

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

MAR 24 2008

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

OCD-ARTESIA

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. MM 108950							
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff Resvr, Other		6. If Indian, Allottee or Tribe Name							
2. Name of Operator EOG Resources Inc.		7. Unit or CA Agreement Name and No.							
3. Address P.O. Box 2267 Midland, Texas 79702		8. Lease Name and Well No. Rio Grande 23 Fed 2H							
3a. Phone No. (include area code) 432 686 3689		9. API Well No. 30-015-34590 SI							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 660' FSL & 1880' FEL U/L O		10. Field and Pool, or Exploratory Cottonwood Creek; WC, West Gas							
At top prod. interval reported below		11. Sec., T., R., M., or Block and Survey or Area Sec 23, T16S, R24E							
At total depth 1414' FNL & 1862' FEL U/L G		12. County or Parish Eddy							
14. Date Spudded 3/14/06		13. State NM							
15. Date T.D. Reached 4/05/06		17. Elevations (DF, RKB, RT, GL)* 3629 GL							
16. Date Completed ☐ D & A ☒ Ready to Prod. 4/25/06		18. Total Depth. MD 7767							
19. Plug Back T.D.: MD 4654		20. Depth Bridge Plug Set: MD TVD							
21. Type Electric & Other Mechanical Logs Run (Submit copy of each)		22. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run ☒ No ☐ Yes (Submit report) Directional Survey? ☐ No ☒ Yes (Submit copy)							
23. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt (#ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
12 1/4	8 5/8	32		923		925 PP		Surface	
7 7/8	5 1/2	17		7767		645 C		Surface	
						445 ASC			
24. Tubing Record									
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2 3/8	4345								
25. Producing Intervals									
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status			
A) Wolfcamp			6450' - 7650'	0.46"	50	Producing			
B)			5000' - 6150'	0.42"	50	Producing			
C)									
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
5000' - 7650'	Frac w/ 49 bbls 15% HCL acid; 17620 bbls slick water; 96790 lbs 100 mesh sand; 149360 lbs 30/70 Brady sand; 116960 lbs 20/40 Brady sand.								
28. Production - Interval A									
Date First Produced 4/25/06	Test Date 5/8/06	Hours Tested 24	Test Production →	Oil BBL 0	Gas MCF 1103	Water BBL 44	Oil Gravity	Gas Gravity	Production Method Flowing
Choke Size Open	Tbg. Press. Flwg. SI 160	Csg. Press. 350	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status FGW	
28a. Production-Interval B									
Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method acc
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	ALEXIS C. SWORODA PETROLEUM ENGINEER

28b Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg. Press	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

28c. Production-Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity	Gas Gravity	Production Method
Choke Size	Tbg Press Flwg SI	Csg. Press	24 Hr.	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
				San Andres	442'
				Glorieta	1742'
				Clear Fork	2395'
				Tubb	3063'
				Abo	3712'
				Wolfcamp Ls	4680'

32. Additional remarks (include plugging procedure):

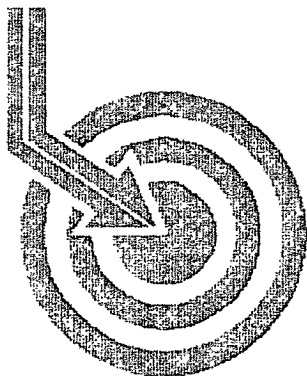
33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd)
 ☐ Geologic Report
 ☐ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Stan WagnerTitle Regulatory AnalystSignature Stan WagnerDate 5/10/06

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

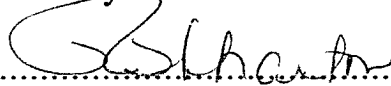


Scientific Drilling

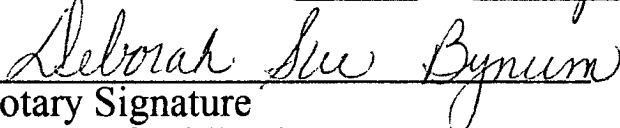
E.O.G.

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Rio Grande 23 Fed #2H
Wellpath: VH - Job #32K0306232
Survey: 03/21/06

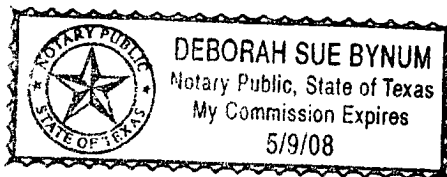
This survey is correct to the best of my knowledge
and is supported by actual field data.

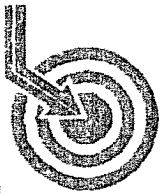
.....Company Representative

Notorized this date 19th of April, 2006.


