

Pathfinder Energy

Survey Report - Geographic

Company: EOG Resources Field: JW #3 Site: Yellow B 7 FEE No. #2-H Well: Yellow B 7 FEE No.2-H Wellpath: Original Hole	Date: 4/21/2006 Co-ordinate(NE) Reference: Vertical (TVD) Reference: Section (VS) Reference: Survey Calculation Method:	Time: 08:46:21 Site: Yellow B 7 FEE No. #2-H, Grid Nort System: Mean Sea Level Well (0.00N,0.00E,270.00Azi) Minimum Curvature	Page: 2 Db: Sybase
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Survey: Pathfinder MWD Survey

MD ft	Incl deg	Azim deg	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
4748.00	61.03	271.75	4646.51	32.22	-268.44	703009.52	443100.06	32	55	57.040 N	104	31	7.629 W
4779.00	64.81	270.78	4660.62	32.82	-296.03	703010.12	443072.47	32	55	57.045 N	104	31	7.953 W
4811.00	69.03	268.94	4673.17	32.74	-325.46	703010.04	443043.04	32	55	57.044 N	104	31	8.298 W
4847.54	73.17	268.15	4685.00	31.86	-360.02	703009.16	443008.48	32	55	57.035 N	104	31	8.704 W
4856.00	74.13	267.97	4687.38	31.59	-368.13	703008.89	443000.37	32	55	57.032 N	104	31	8.799 W
4887.00	75.80	268.58	4695.42	30.69	-398.05	703007.99	442970.45	32	55	57.022 N	104	31	9.150 W
4919.00	78.17	268.50	4702.63	29.89	-429.22	703007.19	442939.28	32	55	57.014 N	104	31	9.516 W
4950.00	81.87	270.17	4708.00	29.54	-459.74	703006.84	442908.76	32	55	57.010 N	104	31	9.874 W
4981.00	85.47	271.05	4711.42	29.87	-490.54	703007.17	442877.96	32	55	57.013 N	104	31	10.235 W
5013.00	88.46	270.87	4713.11	30.40	-522.49	703007.70	442846.01	32	55	57.017 N	104	31	10.610 W
5031.00	88.82	270.52	4713.54	30.62	-540.49	703007.92	442828.01	32	55	57.019 N	104	31	10.821 W
5044.00	89.08	270.26	4713.78	30.71	-553.48	703008.01	442815.02	32	55	57.020 N	104	31	10.974 W
5107.00	90.66	271.40	4713.92	31.62	-616.47	703008.92	442752.03	32	55	57.028 N	104	31	11.713 W
5170.00	91.45	271.57	4712.76	33.25	-679.44	703010.55	442689.06	32	55	57.043 N	104	31	12.452 W
5233.00	91.36	271.13	4711.22	34.74	-742.40	703012.04	442626.10	32	55	57.057 N	104	31	13.190 W
5296.00	88.81	270.52	4711.12	35.64	-805.39	703012.94	442563.11	32	55	57.064 N	104	31	13.930 W
5359.00	90.04	271.66	4711.75	36.84	-868.37	703014.14	442500.13	32	55	57.075 N	104	31	14.669 W
5453.00	90.40	272.01	4711.39	39.85	-962.33	703017.15	442406.17	32	55	57.103 N	104	31	15.771 W
5549.00	91.01	272.19	4710.21	43.37	-1058.25	703020.67	442310.25	32	55	57.136 N	104	31	16.897 W
5642.00	90.13	272.01	4709.29	46.78	-1151.19	703024.08	442217.31	32	55	57.168 N	104	31	17.987 W
5738.00	89.16	271.92	4709.88	50.07	-1247.13	703027.37	442121.37	32	55	57.199 N	104	31	19.113 W
5834.00	89.60	273.15	4710.92	54.32	-1343.02	703031.62	442025.48	32	55	57.240 N	104	31	20.238 W
5928.00	91.19	273.42	4710.27	59.70	-1436.86	703037.00	441931.64	32	55	57.291 N	104	31	21.339 W
6023.00	93.30	274.65	4706.55	66.38	-1531.55	703043.68	441836.95	32	55	57.356 N	104	31	22.450 W
6118.00	90.84	274.74	4703.12	74.15	-1626.16	703051.45	441742.34	32	55	57.431 N	104	31	23.561 W
6212.00	88.99	274.39	4703.26	81.63	-1719.86	703058.93	441648.64	32	55	57.503 N	104	31	24.660 W
6307.00	88.81	274.65	4705.08	89.12	-1814.55	703066.42	441553.95	32	55	57.576 N	104	31	25.771 W
6401.00	89.69	275.88	4706.31	97.74	-1908.14	703075.04	441460.36	32	55	57.659 N	104	31	26.870 W
6494.00	88.81	275.70	4707.53	107.12	-2000.66	703084.42	441367.84	32	55	57.750 N	104	31	27.955 W
6589.00	90.48	276.49	4708.12	117.21	-2095.11	703094.51	441273.39	32	55	57.849 N	104	31	29.064 W
6683.00	90.66	276.14	4707.18	127.55	-2188.54	703104.85	441179.96	32	55	57.949 N	104	31	30.160 W
6776.00	90.84	275.62	4705.97	137.07	-2281.04	703114.37	441087.46	32	55	58.042 N	104	31	31.246 W
6871.00	89.25	274.47	4705.89	145.43	-2375.67	703122.73	440992.83	32	55	58.123 N	104	31	32.356 W
6966.00	89.34	275.18	4707.06	153.42	-2470.32	703130.72	440898.18	32	55	58.200 N	104	31	33.467 W
7061.00	88.99	275.62	4708.45	162.36	-2564.89	703139.66	440803.61	32	55	58.287 N	104	31	34.577 W
7156.00	90.75	276.85	4708.66	172.67	-2659.32	703149.97	440709.18	32	55	58.387 N	104	31	35.685 W
7250.00	90.75	275.62	4707.43	182.88	-2752.76	703160.18	440615.74	32	55	58.487 N	104	31	36.782 W
7346.00	89.08	275.35	4707.57	192.06	-2848.31	703169.36	440520.19	32	55	58.576 N	104	31	37.903 W
7502.00	88.64	275.62	4710.68	206.97	-3003.57	703184.27	440364.93	32	55	58.720 N	104	31	39.725 W
7597.00	90.66	276.58	4711.26	217.06	-3098.02	703194.36	440270.48	32	55	58.818 N	104	31	40.834 W
7725.00	90.66	276.67	4709.78	231.83	-3225.16	703209.13	440143.34	32	55	58.962 N	104	31	42.326 W
7851.00	87.14	273.42	4712.20	242.90	-3350.61	703220.20	440017.89	32	55	59.070 N	104	31	43.798 W
7946.00	88.64	272.28	4715.70	247.62	-3445.43	703224.92	439923.07	32	55	59.115 N	104	31	44.911 W
8036.00	88.64	272.28	4717.84	251.20	-3535.33	703228.50	439833.17	32	55	59.148 N	104	31	45.966 W

