

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007

SUNDRY NOTICES AND REPORTS ON WELLS

NOV 07 2007

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No.

LC028992E; NM2748; LC029338A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

8. Well Name and No.

Oak Lake Fed Com 1

9. API Well No.

30-015-34508

10. Field and Pool, or Exploratory Area

Cedar Lake; Morrow

11. County or Parish, State

Eddy NM

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

EOG Resources Inc.

3a. Address

P.O. Box 2267 Midland, Texas 79702

3b. Phone No. (include area code)

432.686.3689

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

480' FSL & 2180' FEL, U/L O

Sec 23, T17S, R30E

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- | | | | |
|---|---|--|---|
| ☐ Acidize | ☐ Deepen | ☐ Production (Start/Resume) | ☐ Water Shut-Off |
| ☐ Alter Casing | ☐ Fracture Treat | ☐ Reclamation | ☐ Well Integrity |
| ☐ Casing Repair | ☐ New Construction | ☐ Recomplete | ☒ Other |
| ☐ Change Plans | ☐ Plug and Abandon | ☐ Temporarily Abandon | <u>completion</u> |
| ☐ Convert to Injection | ☐ Plug Back | ☐ Water Disposal | |

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

09/17/07 TD @ 11519 MD

09/19/07 Ran 278 jts 5 1/2", 17 #, HCP-110 casing set @ 11538'.

09/20/07 Cemented w/ 650 sx 50/50 POZ, 11.9 ppg, 2.39 yield; 400 sx TXI LW, 13.0 ppg, 1.44 yield.
Ran temperature survey, TOC @ 5200'. Released rig.

10/01/07 MIRU for completion.

10/02/07 Ran CBL, found TOC @ 4250'. Step rate tested 5 1/2" casing to 8000 psi for 30 min. Test good.

10/04/07 Perforated Morrow from 11046' to 11086', 72 holes. Flow back.

10/06/07 Shut in for bottomhole pressure buildup.

10/20/07 Rig up BJ for frac. Frac w/ 45000 gal 60 Quality CO2 foam w/ 36000 lbs 20/40 Carboprop.

Perforated Upper Morrow from 10888' to 10892', 24 holes.

Frac w/ 18000 gal 60 Quality CO2 foam w/ 15000 lbs 20/40 Carboprop.

10/21/07 MIRU coil tubing unit. RIH to drill out frac plug @ 10946'.

10/22/07 Continue to drill out and clean out.

10/23/07 Jet well in w/ N2. POOH. Flow back.

10/25/07 RIH w/ 2 3/8" production tubing and packer set at 10815'.

10/27/07 Turned to sales.

14. I hereby certify that the foregoing is true and correct
Name (Printed/Typed)

Stan Wagner

Title

Regulatory Analyst

Signature

Date 10/31/07

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

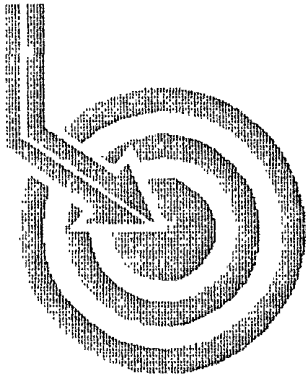
Title

Date

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



Scientific Drilling

E.O.G.

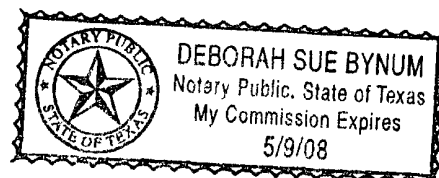
Field: Oaklake
Site: Eddy County, NM
Well: Oaklake 23 Federal #1
Wellpath: VH - Job #32K0907769
Survey: 09/05/07

This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*R. Wharton*.....Company Representative

Notorized this date 8th of October, 2007.

