USft) (USft)
LP Tgt 10415.00 572.39 -138.24 488971.11 725220.00 Cuboid
PBHL 10415.00 4757.62 -164.11 493156.34 725194.13 Cuboid

Ark 36 State 1H



Ark 36 State 1H PBHL

Sign Off: Russell Joyner

Ark 36 State 1H

Field Name Eddy Co, NM (Nad 83 NME)	Map Units : US ft		Company Name : Devon Energy	
	Vertical Reference Datum (VRD) : Mean Sea Level			
	Projected Coordinate System : NAD83 / New Mexico East (ftUS)			
	Comment :			
Site Name Ark 36 State 1H	Units : US ft	North Reference : Grid	Convergence Angle : 0.32	
	Position	Northing : 488398.72 US ft	Latitude : 32° 20' 28.58"	
		Easting : 725358.24 US ft	Longitude : -103° 44' 14.94"	
	Elevation above Mean Sea Level: 3450.00 US ft			
Comment :				
Slot Name Ark 36 State 1H	Position (Offsets relative to Site Centre)			
	+N / -S : 0.00 US ft	Northing : 488398.72 US ft	Latitude : 32°20'28.58"	
	+E / -W : 0.00 US ft	Easting : 725358.24 US ft	Longitude : -103°44'14.94"	
	Elevation above Mean Sea Level : 3450.00 US ft			
Comment :				
Well Name Ark 36 State 1H	Type : Main well		UWI :	Plan : P1:V2
	Rig Height Drill Floor : 25.00 US ft		Comment :	
	Relative to Mean Sea Level: 3475.00 US ft			
	Closure Distance : 4760.45 US ft		Closure Azimuth : 358.024°	
	Vertical Section (Position of Origin Relative to Slot)			
	+N / -S : 0.00 US ft		+E / -W : 0.00 US ft	Az : 359.65°
	Magnetic Parameters			
	Model : BGGM	Field Strength : 48393.6nT	Dec : 7.45°	Dip : 60.18°
	Date : 30/Mar/2014			

Target Set

Name : Ark 36 State 1H **Number of Targets :** 2

Comment :

Target Name: LP Tgt Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 572.39US ft	Northing : 488971.11 US ft	Latitude : 32°20'34.25"	
	+E / -W : -138.24 US ft	Easting : 725220.00US ft	Longitude : -103°44'16.51"	
	TVD (Drill Floor) : 10415.00 US ft			
Target Name: PBHL Shape: Cuboid	Position (Relative to Slot centre)			
	+N / -S : 4757.62US ft	Northing : 493156.34 US ft	Latitude : 32°21'15.67"	
	+E / -W : -164.11 US ft	Easting : 725194.13US ft	Longitude : -103°44'16.54"	
	TVD (Drill Floor) : 10415.00 US ft			
Orientation	Azimuth : 0.00°	Inclination : 0.00°		
	Dimensions	Length : 0.00 US ft	Breadth : 0.00 US ft	Height : 0.00 US ft
Orientation	Azimuth : 359.65°	Inclination : 0.00°		
	Dimensions	Length : 8200.00 US ft	Breadth : 50.00 US ft	Height : 20.00 US ft

5D Plan Report

Well path created using minimum curvature

Salient Points (Relative to Slot centre, TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	DLS (°/100 US ft)	VS (US ft)	B. Rate (°/100 US ft)	T. Rate (°/100 US ft)	T. Face (°)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
9735.63	0.00	0.00	9735.63	0.00	0.00	0.00	0.00	0.00	0.00	0.00	KOP
9858.70	12.31	270.87	9857.75	0.20	-13.16	10.00	0.28	10.00	0.00	270.87	Build/Turn
10756.09	90.00	359.65	10415.00	572.39	-138.24	10.00	573.22	8.66	9.89	88.80	LP
14941.40	90.00	359.65	10415.00	4757.62	-164.11	0.00	4758.53	0.00	0.00	0.00	Ark 36 State 1H PBHL

