

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-31208	² Pool Code 98088	³ Pool Name CHACO UNIT NE HZ (OIL)
⁴ Property Code 313124	⁵ Property Name CHACO 2307-13I	⁶ Well Number 187H
⁷ GRID No. 120782	⁸ Operator Name WPX ENERGY PRODUCTION, LLC	⁹ Elevation 6926'

¹⁰Surface Location

UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
I	13	23N	7W		1742	SOUTH	296	EAST	RIO ARriba

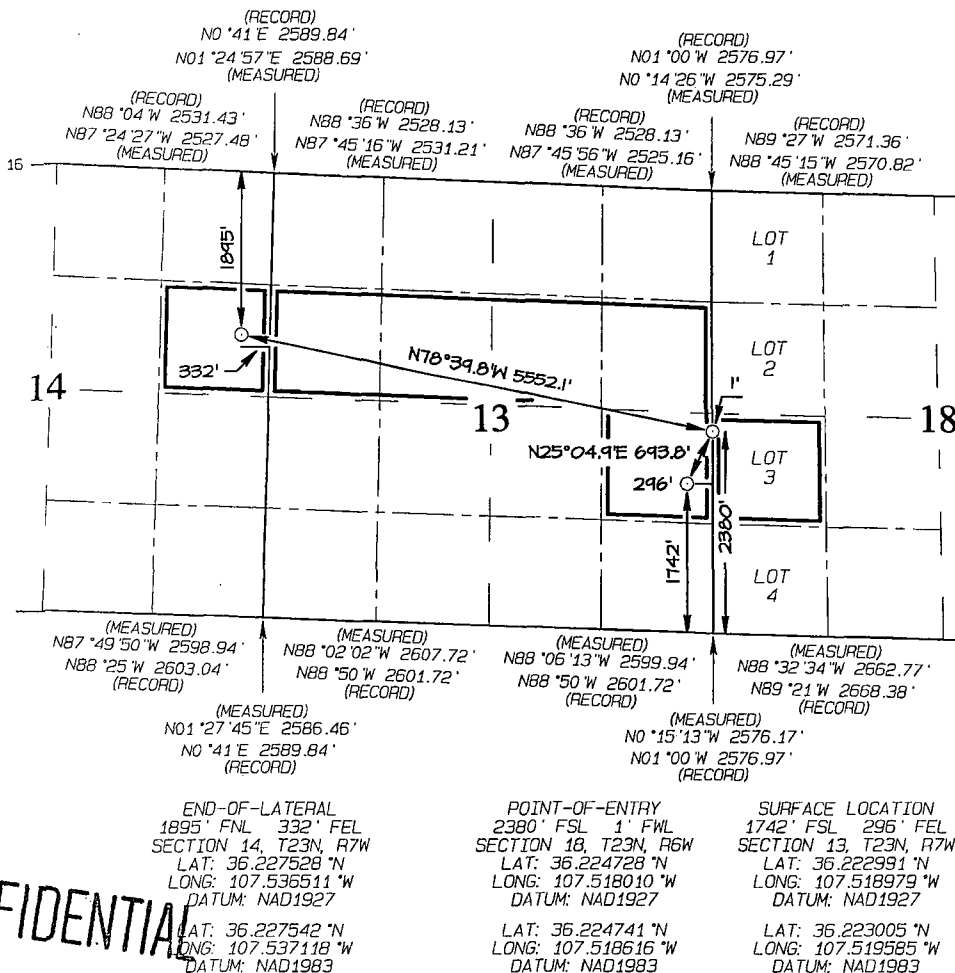
¹¹Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Ion	Feet from the	North/South line	Feet from the	East/West line	County
H	14	23N	7W		1895	NORTH	332	EAST	RIO ARriba

¹² Dedicated Acres NW/4 SW/4 (18) SE/4 NE/4 (14) 280.75 S/2 N/2 & NE/4 SE/4 (13)	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No. R-13817	RCVD SEP 24 '14 OIL CONS. DIV.
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DIST. 3

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.