Targets

Name	Description Dip.	Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	← Latitude → Deg Min Sec			← Longitude → Deg Min Sec		
PBHL Yellow B7			4685.00	-0.10	-3962.30	702977.20	439406.20	32	55	56.654 N	104	31	50.970 W

Pathfinder Energy

Survey Report - Geographic

Company: EOG Resources	Date: 4/21/2006	Time: 08:46:21	Page: 3
Field: JW #3	Co-ordinate(NE) Reference:	Site: Yellow B 7 FEE No. #2-H, Grid Nort	
Site: Yellow B 7 FEE No. #2-H	Vertical (TVD) Reference:	System: Mean Sea Level	
Well: Yellow B 7 FEE No.2-H	Section (VS) Reference:	Well (0.00N,0.00E,270.00Azi)	
Wellpath: Original Hole	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Annotation

MD ft	TVD ft	
4175.00	4174.53	KOP @ 4175' MD 4175' TVD
4175.47	4175.00	Start of 11° / 100' Build Rates
5031.00	4713.54	End of Build @ 90.5° Inc 5031' MD 4715' TVD

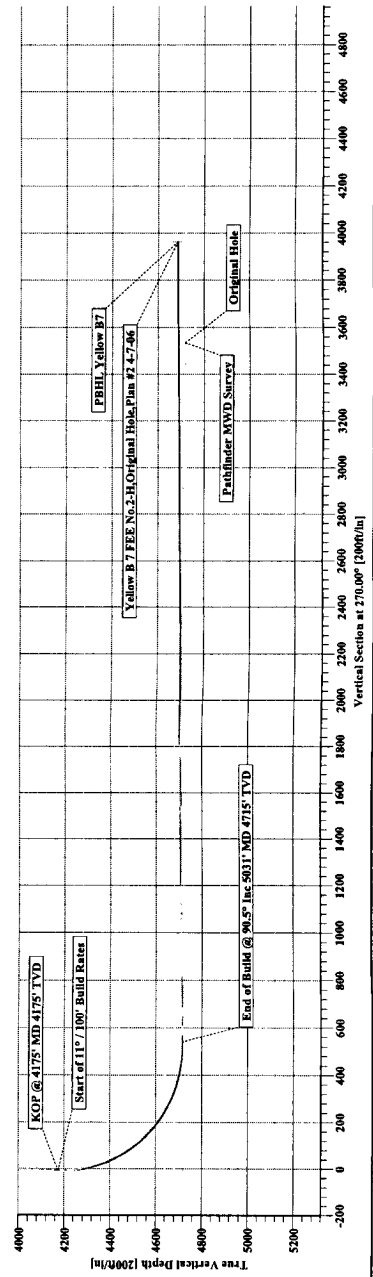


PATHFINDER

Field: JW #3
Site: Yellow B 7 FEE No. #2-H
Well: Yellow B 7 FEE No.2-H
Wellpath: Original Hole
Survey: Final MWD Survey