Notary Signature

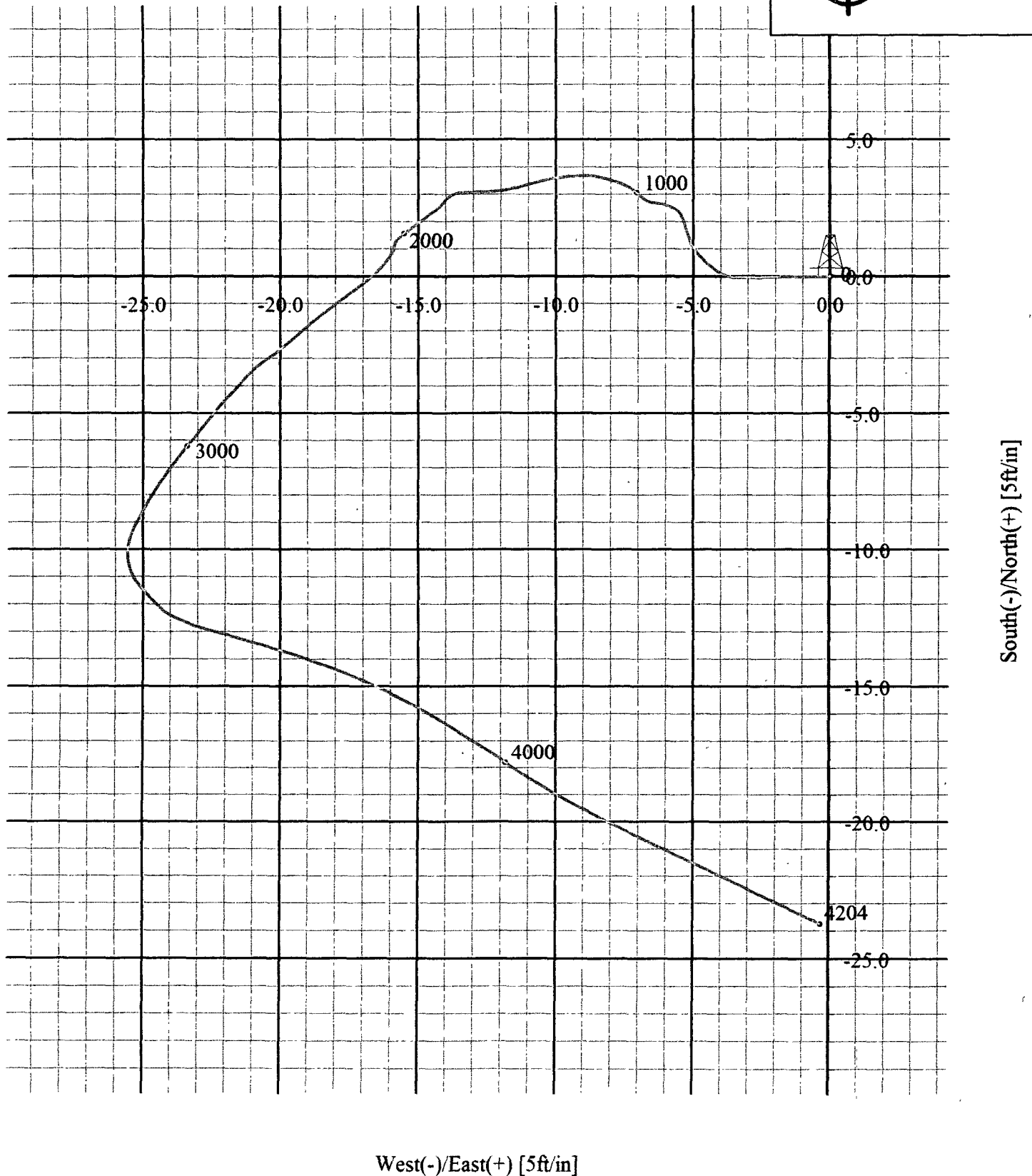
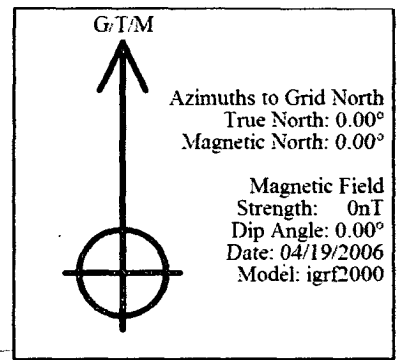
County of Midland
State of Texas





**Scientific
Drilling**

Field: Cottonwood Creek
Site: Eddy County, NM
Well: Rio Grande 23 Fed #2H
Wellpath: VH - Job #32K0306232
Survey: 03/21/06



Pathfinder

Survey Report

Page 1
Job No: 101005351WTWT
Date: 4/6/2006
Time: 10:16 am
Wellpath ID: 10100535
Date Created: 3/18/2006
Last Revision: 4/6/2006

Calculated using the Minimum Curvature Method
Computed using PDS VER2.2.6
Vertical Section Plane: 0.16 deg.