Larry Higgins 9/22/14
Signature Date

Larry Higgins

Printed Name

larry.higgins@wpxenergy.com

E-mail Address

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: AUGUST 15, 2014
Date of Survey: AUGUST 2, 2012

Signature and Seal of Professional Surveyor



JASON C. EDWARDS

Certificate Number 15269

AV



Chaco 2307-13I #187H MWD+GYRO 0' to 11625' Definitive Survey Geodetic Report (Def Survey)



Report Date: August 12, 2014 - 10:51 AM
Client: WPX Energy
Field: NM, Rio Arriba (NAD 27 CZ)
Structure / Slot: WPX 13-23N-7W (Chaco 2307-13I Pad) / Chaco 2307-13I #187H
Well: Chaco 2307-13I #187H
Borehole: Original Hole
UWI / API#: Unknown / Unknown
Survey Name: Chaco 2307-13I #187H MWD+GYRO 0' to 11625' Definitive
Survey Date: July 25, 2014
Tort / AHD / DDI / ERD Ratio: 251.332' / 7318.529 ft / 6.587' / 1.324
Coordinate Reference System: NAD27 New Mexico State Plane, Central Zone, US Feet
Location Lat / Long: N 36° 13' 22.76400", W 107° 31' 8.32800"
Location Grid N/E Y/X: N 1902827.864 ftUS, E 125699.248 ftUS
CRS Grid Convergence Angle: -0.7500 °
Grid Scale Factor: 1.00006032
Version / Patch: 2.8.551.0

Survey / DLS Computation: Minimum Curvature / Lubinski
Vertical Section Azimuth: 287.832 ° (True North)
Vertical Section Origin: 0.000 ft, 0.000 ft
TVD Reference Datum: RKB
TVD Reference Elevation: 6939.000 ft above MSL
Seabed / Ground Elevation: 6925.000 ft above MSL
Magnetic Declination: 9.433 °
Total Gravity Field Strength: 998.4966mgn (9.80665 Based)
Gravity Model: GARM
Total Magnetic Field Strength: 50079.185 nT
Magnetic Dip Angle: 63.003 °
Declination Date: July 21, 2014
Magnetic Declination Model: BGGM 2014
North Reference: True North
Grid Convergence Used: 0.0000 °
Total Corr Mag North->True North: 9.4328 °
Local Coord Referenced To: Well Head

