

EOG - Midland (3)

Thames

Hudson 15 Fed Com #1H

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Survey: Lateral

Standard Survey Report

, 01 September, 2006

EOG Resources Inc.
Survey Report

Company:	EOG - Midland (3)	Local Co-ordinate Reference:	Well Hudson 15 Fed Com #1H
Project:	Thames	TVD Reference:	WELL @ 3764.00ft (Original Well Elev)
Site:	Hudson 15 Fed Com #1H	MD Reference:	WELL @ 3764.00ft (Original Well Elev)
Well:	Hudson 15 Fed Com #1H	North Reference:	Grid
Wellbore:	Hudson 15 Fed Com #1H	Survey Calculation Method:	Minimum Curvature
Design:	Hudson 15 Fed Com #1H	Database:	EDM
Project	Thames		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Ground Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		
Site	Hudson 15 Fed Com #1H		
Site Position:		Northing:	665,862.00 ft
From:	Map	Easting:	427,415.00 ft
Position Uncertainty:	0.00 ft	Slot Radius:	Grid Convergence:
			Latitude: 32° 49' 49.145 N
			Longitude: 104° 34' 10.691 W
			-0.13 °
Well	Hudson 15 Fed Com #1H		
Well Position	+N/-S	Northing:	665,862.00 ft
	+E/-W	Easting:	427,415.00 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
			Ground Level: 3,746.00 ft
			Latitude: 32° 49' 49.145 N
			Longitude: 104° 34' 10.691 W

Wellbore Hudson 15 Fed Com #1H

Magnetics Model Name Sample Date Declination (°) Dip Angle (°) Field Strength (nT)

IGRF2000 12/31/2004 9.07 60.81 49.663

Design Hudson 15 Fed Com #1H

Audit Notes:

Version: 1.0 Phase: ACTUAL Tie On Depth:

Vertical Section: Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)

0.00 0.00 0.00 269.84

Survey Program Date 7/28/2006

From (ft) To (ft) Survey (Wellbore) Tool Name Description

100.00 4,400.00 Gyro (Hudson 15 Fed Com #1H)

4,428.00 8,610.00 Lateral (Hudson 15 Fed Com #1H)

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,400.00	2.00	95.49	4,399.24	10.49	-37.01	36.98	0.00	0.00	0.00
4,500.00	6.28	277.22	4,499.12	11.12	-38.95	38.92	8.28	4.28	-178.27
4,600.00	18.56	274.49	4,596.61	12.99	-60.24	60.20	12.30	12.29	-2.73
4,700.00	29.82	274.73	4,687.75	16.19	-100.91	100.86	11.26	11.25	0.24
4,800.00	42.37	275.46	4,768.44	21.48	-159.40	159.34	12.56	12.55	0.73
4,900.00	54.80	275.73	4,834.52	28.77	-233.84	233.76	12.43	12.43	0.27
5,000.00	67.44	276.24	4,882.71	38.02	-320.74	320.63	12.65	12.65	0.51
5,100.00	80.22	275.53	4,910.40	47.67	-416.12	415.99	12.79	12.77	-0.71
5,200.00	89.87	273.44	4,916.78	58.01	-515.42	515.26	9.87	9.65	-2.10
5,300.00	90.69	273.27	4,916.76	61.88	-615.24	615.07	0.84	0.83	-0.17
5,400.00	89.99	270.31	4,915.75	65.26	-715.16	714.98	3.04	-0.70	-2.96
5,500.00	90.83	270.04	4,915.27	65.47	-815.16	814.98	0.89	0.85	-0.27

EOG Resources Inc.
Survey Report

Company: EOG - Midland (3)

Project: Thames

Site: Hudson 15 Fed Com #1H

Well: Hudson 15 Fed Com #1H

Wellbore: Hudson 15 Fed Com #1H

Design: Hudson 15 Fed Com #1H

Survey

Local Co-ordinate Reference: Well Hudson 15 Fed Com #1H

TVD Reference: WELL @ 3764.00ft (Original Well Elev)

MD Reference: WELL @ 3764.00ft (Original Well Elev)

North Reference: Grid

Survey Calculation Method: Minimum Curvature

Database: EDM

Measured Depth (ft) Inclination (°) Azimuth (°) Vertical Depth (ft) +N/-S (ft) +E/-W (ft) Vertical Section (ft) Dogleg Rate (°/100ft) Build Rate (°/100ft) Turn Rate (°/100ft)

