

District I
1625 N French Dr., Hobbs, NM 88240
District II
1301 W Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S St Francis Dr, Santa Fe, NM 87505

State of New Mexico
Energy, Minerals & Natural Resources

Form C-102
Revised October 12, 2005

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-039-30337		² Pool Code 71629		³ Pool Name Basin Fruitland Coal	
⁴ Property Code 21996		⁵ Property Name San Juan 32-5 Unit			⁶ Well Number 116S
⁷ OGRID No. 162928		⁸ Operator Name Energen Resources Corporation			⁹ Elevation 6412'

¹⁰ Surface Location

UL or lot no H	Section 27	Township 32N	Range 06W	Lot Idn	Feet from the 2180	North/South line North	Feet from the 190	East/West line East	County Rio Arriba
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¹¹ Bottom Hole Location If Different From Surface

UL or lot no E	Section 27	Township 32N	Range 06W	Lot Idn	Feet from the 1694	North/South line North	Feet from the 676'	East/West line West	County Rio Arriba
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¹² Dedicated Acres 320 W/2	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No
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RCVD OCT 3 '08
OIL CONS. DIV.

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 Signature: <u>Vicki Donaghey</u> Date: <u>10/01/08</u> Printed Name: <u>Vicki Donaghey</u>	
					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 of Survey: <u>05/02/07</u> Signature and Seal of Professional Surveyer: <u>Original survey conducted and recorded by: David Russett</u> Certificate Number: <u>10201</u>	

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San Juan 32-5 Unit #116S MWD 0' to 6412' Final Survey Report

Report Date: July 21, 2008 Client: Energen Resources Field: NM, Rio Arriba (NAD83) Structure / Slot: Energen 27-32N-06W (San Juan 32-5 Unit #116S) Well: San Juan 32-5 Unit #116S Borehole: Original Hole UWI/API#: Survey Name / Date: San Juan 32-5 Unit #116S MWD 0' to 6412' Final Survey / July 14, 2008 Tort / AHD / DDI / ERD ratio: 141 549' / 4450 65 ft / 6 119' / 1 450 Grid Coordinate System: NAD83 New Mexico State Planes, Central Zone, US Feet Location Lat/Long: N 36 57 9 648, W 107 26 13 668 Location Grid N/E Y/X: N 2168229 486 NUS, E 1293549 200 ftUS Grid Convergence Angle: -0.71371547° Grid Scale Factor: 1.00003766	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 276 200° Vertical Section Origin: N 0 000 ft, E 0 000 ft TVD Reference Datum: RKB TVD Reference Elevation: 6424 0 ft relative to MSL Sea Bed / Ground Level Elevation: 6412 000 ft relative to MSL Magnetic Declination: 10 199° Total Field Strength: 51187 571 nT Magnetic Dip: 63 792° Declination Date: July 14, 2008 Magnetic Declination Model: BGGM 2007 North Reference: True North Total Corr Mag North -> True North: +10 199° Local Coordinates Referenced To: Well Head
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RCVD OCT 3 '08
OIL CONS. DIV.
DIST. 3