Comments	MD (ft)	Incl (°)	Azim True (°)	TVD (ft)	VSEC (ft)	NS (ft)	EW (ft)	DLS (ft/100ft)	Northing (ftUS)	Easting (ftUS)	Latitude (N/S ° ' ")	Longitude (E/W ° ' ")
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	N/A	1902827.86	125699.25	N 36 13 22.76	W 107 31 8.33
Original KB	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	1902827.86	125699.25	N 36 13 22.76	W 107 31 8.33
Begin GYRO Survey	64.00	0.39	42.14	64.00	-0.07	0.13	0.11	0.78	1902827.99	125699.36	N 36 13 22.77	W 107 31 8.33
	114.00	0.30	320.00	114.00	-0.03	0.35	0.14	0.92	1902828.21	125699.40	N 36 13 22.77	W 107 31 8.33
	164.00	0.36	199.16	164.00	0.09	0.30	0.01	1.15	1902828.17	125699.26	N 36 13 22.77	W 107 31 8.33
	214.00	0.40	202.45	214.00	0.10	-0.01	-0.11	0.09	1902827.86	125699.14	N 36 13 22.76	W 107 31 8.33
	264.00	0.34	157.35	264.00	0.02	-0.30	-0.12	0.58	1902827.56	125699.13	N 36 13 22.76	W 107 31 8.33
	314.00	0.52	320.83	314.00	0.11	-0.26	-0.21	1.70	1902827.60	125699.04	N 36 13 22.76	W 107 31 8.33
	364.00	0.67	311.17	363.99	0.57	0.10	-0.57	0.36	1902827.98	125698.68	N 36 13 22.77	W 107 31 8.33
Last GYRO Survey	396.00	0.67	304.63	395.99	0.92	0.33	-0.86	0.24	1902828.21	125698.39	N 36 13 22.77	W 107 31 8.34
9 5/8" Casing Point	430.00	0.74	314.76	429.99	1.31	0.60	-1.18	0.41	1902828.48	125698.07	N 36 13 22.77	W 107 31 8.34
Begin MWD Survey	515.00	0.97	332.44	514.98	2.31	1.62	-1.90	0.41	1902829.51	125697.37	N 36 13 22.78	W 107 31 8.35
	579.00	1.93	18.84	578.96	2.67	3.12	-1.80	2.26	1902831.01	125697.48	N 36 13 22.79	W 107 31 8.35
	642.00	3.78	42.84	641.88	1.78	5.65	-0.05	3.43	1902833.51	125699.27	N 36 13 22.82	W 107 31 8.33
	705.00	4.40	44.42	704.72	-0.18	8.90	3.05	1.00	1902836.72	125702.42	N 36 13 22.85	W 107 31 8.29
	768.00	5.45	50.92	767.49	-2.90	12.51	7.07	1.88	1902840.28	125706.48	N 36 13 22.89	W 107 31 8.24
	831.00	6.86	52.94	830.12	-6.69	16.66	12.39	2.26	1902844.37	125711.86	N 36 13 22.93	W 107 31 8.18
	894.00	8.00	57.16	892.59	-11.64	21.31	19.08	2.00	1902848.92	125718.61	N 36 13 22.97	W 107 31 8.10
	958.00	9.50	59.80	955.85	-17.99	26.38	27.39	2.43	1902853.89	125726.98	N 36 13 23.02	W 107 31 7.99
	1021.00	10.29	61.91	1017.91	-25.38	31.65	36.84	1.38	1902859.03	125736.51	N 36 13 23.08	W 107 31 7.88
	1084.00	11.43	66.65	1079.78	-34.00	36.77	47.54	2.30	1902864.01	125747.27	N 36 13 23.13	W 107 31 7.75
	1144.00	13.19	68.68	1138.40	-43.78	41.62	59.38	3.02	1902868.70	125759.17	N 36 13 23.18	W 107 31 7.60
	1205.00	15.12	70.52	1197.54	-55.50	46.80	73.36	3.25	1902873.70	125773.22	N 36 13 23.23	W 107 31 7.43
	1266.00	15.30	70.79	1256.41	-68.26	52.10	88.46	0.32	1902878.80	125788.39	N 36 13 23.28	W 107 31 7.25
	1327.00	15.30	70.52	1315.25	-81.08	57.43	103.65	0.12	1902883.94	125803.65	N 36 13 23.33	W 107 31 7.06
	1388.00	15.39	70.35	1374.07	-93.91	62.84	118.86	0.16	1902889.14	125818.93	N 36 13 23.39	W 107 31 6.88
	1449.00	15.56	70.70	1432.86	-106.85	68.26	134.20	0.32	1902894.37	125834.34	N 36 13 23.44	W 107 31 6.69
	1511.00	14.68	71.75	1492.71	-119.83	73.47	149.51	1.49	1902899.38	125849.72	N 36 13 23.49	W 107 31 6.50
	1571.00	13.81	68.68	1550.87	-131.53	78.46	163.40	1.92	1902904.18	125863.68	N 36 13 23.54	W 107 31 6.33
	1632.00	13.19	66.92	1610.18	-142.43	83.83	176.59	1.22	1902909.38	125876.93	N 36 13 23.59	W 107 31 6.17
	1694.00	12.66	65.16	1670.61	-152.77	89.46	189.26	1.06	1902914.84	125889.68	N 36 13 23.65	W 107 31 6.02
	1754.00	12.66	65.34	1729.15	-162.46	94.97	201.20	0.07	1902920.19	125901.69	N 36 13 23.70	W 107 31 5.87
	1815.00	12.66	66.48	1788.67	-172.40	100.42	213.41	0.41	1902925.49	125913.97	N 36 13 23.76	W 107 31 5.72
	1876.00	13.54	67.27	1848.08	-182.85	105.85	226.12	1.47	1902930.75	125926.75	N 36 13 23.81	W 107 31 5.57
	1937.00	14.60	68.59	1907.25	-194.23	111.41	239.87	1.82	1902936.14	125940.57	N 36 13 23.87	W 107 31 5.40