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)											Comment
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)		
9700.00	0.00	0.00	9700.00	0.00	0.00	0.00	0.00	488398.72	725358.24		
9735.63	0.00	0.00	9735.63	0.00	0.00	0.00	0.00	488398.72	725358.24		KOP
9800.00	6.44	270.87	9799.86	0.05	-3.61	0.08	10.00	488398.77	725354.63		
9858.70	12.31	270.87	9857.75	0.20	-13.16	0.28	10.00	488398.92	725345.08		Build/Turn
9900.00	13.05	289.46	9898.06	1.82	-21.97	1.96	10.00	488400.54	725336.27		
10000.00	18.85	319.94	9994.34	17.99	-43.06	18.25	10.00	488416.71	725315.18		
10100.00	27.15	334.47	10086.38	51.02	-63.34	51.41	10.00	488449.74	725294.90		
10200.00	36.27	342.35	10171.40	99.92	-82.19	100.42	10.00	488498.64	725276.05		
10300.00	45.72	347.37	10246.81	163.20	-99.03	163.80	10.00	488561.92	725259.21		
10400.00	55.33	350.97	10310.32	238.93	-113.35	239.62	10.00	488637.65	725244.89		
10500.00	65.02	353.81	10360.01	324.82	-124.72	325.58	10.00	488723.54	725233.52		
10600.00	74.76	356.24	10394.36	418.26	-132.78	419.06	10.00	488816.98	725225.46		
10700.00	84.52	358.45	10412.32	516.40	-137.31	517.23	10.00	488915.12	725220.93		
10756.09	90.00	359.65	10415.00	572.39	-138.24	573.22	10.00	488971.11	725220.00		LP
10800.00	90.00	359.65	10415.00	616.30	-138.51	617.14	0.00	489015.02	725219.73		
10900.00	90.00	359.65	10415.00	716.30	-139.13	717.14	0.00	489115.02	725219.11		
11000.00	90.00	359.65	10415.00	816.30	-139.75	817.14	0.00	489215.02	725218.49		
11100.00	90.00	359.65	10415.00	916.29	-140.37	917.13	0.00	489315.01	725217.87		
11200.00	90.00	359.65	10415.00	1016.29	-140.98	1017.13	0.00	489415.01	725217.26		
11300.00	90.00	359.65	10415.00	1116.29	-141.60	1117.13	0.00	489515.01	725216.64		
11400.00	90.00	359.65	10415.00	1216.29	-142.22	1217.13	0.00	489615.01	725216.02		
11500.00	90.00	359.65	10415.00	1316.29	-142.84	1317.13	0.00	489715.01	725215.40		
11600.00	90.00	359.65	10415.00	1416.28	-143.46	1417.13	0.00	489815.00	725214.78		
11700.00	90.00	359.65	10415.00	1516.28	-144.07	1517.13	0.00	489915.00	725214.17		
11800.00	90.00	359.65	10415.00	1616.28	-144.69	1617.13	0.00	490015.00	725213.55		
11900.00	90.00	359.65	10415.00	1716.28	-145.31	1717.13	0.00	490115.00	725212.93		
12000.00	90.00	359.65	10415.00	1816.28	-145.93	1817.13	0.00	490215.00	725212.31		
12100.00	90.00	359.65	10415.00	1916.27	-146.55	1917.13	0.00	490314.99	725211.69		
12200.00	90.00	359.65	10415.00	2016.27	-147.17	2017.13	0.00	490414.99	725211.07		
12299.99	90.00	359.65	10415.00	2116.27	-147.78	2117.13	0.00	490514.99	725210.46		
12399.99	90.00	359.65	10415.00	2216.27	-148.40	2217.13	0.00	490614.99	725209.84		
12499.99	90.00	359.65	10415.00	2316.27	-149.02	2317.13	0.00	490714.99	725209.22		
12599.99	90.00	359.65	10415.00	2416.26	-149.64	2417.13	0.00	490814.98	725208.60		
12699.99	90.00	359.65	10415.00	2516.26	-150.26	2517.13	0.00	490914.98	725207.98		
12799.99	90.00	359.65	10415.00	2616.26	-150.87	2617.13	0.00	491014.98	725207.37		
12899.99	90.00	359.65	10415.00	2716.26	-151.49	2717.13	0.00	491114.98	725206.75		
12999.99	90.00	359.65	10415.00	2816.25	-152.11	2817.13	0.00	491214.97	725206.13		
13099.99	90.00	359.65	10415.00	2916.25	-152.73	2917.13	0.00	491314.97	725205.51		
13199.99	90.00	359.65	10415.00	3016.25	-153.35	3017.13	0.00	491414.97	725204.89		
13299.99	90.00	359.65	10415.00	3116.25	-153.96	3117.13	0.00	491514.97	725204.28		
13399.99	90.00	359.65	10415.00	3216.25	-154.58	3217.13	0.00	491614.97	725203.66		
13499.99	90.00	359.65	10415.00	3316.24	-155.20	3317.13	0.00	491714.96	725203.04		
13599.99	90.00	359.65	10415.00	3416.24	-155.82	3417.13	0.00	491814.96	725202.42		
13699.99	90.00	359.65	10415.00	3516.24	-156.44	3517.13	0.00	491914.96	725201.80		