Survey Reference: WELLHEAD
Vertical Section Reference: WELLHEAD
Closure Reference: WELLHEAD
TVD Reference: WELLHEAD

EOG RESOURCES
RIO GRANDE 23 FED #2-H
JW #3
RIO GRANDE 23 FED #2-H
0603

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets		Build Rate (dg/100ft)	DLS (dg/100ft)
					(ft)	(ft)		
4205.00	4.92	116.77	-23.80	4204.10	23.80 S	0.30W	0.00	0.00
4223.00	5.19	116.56	-24.51	4222.03	24.51 S	1.12 E	1.50	1.50
4255.00	5.63	107.77	-25.63	4253.89	25.64 S	3.91 E	1.38	2.93
4287.00	7.21	81.14	-25.79	4285.69	25.81 S	7.39 E	4.94	10.40
4318.00	9.67	61.72	-24.24	4316.36	24.27 S	11.60 E	7.94	12.04
4350.00	13.45	51.52	-20.64	4347.71	20.68 S	16.89 E	11.81	13.39
4382.00	17.76	45.55	-14.88	4378.52	14.95 S	23.29 E	13.47	14.36
4414.00	22.07	41.86	-6.96	4408.61	7.05 S	30.79 E	13.47	14.02
4446.00	26.64	38.34	3.17	4437.75	3.06 N	39.25 E	14.28	14.98
4477.00	30.78	35.09	15.14	4464.94	15.01 N	48.13 E	13.35	14.27
4509.00	34.91	31.49	29.69	4491.82	29.53 N	57.62 E	12.91	14.27
4541.00	39.13	27.88	46.46	4517.36	46.27 N	67.13 E	13.19	14.83
4573.00	43.09	24.28	65.38	4541.47	65.17 N	76.35 E	12.37	14.41
4604.00	47.13	21.38	85.65	4563.35	85.41 N	84.85 E	13.03	14.62
4636.00	51.00	18.21	108.41	4584.31	108.15 N	93.02 E	12.09	14.22
4668.00	55.13	15.49	132.91	4603.54	132.63 N	100.42 E	12.91	14.58
4700.00	59.09	12.59	158.99	4620.92	158.69 N	106.92 E	12.37	14.53
4732.00	62.34	8.81	186.42	4636.57	186.11 N	112.08 E	10.16	14.46
4763.00	65.69	5.56	214.07	4650.16	213.75 N	115.56 E	10.81	14.34
4795.00	69.56	2.83	243.58	4662.34	243.25 N	117.71 E	12.09	14.44
4827.00	74.04	0.37	273.96	4672.33	273.63 N	118.55 E	14.00	15.79