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
Surface	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2168229.49	1293549.20	N 36 57 9 648	W 107 26 13 668
9 5/8" Csg	217.00	0.54	129.84	217.00	-0.86	-0.66	0.79	0.25	2168228.82	1293549.98	N 36 57 9 641	W 107 26 13 658
Begin SLB MWD Survey	271.00	0.68	129.84	270.99	-1.34	-1.03	1.23	0.25	2168228.44	1293550.42	N 36 57 9 638	W 107 26 13 653
	332.00	0.83	148.41	331.99	-1.91	-1.64	1.74	0.47	2168227.83	1293550.92	N 36 57 9 632	W 107 26 13 647
	393.00	0.62	163.16	392.98	-2.31	-2.33	2.07	0.46	2168227.13	1293551.24	N 36 57 9 625	W 107 26 13 642
	456.00	0.89	163.08	455.98	-2.64	-3.13	2.31	0.43	2168226.33	1293551.47	N 36 57 9 617	W 107 26 13 640
	518.00	0.74	207.27	517.97	-2.68	-3.94	2.27	1.01	2168225.52	1293551.42	N 36 57 9 609	W 107 26 13 640
	578.00	1.72	274.79	577.96	-1.64	-4.21	1.19	2.65	2168225.26	1293550.34	N 36 57 9 606	W 107 26 13 653
	640.00	3.14	278.36	639.90	0.99	-3.89	-1.41	2.30	2168225.62	1293547.74	N 36 57 9 610	W 107 26 13 685
	701.00	4.25	277.68	700.78	4.91	-3.34	-5.31	1.82	2168226.21	1293543.85	N 36 57 9 615	W 107 26 13 733
	762.00	5.84	284.52	761.54	10.25	-2.26	-10.55	2.78	2168227.36	1293538.62	N 36 57 9 626	W 107 26 13 798
	824.00	7.29	285.16	823.13	17.25	-0.44	-17.40	2.34	2168229.26	1293531.79	N 36 57 9 644	W 107 26 13 882
	883.00	9.11	285.81	881.52	25.56	1.81	-25.51	3.09	2168231.61	1293523.71	N 36 57 9 666	W 107 26 13 982
	945.00	10.28	281.88	942.64	35.90	4.29	-35.65	2.17	2168234.22	1293513.61	N 36 57 9 784	W 107 26 14 107
	1007.00	11.61	279.19	1003.51	47.64	6.42	-47.22	2.30	2168236.50	1293502.06	N 36 57 9 711	W 107 26 14 250
	1068.00	12.86	277.32	1063.12	60.55	8.27	-60.01	2.15	2168238.50	1293489.29	N 36 57 9 730	W 107 26 14 407
	1128.00	14.51	277.22	1121.42	74.75	10.06	-74.09	2.75	2168240.47	1293475.24	N 36 57 9 747	W 107 26 14 581
	1190.00	16.13	275.74	1181.21	91.12	11.90	-90.37	2.69	2168242.51	1293458.98	N 36 57 9 766	W 107 26 14 781
	1251.00	17.40	276.03	1239.62	108.72	13.71	-107.87	2.09	2168244.54	1293441.51	N 36 57 9 784	W 107 26 14 997
	1311.00	18.71	275.48	1296.66	127.31	15.57	-126.37	2.20	2168246.63	1293423.03	N 36 57 9 802	W 107 26 15 225
	1373.00	20.10	273.62	1355.14	147.90	17.19	-146.90	2.45	2168248.51	1293402.52	N 36 57 9 818	W 107 26 15 478
	1435.00	21.59	274.46	1413.08	169.95	18.75	-168.91	2.45	2168250.34	1293380.53	N 36 57 9 833	W 107 26 15 749
	1497.00	22.76	274.68	1470.49	193.34	20.62	-192.24	1.89	2168252.50	1293357.23	N 36 57 9 852	W 107 26 16 036
	1558.00	24.34	276.17	1526.41	217.71	22.93	-216.50	2.77	2168255.11	1293333.00	N 36 57 9 875	W 107 26 16 335
	1620.00	25.63	276.40	1582.61	243.89	25.80	-242.53	2.09	2168258.30	1293307.01	N 36 57 9 903	W 107 26 16 656
	1682.00	26.98	275.83	1638.19	271.37	28.72	-269.84	2.22	2168261.57	1293279.73	N 36 57 9 932	W 107 26 16 992
	1745.00	28.50	274.38	1693.95	300.68	31.32	-299.05	2.64	2168264.53	1293250.55	N 36 57 9 958	W 107 26 17 352
	1806.00	29.71	275.25	1747.24	330.34	33.82	-328.61	2.10	2168267.39	1293221.02	N 36 57 9 982	W 107 26 17 716