Deborah Sue Bynum
Notary Signature
County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: E.O.G.	Date: 10/07/2007	Time: 12:47:19	Page: 1
Field: Oaklake	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE 0.0	
Well: Oaklake 23 Federal #1	Section (VS) Reference:	Well (0.00N,0.00E,31.83Azi)	
Wellpath: VH - Job #32K0907769	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 09/05/07	Start Date: 09/05/2007
Company: Scientific Drilling Internatio	Engineer: Rehders w/GeoGyro
Tool: Keeper;Keeper Surface Readout Gyro	Tied-to: From Surface

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
0.00	0.00	359.79	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.29	197.50	100.00	-0.25	-0.24	-0.08	0.29	0.25	197.50
200.00	1.22	178.95	199.99	-1.38	-1.55	-0.13	0.95	1.55	184.90
300.00	1.93	175.33	299.95	-3.63	-4.29	0.02	0.72	4.29	179.68
400.00	2.06	173.24	399.89	-6.39	-7.75	0.37	0.15	7.76	177.25
500.00	1.98	163.70	499.83	-8.95	-11.20	1.07	0.35	11.25	174.55
600.00	2.03	163.74	599.77	-11.28	-14.55	2.05	0.05	14.70	171.98
700.00	1.98	162.04	699.71	-13.58	-17.90	3.08	0.08	18.16	170.24
800.00	1.99	159.97	799.65	-15.77	-21.17	4.21	0.07	21.59	168.76
900.00	1.99	161.91	899.59	-17.96	-24.45	5.34	0.07	25.03	167.68
1000.00	1.89	159.07	999.53	-20.08	-27.64	6.47	0.14	28.39	166.83
1100.00	1.78	151.54	1099.48	-21.84	-30.55	7.80	0.26	31.53	165.68
1200.00	1.82	149.38	1199.43	-23.35	-33.28	9.35	0.08	34.57	164.31
1300.00	1.65	146.45	1299.38	-24.68	-35.85	10.95	0.19	37.48	163.01
1400.00	1.38	143.39	1399.35	-25.72	-38.02	12.46	0.28	40.01	161.85
1500.00	1.24	143.37	1499.32	-26.56	-39.85	13.83	0.14	42.18	160.86
1600.00	0.99	150.08	1599.30	-27.37	-41.47	14.90	0.28	44.06	160.23
1700.00	0.77	148.52	1699.29	-28.08	-42.79	15.69	0.22	45.57	159.87
1800.00	0.68	137.47	1799.28	-28.54	-43.80	16.44	0.17	46.78	159.43
1900.00	0.49	149.68	1899.28	-28.90	-44.61	17.06	0.23	47.76	159.08
2000.00	0.32	145.70	1999.27	-29.22	-45.21	17.43	0.17	48.45	158.92
2100.00	0.21	134.70	2099.27	-29.37	-45.57	17.72	0.12	48.89	158.75
2200.00	0.17	122.19	2199.27	-29.41	-45.77	17.97	0.06	49.17	158.56
2300.00	0.14	22.04	2299.27	-29.29	-45.74	18.14	0.24	49.21	158.36
2400.00	0.33	348.03	2399.27	-28.96	-45.34	18.13	0.23	48.83	158.21
2500.00	0.37	328.77	2499.27	-28.61	-44.79	17.90	0.12	48.23	158.21
2600.00	0.59	325.83	2599.27	-28.25	-44.08	17.45	0.22	47.41	158.41
2700.00	0.71	320.59	2699.26	-27.85	-43.18	16.76	0.13	46.32	158.78
2800.00	0.76	315.84	2799.25	-27.49	-42.23	15.91	0.08	45.12	159.36
2900.00	0.82	295.72	2899.24	-27.40	-41.44	14.80	0.28	44.00	160.34
3000.00	0.93	309.57	2999.23	-27.37	-40.61	13.53	0.24	42.81	161.57
3100.00	0.96	311.74	3099.22	-27.11	-39.54	12.28	0.05	41.40	162.75
3200.00	1.15	312.33	3199.20	-26.79	-38.30	10.91	0.19	39.83	164.10
3300.00	1.31	313.37	3299.18	-26.38	-36.84	9.34	0.16	38.01	165.77
3400.00	1.38	312.83	3399.15	-25.92	-35.24	7.63	0.07	36.05	167.79
3500.00	1.38	311.01	3499.12	-25.50	-33.63	5.83	0.04	34.13	170.16
3600.00	1.33	312.34	3599.09	-25.09	-32.06	4.07	0.06	32.32	172.77
3700.00	1.49	317.77	3699.06	-24.52	-30.31	2.34	0.21	30.40	175.59
3800.00	1.39	314.91	3799.03	-23.89	-28.49	0.60	0.12	28.50	178.79
3900.00	1.38	313.30	3899.00	-23.38	-26.81	-1.13	0.04	26.84	182.42
4000.00	1.27	318.68	3998.98	-22.82	-25.15	-2.74	0.17	25.30	186.22
4100.00	1.20	316.75	4098.95	-22.23	-23.56	-4.19	0.08	23.93	190.08
4200.00	1.01	319.14	4198.93	-21.69	-22.13	-5.48	0.20	22.80	193.92
4300.00	1.11	321.97	4298.92	-21.10	-20.70	-6.66	0.11	21.74	197.83
4400.00	1.02	322.66	4398.90	-20.45	-19.23	-7.79	0.09	20.75	202.06
4500.00	1.13	321.25	4498.88	-19.80	-17.75	-8.95	0.11	19.88	206.75
4600.00	1.19	325.32	4598.86	-19.06	-16.13	-10.16	0.10	19.06	212.20
4700.00	1.07	330.62	4698.84	-18.20	-14.46	-11.21	0.16	18.30	217.77
4800.00	1.03	334.85	4798.82	-17.26	-12.84	-12.05	0.09	17.60	223.18