	1999.00	14.25	68.32	1967.30	-206.17	117.09	254.23	0.57	1902941.62	125955.01	N 36 13 23.92	W 107 31 5.23
	2059.00	14.42	68.15	2025.43	-217.61	122.59	268.03	0.29	1902946.95	125968.88	N 36 13 23.98	W 107 31 5.06
	2120.00	14.07	65.87	2084.55	-228.97	128.45	281.85	1.08	1902952.62	125982.77	N 36 13 24.03	W 107 31 4.89
	2181.00	14.95	64.88	2143.61	-240.24	134.82	295.74	1.50	1902958.81	125996.74	N 36 13 24.10	W 107 31 4.72
	2243.00	14.95	67.45	2203.51	-252.19	141.29	310.37	1.07	1902965.08	126011.45	N 36 13 24.16	W 107 31 4.54
	2303.00	13.72	69.94	2261.64	-263.70	146.69	324.20	2.29	1902970.31	126025.36	N 36 13 24.21	W 107 31 4.37
	2365.00	13.81	72.60	2351.00	-281.28	153.72	344.92	0.69	1902977.07	126046.17	N 36 13 24.26	W 107 31 4.12
	2429.00	14.68	73.48	2413.03	-294.21	158.31	359.99	1.40	1902981.46	126061.30	N 36 13 24.33	W 107 31 3.93
	2522.00	15.48	71.11	2473.86	-307.54	163.30	375.60	1.60	1902986.25	126076.97	N 36 13 24.38	W 107 31 3.74
	2586.00	16.09	67.17	2535.45	-321.12	169.51	391.85	1.93	1902992.24	126093.31	N 36 13 24.44	W 107 31 3.55
	2650.00	15.48	65.18	2597.04	-334.13	176.54	407.78	1.27	1902999.06	126109.33	N 36 13 24.51	W 107 31 3.35
	2713.00	15.12	64.92	2657.80	-346.33	183.55	422.85	0.58	1903005.87	126124.49	N 36 13 24.58	W 107 31 3.17
	2777.00	14.60	67.27	2719.66	-358.57	190.20	437.85	1.24	1903012.33	126139.58	N 36 13 24.64	W 107 31 2.98
	2840.00	14.51	68.33	2780.64	-370.69	196.18	452.51	0.45	1903018.12	126154.31	N 36 13 24.70	W 107 31 2.81
	2903.00	14.07	69.40	2841.69	-382.78	201.79	467.01	0.81	1903023.54	126168.89	N 36 13 24.76	W 107 31 2.63
	2966.00	13.72	68.31	2902.85	-394.54	207.25	481.12	0.69	1903028.81	126183.07	N 36 13 24.81	W 107 31 2.46
	3029.00	13.45	68.85	2964.09	-406.00	212.65	494.90	0.47	1903034.03	126196.92	N 36 13 24.87	W 107 31 2.29
	3092.00	13.28	68.60	3025.38	-417.30	217.94	508.47	0.29	1903039.14	126210.55	N 36 13 24.92	W 107 31 2.12
	3156.00	13.45	68.42	3087.65	-428.75	223.36	522.23	0.27	1903044.38	126224.39	N 36 13 24.97	W 107 31 1.95
	3219.00	14.07	68.95	3148.84	-440.37	228.80	536.19	1.00	1903049.64	126238.42	N 36 13 25.03	W 107 31 1.78
	3282.00	14.16	70.52	3209.94	-452.46	234.12	550.60	0.62	1903054.77	126252.90	N 36 13 25.08	W 107 31 1.61
	3345.00	14.51	74.70	3270.98	-465.20	238.78	565.48	1.73	1903059.23	126267.84	N 36 13 25.13	W 107 31 1.43
	3409.00	14.86	75.06	3332.89	-478.81	243.01	581.14	0.57	1903063.26	126283.56	N 36 13 25.17	W 107 31 1.24
	3472.00	15.92	75.72	3393.63	-492.92	247.22	597.32	1.71	1903067.26	126299.79	N 36 13 25.21	W 107 31 1.04
	3535.00	15.12	74.58	3454.33	-507.11	251.54	613.62	1.36	1903071.36	126316.14	N 36 13 25.25	W 107 31 0.84
	3598.00	14.33	72.89	3515.26	-520.37	256.02	628.99	1.43	1903075.64	126331.57	N 36 13 25.30	W 107 31 0.65
	3661.00	15.04	73.06	3576.20	-533.48	260.69	644.26	1.13	1903080.11	126346.90	N 36 13 25.34	W 107 31 0.47
	3724.00	15.92	74.93	3636.92	-547.45	265.32	660.42	1.61	1903084.53	126363.13	N 36 13 25.39	W 107 31 0.27
	3787.00	15.30	74.16	3697.59	-561.62	269.83	676.76	1.04	1903088.83	126379.53	N 36 13 25.43	W 107 31 0.07
	3850.00	14.77	69.69	3758.44	-574.85	274.89	692.29	2.02	1903093.69	126395.12	N 36 13 25.48	W 107 30 59.88
	3914.00	14.42	72.63	3820.37	-587.78	280.10	707.55	1.28	1903098.70	126410.44	N 36 13 25.53	W 107 30 59.69
	3977.00	14.77	77.60	3881.34	-601.13	284.17	722.88	2.06	1903102.56	126425.83	N 36 13 25.57	W 107 30 59.51
	4040.00	15.30	78.34	3942.18	-615.31	287.57	738.86	0.89	1903105.76	126441.86	N 36 13 25.61	W 107 30 59.31
	4103.00	15.83	77.84	4002.87	-629.98	291.06	755.40	0.87	1903109.03	126458.44	N 36 13 25.64	W 107 30 59.11
	4166.00	16.00	74.76	4063.46	-644.70	295.15	772.18	1.37	1903112.90	126475.27	N 36 13 25.68	W 107 30 58.90
	4229.00	15.92	71.50	4124.03	-658.94	300.18	788.75	1.43	1903117.71	126491.91	N 36 13 25.73	W 107 30 58.70
	4292.00	15.83	69.42	4184.63	-672.63	305.94	804.99	0.91	1903123.26			