	1868.00	30.78	277.12	1800.80	361.57	37.19	-359.66	2.30	2168271.15	1293190.02	N 36 57 10 016	W 107 26 18 099
	1930.00	31.61	278.99	1853.84	393.66	41.69	-391.45	2.06	2168276.05	1293158.29	N 36 57 10 060	W 107 26 18 491
	1992.00	32.91	279.48	1906.27	426.71	47.01	-424.11	2.14	2168281.77	1293125.69	N 36 57 10 113	W 107 26 18 893
	2055.00	34.04	279.77	1958.82	461.39	52.82	-458.37	1.81	2168288.01	1293091.51	N 36 57 10 170	W 107 26 19 315
	2118.00	35.29	278.72	2010.63	497.17	58.57	-493.74	2.20	2168294.20	1293056.21	N 36 57 10 227	W 107 26 19 751
	2180.00	36.46	279.44	2060.87	533.46	64.31	-529.61	2.01	2168300.39	1293020.41	N 36 57 10 284	W 107 26 20 193
	2241.00	37.58	278.60	2109.57	570.14	70.06	-565.89	2.01	2168306.59	1292984.21	N 36 57 10 341	W 107 26 20 640
	2300.00	38.95	276.85	2155.90	606.66	74.96	-602.09	2.96	2168311.95	1292948.07	N 36 57 10 389	W 107 26 21 086
	2361.00	40.57	276.43	2202.79	645.68	79.47	-640.84	2.69	2168316.94	1292909.38	N 36 57 10 434	W 107 26 21 563
	2423.00	42.21	276.26	2249.30	686.67	84.00	-681.58	2.65	2168321.97	1292868.69	N 36 57 10 478	W 107 26 22 065
	2485.00	44.18	276.60	2294.50	729.10	88.76	-723.75	3.20	2168327.25	1292826.59	N 36 57 10 525	W 107 26 22 584
	2547.00	45.66	275.17	2338.40	772.88	93.24	-767.30	2.89	2168332.28	1292783.10	N 36 57 10 570	W 107 26 23 121
	2609.00	47.22	274.93	2381.13	817.80	97.19	-812.05	2.53	2168336.79	1292738.40	N 36 57 10 609	W 107 26 23 672
	2671.00	49.07	274.39	2422.49	863.96	100.94	-858.07	3.05	2168341.11	1292692.42	N 36 57 10 646	W 107 26 24 239
	2731.00	50.12	274.32	2461.38	909.62	104.41	-903.63	1.75	2168345.15	1292646.91	N 36 57 10 680	W 107 26 24 801
	2791.00	51.45	275.68	2499.32	956.09	108.46	-949.94	2.83	2168349.78	1292600.65	N 36 57 10 720	W 107 26 25 371
	2853.00	52.24	275.16	2537.62	1004.84	113.07	-998.47	1.43	2168354.99	1292552.18	N 36 57 10 766	W 107 26 25 969
	2915.00	53.15	274.43	2575.20	1054.14	117.19	-1047.61	1.74	2168359.72	1292503.09	N 36 57 10 807	W 107 26 26 574
	2978.00	53.70	274.25	2612.74	1104.71	121.02	-1098.06	0.90	2168364.18	1292452.69	N 36 57 10 844	W 107 26 27 196
	3040.00	55.77	273.59	2648.53	1155.29	124.47	-1148.56	3.45	2168368.26	1292402.23	N 36 57 10 878	W 107 26 27 818
	3102.00	56.55	273.78	2683.06	1206.74	127.78	-1199.95	1.28	2168372.21	1292350.89	N 36 57 10 911	W 107 26 28 451
	3160.00	57.72	274.81	2714.53	1255.42	131.43	-1248.53	2.51	2168376.47	1292302.36	N 36 57 10 947	W 107 26 29 050
	3223.00	61.06	275.57	2746.61	1309.63	136.35	-1302.52	5.40	2168382.05	1292248.43	N 36 57 10 996	W 107 26 29 715
	3285.00	62.26	275.24	2776.04	1364.19	141.48	-1356.85	1.99	2168387.87	1292194.17	N 36 57 11 047	W 107 26 30 384
	3347.00	62.87	275.44	2804.60	1419.21	146.61	-1411.64	1.02	2168393.67	1292139.45	N 36 57 11 097	W 107 26 31 059
	3408.00	63.00	276.50	2832.36	1473.53	152.26	-1465.66	1.56	2168399.99	1292085.50	N 36 57 11 153	W 107 26 31 725
	3471.00	64.64	276.95	2860.15	1530.06	158.88	-1521.81	2.68	2168407.31	1292029.44	N 36 57 11 218	W 107 26 32 416

