

Schlumberger

Riddle C LS #5 MWD 0' to 3538' Survey Report

Report Date: May 20, 2006 Client: BP Field: NM San Juan County Structure / Slot: BP Riddle C LS 5 / Riddle C LS 5 Well: Riddle C LS 5 Borehole: Original Hole UWI/API#: 30-045-33336 Survey Name / Date: Riddle C LS #5 MWD 0' to 3538' / May 19, 2006 Tort / AHD / DDI / ERD ratio: 24.056° / 118.72 ft / 3.456 / 0.034 Grid Coordinate System: NAD83 New Mexico State Planes, Western Zone, US Feet Location Lat/Long: N 36 52 5.160, W 107 49 27.840 Location Grid N/E Y/X: N 2135312.852 ftUS, E 2725704.772 ftUS Grid Convergence Angle: +0.00535978° Grid Scale Factor: 0.99991667	Survey / DLS Computation Method: Minimum Curvature / Lubinski Vertical Section Azimuth: 0.000° Vertical Section Origin: N 0.000 ft, E 0.000 ft TVD Reference Datum: Rotary Table TVD Reference Elevation: 6652.0 ft relative to MSL Sea Bed / Ground Level Elevation: 6638.000 ft relative to MSL Magnetic Declination: 10.587° Total Field Strength: 51323.515 nT Magnetic Dip: 63.719° Declination Date: May 19, 2006 Magnetic Declination Model: BGGM 2005 North Reference: Grid North Total Corr Mag North -> Grid North: +10.582° Local Coordinates Referenced To: Well Head
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Comments	Measured Depth (ft)	Inclination (deg)	Azimuth (deg)	Sub-Sea TVD (ft)	TVD (ft)	Vertical Section (ft)	NS (ft)	EW (ft)	Closure (ft)	Closure Azimuth (deg)	DLS (deg/100 ft)	Tool Face (deg)
Tie-In	0.00	0.00	0.00	-6652.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	71.81M
	260.00	0.60	71.81	-6392.00	260.00	0.42	0.42	1.29	1.36	71.81	0.23	102.59M
	473.00	0.69	102.59	-6179.02	472.98	0.49	0.49	3.60	3.64	82.20	0.17	-122.75M
	858.00	1.66	237.25	-5794.07	857.93	-3.03	-3.03	1.18	3.25	158.77	0.57	-153.76M
	1205.00	3.41	206.24	-5447.40	1204.60	-15.01	-15.01	-7.61	16.83	206.90	0.62	-179.91M
	1504.00	3.54	180.09	-5148.94	1503.06	-32.21	-32.21	-11.56	34.23	199.74	0.53	-168.85M
	1867.00	1.25	191.15	-4786.27	1865.73	-47.31	-47.31	-12.34	48.89	194.62	0.64	-112.88M
	2256.00	3.98	247.12	-4397.67	2254.33	-56.72	-56.72	-25.61	62.23	204.30	0.88	-150.64M
	2550.00	1.90	209.36	-4104.05	2547.95	-64.94	-64.94	-37.40	74.94	209.94	0.93	-53.72M
	2859.00	1.98	306.28	-3795.16	2856.84	-66.24	-66.24	-44.21	79.64	213.72	0.94	-85.25M
	3139.00	2.22	274.75	-3515.34	3136.66	-62.93	-62.93	-53.52	82.61	220.38	0.42	149.62M
Last Survey	3538.00	2.94	149.62	-3116.54	3535.46	-71.12	-71.12	-56.05	90.55	218.24	1.15	0.00M

Survey Type: Definitive Survey

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

Surveying Prog:

MD From (ft)

0.00
14.00

MD To (ft)