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 ° ' ")
	4545.00	16.71	64.85	4426.83	-726.06	337.03	871.11	1.21	1903153.48	126574.75	N 36 13 26.10 W	107 30 57.70
	4606.00	15.21	63.08	4485.48	-738.16	344.38	886.19	2.58	1903160.63	126589.92	N 36 13 26.17 W	107 30 57.51
	4670.00	14.86	61.55	4547.29	-749.79	352.09	900.89	0.83	1903168.15	126604.72	N 36 13 26.25 W	107 30 57.33
	4733.00	13.63	60.67	4608.35	-760.42	359.57	914.47	1.98	1903175.46	126618.40	N 36 13 26.32 W	107 30 57.17
	4796.00	12.40	54.82	4669.73	-769.54	367.11	926.47	2.86	1903182.84	126630.49	N 36 13 26.39 W	107 30 57.02
	4859.00	9.94	30.79	4731.57	-774.83	375.68	934.78	8.27	1903191.30	126638.92	N 36 13 26.48 W	107 30 56.92
	4922.00	9.50	12.29	4793.68	-775.55	385.44	938.68	4.98	1903201.00	126642.94	N 36 13 26.58 W	107 30 56.87
	4985.00	11.70	357.44	4855.61	-772.82	396.90	939.50	5.54	1903212.46	126643.91	N 36 13 26.69 W	107 30 56.86
	5048.00	12.66	343.39	4917.21	-766.69	409.90	937.24	4.93	1903225.49	126641.83	N 36 13 26.82 W	107 30 56.89
	5111.00	15.04	334.54	4978.38	-757.18	423.90	931.75	5.05	1903239.56	126636.52	N 36 13 26.96 W	107 30 56.96
	5174.00	17.57	330.99	5038.82	-744.59	439.65	923.60	4.46	1903255.41	126628.57	N 36 13 27.11 W	107 30 57.06
	5238.00	19.70	321.96	5097.57	-729.07	456.11	912.59	5.69	1903272.02	126617.78	N 36 13 27.27 W	107 30 57.19
	5299.00	25.24	307.86	5155.80	-707.63	472.74	895.42	12.21	1903288.87	126600.83	N 36 13 27.44 W	107 30 57.40
	5362.00	31.74	298.09	5211.17	-678.66	488.81	870.15	12.67	1903305.27	126575.77	N 36 13 27.60 W	107 30 57.71
	5425.00	38.69	293.95	5262.62	-642.73	504.63	837.49	11.66	1903321.52	126543.32	N 36 13 27.75 W	107 30 58.11
	5488.00	45.37	290.58	5309.40	-600.70	520.52	798.46	11.19	1903337.92	126504.50	N 36 13 27.91 W	107 30 58.58
	5552.00	51.88	287.65	5351.68	-552.72	536.18	753.10	10.73	1903354.17	126459.34	N 36 13 28.07 W	107 30 59.14
	5615.00	57.16	284.25	5388.24	-501.48	550.23	703.79	9.45	1903368.87	126410.22	N 36 13 28.21 W	107 30 59.74
	5678.00	61.47	282.55	5420.39	-447.48	562.78	651.10	7.23	1903382.10	126357.69	N 36 13 28.33 W	107 31 0.38
	5741.00	64.63	280.37	5448.94	-391.68	573.92	596.07	5.89	1903393.96	126302.81	N 36 13 28.44 W	107 31 1.05
	5805.00	67.80	279.26	5474.75	-333.70	583.89	538.37	5.20	1903404.69	126245.24	N 36 13 28.54 W	107 31 1.76
	5868.00	72.28	279.13	5496.25	-275.17	593.35	479.93	7.11	1903414.92	126186.93	N 36 13 28.63 W	107 31 2.47
	5931.00	78.96	280.58	5511.88	-214.77	603.80	419.84	10.83	1903426.15	126126.98	N 36 13 28.73 W	107 31 3.20
	5994.00	83.10	283.01	5521.71	-152.90	616.52	358.04	7.60	1903439.67	126066.25	N 36 13 28.86 W	107 31 3.95
	6017.00	83.45	282.43	5524.40	-130.15	621.55	336.66	2.93	1903444.99	126044.04	N 36 13 28.91 W	107 31 4.22