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
	3532.00	66.18	276.28	2885.54	1585.53	165.27	-1576.90	2.71	2168414.39	1291974.42	N 36 57 11 282	W 107 26 33 095
	3593.00	67.27	276.71	2909.64	1641.56	171.60	-1632.58	1.90	2168421.42	1291918.83	N 36 57 11.344	W 107 26 33 781
	3653.00	69.08	277.92	2931.95	1697.25	178.70	-1687.82	3.55	2168429.20	1291863.68	N 36 57 11.414	W 107 26 34 462
	3713.00	72.50	278.19	2951.68	1753.87	186.64	-1743.91	5.72	2168437.84	1291807.69	N 36 57 11 493	W 107 26 35 153
	3775.00	74.52	276.89	2969.28	1813.30	194.44	-1802.84	3.83	2168446.37	1291748.86	N 36 57 11 570	W 107 26 35 879
	3837.00	76.36	275.92	2984.87	1873.30	201.13	-1862.47	3.33	2168453.81	1291689.31	N 36 57 11 636	W 107 26 36 613
	3899.00	77.76	276.01	2998.75	1933.73	207.41	-1922.57	2.26	2168460.83	1291629.29	N 36 57 11.698	W 107 26 37 354
	3929.00	77.48	275.59	3005.18	1963.03	210.37	-1951.72	1.66	2168464.16	1291600.18	N 36 57 11.727	W 107 26 37.713
	3961.00	77.34	275.01	3012.16	1994.25	213.25	-1982.82	1.82	2168467.43	1291569.12	N 36 57 11 756	W 107 26 38 096
	3991.00	78.81	275.17	3018.36	2023.60	215.86	-2012.06	4.93	2168470.40	1291539.92	N 36 57 11 782	W 107 26 38 456
	4023.00	80.32	275.52	3024.15	2055.07	218.79	-2043.39	4.84	2168473.72	1291508.62	N 36 57 11 811	W 107 26 38 842
	4054.00	82.72	276.89	3028.73	2085.72	222.10	-2073.87	8.89	2168477.41	1291478.19	N 36 57 11 843	W 107 26 39 218
	4085.00	84.86	277.52	3032.08	2116.54	225.97	-2104.44	7.19	2168481.66	1291447.66	N 36 57 11 881	W 107 26 39 594
	4116.00	84.83	277.31	3034.86	2147.40	229.95	-2135.06	0.68	2168486.03	1291417.10	N 36 57 11 921	W 107 26 39 972
	4147.00	84.79	276.96	3037.67	2178.27	233.79	-2165.69	1.13	2168490.24	1291386.51	N 36 57 11.959	W 107 26 40 349
	4179.00	84.90	276.59	3040.54	2210.14	237.55	-2197.34	1.20	2168494.40	1291354.91	N 36 57 11.996	W 107 26 40.739
	4210.00	85.07	276.17	3043.25	2241.02	240.98	-2228.03	1.46	2168498.21	1291324.27	N 36 57 12 030	W 107 26 41 117
	4241.00	85.24	275.77	3045.87	2271.91	244.19	-2258.75	1.40	2168501.81	1291293.59	N 36 57 12.062	W 107 26 41 495
	4272.00	85.69	275.62	3048.32	2302.81	247.26	-2289.50	1.53	2168505.25	1291262.88	N 36 57 12 092	W 107 26 41 874
	4302.00	85.89	274.45	3050.53	2332.72	249.88	-2319.30	3.95	2168508.25	1291233.11	N 36 57 12 118	W 107 26 42 241
	4333.00	84.62	274.58	3053.09	2363.60	252.32	-2350.10	4.12	2168511.07	1291202.34	N 36 57 12.142	W 107 26 42 621
	4364.00	84.13	274.47	3056.13	2394.44	254.75	-2380.85	1.62	2168513.88	1291171.62	N 36 57 12 166	W 107 26 43 000
	4395.00	83.85	274.78	3059.37	2425.26	257.24	-2411.58	1.34	2168516.75	1291140.92	N 36 57 12 190	W 107 26 43 378
	4426.00	85.16	275.04	3062.34	2456.11	259.88	-2442.33	4.31	2168519.78	1291110.21	N 36 57 12 216	W 107 26 43.757