Survey: Pathfinder MWD Survey (Yellow B 7 FEE No.2-H Original Hole)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	4000.00	1.92	88.09	3999.66	16.46	2.76	0.00	0.00	-2.76
2	4050.00	1.92	88.09	4049.63	16.45	4.29	0.75	-27.74	-4.29
3	4151.00	2.73	86.48	4150.55	16.65	8.38	0.80	-5.41	-8.38
4	4182.00	1.32	63.01	4181.53	16.86	9.44	5.19	-160.91	-9.44
5	4213.00	3.96	303.39	4212.51	17.61	8.86	15.33	-133.57	-8.86
6	4245.00	8.35	289.24	4244.31	18.98	5.74	14.41	-36.20	-5.74
7	4277.00	12.93	282.56	4275.76	20.53	0.05	14.80	-18.38	-0.05
8	4308.00	16.44	279.57	4305.74	22.01	-7.66	11.58	-13.64	7.66
9	4340.00	20.31	278.52	4336.10	23.59	-17.62	12.14	-5.39	17.62
10	4371.00	23.30	276.41	4364.88	25.07	-29.04	9.97	-15.67	29.04
11	4403.00	25.76	274.12	4393.99	26.28	-42.37	8.24	-23.18	42.37
12	4434.00	28.05	273.51	4421.64	27.21	-56.26	7.44	-7.15	56.26
13	4465.00	30.07	273.57	4448.73	28.14	-71.29	6.52	0.85	71.29
14	4497.00	32.62	272.92	4476.06	29.08	-87.91	8.04	-7.83	87.91
15	4529.00	35.39	272.19	4500.93	29.82	-104.67	9.33	-8.69	104.67
16	4559.00	39.39	271.66	4526.35	30.47	-124.09	12.54	-4.81	124.09
17	4591.00	42.91	270.61	4550.44	30.88	-145.13	11.21	-11.50	145.13
18	4622.00	46.52	270.43	4572.46	31.08	-166.94	11.65	-2.07	166.94
19	4654.00	50.21	270.17	4593.72	31.20	-190.85	11.55	-3.10	190.85
20	4685.00	53.90	270.34	4612.78	31.31	-215.30	11.91	2.13	215.30
21	4716.00	57.68	270.87	4630.20	31.58	-240.93	12.28	6.76	240.93
22	4748.00	61.03	271.75	4646.51	32.22	-268.44	10.71	12.96	268.44
23	4779.00	64.81	270.78	4660.62	32.82	-296.03	12.51	-13.09	296.03
24	4811.00	69.03	268.94	4673.17	32.74	-325.46	14.21	-22.22	325.46
25	4856.00	74.13	267.97	4687.38	31.59	-368.13	11.52	-10.39	368.13
26	4887.00	75.80	268.58	4695.42	30.69	-398.05	5.71	19.51	398.05
27	4919.00	78.17	268.50	4702.63	29.89	-429.22	7.41	31.39	429.22
28	4950.00	81.87	270.17	4708.00	29.54	-459.74	13.06	24.12	459.74
29	4981.00	85.47	271.05	4711.42	29.87	-490.54	11.95	13.71	490.54
30	5013.00	88.46	270.87	4713.11	30.40	-522.49	9.36	-3.45	522.49
31	5044.00	90.08	270.26	4713.78	30.71	-553.48	2.81	44.53	553.48
32	5107.00	90.66	271.40	4713.92	31.52	-612.47	3.52	61.54	612.47
33	5170.00	91.45	272.19	4710.21	33.25	-679.44	1.28	12.14	679.44