Scientific Drilling International Survey Report

Company: E.O.G.
Field: Oaklake
Site: Eddy County, NM
Well: Oaklake 23 Federal #1
Wellpath: VH - Job #32K0907769

Date: 10/07/2007 Time: 12:47:19 Page: 2
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,31.83Azi)
Survey Calculation Method: Minimum Curvature Db: Sybase

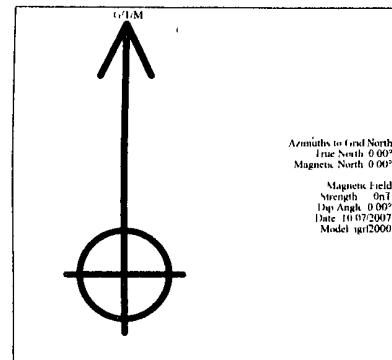
Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
4900.00	1.07	338.08	4898.81	-16.22	-11.16	-12.78	0.07	16.96	228.88
5000.00	0.94	334.77	4998.79	-15.22	-9.55	-13.48	0.14	16.52	234.68
5100.00	1.03	334.54	5098.78	-14.29	-7.99	-14.21	0.09	16.31	240.64
5200.00	0.93	342.54	5198.76	-13.27	-6.41	-14.84	0.17	16.17	246.64
5300.00	0.60	354.44	5298.75	-12.33	-5.11	-15.14	0.36	15.98	251.33
5400.00	0.61	351.28	5398.75	-11.51	-4.07	-15.27	0.03	15.80	255.09
5500.00	0.54	350.68	5498.74	-10.75	-3.07	-15.42	0.07	15.73	258.73
5600.00	0.76	348.27	5598.74	-9.91	-1.96	-15.64	0.22	15.76	262.85
5700.00	0.93	345.63	5698.73	-8.87	-0.53	-15.97	0.17	15.98	268.12
5800.00	1.14	344.73	5798.71	-7.63	1.22	-16.44	0.21	16.48	274.25
5900.00	1.10	350.10	5898.69	-6.24	3.13	-16.86	0.11	17.15	280.50
6000.00	1.49	350.82	5998.66	-4.54	5.36	-17.23	0.39	18.05	287.26
6100.00	1.72	356.61	6098.63	-2.33	8.14	-17.53	0.28	19.33	294.90
6200.00	2.08	357.51	6198.57	0.39	11.45	-17.70	0.36	21.08	302.90
6300.00	2.36	355.41	6298.50	3.55	15.31	-17.94	0.29	23.59	310.48
6400.00	2.88	350.00	6398.39	7.08	19.84	-18.54	0.58	27.16	316.93
6500.00	2.79	353.64	6498.27	10.86	24.73	-19.25	0.20	31.34	322.11
6600.00	3.05	352.97	6598.14	14.85	29.79	-19.84	0.26	35.80	326.33
6640.00	3.18	355.92	6638.08	16.57	31.95	-20.05	0.52	37.73	327.89

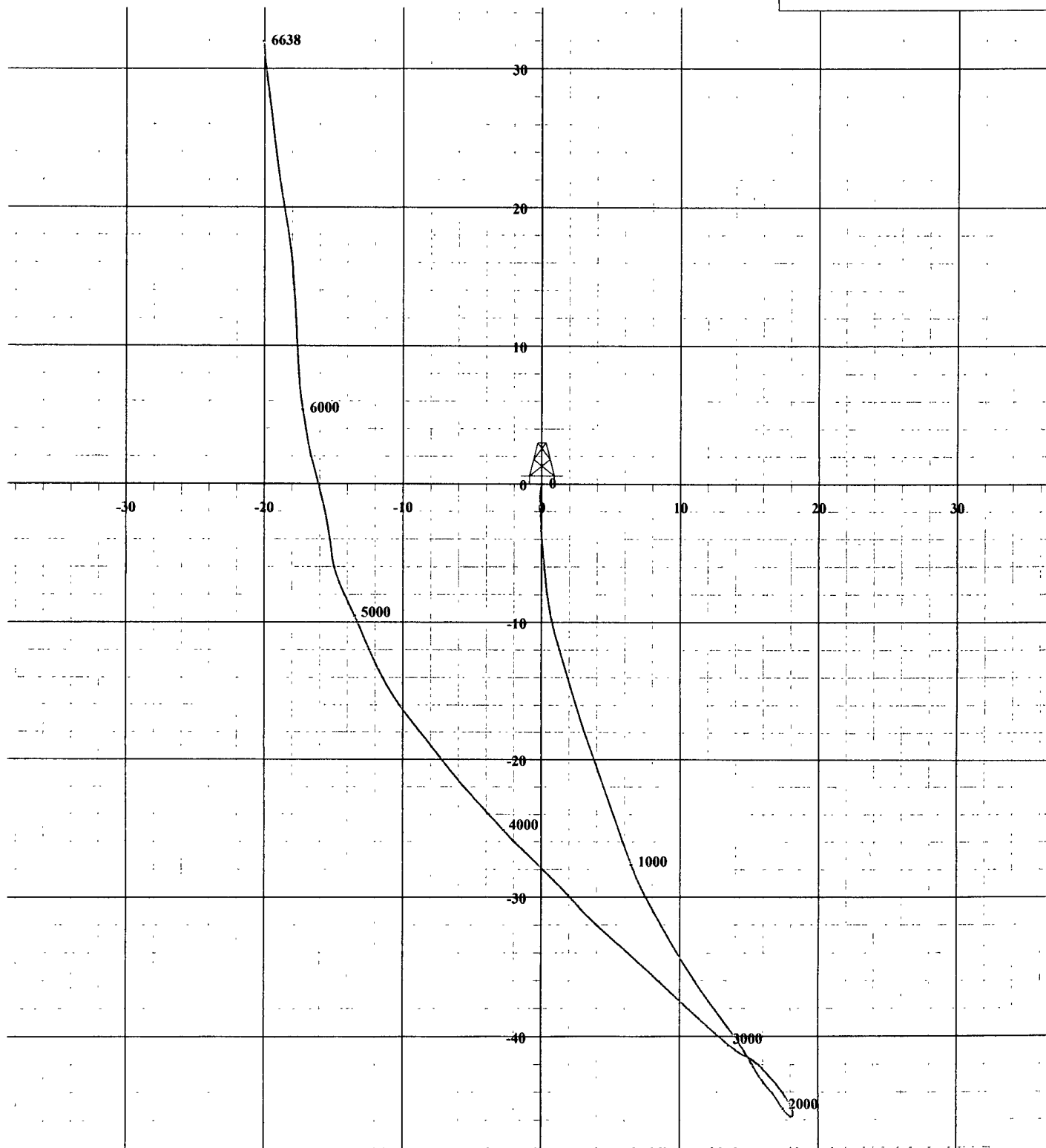


**Scientific
Drilling**

**Field: Oaklake
Site: Eddy County, NM
Well: Oaklake 23 Federal #1
Wellpath: VH - Job #32K0907769
Survey: 09/05/07**



South(-)/North(+) [10ft/in]



West(-)/East(+) [10ft/in]

Pathfinder Energy

Survey Report

Company: EOG Resources		Date: 09/18/2007	Time: 09:39:43	Page: 1
Field: Oak Lake		Co-ordinate(NE) Reference: Site: Oak Lake 23 Fed.Com #1, Grid North		
Site: Oak Lake 23 Fed Com #1		Vertical (TVD) Reference: SITE 0.0		
Well: Oak Lake 23 Fed Com #1		Section (VS) Reference: Well:(0.00N,0.00E,31.83Azi)		
Wellpath: Original		Survey Calculation Method: Minimum Curvature Db: Sybase		

Field: Oak Lake Eddy County, NM	
Map System: US State Plane Coordinate System 1927	Map Zone: New Mexico, Eastern Zone
Geo Datum: NAD27 (Clarke 1866)	Coordinate System: Site Centre
Sys Datum: Mean Sea Level	Geomagnetic Model: igrf2005