14.00
3538.00

EQU Freq Survey Tool Type

Act-Stns SLB_MWD-STD-Depth Only
Act-Stns SLB_MWD-STD

Borehole -> Survey

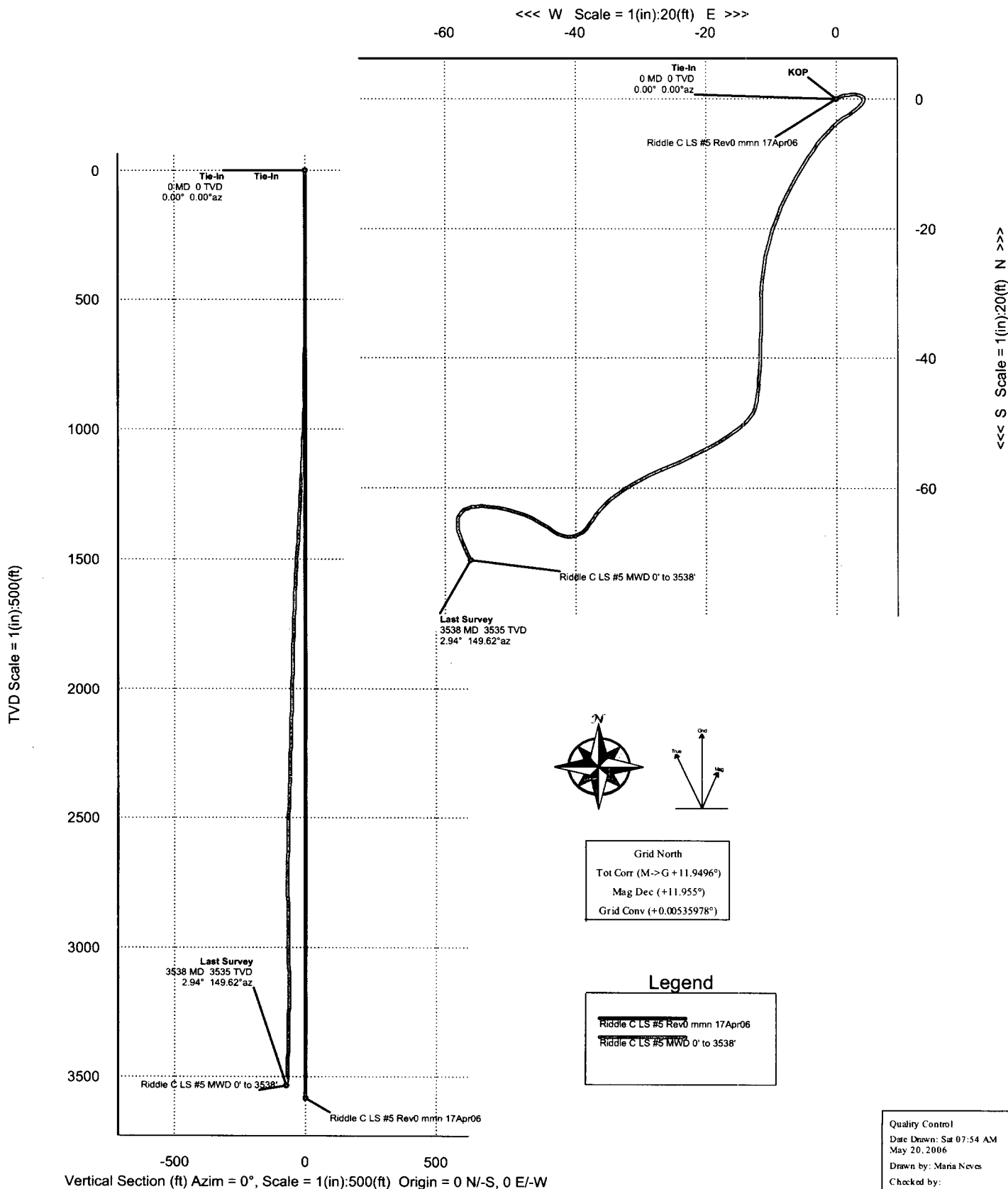
Original Hole -> Riddle C LS #5 MWD 0' to 3538'
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2110/s 925/w
BHL 2039/s 869/w

NSL granted in NSP 1894 (NSL)

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WELL Riddle C LS 5			FIELD NM San Juan County			STRUCTURE BP Riddle C LS 5		
Magnetic Parameters Model BCGM 2005 Dip 67.939° Mag Dec +11.955°			Surface Location Lat N36 52 5 160 Lon W107 49 27 840 Northing 2135312 85 RUS Easting 2725704 77 RUS NAD83 New Mexico State Planes, Western Zone, US Feet Grid Conv +0.00535978° Scale Fact 0.9999106745			Miscellaneous Spot Riddle C LS 5 Plan Riddle C LS #5 Rev0 mmm 17Apr06 TVD Ref Rotary Table (6652 00 ft above MSL) Date: April 23, 2006		



Quality Control
Date Drawn: Sat 07:54 AM
May 20, 2006
Drawn by: Maria Neves
Checked by:
Client OK: