

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD-ARTESIA

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		5. Lease Serial No. NNM 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. Colorado B 22 Fed 1H							
3a. Phone No. (include area code) 432 686 3689		9. API Well No. 30-015-34712							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 1881' FSL & 660' FEL U/L I At top prod. interval reported below At total depth 1886' FSL & 744' FWL U/L I		10. Field and Pool, or Exploratory Cottonwood Creek, WC, West							
14. Date Spudded 4/11/06		11. Sec., T., R., M., or Block and Survey or Area Sec 22, T16S, R24E							
15. Date T.D. Reached 5/05/06		12. County or Parish Eddy							
16. Date Completed ☐ D & A ☒ Ready to Prod. 6/26/06		13. State NM							
18. Total Depth MD TVD 4478		17. Elevations (DF, RKB, RT, GL)* 3642' GL							
19. Plug Back T.D.: MD TVD		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
11	7	23		906		1125 PP		Surface	
6 1/8	4 1/2	11.6		8145		400 C		Surface	
						250 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	4392								
25. Producing Intervals					26. Perforation Record				
Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf Status			
A) Wolfcamp	4558		4900' - 5650'	0.42"	33	Producing			
B)			6000' - 6800'	0.42"	33	Producing			
C)			7195' - 7898'	0.48"	24	Producing			
D)									
27. Acid, Fracture, Treatment, Cement Squeeze, Etc.									
Depth Interval	Amount and Type of Material								
4900'-7898'	Frac w/ 16538 bbls slick water; 43320 lbs 40/70 Ottawa sand; 681050 lbs 20/40 Ottawa sand.								
28. Production - Interval A									
Date First Produced 6/26/06	Test Date 7/13/06	Hours Tested 24	Test Production →	Oil BBL 0	Gas MCF 1064	Water BBL 31	Oil Gravity	Gas Gravity .670	Production Method Flowing
Choke Size Open	Tbg. Press. Flwg. SI 235	Csg. Press. 440	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status PGW	ACCEPTED FOR RECORD JUL 25 2006 ALEXIS C. SWOBODA PETROLEUM ENGINEER
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
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

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

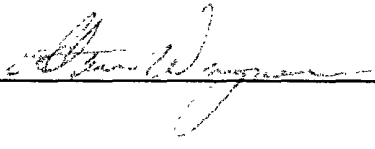
Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas Depth
				San Andres	337'
				Glorieta	1640'
				Clear Fork	2300'
				Tubb	2960'
				Abo	3625'
				Abo Carbonate	3945'
				Wolfcamp Ls	4558'

32. Additional remarks (include plugging procedure):

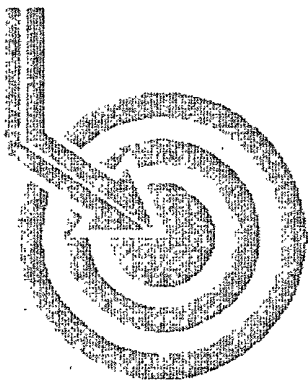
33 Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ 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 Date 7/18/06

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: Colorado
Site: Eddy County, NM
Well: Colorado B 22 Fed #1H
Wellpath: VH - Job #32K0406310
Survey: 04/19/06

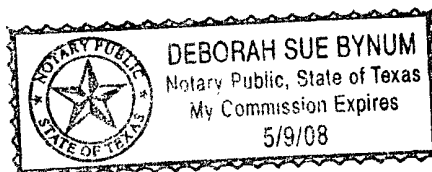
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Richard*.....Company Representative

Notorized this date 2nd of June, 2006.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

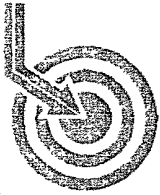
Scientific Drilling International Survey Report

Company: E.O.G.	Date: 06/01/2006	Time: 19:42:01	Page: 1
Field: Colorado	Co-ordinate(NE) Reference:	Site: Eddy County, NM, Grid North	
Site: Eddy County, NM	Vertical (TVD) Reference:	SITE: 0.0	
Well: Colorado B 22 Fed #1H	Section (VS) Reference:	Well: (0.00N,0.00E,269.73Azi)	
Wellpath: VH - Job #32K0406310	Survey Calculation Method: Minimum Curvature	Db: Sybase	

Survey: 04/19/06	Start Date: 04/19/2006
KSRG 0'-4530'	
Company: Scientific Drilling Internatio	Engineer: Guebara w/P&M
Tool: Keeper, Keeper Surface Readout Gyro	Tied-to: From Surface