Site: Oak Lake 23 Fed Com #1 Eddy County, NM Section 23, T17-S, R30-E	
Site Position:	Northing: 660041.80 ft
From: Map	Easting: 620660.50 ft
Position Uncertainty: 0.00 ft	Latitude: 32 48 50.137 N
Ground Level: 3652.00 ft	Longitude: 103 56 26.130 W
	North Reference: Grid
	Grid Convergence: 0.21 deg

Well: Oak Lake 23 Fed Com #1		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 660041.80 ft	Latitude: 32 48 50.137 N	
+E/-W 0.00 ft	Easting: 620660.50 ft	Longitude: 103 56 26.130 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original		Drilled From: Surface	
Current Datum: SITE	Height 0.00 ft	Tie-on Depth: 0.00 ft	
Magnetic Data: 07/05/2007		Above System Datum: Mean Sea Level	
Field Strength: 49373 nT		Declination: 8.26 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.78 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	31.83

Survey: Pathfinder MWD	Start Date: 09/06/2007
Company: Pathfinder Energy	Engineer:
Tool:	Tied-to: From: Definitive Path

Survey: Pathfinder MWD

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	Tool/Comment
6640.00	3.18	355.92	6638.08	31.95	-20.05	16.57	0.00	0.00	0.00	Tie-in to Gyro @ 6640' MD
6651.00	3.39	357.32	6649.06	32.58	-20.09	17.09	2.01	1.88	12.77	KOP @ 6651' MD/TVD, Begin
6708.00	4.48	2.50	6705.93	36.49	-20.07	20.42	2.01	1.92	9.08	
6770.00	5.28	9.79	6767.70	41.72	-19.48	25.17	1.63	1.29	11.76	
6833.00	5.80	19.29	6830.41	47.58	-17.94	30.97	1.67	0.83	15.08	
6896.00	6.33	28.69	6893.06	53.63	-15.22	37.54	1.78	0.84	14.92	
6930.00	6.43	28.88	6926.85	56.94	-13.40	41.31	0.29	0.29	0.56	EOB @ 6930' MD, 5.96° INC
6959.00	6.51	29.04	6955.66	59.80	-11.82	44.58	0.29	0.29	0.55	
7021.00	6.42	35.90	7017.27	65.68	-8.08	51.55	1.25	-0.15	11.06	
7083.00	6.33	44.25	7078.89	70.94	-3.66	58.34	1.50	-0.15	13.47	
7145.00	6.07	45.04	7140.52	75.70	1.04	64.87	0.44	-0.42	1.27	
7206.00	6.33	39.94	7201.17	80.56	5.49	71.34	1.00	0.43	-8.36	
7268.00	6.07	38.71	7262.81	85.74	9.73	77.98	0.47	-0.42	-1.98	
7330.00	5.54	35.28	7324.49	90.74	13.51	84.22	1.02	-0.85	-5.53	
7393.00	5.63	31.41	7387.19	95.86	16.88	90.35	0.61	0.14	-6.14	
7456.00	5.80	32.56	7449.88	101.18	20.20	96.62	0.33	0.27	1.83	
7520.00	6.07	43.10	7513.53	106.38	24.25	103.17	1.75	0.42	16.47	
7584.00	5.89	46.53	7577.19	111.11	28.95	109.67	0.63	-0.28	5.36	
7646.00	5.89	46.18	7638.86	115.50	33.55	115.82	0.06	0.00	-0.56	
7710.00	5.98	40.64	7702.52	120.30	38.09	122.30	0.91	0.14	-8.66	
7774.00	6.16	37.39	7766.16	125.56	42.35	129.01	0.61	0.28	-5.08	
7837.00	6.16	37.92	7828.79	130.91	46.48	135.74	0.09	0.00	0.84	
7901.00	6.24	38.80	7892.42	136.33	50.77	142.60	0.19	0.12	1.37	
7963.00	6.24	36.07	7954.05	141.68	54.86	149.31	0.48	0.00	-4.40	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Oak Lake Site: Oak Lake 23 Fed Com #1 Well: Oak Lake 23 Fed Com #1 Wellpath: Original	Date: 09/18/2007 Time: 09:39:43 Page: 2 Co-ordinate(NE) Reference: Site: Oak Lake 23 Fed Com #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,31.83Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD

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	Tool/Comment
8027.00	5.98	43.54	8017.69	146.91	59.21	156.04	1.31	-0.41	11.67	
8091.00	6.33	45.56	8081.32	151.80	64.02	162.73	0.64	0.55	3.16	
8155.00	6.07	46.00	8144.95	156.62	68.98	169.44	0.41	-0.41	0.69	
8219.00	6.16	44.25	8208.58	161.43	73.81	176.08	0.32	0.14	-2.73	
8281.00	6.07	44.60	8270.23	166.14	78.43	182.52	0.16	-0.15	0.56	
8345.00	5.72	41.61	8333.89	170.94	82.92	188.97	0.73	-0.55	-4.67	
8409.00	5.63	40.29	8397.58	175.72	87.07	195.21	0.25	-0.14	-2.06	
8473.00	5.36	42.84	8461.28	180.30	91.13	201.25	0.57	-0.42	3.98	
8536.00	5.28	40.47	8524.01	184.67	95.02	207.01	0.37	-0.13	-3.76	
8599.00	5.63	36.95	8586.73	189.34	98.75	212.95	0.77	0.56	-5.59	
8663.00	6.16	36.42	8650.39	194.61	102.68	219.50	0.83	0.83	-0.83	
8725.00	5.72	37.04	8712.05	199.76	106.52	225.89	0.72	-0.71	1.00	
8788.00	5.72	38.27	8774.74	204.73	110.35	232.14	0.19	0.00	1.95	
8852.00	5.36	37.83	8838.44	209.59	114.16	238.28	0.57	-0.56	-0.69	
8916.00	4.92	36.51	8902.18	214.16	117.63	243.99	0.71	-0.69	-2.06	
8980.00	4.72	37.30	8965.96	218.46	120.86	249.35	0.33	-0.31	1.23	
9044.00	4.75	36.42	9029.74	222.69	124.02	254.61	0.12	0.05	-1.37	
9107.00	5.10	33.00	9092.51	227.13	127.10	260.01	0.72	0.56	-5.43	
9170.00	5.45	30.97	9155.24	232.05	130.16	265.80	0.63	0.56	-3.22	
9234.00	5.19	37.48	9218.97	236.95	133.49	271.72	1.03	-0.41	10.17	
9298.00	4.40	49.43	9282.74	240.84	137.11	276.94	1.98	-1.23	18.67	
9362.00	4.13	51.63	9346.57	243.87	140.79	281.45	0.49	-0.42	3.44	
9426.00	4.48	54.18	9410.38	246.76	144.62	285.93	0.62	0.55	3.98	
9490.00	4.31	57.14	9474.20	249.53	148.67	290.41	0.44	-0.27	4.62	
9553.00	6.68	52.64	9536.90	253.04	153.57	295.98	3.82	3.76	-7.14	
9617.00	6.60	49.39	9600.47	257.69	159.32	302.97	0.60	-0.12	-5.08	
9679.00	5.98	45.28	9662.10	262.29	164.32	309.50	1.24	-1.00	-6.63	
9741.00	5.45	40.43	9723.79	266.80	168.52	315.56	1.16	-0.85	-7.82	
9802.00	6.95	36.33	9784.43	271.98	172.59	322.10	2.56	2.46	-6.72	
9865.00	7.91	39.59	9846.90	278.39	177.61	330.20	1.66	1.52	5.17	
9926.00	8.79	38.51	9907.26	285.27	183.19	338.98	1.47	1.44	-1.77	
9988.00	7.74	36.69	9968.61	292.33	188.63	347.85	1.75	-1.69	-2.94	
10050.00	7.03	34.63	10030.10	298.80	193.28	355.80	1.22	-1.15	-3.32	
10113.00	6.33	34.31	10092.67	304.84	197.43	363.12	1.11	-1.11	-0.51	
10174.00	7.12	35.10	10153.25	310.71	201.50	370.25	1.30	1.30	1.30	
10221.08	6.35	35.34	10200.00	315.22	204.68	375.76	1.64	-1.64	0.51	Oak Lake 23 Fed Com #1 Ta
10238.00	6.07	35.44	10216.83	316.71	205.74	377.59	1.64	-1.64	0.60	
10299.00	6.16	34.27	10277.48	322.04	209.46	384.08	0.25	0.15	-1.92	
10361.00	7.83	35.08	10339.01	328.25	213.76	391.62	2.70	2.69	1.31	
10423.00	7.03	32.05	10400.49	334.92	218.20	399.63	1.44	-1.29	-4.89	
10486.00	6.42	33.42	10463.06	341.13	222.18	407.01	1.00	-0.97	2.17	
10547.00	6.07	35.47	10523.70	346.60	225.93	413.63	0.68	-0.57	3.36	
10609.00	5.28	36.20	10585.39	351.57	229.52	419.75	1.28	-1.27	1.18	
10672.00	5.80	36.66	10648.10	356.46	233.13	425.81	0.83	0.83	0.73	
10735.00	6.07	41.33	10710.76	361.52	237.23	432.27	0.88	0.43	7.41	
10797.00	6.16	39.01	10772.41	366.57	241.49	438.80	0.42	0.15	-3.74	
10853.00	5.63	39.89	10828.11	371.01	245.14	444.50	0.96	-0.95	1.57	
10922.00	5.36	38.09	10896.80	376.14	249.30	451.06	0.46	-0.39	-2.61	
10983.00	4.66	37.98	10957.56	380.34	252.59	456.35	1.15	-1.15	-0.18	
11045.00	5.10	34.54	11019.34	384.59	255.70	461.61	0.85	0.71	-5.55	
11108.00	5.01	34.04	11082.09	389.18	258.83	467.16	0.16	-0.14	-0.79	
11170.00	4.92	37.72	11143.86	393.52	261.97	472.51	0.53	-0.15	5.94	
11231.00	4.92	41.07	11204.64	397.57	265.29	477.69	0.47	0.00	5.49	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Oak Lake Site: Oak Lake 23 Fed Com #1 Well: Oak Lake 23 Fed Com #1 Wellpath: Original	Date: 09/18/2007 Time: 09:39:43 Page: 3 Co-ordinate(NE) Reference: Site: Oak Lake 23 Fed Com #1, Grid North Vertical (TVD) Reference: SITE 0.0 Section (VS) Reference: Well (0.00N,0.00E,31.83Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD

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	Tool/Comment
11293.00	6.24	39.83	11266.34	402.16	269.19	483.65	2.14	2.13	-2.00	
11356.00	6.42	39.04	11328.96	407.52	273.60	490.54	0.32	0.29	-1.25	
11419.00	6.42	39.19	11391.56	412.99	278.05	497.52	0.03	0.00	0.24	
11471.00	7.56	38.22	11443.17	417.93	282.00	503.81	2.20	2.19	-1.87	Final MWD Survey @ 11471'
11519.00	7.56	38.22	11490.76	422.89	285.91	510.08	0.00	0.00	0.00	Proj. to Bit @ 11519' MD

Targets

Name	Description Dip. Dir.	TVD ft	+N/-S ft	+E/-W ft	Map Northing ft	Map Easting ft	<---- Latitude ---->			<---- Longitude ---->		
							Deg	Min	Sec	Deg	Min	Sec
Oak Lake 23 Fed Com #1 Target		10200.00	320.60	199.00	660362.40	620859.50	32	48	53.302 N	103	56	23.784 W
PBHL		11500.00	427.42	282.70	660469.22	620943.20	32	48	54.356 N	103	56	22.799 W

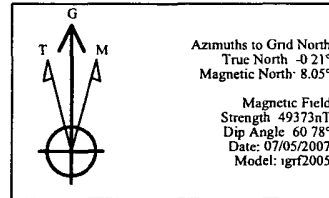
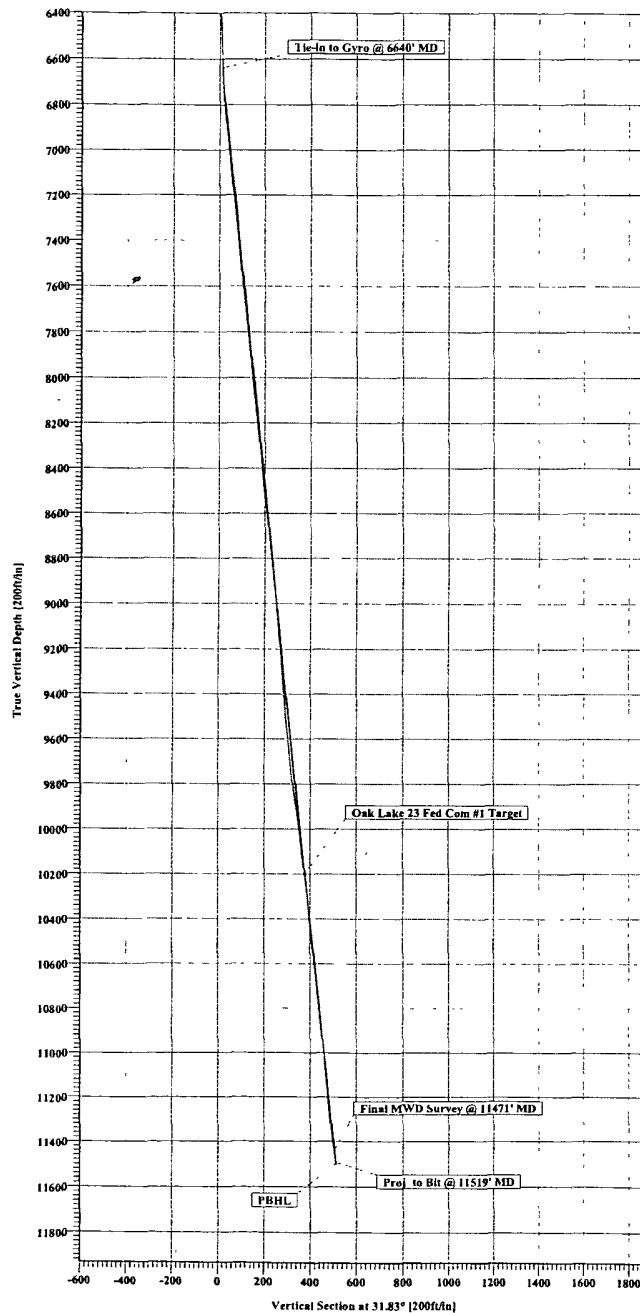
Annotation

MD ft	TVD ft	
6651.00	6649.06	KOP @ 6651' MD/TVD, Begin Build @ 2°/100'
6930.00	6926.85	EOB @ 6930' MD, 5.96° INC, Hold to TD
		TD @ 11527' MD, 11500' TVD
6640.00	6638.08	Tie-in to Gyro @ 6640' MD
11471.00	11443.17	Final MWD Survey @ 11471' MD
11519.00	11490.76	Proj. to Bit @ 11519' MD



Field: Oak Lake
Site: Oak Lake 23 Fed Com #1
Well: Oak Lake 23 Fed Com #1
Wellpath: Original
Survey: Pathfinder MWD

PATHFINDER



TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Shape