	4457.00	87.85	275.66	3064.23	2487.04	262.76	-2473.13	8.90	2168523.05	1291079.44	N 36 57 12 245	W 107 26 44 137
	4469.00	88.26	275.78	3064.64	2499.04	263.96	-2485.07	3.56	2168524.39	1291067.53	N 36 57 12 257	W 107 26 44.284
7" Csg 4519	4518.00	88.22	276.15	3066.14	2548.01	269.05	-2533.78	0.77	2168530.09	1291018.88	N 36 57 12 307	W 107 26 44 884
	4562.00	88.18	276.49	3067.53	2591.99	273.89	-2577.49	0.77	2168535.47	1290975.23	N 36 57 12 355	W 107 26 45 422
	4593.00	88.86	276.19	3068.33	2622.98	277.31	-2608.29	2.40	2168539.28	1290944.48	N 36 57 12 389	W 107 26 45 802
	4624.00	90.24	276.55	3068.57	2653.98	280.75	-2639.09	4.60	2168543.10	1290913.71	N 36 57 12 423	W 107 26 46 181
	4653.00	90.93	276.49	3068.28	2682.98	284.05	-2667.90	2.39	2168546.75	1290884.95	N 36 57 12 455	W 107 26 46 536
	4682.00	91.14	276.30	3067.75	2711.97	287.28	-2696.72	0.98	2168550.34	1290856.17	N 36 57 12 487	W 107 26 46 891
	4712.00	90.96	276.07	3067.20	2741.97	290.51	-2726.54	0.97	2168553.95	1290826.39	N 36 57 12 519	W 107 26 47 259
	4742.00	90.96	276.32	3066.70	2771.96	293.74	-2756.36	0.83	2168557.55	1290796.61	N 36 57 12 551	W 107 26 47 626
	4772.00	90.48	275.46	3066.32	2801.96	296.82	-2786.20	3.28	2168561.00	1290766.81	N 36 57 12.581	W 107 26 47 994
	4803.00	90.07	275.59	3066.17	2832.96	299.81	-2817.06	1.39	2168564.37	1290736.00	N 36 57 12 611	W 107 26 48 374
	4833.00	90.52	275.16	3066.02	2862.95	302.62	-2846.92	2.07	2168567.55	1290706.17	N 36 57 12 639	W 107 26 48 742
	4863.00	90.41	274.71	3065.78	2892.95	305.20	-2876.81	1.54	2168570.51	1290676.31	N 36 57 12.664	W 107 26 49 110
	4893.00	90.41	275.19	3065.56	2922.94	307.79	-2906.70	1.60	2168573.47	1290646.46	N 36 57 12 690	W 107 26 49 478
	4924.00	90.34	274.57	3065.36	2953.93	310.42	-2937.58	2.01	2168576.49	1290615.61	N 36 57 12 716	W 107 26 49 859
	4953.00	90.69	275.02	3065.10	2982.92	312.85	-2966.48	1.97	2168579.27	1290586.74	N 36 57 12 740	W 107 26 50 215
	4984.00	90.34	274.56	3064.82	3013.91	315.44	-2997.37	1.86	2168582.25	1290555.88	N 36 57 12 765	W 107 26 50 595
	5013.00	90.07	274.25	3064.72	3042.89	317.66	-3026.29	1.42	2168584.83	1290527.00	N 36 57 12 787	W 107 26 50 951
	5044.00	90.03	273.81	3064.69	3073.87	319.84	-3057.21	1.43	2168587.40	1290496.10	N 36 57 12 809	W 107 26 51 332
	5075.00	90.00	273.62	3064.68	3104.84	321.85	-3088.14	0.62	2168589.79	1290465.19	N 36 57 12 829	W 107 26 51 714
	5136.00	91.03	274.38	3064.13	3165.79	326.11	-3148.99	2.10	2168594.80	1290404.40	N 36 57 12 871	W 107 26 52 463
	5166.00	90.72	273.75	3063.67	3195.77	328.23	-3178.91	2.34	2168597.30	1290374.51	N 36 57 12 892	W 107 26 52 832
	5196.00	90.89	274.22	3063.25	3225.74	330.32	-3208.84	1.67	2168599.76	1290344.61	N 36 57 12.912	W 107 26 53 200
	5227.00	90.55	273.64	3062.86	3256.72	332.44	-3239.76	2.17	2168602.27	1290313.72	N 36 57 12.933	W 107 26 53 581