Pathfinder

Survey Report

Page 2
Date: 4/6/2006
Wellpath ID: 10100535

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)
4859.00	76.94	358.35	304.93	4680.35	304.60 N	118.20 E	9.06	10.93
4890.00	79.84	357.74	335.27	4686.59	334.94 N	117.16 E	9.35	9.55
4922.00	82.48	357.74	366.86	4691.50	366.54 N	115.92 E	8.25	8.25
4954.00	84.94	358.09	398.64	4695.01	398.32 N	114.76 E	7.69	7.76
4986.00	86.61	358.00	430.53	4697.37	430.21 N	113.67 E	5.22	5.23
5018.00	88.46	357.38	462.47	4698.74	462.16 N	112.38 E	5.78	6.10
5049.00	90.66	357.03	493.42	4698.98	493.12 N	110.87 E	7.10	7.19
5081.00	91.10	357.12	525.37	4698.49	525.07 N	109.24 E	1.37	1.40
5118.00	91.45	356.95	562.31	4697.67	562.01 N	107.32 E	0.95	1.05
5150.00	91.71	357.12	594.25	4696.78	593.96 N	105.67 E	0.81	0.97
5182.00	92.24	357.47	626.19	4695.68	625.90 N	104.16 E	1.66	1.98
5214.00	90.66	356.59	658.13	4694.87	657.85 N	102.50 E	-4.94	5.65
5245.00	89.34	355.54	689.05	4694.87	688.77 N	100.38 E	-4.26	5.44
5277.00	88.90	355.19	720.93	4695.36	720.66 N	97.79 E	-1.37	1.76
5309.00	89.60	355.89	752.83	4695.78	752.56 N	95.30 E	2.19	3.09
5341.00	90.48	356.33	784.75	4695.76	784.49 N	93.13 E	2.75	3.07
5372.00	90.40	355.98	815.67	4695.52	815.42 N	91.05 E	-0.26	1.16
5404.00	90.66	356.15	847.59	4695.23	847.34 N	88.86 E	0.81	0.97
5436.00	91.01	356.59	879.51	4694.76	879.27 N	86.83 E	1.09	1.76
5468.00	90.92	356.51	911.45	4694.22	911.21 N	84.91 E	-0.28	0.38
5500.00	90.92	356.15	943.37	4693.71	943.14 N	82.86 E	0.00	1.12
5531.00	91.01	355.71	974.28	4693.18	974.06 N	80.66 E	0.29	1.45
5563.00	91.36	355.19	1006.17	4692.52	1005.95 N	78.12 E	1.09	1.96
5595.00	91.19	355.45	1038.04	4691.81	1037.84 N	75.51 E	-0.53	0.97
5627.00	91.36	355.89	1069.94	4691.10	1069.74 N	73.09 E	0.53	1.47
5659.00	90.66	356.33	1101.85	4690.54	1101.66 N	70.92 E	-2.19	2.58
5690.00	90.48	356.33	1132.78	4690.23	1132.59 N	68.94 E	-0.58	0.58
5722.00	90.92	356.68	1164.71	4689.84	1164.53 N	66.99 E	1.37	1.76
5754.00	91.45	356.95	1196.65	4689.17	1196.48 N	65.21 E	1.66	1.86
5786.00	91.45	356.86	1228.59	4688.36	1228.42 N	63.48 E	0.00	0.28
5817.00	91.45	356.07	1259.52	4687.58	1259.35 N	61.57 E	0.00	2.55
5849.00	90.48	355.45	1291.42	4687.04	1291.26 N	59.21 E	-3.03	3.60
5881.00	90.13	355.19	1323.30	4686.87	1323.15 N	56.60 E	-1.09	1.36
5913.00	90.31	354.66	1355.17	4686.75	1355.02 N	53.77 E	0.56	1.75

Pathfinder

Survey Report

Page 3
Date: 4/6/2006
Wellpath ID: 10100535

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)
5945.00	90.66	354.31	1387.01	4686.48	1386.87 N	50.69 E	1.09	1.55
5976.00	90.22	353.78	1417.83	4686.24	1417.71 N	47.47 E	-1.42	2.22
6008.00	90.57	353.87	1449.64	4686.02	1449.52 N	44.03 E	1.09	1.13
6040.00	90.48	354.83	1481.47	4685.72	1481.36 N	40.88 E	-0.28	3.01
6072.00	90.66	354.66	1513.33	4685.41	1513.23 N	37.95 E	0.56	0.77
6104.00	89.87	354.66	1545.18	4685.26	1545.09 N	34.97 E	-2.47	2.47
6135.00	89.86	354.57	1576.03	4685.33	1575.95 N	32.06 E	-0.03	0.29
6172.00	89.43	354.83	1612.86	4685.56	1612.79 N	28.65 E	-1.16	1.36
6204.00	89.25	356.24	1644.76	4685.93	1644.69 N	26.16 E	-0.56	4.44
6235.00	89.25	356.51	1675.69	4686.33	1675.63 N	24.20 E	0.00	0.87
6267.00	89.60	357.38	1707.63	4686.66	1707.58 N	22.49 E	1.09	2.93
6298.00	89.96	358.09	1738.61	4686.77	1738.55 N	21.27 E	1.16	2.57
6329.00	90.84	359.58	1769.60	4686.56	1769.55 N	20.64 E	2.84	5.58
6360.00	91.28	0.20	1800.59	4685.98	1800.54 N	20.58 E	1.42	2.45
6391.00	91.71	0.64	1831.58	4685.18	1831.53 N	20.80 E	1.39	1.98
6422.00	91.80	0.11	1862.56	4684.23	1862.51 N	21.01 E	0.29	1.73
6453.00	90.75	0.20	1893.56	4683.54	1893.50 N	21.09 E	-3.39	3.40
6485.00	90.66	359.58	1925.55	4683.14	1925.50 N	21.03 E	-0.28	1.96
6516.00	88.90	0.28	1956.55	4683.26	1956.50 N	20.99 E	-5.68	6.11
6547.00	88.64	0.46	1987.54	4683.93	1987.49 N	21.19 E	-0.84	1.02
6579.00	88.90	0.90	2019.53	4684.62	2019.48 N	21.57 E	0.81	1.60
6610.00	89.43	1.08	2050.53	4685.07	2050.47 N	22.11 E	1.71	1.81
6641.00	89.87	1.08	2081.52	4685.26	2081.47 N	22.69 E	1.42	1.42
6672.00	90.13	1.25	2112.52	4685.26	2112.46 N	23.32 E	0.84	1.00
6704.00	90.57	0.90	2144.51	4685.06	2144.46 N	23.92 E	1.38	1.76
6735.00	90.75	0.81	2175.51	4684.70	2175.45 N	24.38 E	0.58	0.65
6766.00	91.01	0.64	2206.50	4684.23	2206.44 N	24.78 E	0.84	1.00
6798.00	91.10	0.81	2238.50	4683.64	2238.44 N	25.18 E	0.28	0.60
6829.00	91.80	0.99	2269.48	4682.85	2269.42 N	25.67 E	2.26	2.33
6860.00	92.24	1.16	2300.46	4681.76	2300.40 N	26.25 E	1.42	1.52
6892.00	91.19	0.72	2332.44	4680.80	2332.38 N	26.77 E	-3.28	3.56
6923.00	90.57	0.46	2363.44	4680.33	2363.37 N	27.09 E	-2.00	2.17
6954.00	90.48	0.02	2394.44	4680.04	2394.37 N	27.22 E	-0.29	1.45
6986.00	90.75	359.85	2426.44	4679.70	2426.37 N	27.19 E	0.84	1.00