7" Casing Point	6076.00	87.86	282.01	5528.34	-78.56	632.53	286.00	8.53	1903456.63	125993.52	N 36 13 29.02 W	107 31 4.94
	6103.00	90.75	281.74	5528.75	-44.75	639.52	252.73	8.53	1903464.08	125960.35	N 36 13 29.09 W	107 31 5.24
	6166.00	91.89	282.09	5527.30	17.89	652.53	191.11	1.89	1903477.87	125898.69	N 36 13 29.22 W	107 31 6.00
	6229.00	91.36	281.59	5525.51	80.52	665.45	129.47	1.16	1903491.60	125837.43	N 36 13 29.34 W	107 31 6.75
	6292.00	90.22	280.16	5524.64	143.05	677.33	67.61	2.90	1903504.29	125775.73	N 36 13 29.46 W	107 31 7.50
	6355.00	91.36	280.61	5523.77	205.51	688.69	5.65	1.93	1903516.46	125713.92	N 36 13 29.57 W	107 31 8.26
	6419.00	90.57	279.95	5522.69	268.95	700.11	-57.31	1.61	1903528.70	125651.10	N 36 13 29.69 W	107 31 9.03
	6482.00	91.28	279.90	5521.68	331.34	710.96	-119.36	1.13	1903540.37	125589.20	N 36 13 29.79 W	107 31 9.78
	6545.00	91.28	278.80	5520.27	393.63	721.19	-181.51	1.75	1903551.41	125527.19	N 36 13 29.90 W	107 31 10.54
	6609.00	91.71	278.81	5518.60	456.82	730.99	-244.73	0.67	1903562.04	125464.09	N 36 13 29.99 W	107 31 11.31
	6672.00	90.66	277.11	5517.30	518.87	739.71	-307.11	3.17	1903571.57	125401.83	N 36 13 30.08 W	107 31 12.08
	6732.00	89.60	275.52	5517.16	577.65	746.31	-366.74	3.18	1903578.95	125342.29	N 36 13 30.14 W	107 31 12.80
	6793.00	89.43	274.10	5517.68	637.09	751.42	-427.52	2.34	1903584.86	125281.58	N 36 13 30.19 W	107 31 13.55
	6854.00	90.92	275.56	5517.49	696.52	756.56	-488.30	3.42	1903590.79	125220.86	N 36 13 30.25 W	107 31 14.29
	6914.00	92.15	278.36	5515.88	755.42	763.83	-547.83	5.10	1903598.84	125161.43	N 36 13 30.32 W	107 31 15.01
	6975.00	93.12	278.72	5513.08	815.55	772.88	-608.09	1.70	1903608.68	125101.29	N 36 13 30.41 W	107 31 15.75
	7036.00	91.80	278.92	5510.46	875.74	782.22	-668.31	2.19	1903618.81	125041.20	N 36 13 30.50 W	107 31 16.48
	7098.00	91.63	279.70	5508.61	937.03	792.25	-729.47	1.29	1903629.64	124980.17	N 36 13 30.60 W	107 31 17.23
	7158.00	90.66	279.19	5507.41	996.37	802.09	-788.64	1.83	1903640.25	124921.13	N 36 13 30.70 W	107 31 17.95
	7219.00	90.75	278.93	5506.66	1056.66	811.69	-848.87	0.45	1903650.65	124861.02	N 36 13 30.79 W	107 31 18.69
	7281.00	91.28	279.91	5505.56	1117.98	821.84	-910.03	1.80	1903661.59	124800.00	N 36 13 30.89 W	107 31 19.43
	7341.00	91.45	281.46	5504.13	1177.49	832.96	-968.97	2.60	1903673.49	124741.21	N 36 13 31.00 W	107 31 20.15
	7402.00	91.89	282.96	5502.35	1238.17	845.86	-1028.56	2.56	1903687.16	124681.79	N 36 13 31.13 W	107 31 20.88
	7463.00	91.71	283.25	5500.44	1298.93	859.68	-1087.94	0.56	1903701.76	124622.59	N 36 13 31.27 W	107 31 21.61
	7524.00	90.22	283.00	5499.41	1359.72	873.53	-1147.34	2.48	1903716.39	124563.37	N 36 13 31.40 W	107 31 22.33
	7586.00	90.57	282.40	5498.98	1421.47	887.16	-1207.82	1.12	1903730.81	124503.07	N 36 13 31.54 W	107 31 23.07
