

35954
30-015-34290

EOG Resources, Inc.

Sand Tank 7 Fed #3H

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OH

Survey: Survey #1

Standard Survey Report

21 January, 2008

WHS Survey Report

Company: EOG Resources, Inc.
Project: Sand Tank 7 Fed #3H
Site: Sand Tank 7 Fed #3H
Well: Sand Tank 7 Fed #3H
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Sand Tank 7 Fed #3H
TVD Reference: Est RKB @ 3541.00ft
MD Reference: Est RKB @ 3541.00ft
North Reference: Grid
Survey Calculation Method: Minimum Curvature
Database: EOM 2003.16 Single User Db

Project	Sand Tank 7 Fed #3H		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Sand Tank 7 Fed #3H			
Site Position:		Northing:	643,349.000ft	Latitude: 32° 46' 5.738 N
From: Map		Easting:	597,080.000ft	Longitude: 104° 1' 3.020 W
Position Uncertainty:	0.00 ft	Spot Radius:		Grid Convergence: 0.17 °

Well	Sand Tank 7 Fed #3H			
Well Position	+N/-S	0.00 ft	Northing:	643,349.000 ft
	+E/-W	0.00 ft	Easting:	597,080.000 ft
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level: 3,541.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	12/21/2007	8.24	60.71	49,264

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	303.60	

Survey Program	Date 1/21/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100.00	7,210.00	Survey #1 (OH)	CT_GYRO_MS	Continuous Gyro Mullishol
7,294.00	12,225.00	Survey #2 (OH)	MWD	MWD - Standard

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)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.98	309.45	100.00	0.53	-0.65	0.83	0.96	0.98	0.00
200.00	0.78	297.77	199.98	1.38	-1.90	2.34	0.25	-0.18	-11.68
300.00	0.72	284.94	299.98	1.86	-3.11	3.62	0.18	-0.08	-12.83
400.00	1.28	267.78	399.96	1.98	-4.81	5.10	0.61	0.54	-17.16
500.00	1.32	265.26	499.93	1.84	-7.06	6.90	0.08	0.06	-2.52
600.00	0.98	286.97	599.91	1.70	-9.06	8.49	0.34	-0.34	1.71
700.00	0.84	266.82	699.90	1.61	-10.65	9.76	0.14	-0.14	-0.35
800.00	0.74	276.56	799.89	1.64	-12.02	10.92	0.17	-0.10	9.94
900.00	0.56	280.03	899.89	1.80	-13.14	11.94	0.18	-0.18	3.47
1,000.00	0.46	335.07	999.88	2.25	-13.79	12.73	0.48	-0.10	55.04
1,100.00	1.09	50.19	1,099.87	3.23	-13.23	12.80	1.07	0.63	75.12