5D Plan Report

Interpolated Points (Relative to Slot centre, TVD relative to Drill Floor)										
MD (US ft)	Inc. (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment
13799.99	90.00	359.65	10415.00	3616.24	-157.05	3617.13	0.00	492014.96	725201.19	
13899.99	90.00	359.65	10415.00	3716.24	-157.67	3717.13	0.00	492114.96	725200.57	
13999.99	90.00	359.65	10415.00	3816.23	-158.29	3817.13	0.00	492214.95	725199.95	
14099.99	90.00	359.65	10415.00	3916.23	-158.91	3917.13	0.00	492314.95	725199.33	
14199.99	90.00	359.65	10415.00	4016.23	-159.53	4017.13	0.00	492414.95	725198.71	
14299.99	90.00	359.65	10415.00	4116.23	-160.15	4117.13	0.00	492514.95	725198.09	
14399.99	90.00	359.65	10415.00	4216.22	-160.76	4217.13	0.00	492614.94	725197.48	
14499.99	90.00	359.65	10415.00	4316.22	-161.38	4317.13	0.00	492714.94	725196.86	
14599.99	90.00	359.65	10415.00	4416.22	-162.00	4417.13	0.00	492814.94	725196.24	
14699.99	90.00	359.65	10415.00	4516.22	-162.62	4517.13	0.00	492914.94	725195.62	
14799.99	90.00	359.65	10415.00	4616.22	-163.24	4617.13	0.00	493014.94	725195.00	
14899.99	90.00	359.65	10415.00	4716.21	-163.85	4717.13	0.00	493114.93	725194.39	
14941.40	90.00	359.65	10415.00	4757.62	-164.11	4758.53	0.00	493156.34	725194.13	Ark 36 State 1H PBHL

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

GeoDec v5.03

Report Date: February 10, 2014

Job Number: _____

Customer: Devon Energy

Well Name: Ark 36 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 488398.720 USFT

Latitude 32.3412722 DEG

East/West 725358.240 USFT

Longitude -103.7374822 DEG

Grid Convergence: .32°

Total Correction: +7.13°

Geodetic Location WGS84

Elevation = 0.0 Meters

Latitude = 32.34127° N 32° 20 min 28.580 sec

Longitude = 103.73748° W 103° 44 min 14.936 sec

Magnetic Declination = 7.45° [True North Offset]

Local Gravity = .9988 g CheckSum = 6600

Local Field Strength = 48394 nT Magnetic Vector X = 23860 nT

Magnetic Dip = 60.18° Magnetic Vector Y = 3118 nT

Magnetic Model = bggm2013 Magnetic Vector Z = 41987 nT

Spud Date = Mar 30, 2014 Magnetic Vector H = 24063 nT

Signed: _____

Date: _____

Ark 36 State 1H

Field: Eddy Co, NM (Nad 83 NME)

Map Units:	US ft
Vertical Reference Datum (VRD):	Mean Sea Level
Projected Coordinate System:	NAD83 / New Mexico East (ftUS)

Site: Ark 36 State 1H

Company Name:	Devon Energy
Units:	US ft
TVD Reference:	

Position:

Northing:	488398.72US ft	Latitude:	32° 20' 28.58"
Easting:	725358.24US ft	Longitude:	-103° 44' 14.94"

North Reference:	Grid	Convergence Angle: 0.32
Elevation above Mean Sea Level :	3450.00US ft	
Comment :		

Slot: Ark 36 State 1H

Position (Relative to Site centre)

+N/-S: 0.00US ft	Northing:	488398.72US ft	Latitude:	32°20'28.58"
+E/-W: 0.00US ft	Easting:	725358.24US ft	Longitude:	-103°44'14.94"
Elevation above Mean Sea Level :	3450.00US ft			
Comment :				

Well: Ark 36 State 1H

Type:	Main well	Rig Height (Drill Floor):	25.00US ft	Relative To Mean Sea Level:	3475.00US ft
File Number:					
Plan Folder:	P1	Plan:	P1:V2		
Closure Distance:	4760.45US ft	Closure Azimuth:	358.024°		
Comment:					