Oak Lake 23 Fed Com #1 Target	10200.00	320.60	199.00	Point
PBHL	11500.00	427.42	282.70	Point

ANNOTATIONS

No.	TVD	MD	Annotation
1	6649.06	6651.00	KOP @ 6651' MD/TVD, Begin Build @ 2°/100'
2	6926.85	6930.00	EOB @ 6930' MD, 5.96° INC, Hold to TD
3	6638.08	6640.00	Tie-in to Gyro @ 6640' MD
4	11443.17	11471.00	Final MWD Survey @ 11471' MD
5	11490.76	11519.00	Proj. to Bit @ 11519' MD

SITE DETAILS

Oak Lake 23 Fed Com #1
Eddy County, NM
Section 23, T17-S, R30-E
Site Centre Northing 660041.80
Easting 620660.50
Ground Level 3652.00
Positional Uncertainty 0.00
Convergence 0.21

WELLPATH DETAILS

Original

Rig Ref Datum	SITE	0.00ft
V Section Angle	Origin +N/-S	Origin +E/-W
31.83°	0.00	0.00
		Starting From TVD

Survey: Pathfinder MWD (Oak Lake 23 Fed Com #1/Original)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
72	11108.00	5.01	34.04	11082.09	389.18	258.83	0.16	-154.17	467.16
73	11170.00	4.92	37.72	11143.86	393.52	261.97	0.53	107.61	472.51
74	11231.00	4.92	41.07	11204.64	397.57	265.29	0.47	91.67	477.69
75	11293.00	6.24	39.83	11266.34	402.16	269.19	2.14	-5.84	483.65
76	11356.00	6.42	39.04	11328.96	407.52	273.60	0.32	-26.22	490.54
77	11419.00	6.42	39.19	11391.56	412.99	278.05	0.03	90.07	497.52
78	11471.00	7.56	38.22	11443.17	417.93	282.00	2.20	-6.39	503.81
79	11519.00	7.56	38.22	11490.76	422.89	285.91	0.00	0.00	510.08