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Survey

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)
1,200.00	1.06	47.20	1,199.86	4.46	-11.82	12.32	0.08	-0.03	-2.99
1,300.00	0.93	48.20	1,299.84	5.62	-10.53	11.88	0.13	-0.13	2.00
1,400.00	0.35	31.18	1,399.84	6.41	-9.76	11.87	0.81	-0.58	-18.02
1,500.00	0.27	344.45	1,499.83	6.90	-9.66	11.87	0.26	-0.08	-46.73
1,600.00	0.17	327.61	1,599.83	7.25	-9.80	12.18	0.12	-0.10	-16.84
1,700.00	0.23	286.43	1,699.83	7.44	-10.07	12.51	0.15	0.08	-41.18
1,800.00	0.20	297.72	1,799.83	7.57	-10.42	12.87	0.05	-0.03	11.29
1,900.00	0.24	233.40	1,899.83	7.53	-10.74	13.12	0.24	0.04	-84.32
2,000.00	0.46	244.58	1,999.83	7.23	-11.28	13.39	0.23	0.22	11.18
2,100.00	0.53	258.90	2,099.83	6.97	-12.09	13.93	0.14	0.07	14.32
2,200.00	0.69	246.91	2,199.82	6.65	-13.10	14.59	0.20	0.16	-11.99
2,300.00	0.92	232.91	2,299.81	5.93	-14.29	15.19	0.30	0.23	-14.00
2,400.00	1.29	229.82	2,399.79	4.72	-15.79	15.76	0.37	0.37	-3.09
2,500.00	1.15	233.59	2,499.77	3.39	-17.48	16.42	0.16	-0.14	3.77
2,600.00	1.09	237.70	2,599.75	2.29	-19.07	17.15	0.10	-0.06	4.11
2,700.00	1.08	238.08	2,699.73	1.28	-20.68	17.93	0.01	-0.01	0.38
2,800.00	0.89	230.70	2,799.72	0.24	-22.15	18.58	0.16	-0.09	-7.38
2,900.00	1.06	232.57	2,899.70	-0.87	-23.55	19.13	0.08	0.07	1.87
3,000.00	0.87	231.14	2,999.69	-1.91	-24.87	19.66	0.19	-0.19	-1.43
3,100.00	0.89	235.71	3,099.67	-2.82	-26.11	20.18	0.07	0.02	4.57
3,200.00	0.81	240.47	3,199.66	-3.81	-27.38	20.79	0.11	-0.08	4.78
3,300.00	0.92	231.23	3,299.65	-4.46	-28.60	21.36	0.18	0.11	-9.24
3,400.00	1.01	231.75	3,399.64	-5.51	-29.92	21.88	0.09	0.09	0.52
3,500.00	0.86	225.59	3,499.62	-6.64	-31.21	22.32	0.12	-0.05	-6.16
3,600.00	1.02	222.34	3,599.61	-7.89	-32.41	22.63	0.08	0.06	-3.25
3,700.00	0.84	222.09	3,699.59	-9.09	-33.50	22.88	0.18	-0.18	-0.25
3,800.00	0.58	223.21	3,799.58	-10.00	-34.34	23.07	0.26	-0.26	1.12
3,900.00	0.58	223.60	3,899.56	-10.74	-35.04	23.24	0.00	0.00	0.39
4,000.00	0.54	233.17	3,999.56	-11.38	-35.76	23.49	0.10	-0.04	9.57
4,100.00	0.44	236.28	4,099.57	-11.88	-36.46	23.79	0.10	-0.10	3.11
4,200.00	0.32	282.50	4,199.57	-12.13	-37.05	24.15	0.21	-0.12	26.22
4,300.00	0.52	286.57	4,299.57	-12.04	-37.77	24.80	0.26	0.20	24.07
4,400.00	0.56	293.43	4,399.56	-11.71	-38.65	25.71	0.08	0.04	6.86
4,500.00	0.80	296.49	4,499.56	-11.21	-39.72	26.88	0.24	0.24	3.06
4,600.00	0.83	302.52	4,599.55	-10.51	-40.96	28.30	0.09	0.03	6.03
4,700.00	0.90	315.85	4,699.54	-9.55	-42.12	29.79	0.21	0.07	13.33
4,800.00	1.24	315.75	4,799.52	-8.22	-43.42	31.62	0.34	0.34	-0.10
4,900.00	1.06	319.20	4,899.50	-6.74	-44.78	33.57	0.18	-0.18	3.45
5,000.00	1.25	325.13	4,999.48	-5.14	-46.01	35.47	0.22	0.19	5.93
5,100.00	1.10	329.33	5,099.46	-3.42	-47.12	37.35	0.17	-0.15	4.20
5,200.00	1.09	331.65	5,199.44	-1.76	-48.06	39.08	0.05	-0.01	2.32
5,300.00	1.27	340.76	5,299.42	0.12	-48.88	40.78	0.26	0.18	9.11
5,400.00	1.13	356.57	5,399.40	2.15	-49.30	42.26	0.36	-0.14	15.81
5,500.00	1.15	350.65	5,499.38	4.13	-49.52	43.53	0.12	0.02	-5.92
5,600.00	1.32	2.43	5,599.35	6.27	-49.64	44.81	0.30	0.17	11.78
5,700.00	1.60	7.31	5,699.32	8.80	-49.41	46.03	0.31	0.28	4.88
5,800.00	1.41	11.88	5,799.29	11.39	-48.98	47.10	0.22	-0.19	4.57
5,900.00	1.52	353.10	5,899.25	13.91	-48.89	48.42	0.49	0.11	-18.78
6,000.00	1.73	352.01	5,999.21	16.72	-49.28	50.28	0.21	0.21	-1.09
6,100.00	1.90	332.49	6,099.16	19.69	-50.23	52.73	0.64	0.17	-19.52
6,200.00	2.33	324.99	6,199.10	22.82	-52.16	56.08	0.51	0.43	-7.50
6,300.00	2.81	320.84	6,298.99	26.39	-54.88	60.31	0.51	0.48	-4.15
6,400.00	2.94	314.45	6,398.87	30.09	-58.26	65.17	0.35	0.13	-6.39
6,500.00	3.23	313.47	6,498.72	33.82	-62.13	70.47	0.29	0.29	-0.98

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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)
6,600.00	2.88	312.19	6,598.58	37.45	-66.04	75.73	0.36	-0.35	-1.28
6,700.00	2.58	311.10	6,698.47	40.61	-69.59	80.44	0.30	-0.30	-1.09
6,800.00	2.73	314.33	6,798.38	43.78	-72.99	85.01	0.21	0.15	3.23
6,900.00	2.67	312.92	6,898.25	47.01	-76.40	89.65	0.09	-0.06	-1.41
7,000.00	2.90	314.73	6,998.13	50.37	-79.81	94.43	0.25	0.23	1.81
7,100.00	2.79	318.26	7,098.01	53.97	-83.32	99.27	0.21	-0.11	3.53
7,200.00	3.15	312.90	7,197.87	57.66	-86.96	104.33	0.45	0.36	-5.36
7,210.00	3.03	314.69	7,207.86	58.03	-87.35	104.86	1.54	-1.20	17.90

Targets

Target Name

- hit/miss target
- Shape

Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
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BHL	0.00	0.00	7,933.00	-4,609.00	160.00	838,740.000	597,240.000	32° 45' 20.128 N	104° 1' 1.308 W
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- survey misses by 4729.50ft at 7210.00ft MD (7207.86 TVD, 58.03 N, -87.35 E)
 - Point

Checked By: _____ Approved By: _____ Date: _____

Well Name	SAND TANK 7 FED #3H	Division	MIDLAND	County, St	EDDY, NM
Well ID	042794	Well Type	DEVG	Well Class	COMP



