

District I
1625 N. French Drive, Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720

District II
811 S. First Street, Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone: (505) 334-6178 Fax: (505) 334-6170

District IV
1220 S. St. Francis Drive, Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department

Form C-102
Revised August 1, 2011

Submit one copy to
Appropriate District Office

OIL CONSERVATION DIVISION

1220 South St. Francis Drive
Santa Fe, NM 87505

☒ AMENDED REPORT

"As Drilled"

RCVD MAY 23 '13
OIL CONS. DIV.

DIST. 3

CONFIDENTIAL

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-043-21139		*Pool Code 42289		*Pool Name LYBROOK GALLUP	
*Property Code 39731		*Property Name CHACO 2306-19M			*Well Number 191H
*GRID No. 120782		*Operator Name WPX ENERGY PRODUCTION, LLC			*Elevation 7012'

10 Surface Location

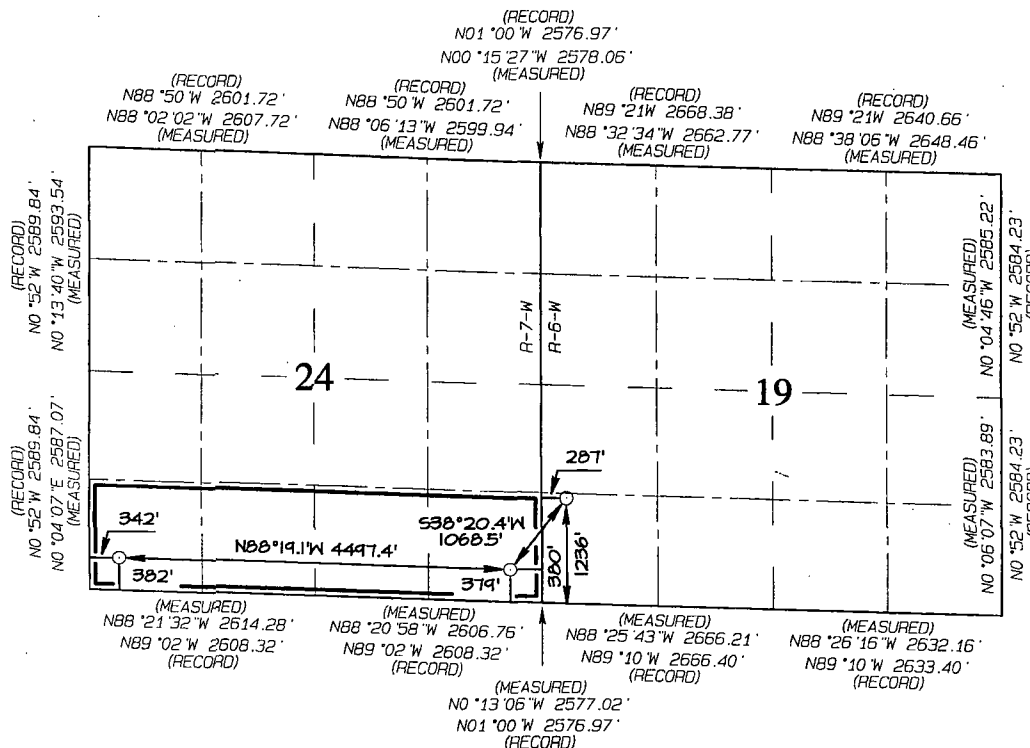
UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
M	19	23N	6W	4	1236	SOUTH	287	WEST	SANDOVAL

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idh	Feet from the	North/South line	Feet from the	East/West line	County
M	24	23N	7W		382	SOUTH	342	WEST	SANDOVAL

*Dedicated Acres 150.0 Acres S/2 S/2 - Section 24		*Joint or Infill	*Consolidation Code	*Order No.
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NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE
BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom-hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

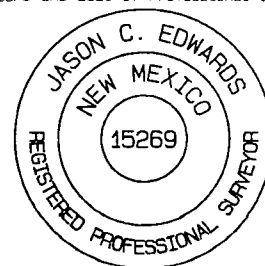
Signature: *Larry Higgins* Date: *5/23/13*
Printed Name: Larry Higgins
E-mail Address: larry.higgins@wpxenergy.com

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

Date Revised: MAY 13, 2013
Date of Survey: JULY 11, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

END-OF-LATERAL
382' FSL 342' FWL
SECTION 24, T23N, R7W
LAT: 36.20529°N
LONG: 107.53412°W
DATUM: NAD1927

POINT-OF-ENTRY
379' FSL 380' FEL
SECTION 24, T23N, R7W
LAT: 36.20509°N
LONG: 107.51888°W
DATUM: NAD1927

SURFACE LOCATION
1236' FSL 287' FWL
SECTION 19, T23N, R6W
LAT: 36.20742°N
LONG: 107.51657°W
DATUM: NAD1927

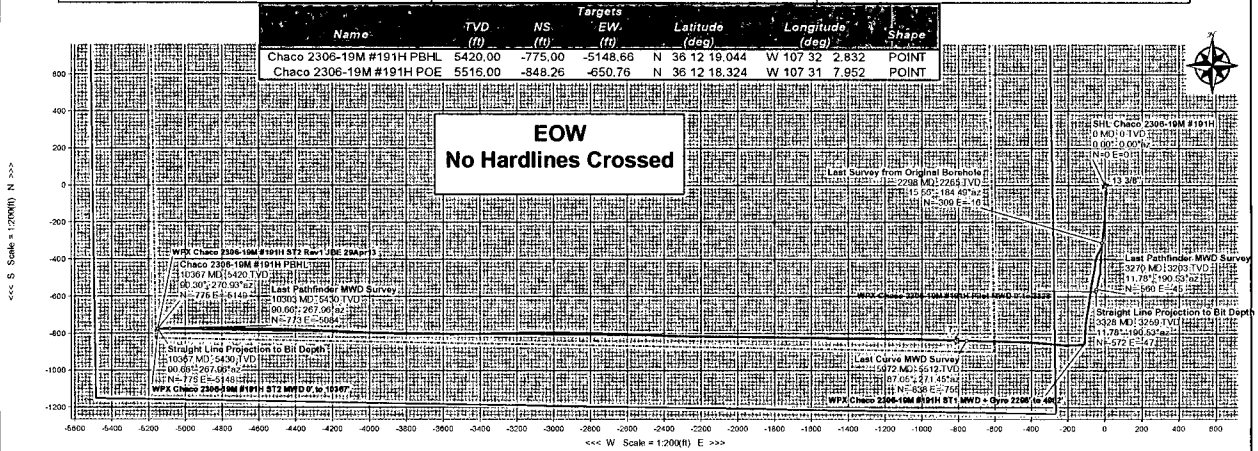
LAT: 36.20530°N
LONG: 107.53473°W
DATUM: NAD1983

LAT: 36.20510°N
LONG: 107.51949°W
DATUM: NAD1983

LAT: 36.20743°N
LONG: 107.51729°W
DATUM: NAD1983

AV

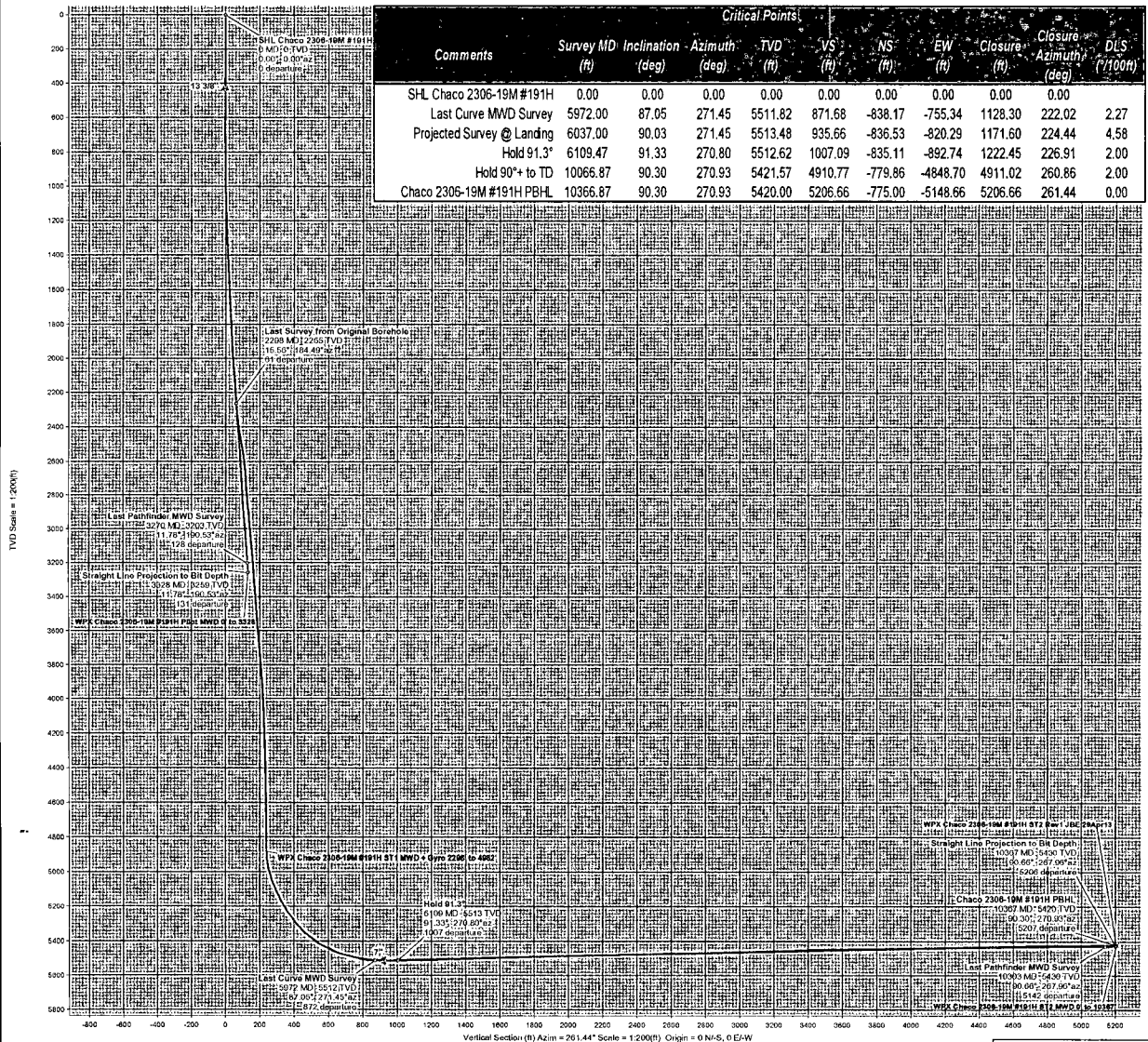
WELL: Chaco 2306-19M #191H 30-043-21139		FILED: NM Sandoval County NAD27	SURCHARGE: AWS #960
Version: 1.0 Model: BGSIM 2012	Dip: 62.84° Mag Dec: 9.557°	Date: April 04, 2013 F0: 9214-Rev1	Surface Location: NAD27 New Mexico State Plane, Central Zone, US Feet Lat: N 36 12 25.742 Long: W 107 31 8.012 Northing: 1997.50 N 8 S Easting: 12610.40 E 8 S Grid Cont: -674° Scale Fact: 1.0004960 Meters: Chaco 2306-19M #191H Plan: 317.550 D W to 10367 TVD Ref: BGSIM 2012 (BGSIM 2012) Rev Date: April 04, 2013