34	5233.00	91.36	271.13	4711.22	34.74	-742.40	0.71	-101.56	742.40
35	5296.00	88.81	270.52	4711.12	35.64	-805.39	4.16	-166.55	805.39
36	5359.00	90.04	271.66	4711.75	35.84	-868.37	2.66	42.83	868.37
37	5422.00	90.40	272.19	4711.39	36.85	-929.31	0.55	4.93	929.31
38	5485.00	91.01	272.19	4710.31	43.37	-1058.25	0.66	16.44	1058.25
39	5548.00	90.13	272.01	4709.29	46.78	-1151.19	0.97	-168.44	1151.19
40	5578.00	89.16	271.92	4709.88	50.07	-1247.13	1.01	-174.70	1247.13
41	5674.00	89.60	273.15	4710.92	54.32	-1343.02	1.56	70.32	1343.02
42	5728.00	91.19	273.42	4710.27	59.70	-1448.86	1.71	14.86	1448.86
43	6023.00	93.30	274.65	4706.55	66.38	-1531.55	2.57	30.20	1531.55
44	6118.00	90.84	274.74	4703.12	74.15	-1626.16	2.59	177.90	1626.16
45	6212.00	88.99	274.39	4703.26	81.63	-1719.86	2.00	-169.29	1719.86
46	6307.00	88.81	274.65	4705.08	89.12	-1814.55	0.33	124.70	1814.55
47	6401.00	89.69	275.88	4706.31	97.14	-1908.14	0.97	-168.44	1908.14
48	6494.00	88.81	275.70	4707.53	107.12	-2000.66	1.94	-62.78	2000.66
49	6589.00	90.48	276.49	4708.12	117.21	-2095.11	0.42	25.32	2095.11
50	6683.00	90.66	276.14	4707.18	127.55	-2188.54	0.33	-62.78	2188.54
51	6776.00	90.84	275.62	4705.62	137.07	-2281.04	0.59	70.90	2281.04
52	6871.00	89.25	274.47	4705.89	144.43	-2375.52	2.05	-174.70	2375.52
53	6966.00	89.34	275.18	4707.06	153.42	-2470.32	0.75	128.51	2470.32
54	7061.00	88.99	275.62	4708.45	162.36	-2564.89	0.59	128.51	2564.89
55	7156.00	90.75	276.65	4708.66	172.67	-2659.32	2.26	34.95	2659.32
56	7250.00	90.75	275.62	4707.43	182.88	-2752.76	1.31	89.99	2752.76
57	7346.00	88.64	273.62	4707.57	192.88	-2846.17	1.06	-174.70	2846.17
58	7502.00	88.64	273.62	4710.68	206.97	-3003.57	0.33	148.47	3003.57
59	7597.00	90.66	276.58	4711.26	217.06	-3098.02	2.35	25.42	3098.02
60	7725.00	90.66	276.67	4709.78	231.83	-3225.16	0.07	90.00	3225.16
61	7851.00	87.14	273.42	4712.20	242.90	-3350.61	3.80	-137.31	3350.61
62	7946.00	88.64	273.28	4715.20	247.40	-3445.08	0.00	-5.41	3445.08
63	8036.00	88.64	272.28	4717.84	251.20	-3535.33	0.00	0.00	3535.33



LEGEND
Yellow B 7 FEE No.2-H Original Hole, Plan #2 4-7-06
Pathfinder MWD Survey

Azimuths to Grid North
True North: 0.10°
Magnetic North: 8.78°
Magnetic Field
Strength: 49495nT
Dip Angle: 60.80°
Date: 4/5/2006
Model: igr2005