Vertical Section:

Position of Origin (Relative to Slot centre)	+N/-S: 0.00US ft	+E/-W: 0.00US ft
Vertical Section Azimuth:	359.65°	

Magnetic Parameters:

Model: BGGM	Field Strength: 48393.6 nT	Declination: 7.45°	Dip: 60.18°	Date: 30/Mar/2014 (dd/mm/yyyy)
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Target Set: Ark 36 State 1H

Number of Targets: 2

Target: LP Tgt

Position: (Relative to Slot centre)

+N/-S: 572.39	Northing: 488971.11	Latitude: 32°20'34.25"
+E/-W: -138.24	Easting: 725220.00	Longitude: -103°44'16.51"
TVD (Drill Floor) :	10415.00 US ft	

Shape: Cuboid

Orientation	Inclination: 0.00°	Azimuth: 0.00°									
Dimensions	Length: 0.00	Breadth: 0.00	Height: 0.00								
Target: PBHL											
Position: (Relative to Slot centre)											
+N/-S: 4757.62	Northing: 493156.34	Latitude: 32°21'15.67"									
+E/-W: -164.11	Easting: 725194.13	Longitude: -103°44'16.54"									
TVD (Drill Floor) :	10415.00 US ft										
Shape: Cuboid											
Orientation	Inclination: 0.00°	Azimuth: 359.65°									
Dimensions	Length: 8200.00	Breadth: 50.00	Height: 20.00								
Casing Points: (Relative to Slot Centre, TVD Relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	Northing (US ft)	Easting (US ft)	Name			
Wellpath created using minimum curvature											
Salient Points: (Relative to Slot Centre, TVD Relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	DLS (°/100 US ft)	VS (US ft)	B.Rate (°/100 US ft)	T.Rate (°/100 US ft)	T.Face (°)	Comment
0	0	0	0	0	0	0	0	0	0	0	
9735.63	0	0	9735.63	0	0	0	0	0	0	0	KOP
9858.7	12.31	270.87	9857.75	0.2	-13.16	10	0.28	10	0	270.87	Build/Turn
10756.09	90	359.65	10415	572.39	-138.24	10	573.22	8.66	9.89	88.8	LP
14941.4	90	359.65	10415	4757.62	-164.11	0	4758.53	0	0	0	Ark 36 State 1H PBHL
Interpolated Points: (Relative to Slot Centre, TVD Relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N.Offset (US ft)	E.Offset (US ft)	VS (US ft)	DLS (°/100 US ft)	Northing (US ft)	Easting (US ft)	Comment	
9700	0	0	9700	0	0	0	0	488398.72	725358.24		
9735.63	0	0	9735.63	0	0	0	0	488398.72	725358.24	KOP	
9800	6.44	270.87	9799.86	0.05	-3.61	0.08	10	488398.77	725354.63		
9858.7	12.31	270.87	9857.75	0.2	-13.16	0.28	10	488398.92	725345.08	Build/Turn	
9900	13.05	289.46	9898.06	1.82	-21.97	1.96	10	488400.54	725336.27		
10000	18.85	319.94	9994.34	17.99	-43.06	18.25	10	488416.71	725315.18		
10100	27.15	334.47	10086.38	51.02	-63.34	51.41	10	488449.74	725294.9		
10200	36.27	342.35	10171.4	99.92	-82.19	100.42	10	488498.64	725276.05		
10300	45.72	347.37	10246.81	163.2	-99.03	163.8	10	488561.92	725259.21		
10400	55.33	350.97	10310.32	238.93	-113.35	239.62	10	488637.65	725244.89		
10500	65.02	353.81	10360.01	324.82	-124.72	325.58	10	488723.54	725233.52		
10600	74.76	356.24	10394.36	418.26	-132.78	419.06	10	488816.98	725225.46		
10700	84.52	358.45	10412.32	516.4	-137.31	517.23	10	488915.12	725220.93		
10756.09	90	359.65	10415	572.39	-138.24	573.22	10	488971.11	725220	LP	
10800	90	359.65	10415	616.3	-138.51	617.14	0	489015.02	725219.73		
10900	90	359.65	10415	716.3	-139.13	717.14	0	489115.02	725219.11		
11000	90	359.65	10415	816.3	-139.75	817.14	0	489215.02	725218.49		
11100	90	359.65	10415	916.29	-140.37	917.13	0	489315.01	725217.87		

11200	90	359.65	10415	1016.29	-140.98	1017.13	0	489415.01	725217.26
11300	90	359.65	10415	1116.29	-141.6	1117.13	0	489515.01	725216.64
11400	90	359.65	10415	1216.29	-142.22	1217.13	0	489615.01	725216.02
11500	90	359.65	10415	1316.29	-142.84	1317.13	0	489715.01	725215.4
11600	90	359.65	10415	1416.28	-143.46	1417.13	0	489815	725214.78
11700	90	359.65	10415	1516.28	-144.07	1517.13	0	489915	725214.17
11800	90	359.65	10415	1616.28	-144.69	1617.13	0	490015	725213.55
11900	90	359.65	10415	1716.28	-145.31	1717.13	0	490115	725212.93
12000	90	359.65	10415	1816.28	-145.93	1817.13	0	490215	725212.31
12100	90	359.65	10415	1916.27	-146.55	1917.13	0	490314.99	725211.69
12200	90	359.65	10415	2016.27	-147.17	2017.13	0	490414.99	725211.07
12299.99	90	359.65	10415	2116.27	-147.78	2117.13	0	490514.99	725210.46
12399.99	90	359.65	10415	2216.27	-148.4	2217.13	0	490614.99	725209.84
12499.99	90	359.65	10415	2316.27	-149.02	2317.13	0	490714.99	725209.22
12599.99	90	359.65	10415	2416.26	-149.64	2417.13	0	490814.98	725208.6
12699.99	90	359.65	10415	2516.26	-150.26	2517.13	0	490914.98	725207.98
12799.99	90	359.65	10415	2616.26	-150.87	2617.13	0	491014.98	725207.37
12899.99	90	359.65	10415	2716.26	-151.49	2717.13	0	491114.98	725206.75
12999.99	90	359.65	10415	2816.25	-152.11	2817.13	0	491214.97	725206.13
13099.99	90	359.65	10415	2916.25	-152.73	2917.13	0	491314.97	725205.51
13199.99	90	359.65	10415	3016.25	-153.35	3017.13	0	491414.97	725204.89
13299.99	90	359.65	10415	3116.25	-153.96	3117.13	0	491514.97	725204.28
13399.99	90	359.65	10415	3216.25	-154.58	3217.13	0	491614.97	725203.66
13499.99	90	359.65	10415	3316.24	-155.2	3317.13	0	491714.96	725203.04
13599.99	90	359.65	10415	3416.24	-155.82	3417.13	0	491814.96	725202.42
13699.99	90	359.65	10415	3516.24	-156.44	3517.13	0	491914.96	725201.8
13799.99	90	359.65	10415	3616.24	-157.05	3617.13	0	492014.96	725201.19
13899.99	90	359.65	10415	3716.24	-157.67	3717.13	0	492114.96	725200.57
13999.99	90	359.65	10415	3816.23	-158.29	3817.13	0	492214.95	725199.95
14099.99	90	359.65	10415	3916.23	-158.91	3917.13	0	492314.95	725199.33
14199.99	90	359.65	10415	4016.23	-159.53	4017.13	0	492414.95	725198.71
14299.99	90	359.65	10415	4116.23	-160.15	4117.13	0	492514.95	725198.09
14399.99	90	359.65	10415	4216.22	-160.76	4217.13	0	492614.94	725197.48
14499.99	90	359.65	10415	4316.22	-161.38	4317.13	0	492714.94	725196.86
14599.99	90	359.65	10415	4416.22	-162	4417.13	0	492814.94	725196.24
14699.99	90	359.65	10415	4516.22	-162.62	4517.13	0	492914.94	725195.62
14799.99	90	359.65	10415	4616.22	-163.24	4617.13	0	493014.94	725195
14899.99	90	359.65	10415	4716.21	-163.85	4717.13	0	493114.93	725194.39
14941.4	90	359.65	10415	4757.62	-164.11	4758.53	0	493156.34	725194.13 Ark 36 State 1H PBHL

Formation Points: (Relative to Slot Centre, TVD Relative to Drill Floor)

MD	Inc	Az	TVD	N.Offset	E.Offset	Northing	Easting	Name	Comment
(US ft)	(°)	(°)	(US ft)	(US ft)	(US ft)	(US ft)	(US ft)		