5,600.00 88.99 268.55 4,914.30 64.53 -915.14 914.96 2.37 -1.84 -1.49

5,700.00	88.58	268.29	4,917.76	61.33	-1,015.03	1,014.85	0.49	-0.41	-0.26
5,800.00	90.05	268.10	4,918.23	58.60	-1,114.99	1,114.82	1.48	1.46	-0.19
5,900.00	90.99	268.17	4,917.34	55.44	-1,214.93	1,214.77	0.94	0.94	0.07
6,000.00	91.59	267.90	4,915.22	52.04	-1,314.85	1,314.70	0.66	0.60	-0.27
6,100.00	90.69	267.84	4,912.38	48.66	-1,414.75	1,414.61	0.90	-0.90	-0.06
6,200.00	91.42	268.25	4,910.73	45.27	-1,514.68	1,514.55	0.84	0.73	0.41
6,300.00	92.34	268.37	4,907.24	42.38	-1,614.57	1,614.45	0.93	0.92	0.12
6,400.00	90.93	267.55	4,904.94	38.58	-1,714.47	1,714.35	1.63	-1.41	-0.82
6,500.00	92.00	267.69	4,902.37	34.14	-1,814.33	1,814.23	1.08	1.07	0.14
6,600.00	91.40	267.55	4,899.37	29.60	-1,914.18	1,914.10	0.82	-0.60	-0.14
6,700.00	92.16	267.96	4,896.14	25.37	-2,014.04	2,013.96	0.87	0.76	0.41
6,800.00	91.94	268.44	4,892.97	22.52	-2,113.95	2,113.88	0.54	-0.23	0.49
6,900.00	92.49	267.81	4,889.08	19.32	-2,213.82	2,213.76	0.84	0.56	-0.63
7,000.00	91.77	268.21	4,885.78	15.91	-2,313.71	2,313.65	0.83	-0.72	0.40
7,100.00	92.24	268.23	4,882.08	12.80	-2,413.59	2,413.54	0.46	0.46	0.02
7,200.00	92.43	269.77	4,878.62	11.19	-2,513.51	2,513.47	1.55	0.19	1.54
7,300.00	91.66	269.59	4,875.22	10.30	-2,613.44	2,613.41	0.78	-0.76	-0.18
7,400.00	92.57	270.07	4,871.61	9.69	-2,713.38	2,713.34	1.02	0.90	0.48
7,500.00	91.60	269.65	4,868.59	8.70	-2,813.32	2,813.29	1.06	-0.97	-0.42
7,600.00	92.41	270.40	4,864.98	8.85	-2,913.26	2,913.22	1.10	0.81	0.75
7,700.00	92.18	269.27	4,860.32	9.19	-3,013.14	3,013.11	1.15	-0.24	-1.13
7,800.00	91.66	269.40	4,857.54	7.22	-3,113.09	3,113.05	0.53	-0.51	0.13
7,900.00	92.43	269.66	4,853.94	6.87	-3,213.02	3,212.99	0.81	0.76	0.26
8,000.00	92.97	269.72	4,849.16	6.49	-3,312.90	3,312.87	0.55	0.55	0.06
8,100.00	92.36	268.84	4,844.83	4.73	-3,412.79	3,412.76	1.07	-0.61	-0.88
8,200.00	92.59	268.31	4,840.42	2.51	-3,512.67	3,512.65	0.58	0.23	-0.53
8,300.00	92.36	267.44	4,835.63	-0.86	-3,612.50	3,612.48	0.90	-0.23	-0.87
8,400.00	92.68	267.02	4,831.58	-5.61	-3,712.30	3,712.30	0.53	0.32	-0.42
8,500.00	92.93	267.12	4,826.70	-10.78	-3,812.05	3,812.06	0.27	0.25	0.10
8,600.00	93.39	267.11	4,821.09	-15.91	-3,911.76	3,911.78	0.46	0.46	-0.01
8,610.00	93.39	267.11	4,820.50	-16.42	-3,921.73	3,921.76	0.00	0.00	0.00

Targets

Target Name	Dip	Dip Dir.	TVD	+N/S	+E/W	Northing	Easting	Latitude	Longitude
- hit/miss target	Angle	(')	(ft)	(ft)	(ft)	(ft)	(ft)		
BHL(Hudson#1H)	0.00	0.00	4,842.00	-11.00	-3,983.00	665,851.00	423,432.00	32° 49' 48.946 N	104° 34' 57.371 W
- survey misses by 506.36ft at 8164.13ft MD (4842.00 TVD, 3.31 N, -3476.85 E)									
- Point									

Checked By:

Approved By:

Date: