

PathFinder Energy Services

BHL Report

Page 1

Job No: JWT-04100144

Date: 12/1/2004

Time: 9:49 am

Wellpath ID: Arco A 3 Sidetrack

Date Created: 11/16/2004

Last Revision: 12/1/2004

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 353.82 deg.

Survey Reference: STRUCTURE ORIGIN

Reference World Coordinates: Lat. 33.40.53 N - Lon. 101.15.30 W

Reference GRID System: LAMBERT Zone: Texas N Central

Reference GRID Coordinates: 856938.90 X 753444.80 Y

North Aligned to: GRID NORTH

Offset, Referenced to WellHead: (ft.): 0.00 N 0.00 E 0.00 TVD

Vertical Section Reference: STRUCTURE ORIGIN

Closure Reference: STRUCTURE ORIGIN

TVD Reference: WELLHEAD

Platinum Exploration

Arco "A" #3-H

Patterson #59

Arco A 3-H

Lea County, New Mexico

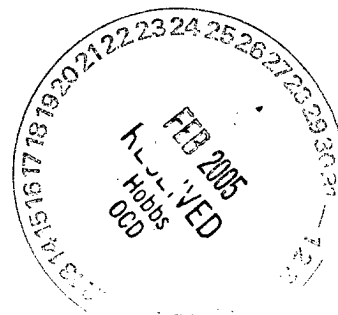
ARCO 3 SIDETRACK

SUR: N-18-17s-39e, 600/S & 2040/W

BHL: K-18-17s-39e, 1992/S & 1893/W

API # 30-025-33842

Measured Depth	13382.00	(ft)
Inclination	93.30	(deg)
Azimuth	355.77	(deg)
True Vertical Depth	12131.68	(ft)
Vertical Section	1400.18	(ft)
Grid Coordinates		
X	856792.07	(ft)
Y	754837.27	(ft)
Rectangular Offsets		
North/South	1392.47 N	(ft)
East/West	146.83W	(ft)
Closure Dist & Dir	1400.19@353.98	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)



PathFinder Energy Services

Survey Report

Page 1

Job No: JWT-04100144

Date: 12/1/2004

Time: 9:49 am

Wellpath ID: Arco A 3 Sidetrack

Date Created: 11/16/2004

Last Revision: 12/1/2004

Calculated using the Minimum Curvature Method

Computed using PDS VER2.2.6

Vertical Section Plane: 353.82 deg.

Survey Reference: STRUCTURE ORIGIN

Reference World Coordinates: Lat. 33.40.53 N - Lon. 101.15.30 W

Reference GRID System: LAMBERT Zone: Texas N Central

Reference GRID Coordinates: 856938.90 X 753444.80 Y

North Aligned to: GRID NORTH

Offset, Referenced to WellHead: (ft.): 0.00 N 0.00 E 0.00 TVD

Vertical Section Reference: STRUCTURE ORIGIN

Closure Reference: STRUCTURE ORIGIN

TVD Reference: WELLHEAD

Platinum Exploration

Arco "A" #3-H

Patterson #59

Arco A 3-H

Lea County, New Mexico

ARCO 3 SIDETRACK

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	TOTAL Rectangular Offsets (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)	Walk Rate (dg/100ft)
12375.00	97.78	358.32	396.08	12178.90	390.19 N	75.81W	0.00	0.00	0.00
12418.00	93.21	355.86	438.80	12174.78	432.92 N	77.99W	-10.63	12.06	-5.72
12486.00	92.07	354.98	506.70	12171.65	500.63 N	83.41W	-1.68	2.12	-1.29
12548.00	90.75	354.54	568.67	12170.13	562.35 N	89.07W	-2.13	2.24	-0.71
12611.00	90.31	355.68	631.65	12169.54	625.12 N	94.44W	-0.70	1.94	1.81
12673.00	90.40	354.98	693.63	12169.16	686.91 N	99.49W	0.15	1.14	-1.13
12736.00	89.25	354.80	756.62	12169.35	749.66 N	105.10W	-1.83	1.85	-0.29
12798.00	89.16	355.15	818.60	12170.21	811.42 N	110.53W	-0.15	0.58	0.56
12861.00	90.22	357.08	881.54	12170.55	874.27 N	114.80W	1.68	3.50	3.06
12956.00	96.64	359.63	976.02	12164.87	969.00 N	117.53W	6.76	7.27	2.68
13019.00	96.46	357.70	1038.38	12157.68	1031.57 N	118.98W	-0.29	3.06	-3.06
13051.00	95.94	357.35	1070.13	12154.23	1063.35 N	120.36W	-1.62	1.96	-1.09
13113.00	94.00	355.50	1131.83	12148.86	1124.99 N	124.21W	-3.13	4.32	-2.98
13176.00	93.30	354.36	1194.68	12144.85	1187.62 N	129.77W	-1.11	2.12	-1.81
13239.00	94.09	354.18	1257.55	12140.79	1250.17 N	136.04W	1.25	1.29	-0.29
13282.00	93.91	356.12	1300.43	12137.79	1292.91 N	139.67W	-0.42	4.52	4.51
13347.00	93.30	355.77	1365.26	12133.70	1357.62 N	144.26W	-0.94	1.08	-0.54
PROJ TO TD									
13382.00	93.30	355.77	1400.18	12131.68	1392.47 N	146.83W	0.00	0.00	0.00

PathFinder Energy Services

BHL Report

Page 1
Job No: JWT-04100144
Date: 11/18/2004
Time: 12:58 pm
Wellpath ID: arco-3
Date Created: 11/2/2004
Last Revision: 11/15/2004

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 353.82 deg.

Survey Reference: WELLHEAD
Reference World Coordinates: Lat. 33.40.53 N - Lon. 101.15.30 W
Reference GRID System: LAMBERT Zone: Texas N Central
Reference GRID Coordinates: 856938.90 X 753444.80 Y
North Aligned to: GRID NORTH
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

PLATINUM EXPLORATION
SOUTH KNOWLES
PATTERSON # 59
ARCO-A COM. 3-H
ARCO - 3 H

Measured Depth	13386.00	(ft)
Inclination	85.65	(deg)
Azimuth	354.27	(deg)
True Vertical Depth	12088.17	(ft)
Vertical Section	1400.25	(ft)
Grid Coordinates		
X	856780.60	(ft)
Y	754836.09	(ft)
Rectangular Offsets		
North/South	1391.29 N	(ft)
East/West	158.30 W	(ft)
Closure Dist & Dir	1400.27 @ 353.51	(deg)
Dogleg Severity	0.00	(deg/100ft)
Build Rate	0.00	(deg/100ft)
Walk Rate	0.00	(deg/100ft)