Type	MD	Inclination	Azimuth	TVD	VS	NS	EW	Di
MWD-0	7,294	2.20	277.72	7,292	-84.90	59.81	-90.52	
MWD-0	7,325	3.69	218.66	7,323	-64.28	59.11	-81.73	
MWD-0	7,356	6.77	202.84	7,354	-81.89	58.64	-93.08	
MWD-0	7,387	9.94	198.89	7,384	-67.77	52.43	-94.64	
MWD-0	7,418	13.53	196.68	7,415	-51.89	46.42	-96.55	
MWD-0	7,448	17.24	194.84	7,444	-44.38	38.76	-98.69	
MWD-0	7,479	21.02	193.22	7,473	-34.66	28.90	-101.14	
MWD-0	7,510	24.71	191.67	7,501	-23.07	17.14	-103.72	
MWD-0	7,541	28.40	189.12	7,529	-9.60	3.51	-106.20	
MWD-0	7,572	31.83	186.22	7,556	5.67	-11.90	-108.26	
MWD-0	7,604	35.44	183.59	7,583	23.21	-29.55	-109.76	
MWD-0	7,635	39.04	180.09	7,607	41.88	-48.30	-110.33	
MWD-0	7,666	42.56	177.52	7,631	82.12	-68.54	-109.90	
MWD-0	7,698	46.25	175.85	7,654	84.51	-90.89	-108.59	
MWD-0	7,730	49.42	175.94	7,676	106.22	-114.54	-106.89	
MWD-0	7,761	51.53	175.90	7,695	132.13	-138.39	-105.19	
MWD-0	7,793	53.73	176.03	7,714	157.56	-163.78	-103.40	
MWD-0	7,823	57.18	174.97	7,731	182.25	-188.39	-101.48	
MWD-0	7,854	61.03	174.01	7,747	208.83	-214.86	-98.90	
MWD-0	7,885	64.63	173.48	7,761	236.36	-242.27	-95.90	
MWD-0	7,916	68.85	173.57	7,774	264.79	-270.56	-92.68	
MWD-0	7,947	73.07	175.06	7,784	294.06	-299.71	-89.79	
MWD-0	7,978	77.47	176.03	7,792	324.03	-329.59	-87.46	
MWD-0	8,009	82.13	177.00	7,797	354.53	-360.04	-85.61	
MWD-0	8,071	88.72	176.73	7,802	416.30	-421.72	-82.23	
MWD-0	8,165	88.64	176.56	7,804	510.28	-515.53	-76.73	
MWD-0	8,196	88.29	175.85	7,805	541.28	-548.45	-74.68	
MWD-0	8,289	85.65	175.76	7,810	634.11	-639.06	-67.89	
MWD-0	8,383	85.82	175.88	7,817	727.84	-732.55	-61.05	
MWD-0	8,507	85.74	175.85	7,826	851.49	-855.90	-52.14	
MWD-0	8,632	87.32	175.24	7,834	976.23	-980.28	-42.44	
MWD-0	8,757	87.41	175.76	7,839	1,101.07	-1,104.77	-32.65	
MWD-0	8,913	87.49	176.21	7,846	1,256.90	-1,260.23	-21.74	
MWD-0	9,070	88.37	176.29	7,852	1,413.80	-1,416.79	-11.48	
MWD-0	9,224	88.02	175.94	7,857	1,567.71	-1,570.36	-1.05	
MWD-0	9,379	87.10	175.68	7,863	1,722.55	-1,724.80	10.27	
MWD-0	9,534	87.41	175.33	7,871	1,877.34	-1,879.15	22.40	
MWD-0	9,691	87.93	174.36	7,877	2,034.12	-2,035.38	38.50	
MWD-0	9,848	89.16	175.76	7,881	2,191.00	-2,191.74	50.01	
MWD-0	10,007	88.50	174.80	7,884	2,349.91	-2,350.17	63.09	
MWD-0	10,166	88.64	174.62	7,888	2,508.77	-2,508.44	77.75	
MWD-0	10,324	88.81	175.24	7,892	2,666.65	-2,665.78	91.70	
MWD-0	10,482	88.81	175.10	7,896	2,824.56	-2,823.19	105.01	
MWD-0	10,641	88.81	175.94	7,898	2,983.49	-2,981.66	117.42	
MWD-0	10,793	89.16	175.59	7,901	3,135.44	-3,133.23	128.65	
MWD-0	10,954	88.64	176.03	7,904	3,296.39	-3,293.76	140.41	
MWD-0	11,077	88.20	175.94	7,908	3,419.34	-3,416.42	149.02	
MWD-0	11,200	88.20	175.76	7,911	3,542.26	-3,539.03	157.91	
MWD-0	11,354	88.20	175.68	7,916	3,696.16	-3,692.53	169.40	
MWD-0	11,477	88.46	175.33	7,920	3,819.08	-3,815.10	179.04	
MWD-0	11,621	87.49	173.86	7,925	3,962.89	-3,958.36	192.59	

MWD-0	11,754	87.67	173.39	7,931	4,095.58	-4,090.42	207.34
MWD-0	11,908	87.85	173.30	7,937	4,249.20	-4,243.27	225.18
MWD-0	12,063	87.85	172.87	7,942	4,403.78	-4,397.03	243.83
MWD-0	12,126	88.11	172.07	7,945	4,466.56	-4,459.45	252.08