	5256.00	90.65	273.36	3062.56	3285.68	334.21	-3268.71	1.03	2168604.40	1290284.79	N 36 57 12 951	W 107 26 53.938
	5287.00	90.41	272.50	3062.27	3316.63	335.80	-3299.66	2.88	2168606.37	1290253.86	N 36 57 12 966	W 107 26 54 319
	5348.00	91.41	273.32	3061.30	3377.52	338.89	-3360.58	2.12	2168610.23	1290192.99	N 36 57 12 997	W 107 26 55 070
	5379.00	91.24	274.43	3060.59	3408.49	340.99	-3391.50	3.62	2168612.71	1290162.09	N 36 57 13 017	W 107 26 55 451
	5410.00	90.58	276.15	3060.09	3439.48	343.84	-3422.36	5.94	2168615.95	1290131.27	N 36 57 13 046	W 107 26 55.831
	5440.00	90.10	276.76	3059.92	3469.48	347.22	-3452.17	2.59	2168619.69	1290101.50	N 36 57 13 079	W 107 26 56 198
	5470.00	89.90	276.70	3059.92	3499.47	350.73	-3481.96	0.70	2168623.58	1290071.75	N 36 57 13 114	W 107 26 56 565
	5500.00	89.41	277.55	3060.10	3529.47	354.45	-3511.73	3.27	2168627.67	1290042.03	N 36 57 13 150	W 107 26 56.932
	5532.00	90.07	278.52	3060.24	3561.45	358.93	-3543.41	3.67	2168632.54	1290010.41	N 36 57 13 195	W 107 26 57 322
	5564.00	90.17	279.45	3060.18	3593.41	363.92	-3575.02	2.92	2168637.93	1289978.86	N 36 57 13 244	W 107 26 57.712
	5595.00	90.41	279.34	3060.02	3624.37	368.98	-3605.60	0.85	2168643.37	1289948.34	N 36 57 13 294	W 107 26 58 089
	5627.00	90.28	278.69	3059.83	3656.33	374.00	-3637.21	2.07	2168648.78	1289916.80	N 36 57 13 344	W 107 26 58 478
	5659.00	90.14	277.80	3059.71	3688.31	378.59	-3668.88	2.82	2168653.76	1289885.19	N 36 57 13 389	W 107 26 58 868
	5691.00	89.83	277.54	3059.72	3720.29	382.86	-3700.59	1.26	2168658.43	1289853.53	N 36 57 13 431	W 107 26 59 259
	5722.00	89.87	277.21	3059.77	3751.29	386.84	-3731.33	1.16	2168662.79	1289822.84	N 36 57 13.470	W 107 26 59 638
	5754.00	90.34	277.98	3059.68	3783.28	391.07	-3763.05	2.67	2168667.41	1289791.18	N 36 57 13.512	W 107 27 0 028
	5785.00	89.83	278.15	3059.64	3814.26	395.42	-3793.75	1.73	2168672.14	1289760.54	N 36 57 13 555	W 107 27 0 407
	5817.00	90.28	278.45	3059.61	3846.24	400.04	-3825.41	1.69	2168677.16	1289728.93	N 36 57 13.601	W 107 27 0 797
	5848.00	90.65	279.70	3059.36	3877.20	404.92	-3856.02	4.21	2168682.43	1289698.38	N 36 57 13 649	W 107 27 1 174
	5880.00	90.58	279.08	3059.01	3909.15	410.15	-3887.59	1.95	2168688.04	1289666.88	N 36 57 13 701	W 107 27 1 563
	5911.00	90.58	279.93	3058.70	3940.09	415.26	-3918.16	2.74	2168693.54	1289636.37	N 36 57 13 751	W 107 27 1 939
	5943.00	90.72	279.96	3058.34	3972.02	420.79	-3949.68	0.45	2168699.46	1289604.93	N 36 57 13 806	W 107 27 2 328
	5975.00	90.45	279.16	3058.01	4003.97	426.10	-3981.23	2.84	2168705.17	1289573.44	N 36 57 13.858	W 107 27 2 716
	6007.00	90.79	278.77	3057.66	4035.93	431.09	-4012.84	1.62	2168710.55	1289541.90	N 36 57 13 908	W 107 27 3 106
	6039.00	90.62	278.66	3057.27	4067.89	435.94	-4044.47	0.63	2168			

Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	DLS (deg/100 ft)	Northing (ftUS)	Easting (ftUS)	Latitude	Longitude
	6102 00	90 17	278.60	3056.86	4130 85	445.17	-4106 79	1.34	2168725.79	1289448.13	N 36 57 14 047	W 107 27 4 263
	6134.00	90 00	278 13	3056 82	4162 82	449 82	-4138.45	1.56	2168730 84	1289416 53	N 36 57 14 093	W 107 27 4 653
	6166 00	89 97	278.18	3056 82	4194.80	454.36	-4170 12	0 18	2168735 78	1289384 91	N 36 57 14 137	W 107 27 5 044
	6198 00	89 86	278.10	3056 87	4226 79	458 89	-4201 80	0 43	2168740.70	1289353.29	N 36 57 14 182	W 107 27 5 434
	6230 00	90 07	278 27	3056 89	4258 77	463 45	-4233 48	0 84	2168745.65	1289321 68	N 36 57 14 227	W 107 27 5 824
	6262 00	90 34	278 34	3056 78	4290 74	468.07	-4265 14	0 87	2168750 67	1289290 07	N 36 57 14 273	W 107 27 6.214
	6293 00	90 21	278 19	3056 63	4321 72	472.53	-4295.82	0.64	2168755 51	1289259 45	N 36 57 14 317	W 107 27 6.592
	6325 00	89 97	276 72	3056 58	4353 72	476.68	-4327.55	4.65	2168760.05	1289227.77	N 36 57 14 358	W 107 27 6 983
Last SLB MWD Survey	6350.00	90.14	276 10	3056.55	4378 71	479.47	-4352.39	2.57	2168763.15	1289202 97	N 36 57 14 385	W 107 27 7 289
Projection to Bit	6412 00	90 14	276 10	3056 40	4440 71	486 08	-4414.04	0 00	2168770 51	1289141 40	N 36 57 14 450	W 107 27 8 049

Survey Type: Definitive Survey

Survey Error Model: SLB ISCWSA version 24 *** 3-D 95.00% Confidence 2.7955 sigma

Surveying Prog:

MD From (ft)

MD To (ft)

EOU Freq

Survey Tool Type

Borehole -> Survey

0 00

12 00

Act-Stns SLB_MWD+DMAG-Depth Only

Original Hole -> San Juan 32-5 Unit #116S MWD 0' to 6412' Final Survey

12 00

6350.00

Act-Stns SLB_MWD+DMAG

Original Hole -> San Juan 32-5 Unit #116S MWD 0' to 6412' Final Survey

6350.00

6412 00

Act-Stns SLB_BLIND+TREND

Original Hole -> San Juan 32-5 Unit #116S MWD 0' to 6412' Final Survey

**Italicized stations are NOT used in position calculations.*