Pathfinder

Survey Report

Page 4
Date: 4/6/2006
Wellpath ID: 10100535

Measured Depth (ft)	Incl (deg.)	Drift Dir. (deg.)	Vertical Section (ft)	TVD (ft)	T O T A L Rectangular Offsets (ft)		Build Rate (dg/100ft)	DLS (dg/100ft)
7017.00	91.28	0.11	2457.43	4679.15	2457.36 N	27.17 E	1.71	1.90
7048.00	91.54	0.11	2488.42	4678.39	2488.35 N	27.23 E	0.84	0.84
7079.00	92.15	0.02	2519.40	4677.39	2519.34 N	27.27 E	1.97	1.99
7111.00	91.80	359.14	2551.38	4676.29	2551.32 N	27.03 E	-1.09	2.96
7142.00	91.80	359.32	2582.36	4675.31	2582.30 N	26.62 E	0.00	0.58
7173.00	92.33	359.14	2613.34	4674.20	2613.28 N	26.20 E	1.71	1.81
7205.00	92.68	358.97	2645.30	4672.80	2645.24 N	25.68 E	1.09	1.22
7236.00	90.48	359.23	2676.28	4671.94	2676.22 N	25.19 E	-7.10	7.15
7268.00	89.87	359.05	2708.28	4671.85	2708.22 N	24.71 E	-1.91	1.99
7298.00	90.31	358.97	2738.27	4671.80	2738.22 N	24.19 E	1.47	1.49
7330.00	91.28	359.49	2770.27	4671.35	2770.21 N	23.76 E	3.03	3.44
7361.00	91.89	359.85	2801.25	4670.50	2801.20 N	23.58 E	1.97	2.28
7392.00	91.71	359.67	2832.24	4669.52	2832.18 N	23.45 E	-0.58	0.82
7423.00	91.80	359.67	2863.22	4668.57	2863.17 N	23.27 E	0.29	0.29
7454.00	92.07	359.67	2894.20	4667.53	2894.15 N	23.09 E	0.87	0.87
7486.00	91.89	359.49	2926.18	4666.42	2926.13 N	22.86 E	-0.56	0.80
7517.00	91.36	358.61	2957.16	4665.54	2957.11 N	22.35 E	-1.71	3.31
7548.00	91.45	358.70	2988.14	4664.78	2988.09 N	21.62 E	0.29	0.41
7580.00	92.59	358.97	3020.11	4663.65	3020.07 N	20.97 E	3.56	3.66
7611.00	92.86	359.23	3051.07	4662.18	3051.03 N	20.48 E	0.87	1.21
7642.00	93.12	359.05	3082.03	4660.56	3081.98 N	20.02 E	0.84	1.02
7674.00	93.30	359.05	3113.97	4658.77	3113.93 N	19.49 E	0.56	0.56
7705.00	93.47	358.97	3144.91	4656.94	3144.87 N	18.95 E	0.55	0.61
PROJECTION TO TARGET DEPTH								
7767.00	93.47	358.97	3206.78	4653.19	3206.74 N	17.84 E	0.00	0.00