Legend

Chaco 2306-19M #191H PBHL
Sec 24 T23N R07W
Chaco 2306-19M #191H POE
Sec 24 T23N R07W - 330° HL
WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367'
WPX Chaco 2306-19M #191H ST2 Rev1 JBE 26Apr13
WPX Chaco 2306-19M #191H ST1 MWD + Gyro 2296' to 4982'
WPX Chaco 2306-19M #191H Pilot MWD 0' to 3328'

True North
Tot Corr (M->T 9.5571°)
Mag Dec (9.557°)
Grid Conv (-0.748°)



Drawn By: Jack Doherty
Date Created: May 06 2010 10:42:31 AM
Checked By: [Signature]
Checked Date: [Signature]
Approved By: [Signature]
Approved Date: [Signature]



WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367' Survey Geodetic
Report
(Def Survey)



Report Date: May 06, 2013 - 04:07 PM
Client: WPX Energy
Field: NM Sandoval County NAD27
Structure / Slot: WPX Chaco 2306-19M #191H / Chaco 2306-19M #191H
Well: Chaco 2306-19M #191H
Borehole: ST2
UWI / API#: Unknown / Unknown
Survey Name: WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367'
Survey Date: April 04, 2013
Tort / AHD / DDI / ERD Ratio: 200.667' / 5911.811 ft / 6.348' / 1.072
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 12' 26.71200", W 107° 31' 0.01200"
Location Grid N/E Y/X: N 1897150.963 ftUS, E 126306.599 ftUS
CRS Grid Convergence Angle: -0.7483°
Grid Scale Factor: 1.0000598

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 261.440° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 7026.000 ft above MSL
Seabed / Ground Elevation: 7012.000 ft above MSL
Magnetic Declination: 9.557°
Total Gravity Field Strength: 999.1594 mgn (9.8 based)
Total Magnetic Field Strength: 50214.837 nT
Magnetic Dip Angle: 62.984°
Declination Date: April 04, 2013
Magnetic Declination Model: BGGM 2012
North Reference: True North
Grid Convergence Used: 0.0000°
Total Corr Mag North→True North: 9.5571°
Local Coord Referenced To: Structure Reference Point

Comments	MD (ft)	Incl (°)	Azlm True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' '')	Longitude (E/W ° ' '')
SHL Chaco 2306-19M #191H	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1897150.96	126306.60	N 36 12 26.71	W 107 31 0.01
	491.00	1.49	144.32	490.94	-2.91	-5.19	3.72	0.30	1897145.73	126310.25	N 36 12 26.66	W 107 30 59.97
	553.00	1.32	155.67	552.93	-3.47	-6.49	4.49	0.52	1897144.41	126311.00	N 36 12 26.65	W 107 30 59.96
	614.00	1.85	168.19	613.90	-3.72	-8.10	4.98	1.03	1897142.80	126311.47	N 36 12 26.63	W 107 30 59.95
	676.00	2.64	174.21	675.85	-3.71	-10.50	5.33	1.33	1897140.40	126311.79	N 36 12 26.61	W 107 30 59.95
	735.00	3.17	176.42	734.78	-3.50	-13.48	5.57	0.92	1897137.42	126311.99	N 36 12 26.58	W 107 30 59.94
	795.00	3.52	177.20	794.68	-3.17	-16.97	5.76	0.59	1897133.92	126312.14	N 36 12 26.54	W 107 30 59.94
	856.00	3.78	177.28	855.55	-2.78	-20.85	5.95	0.43	1897130.04	126312.27	N 36 12 26.51	W 107 30 59.94
	917.00	4.57	179.27	916.39	-2.24	-25.29	6.07	1.32	1897125.60	126312.34	N 36 12 26.46	W 107 30 59.94
	977.00	5.63	181.49	976.15	-1.40	-30.62	6.03	1.80	1897120.26	126312.23	N 36 12 26.41	W 107 30 59.94
	1041.00	6.42	182.31	1039.80	-0.18	-37.33	5.80	1.24	1897113.55	126311.91	N 36 12 26.34	W 107 30 59.94
	1104.00	7.03	185.86	1102.36	1.44	-44.69	5.27	1.17	1897106.21	126311.28	N 36 12 26.27	W 107 30 59.95
	1167.00	7.83	187.09	1164.84	3.56	-52.78	4.34	1.29	1897098.13	126310.25	N 36 12 26.19	W 107 30 59.96
	1229.00	8.53	186.37	1226.20	5.89	-61.54	3.31	1.14	1897089.38	126309.11	N 36 12 26.10	W 107 30 59.97
	1292.00	9.15	184.09	1288.46	8.19	-71.18	2.44	1.13	1897079.75	126308.10	N 36 12 26.01	W 107 30 59.98
	1354.00	10.11	184.37	1349.58	10.48	-81.53	1.67	1.55	1897069.42	126307.20	N 36 12 25.91	W 107 30 59.99
	1417.00	11.08	186.06	1411.51	13.25	-93.06	0.61	1.62	1897057.90	126305.99	N 36 12 25.79	W 107 31 0.00
	1480.00	11.17	185.29	1473.32	16.24	-105.16	-0.59	0.28	1897045.82	126304.63	N 36 12 25.67	W 107 31 0.02
	1544.00	12.66	185.66	1535.94	19.45	-118.31	-1.86	2.33	1897032.68	126303.20	N 36 12 25.54	W 107 31 0.03
	1607.00	12.84	184.41	1597.39	22.71	-132.16	-3.08	0.52	1897018.85	126301.80	N 36 12 25.41	W 107 31 0.05
	1670.00	12.84	182.41	1658.81	25.62	-146.13	-3.91	0.71	1897004.89	126300.78	N 36 12 25.27	W 107 31 0.06
	1733.00	14.60	181.77	1720.01	28.37	-161.06	-4.45	2.80	1896989.96	126300.05	N 36 12 25.12	W 107 31 0.07
	1797.00	14.07	180.26	1782.02	31.01	-176.91	-4.73	1.01	1896974.12	126299.56	N 36 12 24.96	W 107 31 0.07
	1860.00	14.51	182.31	1843.07	33.67	-192.45	-5.08	1.06	1896958.59	126299.00	N 36 12 24.81	W 107 31 0.07
	1923.00	13.72	181.98	1904.17	36.53	-207.80	-5.66	1.26	1896943.24	126298.22	N 36 12 24.66	W 107 31 0.08
	1985.00	15.74	185.40	1964.13	39.90	-223.52	-6.71	3.55	1896927.53	126296.97	N 36 12 24.50	W 107 31 0.09
	2047.00	16.18	187.40	2023.74	44.31	-240.46	-8.61	1.14	1896910.62	126294.85	N 36 12 24.33	W 107 31 0.12
	2109.00	15.30	186.25	2083.41	48.77	-257.16	-10.61	1.51	1896893.95	126292.63	N 36 12 24.17	W 107 31 0.14
	2173.00	16.36	185.84	2144.99	53.17	-274.52	-12.45	1.67	1896876.61	126290.56	N 36 12 24.00	W 107 31 0.16