	7646.00	90.66	282.26	5498.34	1481.19	899.97	-1266.43	0.28	1903744.39	124444.63	N 36 13 31.66 W	107 31 23.78
	7707.00	90.57	282.52	5497.68	1541.91	913.06	-1326.01	0.45	1903758.25	124385.23	N 36 13 31.79 W	107 31 24.51
	7769.00	92.33	283.21	5496.11	1603.65	926.86	-1386.43	3.05	1903772.84	124324.99	N 36 13 31.93 W	107 31 25.25
	7830.00	90.48	282.42	5494.62	1664.40	940.38	-1445.89	3.30	1903787.15	124265.71	N 36 13 32.06 W	107 31 25.97
	7891.00	90.75	281.52	5493.96	1725.08	953.03	-1505.56	1.54	1903800.58	124206.20	N 36 13 32.19 W	107 31 26.70
	7952.00	90.92	281.34	5493.07	1785.69	965.12	-1565.34	0.41	1903813.45	124146.58	N 36 13 32.31 W	107 31 27.43
	8014.00	91.10	282.26	5491.98	1847.34	977.80	-1626.02	1.51	1903826.92	124086.07	N 36 13 32.43 W	107 31 28.17
	8075.00	91.63	282.66	5490.53	1908.05	990.96	-1685.57	1.09	1903840.86	124026.70	N 36 13 32.56 W	107 31 28.90
	8135.00	90.75	282.11	5489.28	1967.77	1003.82	-1744.16	1.73	1903854.49	123968.28	N 36 13 32.69 W	107 31 29.61
	8199.00	89.87	282.09	5488.94	2031.44	1017.24	-1806.74	1.38	1903868.72	123905.88	N 36 13 32.82 W	107 31 30.38
	8262.00	90.92	282.45	5488.50	2094.14	1030.62	-1868.30	1.76	1903882.92	123844.49	N 36 13 32.96 W	107 31 31.13
	8325.00	90.75	281.37	5487.58	2156.80	1043.62	-1929.93	1.74	1903896.72	123783.03	N 36 13 33.08 W	107 31 31.88
	8389.00	91.01	281.79	5486.60	2220.41	1056.47	-1992.62	0.77	1903910.39	123720.51	N 36 13 33.21 W	107 31 32.65
	8452.00	91.19	282.01	5485.39	2283.06	1069.46	-2054.26	0.45	1903924.18	123659.05	N 36 13 33.34 W	107 31 33.40
	8516.00	90.66	281.28	5484.36	2346.68	1082.37	-2116.93	1.41	1903937.92	123596.54	N 36 13 33.47 W	107 31 34.16
	8579.00	89.87	280.36	5484.07	2409.21	1094.20	-2178.81	1.92	1903950.55	123534.82	N 36 13 33.58 W	107 31 34.92
	8642.00	90.04	279.96	5484.12	2471.64	1105.31	-2240.82	0.69	1903962.48	123472.96	N 36 13 33.69 W	107 31 35.68
	8706.00	90.92	279.50	5483.58	2535.00	1116.13	-2303.90	1.55	1903974.12	123410.02	N 36 13 33.80 W	107 31 36.45
	8769.00	90.92	279.50	5482.57	2597.33	1126.53	-2366.02	0.00	1903985.33	123348.03	N 36 13 33.90 W	107 31 37.20
	8832.00	91.63	279.57	5481.17	2659.65	1136.96	-2428.14	1.13	1903996.58	123286.06	N 36 13 34.01 W	107 31 37.96
	8895.00	91.01	279.71	5479.71	2721.99	1147.51	-2490.23	1.01	1904007.94	123224.11	N 36 13 34.11 W	107 31 38.72
	8959.00	90.92	280.49	5478.64	2785.40	1158.73	-2553.23	1.23	1904019.98	123161.26	N 36 13 34.22 W	107 31 39.49
	9022.00	90.84	280.63	5477.67	2847.89	1170.27	-2615.16	0.26	1904032.34	123099.48	N 36 13 34.34 W	107 31 40.24
	9085.00	91.45	281.21	5476.41	2910.42	1182.20	-2677.00	1.34	1904045.08	123037.79	N 36 13 34.45 W	107 31 41.00
	9148.00	91.28	281.62	5474.91	2973.01	1194.67	-2738.74	0.70	1904058.35	122976.22	N 36 13 34.58 W	107 31

