

Survey Report

Company: CONOCO, INC. Field: SAN JUAN COUNTY, NEW MEXICO Site: MOORE LS #7B Well: 2003D-CN Wellpath: 1				Date: 7/5/2002 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:				Time: 14:25:48 Site: MOORE LS #7B, Grid North SITE 0.0 Well (0.00N,0.00E,305.68Azi) Minimum Curvature Db: Sybase				Page: 1	
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Survey: MWD 30-045-30582				Start Date: 7/5/2002			
Company: Tied-to: B-25-32N-12W				Engineer: User Defined:			

Well: 2003D-CN				Slot Name:			
Well Position: +N/-S 0.00 ft Northing: 2169475.63 ft Latitude: 36 57 42.260 N +E/-W 0.00 ft Easting : 2661541.65 ft Longitude: 108 2 38.500 W				SRF 685/N 2130/E BHL 710/N 2127/E			
Position Uncertainty: 0.00 ft							

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	VS ft	DLS deg/100ft	Build deg/100ft	Turn deg/100ft	ClsD ft	ClsA deg
4739.00	1.20	255.00	4739.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4835.00	3.10	177.60	4834.94	-2.85	-0.86	-0.96	3.20	1.98	-80.62	2.98	196.81
4897.00	4.50	156.50	4896.81	-6.76	0.18	-4.09	3.16	2.26	-34.03	6.76	178.49
4927.00	4.70	159.20	4926.71	-8.99	1.08	-6.12	0.98	0.67	9.00	9.05	173.13
4990.00	4.70	160.60	4989.50	-13.84	2.86	-10.39	0.18	0.00	2.22	14.13	168.33
5052.00	4.40	161.70	5051.30	-18.49	4.45	-14.40	0.50	-0.48	1.77	19.02	166.47
5083.00	4.40	162.20	5082.21	-20.75	5.18	-16.31	0.12	0.00	1.61	21.39	165.97
5143.00	2.60	150.80	5142.10	-24.13	6.55	-19.40	3.20	-3.00	-19.00	25.00	164.81
5206.00	1.00	88.90	5205.07	-25.37	7.80	-21.13	3.66	-2.54	-98.25	26.54	162.91
5246.00	1.00	88.90	5245.06	-25.35	8.50	-21.69	0.00	0.00	0.00	26.74	161.47

MD	TVD	Diameter	Hole Size	Name

MD ft	TVD ft	
5246.00	5245.06	PROJECTION TO TD MD:5246'

LEAM DRILLING SYSTEMS, INC.

UTM Report (Survey)

Company: CONOCO, INC. Field: SAN JUAN COUNTY, NEW MEXICO Site: MOORE LS #7B Well: 2003D-CN Wellpath: 1	Date: 7/5/2002 Time: 14:30:37 Page: 1 Co-ordinate(NE) Reference: Site: MOORE LS #7B, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,161.47Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: MWD	Start Date: 7/5/2002
Company:	Engineer:
Tool:	Tied-to: User Defined

Well: 2003D-CN	Slot Name:
Well Position: +N/-S 0.00 ft Northing: 2169475.63 ft Latitude: 36 57 42.260 N	
+E/-W 0.00 ft Easting : 2661541.65 ft Longitude: 108 2 38.500 W	
Position Uncertainty: 0.00 ft	

Survey

MD ft	Incl deg	Azim deg	TVD ft	N/S ft	E/W ft	MapN ft	MapE ft	Lat	Long				
4739.00	1.20	255.00	4739.00	0.00	0.00	2169475.63	2661541.65	36 57	42.260	N108	2	38.500	VV
4835.00	3.10	177.60	4834.94	-2.85	-0.86	2169472.78	2661540.79	36 57	42.232	N108	2	38.511	VV
4897.00	4.50	156.50	4896.81	-6.76	0.18	2169468.87	2661541.83	36 57	42.193	N108	2	38.498	VV
4927.00	4.70	159.20	4926.71	-8.99	1.08	2169466.64	2661542.73	36 57	42.171	N108	2	38.486	VV
4990.00	4.70	160.60	4989.50	-13.84	2.86	2169461.79	2661544.51	36 57	42.123	N108	2	38.464	VV
5052.00	4.40	161.70	5051.30	-18.49	4.45	2169457.14	2661546.10	36 57	42.077	N108	2	38.445	VV
5083.00	4.40	162.20	5082.21	-20.75	5.18	2169454.88	2661546.83	36 57	42.055	N108	2	38.436	VV
5143.00	2.60	150.80	5142.10	-24.13	6.55	2169451.50	2661548.20	36 57	42.022	N108	2	38.419	VV
5206.00	1.00	88.90	5205.07	-25.37	7.80	2169450.26	2661549.45	36 57	42.009	N108	2	38.403	VV
5246.00	1.00	88.90	5245.06	-25.35	8.50	2169450.28	2661550.15	36 57	42.009	N108	2	38.395	VV