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Last Survey from Original Borehole	2236.00	16.09	185.11	2205.48	57.44	-292.04	-14.13	0.54	1896859.11	126288.65	N 36 12 23.82	W 107 31 0.18
	2298.00	15.56	184.49	2265.13	61.35	-308.89	-15.55	0.90	1896842.28	126287.02	N 36 12 23.66	W 107 31 0.20
	2328.00	15.04	186.01	2294.06	63.24	-316.77	-16.27	2.19	1896834.41	126286.19	N 36 12 23.58	W 107 31 0.21
	2360.00	14.16	189.89	2325.03	65.52	-324.76	-17.38	4.11	1896826.44	126284.98	N 36 12 23.50	W 107 31 0.22
	2392.00	13.72	196.52	2356.09	68.37	-332.25	-19.13	5.17	1896818.97	126283.13	N 36 12 23.43	W 107 31 0.25
	2423.00	14.25	204.17	2386.17	71.99	-339.26	-21.74	6.20	1896812.00	126280.43	N 36 12 23.36	W 107 31 0.28
	2454.00	15.30	209.14	2416.15	76.56	-346.31	-25.29	5.31	1896804.99	126276.79	N 36 12 23.29	W 107 31 0.32
	2485.00	15.65	210.41	2446.03	81.69	-353.49	-29.40	1.57	1896797.86	126272.59	N 36 12 23.22	W 107 31 0.37
	2576.00	16.71	206.74	2533.42	96.97	-375.76	-41.50	1.62	1896775.75	126260.19	N 36 12 23.00	W 107 31 0.52
	2638.00	16.09	197.61	2592.91	105.91	-391.91	-48.11	4.27	1896759.69	126253.37	N 36 12 22.84	W 107 31 0.60
	2700.00	15.56	186.84	2652.57	111.91	-408.36	-51.70	4.81	1896743.29	126249.57	N 36 12 22.67	W 107 31 0.64
	2763.00	15.65	182.48	2713.25	115.78	-425.24	-53.07	1.87	1896726.42	126247.97	N 36 12 22.51	W 107 31 0.66
	2826.00	15.39	189.04	2773.96	119.93	-441.99	-54.75	2.82	1896709.70	126246.07	N 36 12 22.34	W 107 31 0.68
	2889.00	15.48	193.15	2834.69	125.57	-458.43	-57.98	1.74	1896693.30	126242.63	N 36 12 22.18	W 107 31 0.72
	2952.00	15.30	191.51	2895.43	131.53	-474.77	-61.55	0.75	1896677.02	126238.85	N 36 12 22.02	W 107 31 0.76
	3015.00	15.30	191.41	2956.20	137.22	-491.06	-64.86	0.04	1896660.77	126235.33	N 36 12 21.86	W 107 31 0.80
	3079.00	15.21	191.28	3017.94	142.96	-507.57	-68.17	0.15	1896644.30	126231.80	N 36 12 21.69	W 107 31 0.84
	3142.00	15.12	191.32	3078.75	148.56	-523.73	-71.40	0.14	1896628.18	126228.36	N 36 12 21.53	W 107 31 0.88
	3205.00	15.30	190.76	3139.54	154.10	-539.95	-74.56	0.37	1896612.00	126224.99	N 36 12 21.37	W 107 31 0.92
	3296.00	14.77	185.84	3227.43	160.96	-563.29	-77.98	1.52	1896588.71	126221.26	N 36 12 21.14	W 107 31 0.96
	3359.00	14.68	186.03	3288.36	164.97	-579.22	-79.64	0.16	1896572.80	126219.40	N 36 12 20.98	W 107 31 0.98
	3422.00	14.86	187.03	3349.28	169.15	-595.17	-81.47	0.50	1896556.87	126217.36	N 36 12 20.83	W 107 31 1.01
	3485.00	14.77	188.64	3410.19	173.69	-611.13	-83.66	0.67	1896540.94	126214.96	N 36 12 20.67	W 107 31 1.03
	3548.00	14.33	188.67	3471.17	178.38	-626.78	-86.04	0.70	1896525.33	126212.37	N 36 12 20.51	W 107 31 1.06
	3609.00	14.42	188.39	3530.26	182.83	-641.75	-88.29	0.19	1896510.38	126209.93	N 36 12 20.37	W 107 31 1.09
	3671.00	14.51	188.24	3590.29	187.32	-657.08	-90.53	0.16	1896495.09	126207.49	N 36 12 20.21	W 107 31 1.12
	3734.00	14.42	188.99	3651.29	191.97	-672.64	-92.89	0.33	1896479.56	126204.93	N 36 12 20.06	W 107 31 1.15
	3797.00	14.51	189.67	3712.30	196.80	-688.16	-95.44	0.31	1896464.07	126202.18	N 36 12 19.91	W 107 31 1.18
	3860.00	14.60	189.72	3773.27	201.76	-703.77	-98.10	0.14	1896448.49	126199.31	N 36 12 19.75	W 107 31 1.21
	3923.00	14.51	189.32	3834.25	206.68	-719.38	-100.72	0.21	1896432.91	126196.48	N 36 12 19.60	W 107 31 1.24
	3986.00	13.98	187.81	3895.32	211.25	-734.71	-103.03	1.03	1896417.62	126193.97	N 36 12 19.45	W 107 31 1.27
	4048.00	13.01	185.19	3955.60	215.01	-749.08	-104.68	1.85	1896403.27	126192.13	N 36 12 19.30	W 107 31 1.29
	4111.00	11.96	184.16	4017.11	218.14	-762.66	-105.80	1.70	1896389.71	126190.84	N 36 12 19.17	W 107 31 1.30
	4175.00	10.64	184.27	4079.87	220.91	-775.16	-106.72	2.06	1896377.22	126189.76	N 36 12 19.05	W 107 31 1.31
	4238.00	9.67	184.15	4141.88	223.37	-786.24	-107.54	1.54	1896366.15	126188.80	N 36 12 18.94	W 107 31 1.32
	4301.00	9.23	182.32	4204.03	225.48	-796.56	-108.12	0.85	1896355.83	126188.07	N 36 12 18.83	W 107 31 1.33
	4365.00	8.53	182.17	4267.26	227.34	-806.44	-108.51	1.09	1896345.97	126187.56	N 36 12 18.74	W 107 31 1.34
	4428.00	7.39	181.81	4329.65	228.94	-815.16	-108.82	1.81	1896337.25	126187.14	N 36 12 18.65	W 107 31 1.34
	4491.00	6.68	181.27	4392.18	230.29	-822.87	-109.02	1.13	1896329.54	126186.83	N 36 12 18.57	W 107 31 1.34
	4553.00	5.89	182.94	4453.81	231.54	-829.65	-109.27	1.31	1896322.76	126186.50	N 36 12 18.51	W 107 31 1.35
	4615.00	5.45	181.61	4515.50	232.69	-835.77	-109.51	0.74	1896316.65	126186.17	N 36 12 18.45	W 107 31 1.35
	4677.00	4.84	181.92	4577.25	233.69	-841.33	-109.68	0.98	1896311.09	126185.93	N 36 12 18.39	W 107 31 1.35
Last MWD Survey	4741.00	3.87	182.50	4641.07	234.60	-846.18	-109.87	1.52	1896306.24	126185.68	N 36 12 18.34	W 107 31 1.35
	4772.00	3.25	183.68	4672.01	234.98	-848.11	-109.97	2.01	1896304.32	126185.55	N 36 12 18.33	W 107 31 1.35
	4820.00	2.75	187.76	4719.94	235.59	-850.61	-110.21	1.13	1896301.82	126185.28	N 36 12 18.30	W 107 31 1.36
	4920.00	2.46	189.26	4819.84	236.93	-855.10	-110.88	0.30	1896297.33	126184.55	N 36 12 18.26	W 107 31 1.36
	4982.00	2.49	190.38	4881.78	237.77	-857.74	-111.34	0.09	1896294.70	126184.06	N 36 12 18.23	W 107 31 1.37
	5063.00	10.82	271.11	4962.25	245.86	-859.33	-119.28	13.21	1896293.22	126176.10	N 36 12 18.21	W 107 31 1.47
	5125.00	17.67	267.00	5022.31	260.98	-859.71	-134.51	11.16	1896293.04	126160.86	N 36 12 18.21	W 107 31 1.65
	5189.00	22.60	264.02	5082.39	282.95	-861.50	-156.46	7.87	1896291.53	126138.89	N 36 12 18.19	W 107 31 1.92
	5252.00	26.29	267.02	5139.73	308.93	-863.48	-182.44	6.18	1896289.89	126112.88	N 36 12 18.17	W 107 31 2.24
	5315.00	31.04	273.67	5195.01	338.72	-863.17	-212.61	9.07	1896290.59	126082.72	N 36 12 18.18	W 107 31 2.61
	5378.00	35.96	275.38	5247.53	372.57	-860.39	-247.26	7.95	1896293.82	126048.11	N 36 12 18.20	W 107 31 3.03
	5440.00	40.54	274.16	5296.20	409.91	-857.22	-285.50	7.49	1896297.49	126009.91	N 36 12 18.23	W 107 31 3.50
	5503.00	47.22	274.76	5341.59	452.43	-853.82	-329.01	10.62	1896301.47	125966.45	N 36 12 18.27	W 107 31 4.03
	5567.00	53.29	274.56	5382.49	500.31	-849.82	-378.03	9.49	1896306.10	125917.48	N 36 12 18.31	W 107 31 4.62
	5628.00	58.83	272.20	5416.54	549.81	-846.88	-428.53	9.63	1896309.71	125867.02	N 36 12 18.34	W 107 31 5.24
	5690.00	65.16	271.92	5445.64	603.58	-844.91	-483.20	10.22	1896312.38	125812.37	N 36 12 18.36	W 107 31 5.91
	5753.00	70.26	271.44	5469.52	660.93	-843.21	-541.45	8.13	1896314.85	125754.15	N 36 12 18.37	W 107 31 6.62

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
7"	5816.00	75.01	271.01	5488.32	720.16	-841.93	-601.55	7.57	1896316.92	125694.07	N 36 12 18.39	W 107 31 7.35
	5877.00	79.14	271.47	5501.96	778.74	-840.64	-660.98	6.81	1896318.98	125634.66	N 36 12 18.40	W 107 31 8.08
	5941.00	86.35	271.53	5510.04	841.21	-838.98	-724.40	11.27	1896321.47	125571.26	N 36 12 18.42	W 107 31 8.85
	5972.00	87.05	271.45	5511.82	871.68	-838.17	-755.34	2.27	1896322.68	125540.33	N 36 12 18.42	W 107 31 9.23
	6034.00	89.57	271.50	5513.65	932.70	-836.58	-817.29	4.07	1896325.09	125478.41	N 36 12 18.44	W 107 31 9.98
	6076.00	91.28	271.54	5513.34	974.05	-835.46	-859.27	4.07	1896326.75	125436.44	N 36 12 18.45	W 107 31 10.50
	6106.00	91.19	271.93	5512.69	1003.56	-834.55	-889.25	1.33	1896328.05	125406.48	N 36 12 18.46	W 107 31 10.86
	6167.00	91.01	271.47	5511.52	1063.57	-832.74	-950.21	0.81	1896330.65	125345.54	N 36 12 18.48	W 107 31 11.61
	6197.00	91.45	271.11	5510.88	1093.13	-832.07	-980.19	1.89	1896331.72	125315.56	N 36 12 18.48	W 107 31 11.97
	6258.00	91.19	270.92	5509.47	1153.26	-830.99	-1041.17	0.53	1896333.60	125254.61	N 36 12 18.49	W 107 31 12.72
	6319.00	91.54	271.11	5508.02	1213.39	-829.91	-1102.14	0.65	1896335.47	125193.65	N 36 12 18.50	W 107 31 13.46
	6381.00	91.28	270.65	5506.49	1274.53	-828.95	-1164.12	0.85	1896337.24	125131.69	N 36 12 18.51	W 107 31 14.22
	6441.00	91.45	270.50	5505.06	1333.76	-828.35	-1224.10	0.38	1896338.62	125071.72	N 36 12 18.52	W 107 31 14.95
	6501.00	90.92	269.90	5503.82	1393.04	-828.14	-1284.08	1.33	1896339.61	125011.74	N 36 12 18.52	W 107 31 15.68
	6563.00	91.71	268.90	5502.40	1454.43	-828.79	-1346.06	2.06	1896339.77	124949.75	N 36 12 18.52	W 107 31 16.44
	6625.00	91.80	270.02	5500.50	1515.79	-829.38	-1408.03	1.81	1896340.00	124887.78	N 36 12 18.51	W 107 31 17.19
	6685.00	90.84	272.01	5499.12	1574.94	-828.31	-1468.00	3.68	1896341.85	124827.82	N 36 12 18.52	W 107 31 17.92
	6746.00	91.89	271.88	5497.67	1634.90	-826.24	-1528.95	1.73	1896344.71	124766.90	N 36 12 18.54	W 107 31 18.67
	6808.00	91.36	271.61	5495.91	1695.87	-824.36	-1590.89	0.96	1896347.41	124704.98	N 36 12 18.56	W 107 31 19.42
	6868.00	90.75	271.01	5494.80	1754.97	-822.99	-1650.87	1.43	1896349.56	124645.03	N 36 12 18.57	W 107 31 20.15
	6928.00	91.89	270.89	5493.42	1814.13	-821.99	-1710.84	1.91	1896351.34	124585.07	N 36 12 18.58	W 107 31 20.89
	6990.00	91.54	270.62	5491.56	1875.29	-821.17	-1772.81	0.71	1896352.97	124523.12	N 36 12 18.59	W 107 31 21.64
	7051.00	91.10	270.48	5490.16	1935.50	-820.59	-1833.79	0.76	1896354.35	124462.14	N 36 12 18.60	W 107 31 22.39
	7113.00	92.07	270.74	5488.44	1996.68	-819.93	-1895.76	1.62	1896355.82	124400.18	N 36 12 18.60	W 107 31 23.14
	7174.00	91.71	270.70	5486.43	2056.85	-819.16	-1956.72	0.59	1896357.38	124339.23	N 36 12 18.61	W 107 31 23.89
	7238.00	91.36	270.39	5484.72	2120.02	-818.55	-2020.70	0.73	1896358.82	124275.27	N 36 12 18.62	W 107 31 24.67
	7300.00	90.92	270.53	5483.49	2181.25	-818.06	-2082.68	0.74	1896360.13	124213.29	N 36 12 18.62	W 107 31 25.42
	7362.00	91.36	270.78	5482.25	2242.43	-817.35	-2144.66	0.82	1896361.65	124151.32	N 36 12 18.63	W 107 31 26.18
	7426.00	92.07	270.93	5480.34	2305.54	-816.39	-2208.63	1.13	1896363.44	124087.37	N 36 12 18.64	W 107 31 26.96
	7488.00	91.80	271.03	5478.24	2366.65	-815.33	-2270.58	0.46	1896365.31	124025.43	N 36 12 18.65	W 107 31 27.72
	7552.00	91.45	271.22	5476.43	2429.71	-814.08	-2334.55	0.62	1896367.40	123961.48	N 36 12 18.66	W 107 31 28.50
	7615.00	90.66	271.58	5475.27	2491.75	-812.54	-2397.52	1.38	1896369.76	123898.54	N 36 12 18.68	W 107 31 29.26
	7679.00	91.54	271.58	5474.04	2554.74	-810.77	-2461.48	1.38	1896372.36	123834.60	N 36 12 18.69	W 107 31 30.05
	7742.00	91.19	271.53	5472.54	2616.74	-809.07	-2524.44	0.56	1896374.89	123771.66	N 36 12 18.71	W 107 31 30.81
	7806.00	91.19	272.29	5471.21	2679.66	-806.93	-2588.39	1.19	1896377.86	123707.74	N 36 12 18.73	W 107 31 31.59
	7868.00	91.01	272.21	5470.02	2740.55	-804.50	-2650.33	0.32	1896381.10	123645.84	N 36 12 18.76	W 107 31 32.35
	7931.00	90.66	272.41	5469.10	2802.41	-801.96	-2713.27	0.64	1896384.46	123582.93	N 36 12 18.78	W 107 31 33.12
	7995.00	91.36	271.50	5467.97	2865.33	-799.78	-2777.22	1.79	1896387.48	123519.01	N 36 12 18.80	W 107 31 33.90
	8056.00	91.98	271.47	5466.20	2925.37	-798.20	-2838.18	1.02	1896389.86	123458.08	N 36 12 18.82	W 107 31 34.64
	8119.00	91.19	271.05	5464.45	2987.42	-796.81	-2901.14	1.42	1896392.06	123395.14	N 36 12 18.83	W 107 31 35.41
	8183.00	91.89	270.17	5462.73	3050.58	-796.13	-2965.11	1.76	1896393.58	123331.17	N 36 12 18.84	W 107 31 36.19
	8245.00	91.54	270.63	5460.88	3111.79	-795.70	-3027.08	0.93	1896394.82	123269.21	N 36 12 18.84	W 107 31 36.95
	8309.00	91.19	270.08	5459.35	3175.00	-795.30	-3091.06	1.02	1896396.06	123205.24	N 36 12 18.85	W 107 31 37.73
	8372.00	90.57	268.87	5458.38	3237.38	-795.88	-3154.05	2.16	1896396.30	123142.24	N 36 12 18.84	W 107 31 38.50
	8436.00	92.42	268.91	5456.72	3300.81	-797.12	-3218.01	2.89	1896395.90	123078.27	N 36 12 18.83	W 107 31 39.28
	8498.00	92.24	268.19	5454.19	3362.28	-798.69	-3279.94	1.20	1896395.14	123016.32	N 36 12 18.81	W 107 31 40.03
	8562.00	91.89	267.66	5451.89	3425.83	-801.00	-3343.86	0.99	1896393.66	122952.37	N 36 12 18.79	W 107 31 40.81
	8624.00	90.84	269.18	5450.41	3487.35	-802.71	-3405.81	2.98	1896392.76	122890.40	N 36 12 18.77	W 107 31 41.57
	8687.00	90.40	269.51	5449.73	3549.75	-803.43	-3468.80	0.87	1896392.86	122827.40	N 36 12 18.76	W 107 31 42.34
	8750.00	90.66	269.81	5449.15	3612.10	-803.80	-3531.80	0.63	1896393.31	122764.40	N 36 12 18.76	W 107 31 43.10
	8814.00	90.57	270.45	5448.46	3675.36	-803.66	-3595.80	1.01	1896394.29	122700.41	N 36 12 18.76	W 107 31 43.89
	8876.00	90.66	269.97	5447.79	3736.63	-803.43	-3657.79	0.79	1896395.33	122638.41	N 36 12 18.76	W 107 31 44.64
	8940.00	90.57	270.10	5447.11	3799.91	-803.39	-3721.79	0.25	1896396.20	122574.42	N 36 12 18.76	W 107 31 45.42
	9003.00	90.31	270.70	5446.62	3862.14	-802.95	-3784.78	1.04	1896397.46	122511.43	N 36 12 18.77	W 107 31 46.19
	9066.00	91.36	272.49	5445.71	3924.14	-801.20	-3847.75	3.29	1896400.04	122448.49	N 36 12 18.79	W 107 31 46.96
	9129.00	91.28	272.55	5444.25	3985.95	-798.43	-3910.67	0.16	1896403.63	122385.61	N 36 12 18.81	W 107 31 47.73
	9192.00	90.92	272.00	5443.04	4047.82	-795.93	-3973.61	1.04	1896406.95	122322.70	N 36 12 18.84	W 107 31 48.49
	9256.00	90.57	272.50	5442.21	4110.67	-793.42	-4037.55	0.95	1896410.30	122258.79	N 36 12 18.86	W 107 31 49.28
	9319.00	91.63	272.36	5441.00	4172.51	-790.75	-4100.49	1.70	1896413.79	122195.90	N 36 12 18.89	W 107 31 50.04
	9382.00	91.28	272.31	5439.40	4234.35	-788.18	-4163.41	0.56	1896417.18	122133.01	N 36 12 18.91	W 107 31 50.81