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 ° ' ")
	11299.00	90.31	280.51	5441.38	5106.53	1581.50	-4852.28	2.34	1904482.84	120867.93	N 36 13 38.50 W 107 32 7.55	
	11362.00	92.15	281.40	5440.03	5169.06	1603.47	-4914.11	3.24	1904495.61	120806.26	N 36 13 38.62 W 107 32 8.30	
	11425.00	93.56	280.70	5436.89	5231.54	1615.53	-4975.87	2.50	1904508.48	120744.66	N 36 13 38.74 W 107 32 9.06	
	11498.00	95.58	280.84	5431.87	5293.86	1627.26	-5037.56	3.21	1904521.02	120693.13	N 36 13 38.85 W 107 32 9.81	
Last MWD Survey	11552.00	97.34	280.65	5424.67	5356.96	1639.12	-5100.03	2.77	1904533.70	120620.81	N 36 13 38.97 W 107 32 10.57	
Projection to Bit	11625.00	97.34	280.65	5415.34	5428.80	1652.50	-5171.19	0.00	1904548.01	120549.83	N 36 13 39.10 W 107 32 11.44	

Survey Type: Def Survey

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

Description	Part	MD From (ft)	MD To (ft)	EOU Freq (ft)	Hole Size	Casing Diameter (in)	Survey Tool Type	Borehole / Survey
	1	0.000	14.000	1/98.425	30.000	30.000	SLB_NSG+MSHOT-Depth Only	Original Hole / Chaco 2307-131 #187H MWD+GYRO 0' to 11625' Definitive
	1	14.000	14.000	Act Stns	30.000	30.000	SLB_NSG+MSHOT-Depth Only	Original Hole / Chaco 2307-131 #187H MWD+GYRO 0' to 11625' Definitive
	1	14.000	364.000	Act Stns	30.000	30.000	SLB_NSG+MSHOT	Original Hole / Chaco 2307-131 #187H MWD+GYRO 0' to 11625'
	1	364.000	11552.000	Act Stns	30.000	30.000	SLB_MWD-STD	Original Hole / Chaco 2307-131 #187H MWD+GYRO 0' to 11625'
	1	11552.000	11625.000	Act Stns	30.000	30.000	SLB_BLIND+TREND	Original Hole / Chaco 2307-131 #187H MWD+GYRO 0' to 11625'

Borehole:	Well:	Field:	Structure:
Original Hole	Chaco 2307-131 #187H	NM, Rio Arriba (NAD 27 CZ)	WPX 13-23N-7W (Chaco 2307-131 Pad)

Gravity & Magnetic Parameters	Surface Location	Miscellaneous
Model: BGGM 2014 Dip: 63.003° Date: 21-Jul-2014	NAD27 New Mexico State Plane, Central Zone, US Feet	Slot: Chaco 2307-131 #187H TVD Ref: RKB(6939ft above MSL)
MagDec: 9.433° FS: 50079.185nT Gravity FS: 998.497mgn (9.80665 Based)	Lat: N 36 13 22.76 Northing: S 1902827.86ft Grid Conv: -0.75°	Plan: Chaco 2307-131 #187H MWD+GYRO 0' to 11625' Definitive
	Lon: W 107 31 8.33 Easting: 125699.25ft Scale Fact: 1.00006032	

PvA