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (°/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
	9446.00	90.57	272.58	5438.37	4297.17	-785.45	-4227.35	1.19	1896420.75	122069.11	N 36 12 18.94	W 107 31 51.59
	9509.00	91.01	272.74	5437.50	4358.96	-782.53	-4290.27	0.74	1896424.49	122006.22	N 36 12 18.97	W 107 31 52.36
	9571.00	90.57	272.23	5436.65	4419.80	-779.84	-4352.21	1.09	1896427.99	121944.33	N 36 12 19.00	W 107 31 53.11
	9634.00	91.10	271.71	5435.73	4481.73	-777.68	-4415.16	1.18	1896430.98	121881.40	N 36 12 19.02	W 107 31 53.88
	9697.00	91.19	271.16	5434.47	4543.76	-776.10	-4478.13	0.88	1896433.38	121818.46	N 36 12 19.03	W 107 31 54.65
	9761.00	90.84	271.14	5433.34	4606.84	-774.81	-4542.11	0.55	1896435.50	121754.50	N 36 12 19.05	W 107 31 55.43
	9824.00	90.66	270.95	5432.51	4668.95	-773.66	-4605.09	0.42	1896437.47	121691.53	N 36 12 19.06	W 107 31 56.20
	9888.00	90.48	270.99	5431.87	4732.06	-772.58	-4669.08	0.29	1896439.39	121627.56	N 36 12 19.07	W 107 31 56.98
	9951.00	90.22	270.93	5431.49	4794.19	-771.53	-4732.07	0.42	1896441.26	121564.58	N 36 12 19.08	W 107 31 57.75
	10013.00	90.04	270.44	5431.35	4855.39	-770.78	-4794.06	0.84	1896442.81	121502.60	N 36 12 19.09	W 107 31 58.51
	10076.00	90.22	270.17	5431.21	4917.64	-770.45	-4857.06	0.52	1896443.97	121439.61	N 36 12 19.09	W 107 31 59.27
	10140.00	89.96	269.89	5431.11	4980.92	-770.42	-4921.06	0.60	1896444.84	121375.61	N 36 12 19.09	W 107 32 0.06
	10204.00	90.40	269.37	5430.90	5044.26	-770.83	-4985.06	1.06	1896445.27	121311.61	N 36 12 19.09	W 107 32 0.84
	10267.00	90.22	268.42	5430.56	5106.73	-772.04	-5048.05	1.53	1896444.87	121248.61	N 36 12 19.07	W 107 32 1.60
Last Pathfinder MWD Survey Straight Line Projection to Bit Depth	10303.00	90.66	267.96	5430.29	5142.48	-773.18	-5084.03	1.77	1896444.21	121212.61	N 36 12 19.06	W 107 32 2.04
	10367.00	90.66	267.96	5429.55	5206.06	-775.46	-5147.98	0.00	1896442.76	121148.63	N 36 12 19.04	W 107 32 2.82

Survey Type: Def Survey

Survey Error Model: ISCWSA Rev 0 *** 3-D 95.000% Confidence 2.7955 sigma
Survey Program:

Description	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size (in)	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	0.000	14.000	Act Stns	12.250	0.000	SLB_MWD-STD-Depth Only	Pilot / WPX Chaco 2306-19M #191H Pilot MWD 0' to 3328'
	14.000	491.000	1/98.425	12.250	0.000	SLB_MWD-STD	Pilot / WPX Chaco 2306-19M #191H Pilot MWD 0' to 3328'
	491.000	2298.000	Act Stns	12.250	0.000	SLB_MWD-STD	Pilot / WPX Chaco 2306-19M #191H Pilot MWD 0' to 3328'
	2298.000	4817.000	Act Stns	12.250	9.625	SLB_MWD-STD	ST1 / WPX Chaco 2306-19M #191H ST1 MWD + Gyro 2298'
	4817.000	4982.000	Act Stns	8.750	7.000	SLB_NSG+MSHOT	ST1 / WPX Chaco 2306-19M #191H ST1 MWD + Gyro 2298'
	4982.000	6034.000	Act Stns	8.750	7.000	SLB_MWD-STD	ST2 / WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367'
	6034.000	10303.000	Act Stns	6.125	4.500	SLB_MWD-STD	ST2 / WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367'
	10303.000	10367.000	Act Stns	6.125	4.500	SLB_BLIND+TREND	ST2 / WPX Chaco 2306-19M #191H ST2 MWD 0' to 10367'



A Schlumberger Company

JOB NO.: 13FMG0004
 COMPANY: WPX Energy
 LOCATION: Lybrook
 RIG NAME: Aztec #980
 STATE: New Mexico
 COUNTY: Sandoval
 WELL NAME: Chaco 2306-19M #191H

FIELD: Nageezi Gallup
 Township: 23N
 SECT/RANGE: 19 6W

COMMENT

BHA Summary Report for JOB

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide		Rate	IN	OUT	IN	OUT	SO	PU	RAB
1	23-Mar-13 @ 04:35	26-Mar-13 @ 14:45	82.17	518.0	3328.0	1556.0	1254.0	2810.0	55.10	78.1	40.3	0-45	498-555	.0	.0	.0	.0	52-102	52-112	52-103
				Hours>		19.92	31.08	51.00												

Hughes PDC Bit DPD505FX 7x16
 O.D.=12 1/4
 Length=1.4

X/O Float Sub
 O.D.=8 1/16
 Length=3

(4) 8" Drill Collars
 O.D.=8
 Length=120.25

(8) 6 1/2" Drill Collars
 O.D.=6 1/2
 Length=230.72



Motor 4/5 6.0 set @ 1.83" .246 revs/gal
 O.D.=7 3/4
 Length=34.53

MWD Monel
 O.D.=7 15/16
 Length=29.42

X/O Sub
 O.D.=7 1/2
 Length=2.57

(20) 4 1/2" HWDP
 O.D.=4 1/2
 Length=609.07

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide		Rate	IN	OUT	IN	OUT	SO	PU	RAB
2	03-Apr-13 @ 13:30	09-Apr-13 @ 14:30	145.00	2333.0	3264.0	737.0	194.0	931.0	9.48	28.7	2.7	0-75	65-615	.0	.0	.0	.0	0-96	0-115	0-106
				Hours>		25.67	72.50	98.17												

Hughes PDC DPD506FX 6x22
 O.D.=12 1/4
 Length=1.4

X/O Float Sub
 O.D.=8 1/16
 Length=3

8" Drill Collar
 O.D.=8
 Length=30.38

(3) 8" Drill Collars
 O.D.=8
 Length=88.98

X/citer (20) 4 1/2" HWDP
 O.D.=6 1/20.D.=4 1/2
 Length=29.0Length=609.07



Motor 4/5 6.0 2" Fixed .246 rev/gal
 O.D.=7 3/4
 Length=31.15

Stabilizer Nortrack
 O.D.=8
 Length=5.18

MWD Monel
 O.D.=7 15/16
 Length=29.42

Stabilizer Nortrack
 O.D.=8
 Length=4.44

X/O Sub (8) 6 1/2" Drill Collars
 O.D.=7 1/20.D.=6 1/2
 Length=2.5Length=230.09

BHA Summary Report for JOB

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide		Rate	IN	OUT	IN	OUT	SO	PU	RAB
3	09-Apr-13 @ 19:10	11-Apr-13 @ 05:15	34.08	3264.0	4009.0	687.0	58.0	745.0	44.92	58.1	12.2	20-30	580-600	.0	.0	.0	.0	95-104	115-127	103-110
				Hours>		11.83	4.75	16.58												

Hughes PDC DPD508FX 6x18
O.D.=12 1/4
Length=1.4

X/O Float Sub
O.D.=8 1/16
Length=3

4 8" Drill Collars
O.D.=8
Length=119.38

(8) 6 1/2" Drill Collars
O.D.=6 1/2
Length=230.09



Motor 4/5 6.0 Fixed at 2° revs/gal .248
O.D.=7 3/4
Length=31.11

MWD Monel
O.D.=7 15/16
Length=29.42

X/O Sub
O.D.=7 1/2
Length=2.57

(20) 4 1/2" HWDP
O.D.=4 1/2
Length=609.07

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide		Rate	IN	OUT	IN	OUT	SO	PU	RAB
4	11-Apr-13 @ 05:15	13-Apr-13 @ 24:00	66.75	4009.0	4820.0	521.0	290.0	811.0	31.39	57.4	17.3	30-30	600-600	.0	.0	.0	.0	0-115	135-147	110-120
				Hours>		9.08	16.75	25.83												

Bit Reed Hycalog DSH1616D 6x18
O.D.=12 1/4
Length=1

X/O Float Sub
O.D.=8 1/16
Length=3

4 8" Drill Collars
O.D.=8
Length=119.38

(8) 6 1/2" Drill Collars
O.D.=6 1/2
Length=230.09



Motor 4/5 6.0 Fixed at 2° revs/gal .248
O.D.=7 3/4
Length=31.11

MWD Monel
O.D.=7 15/16
Length=29.42

X/O Sub
O.D.=7 1/2
Length=2.57

(20) 4 1/2" HWDP
O.D.=4 1/2
Length=609.07

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide		Rate	IN	OUT	IN	OUT	SO	PU	RAB
5	24-Apr-13 @ 03:00	28-Apr-13 @ 24:00	117.00	4820.0	6037.0	394.0	663.0	1217.0	18.01	20.4	13.7	0-30	0-435	.0	.0	.0	.0	0-125	0-160	0-125
				Hours>		19.33	48.25	67.58												

Bit Hughes GX-09C 3x22
O.D.=8 3/4
Length=0.8

Float Sub - X/O Sub
O.D.=6 3/4
Length=2.69

DP X/O Sub
O.D.=6 1/2
Length=3.33

(32) 4 1/2" Drill Pipe
O.D.=6 1/4
Length=1003.71



6 3/4 Motor 7/8 5.0 Set 2.38°
O.D.=6 3/4
Length=25.55

Pony NMDC
O.D.=6 3/8
Length=14.07

MWD Monel
O.D.=6 3/4
Length=29.75

UBHO Sub
O.D.=5 13/16
Length=2.21

NM Flex Collar
O.D.=6 7/16
Length=30.34

(20) 4 1/2" HWDP
O.D.=4 1/2
Length=609.07

BHA Summary Report for JOB

#	TIME IN - OUT			DEPTHS		Footage			ROP			RPM	FLOW	Incl.		Azimuth		Weight Ranges		
	Time IN	Time Out	Hrs.	IN	OUT	Rotary	Slide	Total	AVG.	Rotary	Slide			Rate	IN	OUT	IN	OUT	SO	PU
6	30-Apr-13 @ 22:15	06-May-13 @ 10:00	131.75	6057.0	10367.0	3880.0	430.0	4310.0	60.56	77.3	20.5	0-60	200-235	.0	.0	.0	.0	51-80	105-141	89-101
				Hours>		50.17	21.00	71.17												

Bit Hycalog PDC SKH613M 3x16 3/4 Motor 7/8 3.8 Fixed at 1.5° revs/gal .521
 O.D.=6 1/8 O.D.=4 3/4
 Length=0.62 Length=21.66

DP X/O Sub
 O.D.=4 3/4
 Length=1.17

Xc(56) Joints 3 1/2 HWDP
 O.D.=4 3/4
 Length=5924.46



iPZIG LHM
 O.D.=5 1/8
 Length=3.33

Float Sub iPZIG UXM
 O.D.=4 9/16 O.D.=4 3/4
 Length=2.37 Length=7.12

DPM
 O.D.=4 11/16
 Length=4.53

MWD Monel
 O.D.=4 11/16
 Length=28.5

SCLSS
 O.D.=4 3/4
 Length=31.49

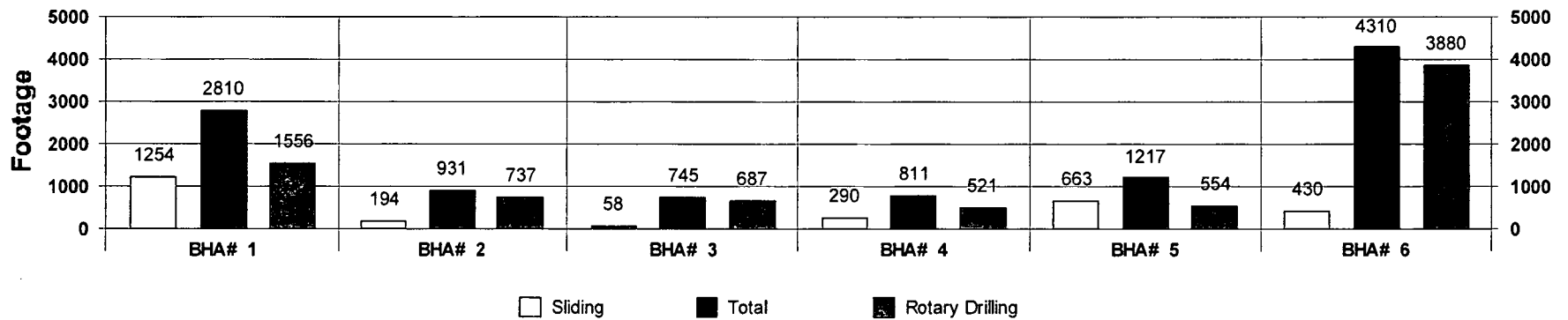
NMDC (175) Joints 3 1/2 DP 13.3#
 O.D.=4 3/4
 Length=5557.5



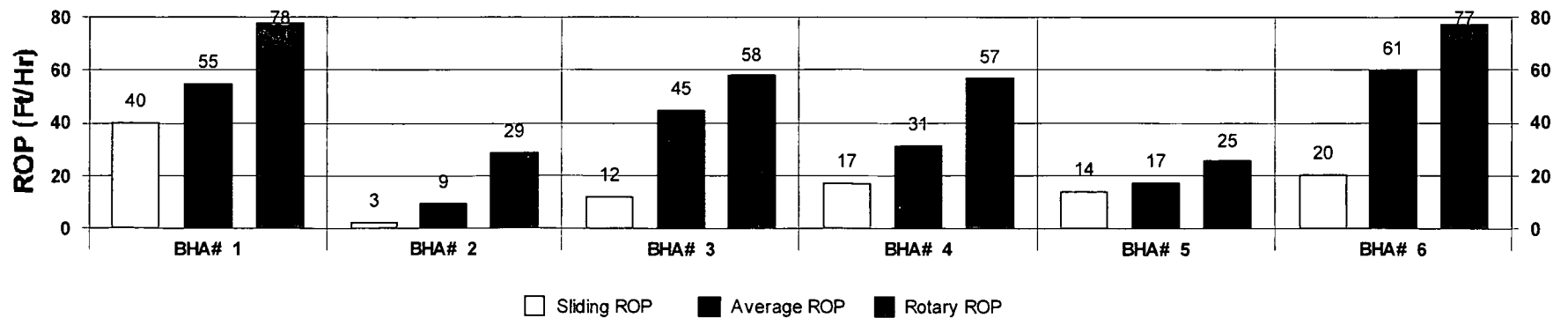
A Schlumberger Company

JOB NO.:	13FMG0004	FIELD:	Nageezi Gallup
COMPANY:	WPX Energy	Township:	23N
LOCATION:	Lybrook	SECTRANGE:	19
RIG NAME:	Aztec #980		6W
STATE:	New Mexico	COMMENT	
COUNTY:	Sandoval		
WELL NAME:	Chaco 2306-19M #191H		

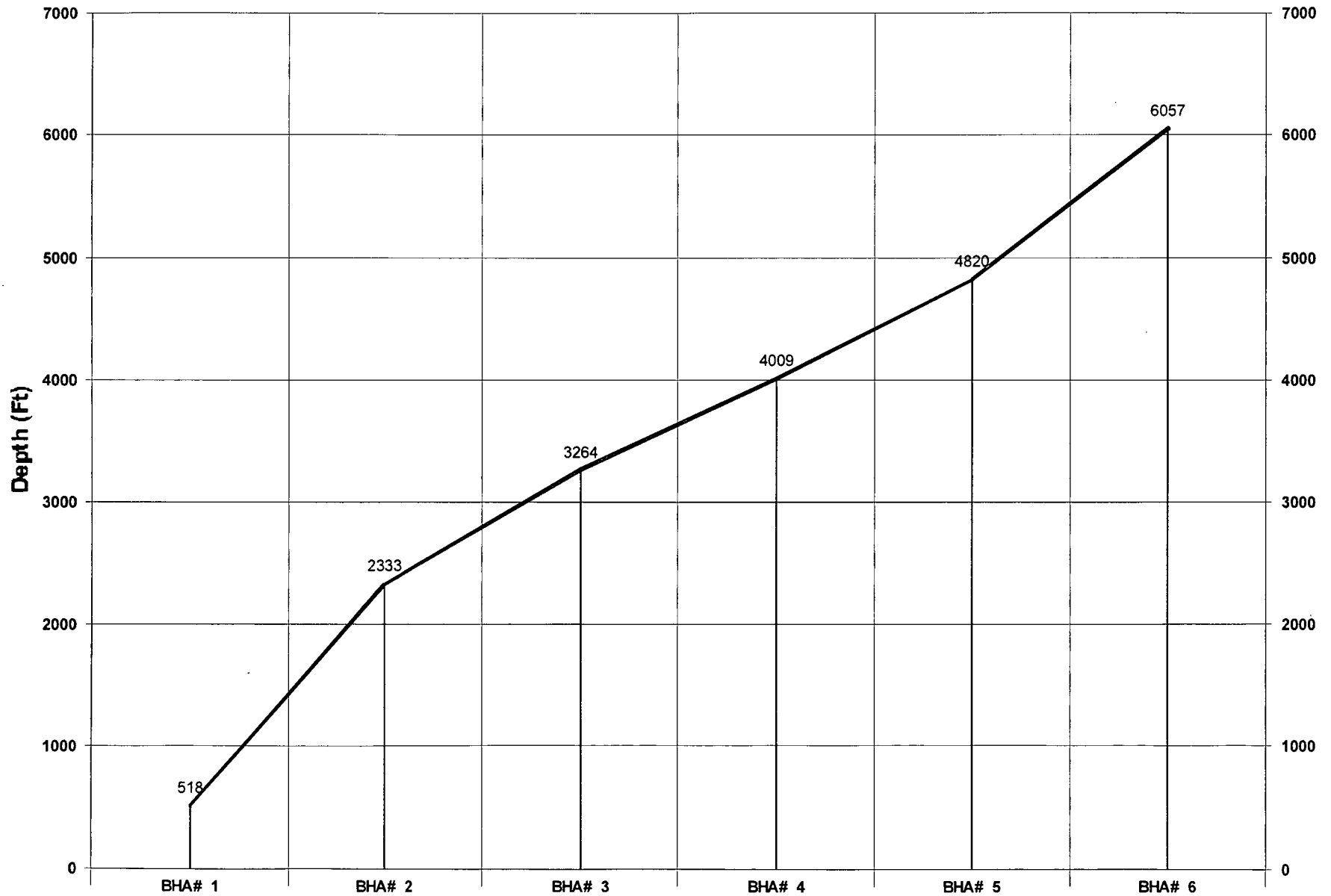
Footage Drilled with BHA



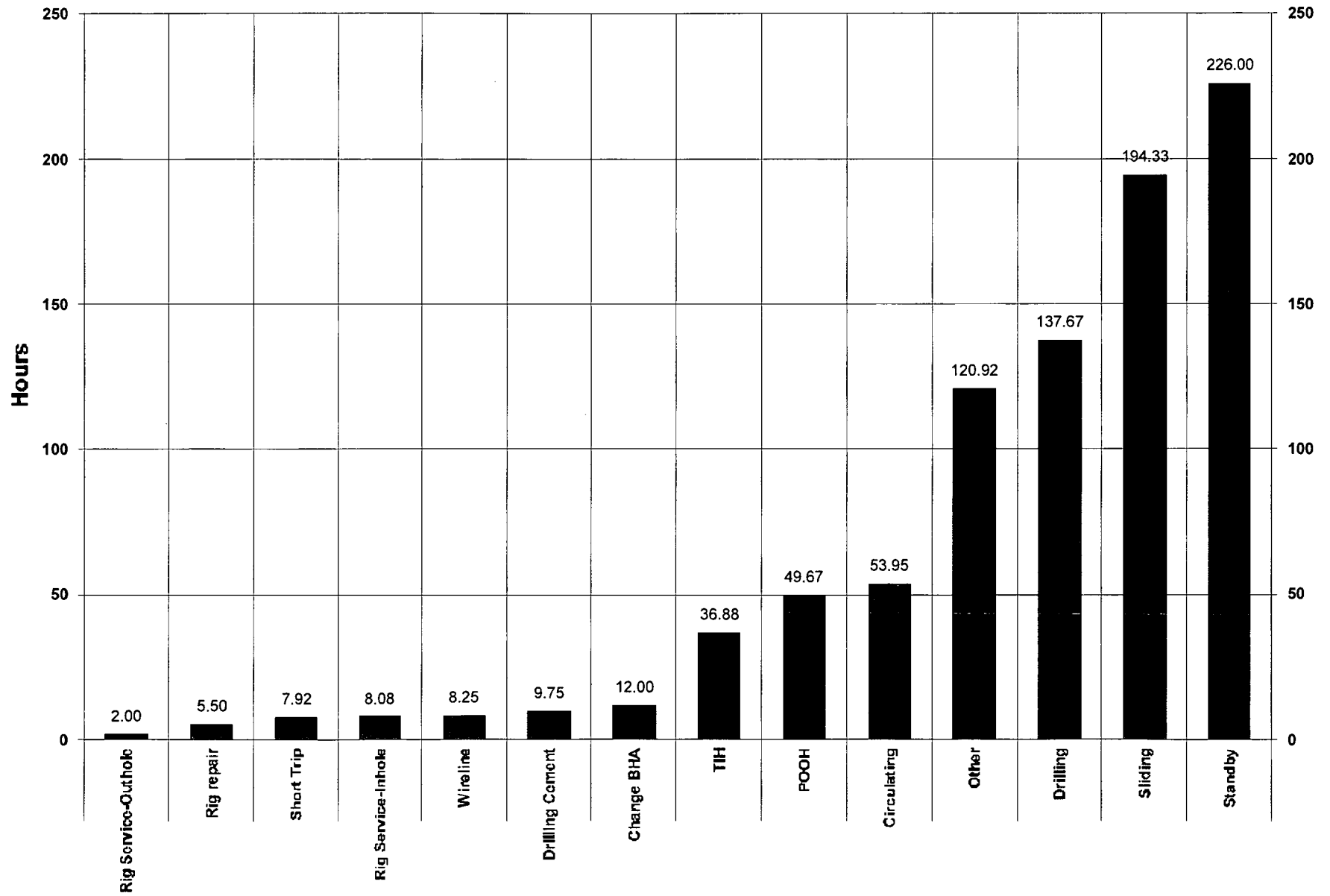
ROP vs BHA



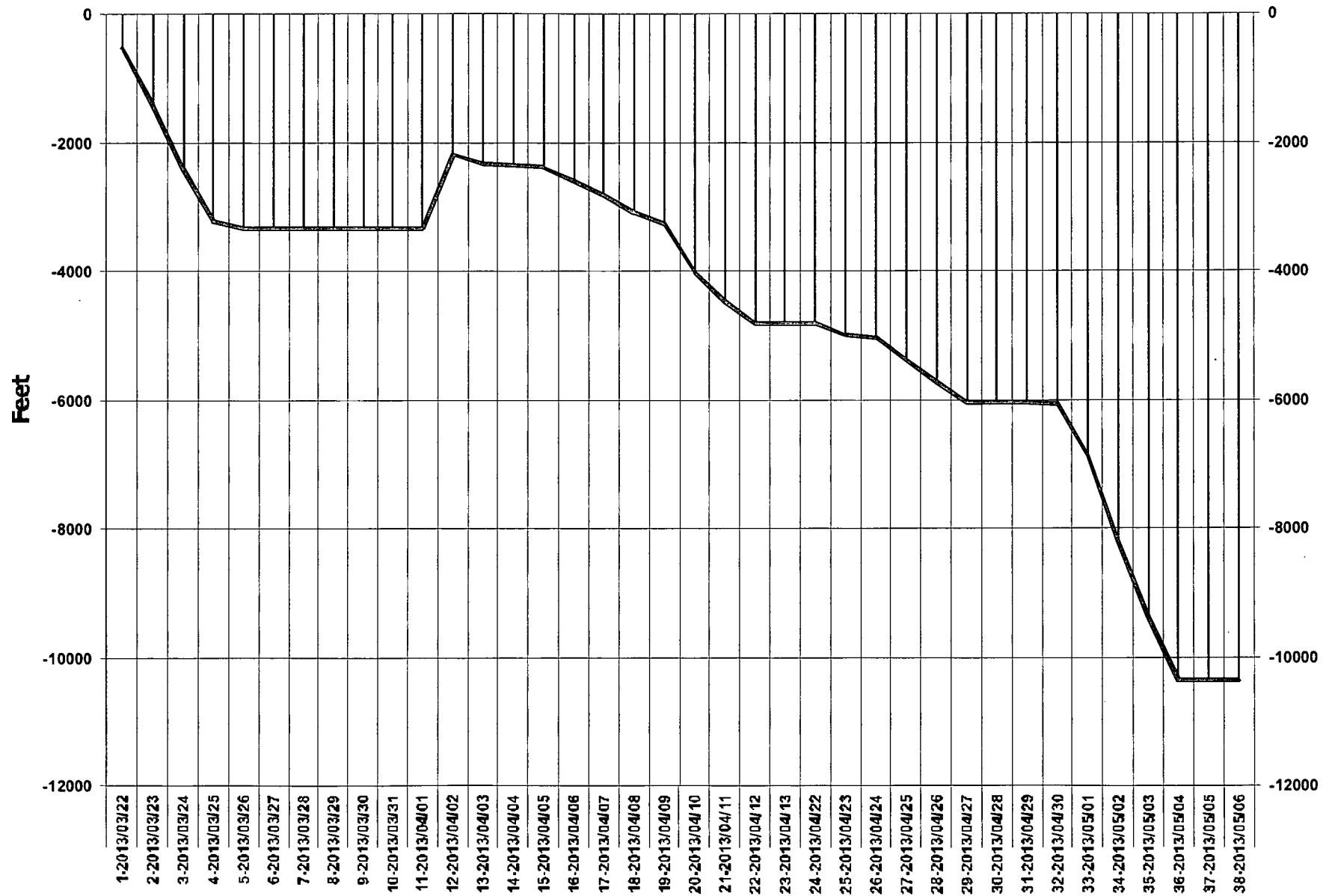
Depth vs BHA



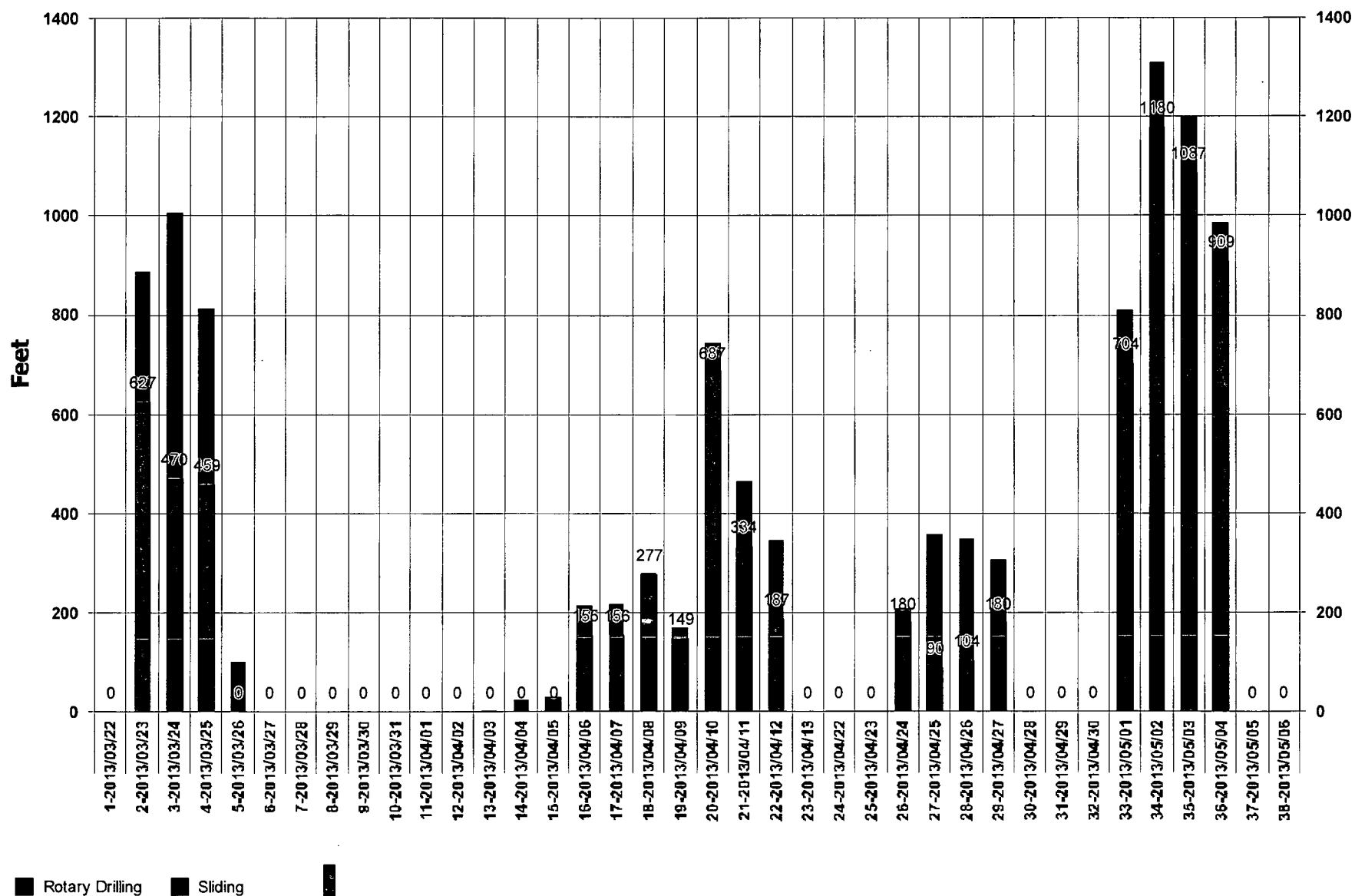
Activity Histogram



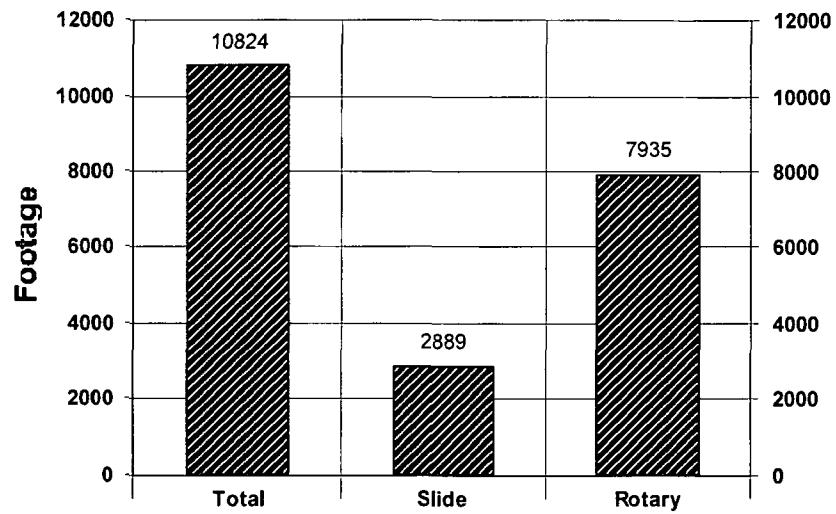
Measured Depth vs Days



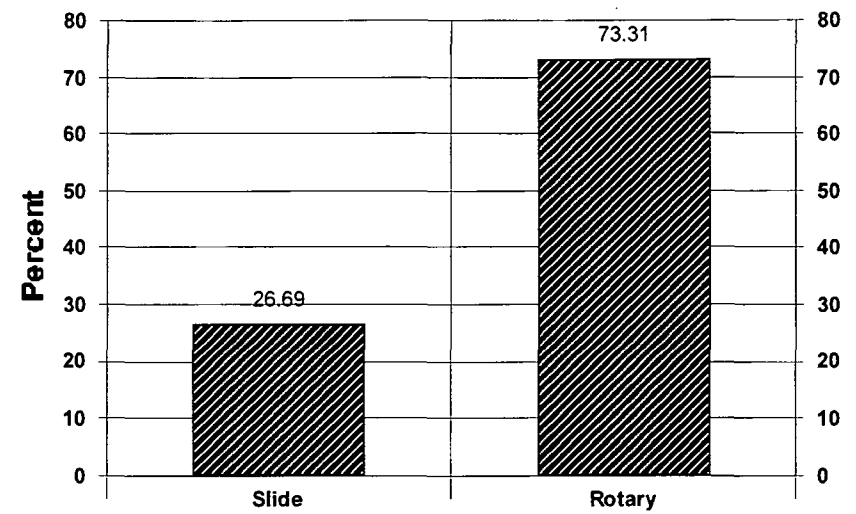
Daily Footage



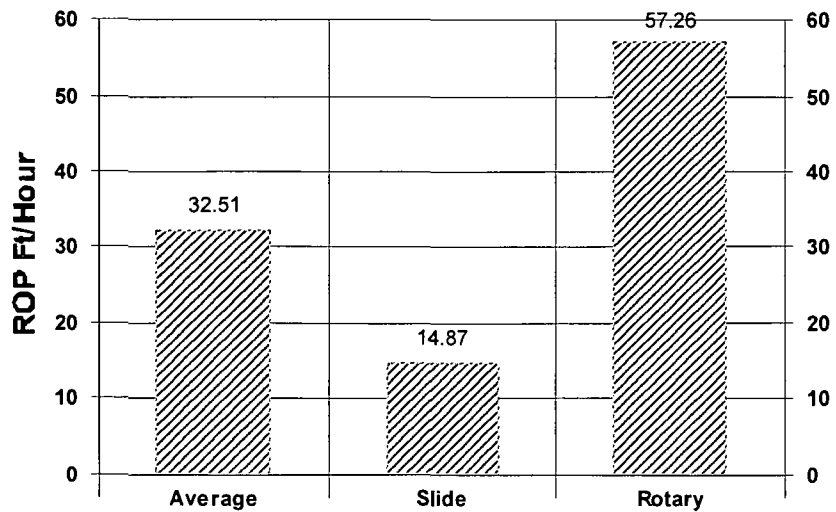
Footage Drilled Totals



Footage Percent



Rate of Penetration Totals



Time Percent