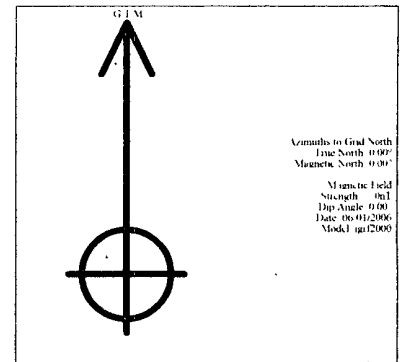
Survey

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	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.36	42.75	100.00	-0.21	0.23	0.21	0.36	0.31	42.75
200.00	0.46	35.64	200.00	-0.66	0.79	0.66	0.11	1.03	39.98
300.00	0.46	35.38	299.99	-1.13	1.44	1.13	0.00	1.83	38.02
400.00	0.48	39.95	399.99	-1.64	2.09	1.63	0.04	2.65	37.92
500.00	0.47	84.14	499.99	-2.32	2.45	2.30	0.36	3.37	43.21
600.00	0.55	111.45	599.98	-3.17	2.32	3.16	0.25	3.92	53.71
700.00	0.48	104.00	699.98	-4.02	2.04	4.01	0.10	4.50	63.02
800.00	0.26	95.00	799.98	-4.65	1.92	4.64	0.23	5.03	67.53
900.00	0.16	95.32	899.98	-5.02	1.89	5.01	0.10	5.35	69.36
1000.00	0.38	111.35	999.98	-5.47	1.75	5.46	0.23	5.73	72.18
1100.00	0.08	6.50	1099.97	-5.78	1.70	5.77	0.41	6.02	73.58
1200.00	0.41	299.85	1199.97	-5.48	1.95	5.47	0.38	5.81	70.43
1300.00	0.44	302.04	1299.97	-4.85	2.33	4.84	0.04	5.37	64.34
1400.00	0.49	321.44	1399.97	-4.26	2.86	4.25	0.16	5.12	56.03
1500.00	0.42	335.95	1499.96	-3.85	3.53	3.83	0.13	5.21	47.35
1600.00	0.42	327.83	1599.96	-3.51	4.18	3.49	0.06	5.44	39.88
1700.00	0.88	284.73	1699.96	-2.58	4.68	2.56	0.64	5.33	28.63
1800.00	1.43	293.54	1799.94	-0.70	5.37	0.67	0.58	5.42	7.10
1900.00	1.49	292.86	1899.90	1.64	6.38	-1.67	0.06	6.59	345.30
2000.00	1.26	302.82	1999.87	3.76	7.48	-3.80	0.33	8.39	333.09
2100.00	1.21	304.02	2099.85	5.56	8.67	-5.60	0.06	10.32	327.15
2200.00	1.28	307.01	2199.83	7.32	9.93	-7.36	0.09	12.36	323.44
2300.00	1.50	293.88	2299.80	9.40	11.13	-9.45	0.38	14.60	319.67
2400.00	1.78	282.81	2399.76	12.10	12.01	-12.16	0.42	17.09	314.63
2500.00	1.67	269.03	2499.71	15.07	12.32	-15.13	0.43	19.51	309.17
2600.00	1.47	263.19	2599.67	17.80	12.15	-17.86	0.26	21.60	304.22
2700.00	0.99	255.56	2699.65	19.92	11.78	-19.97	0.50	23.19	300.53
2800.00	0.79	263.99	2799.64	21.44	11.49	-21.50	0.24	24.38	298.13
2900.00	0.56	243.21	2899.63	22.57	11.20	-22.62	0.33	25.24	296.34
3000.00	0.42	232.83	2999.63	23.30	10.76	-23.35	0.17	25.71	294.73
3100.00	0.43	241.61	3099.63	23.93	10.36	-23.98	0.07	26.12	293.36
3200.00	0.21	203.46	3199.62	24.33	10.01	-24.38	0.29	26.35	292.32
3300.00	0.30	98.70	3299.62	24.15	9.80	-24.20	0.40	26.11	292.05
3400.00	0.49	84.34	3399.62	23.47	9.80	-23.52	0.21	25.48	292.63
3500.00	0.66	77.45	3499.62	22.48	9.97	-22.53	0.18	24.64	293.87
3600.00	1.64	97.70	3599.60	20.50	9.90	-20.55	1.05	22.81	295.73
3700.00	2.69	129.59	3699.53	17.28	8.22	-17.32	1.56	19.17	295.37
3800.00	2.50	161.88	3799.43	14.81	4.65	-14.83	1.46	15.54	287.39
3900.00	1.75	159.91	3899.36	13.63	1.14	-13.63	0.75	13.68	274.77
4000.00	1.47	130.27	3999.32	12.13	-1.13	-12.13	0.87	12.18	264.70
4100.00	1.54	117.54	4099.29	9.97	-2.58	-9.96	0.34	10.29	255.50
4200.00	1.58	124.77	4199.25	7.65	-3.98	-7.64	0.20	8.61	242.45
4300.00	1.43	118.46	4299.22	5.43	-5.36	-5.41	0.22	7.62	225.22
4400.00	1.04	110.59	4399.19	3.49	-6.28	-3.46	0.42	7.17	208.83
4500.00	0.72	113.31	4499.18	2.06	-6.85	-2.03	0.32	7.14	196.48
4530.00	0.75	109.83	4529.18	1.70	-6.99	-1.67	0.17	7.19	193.42

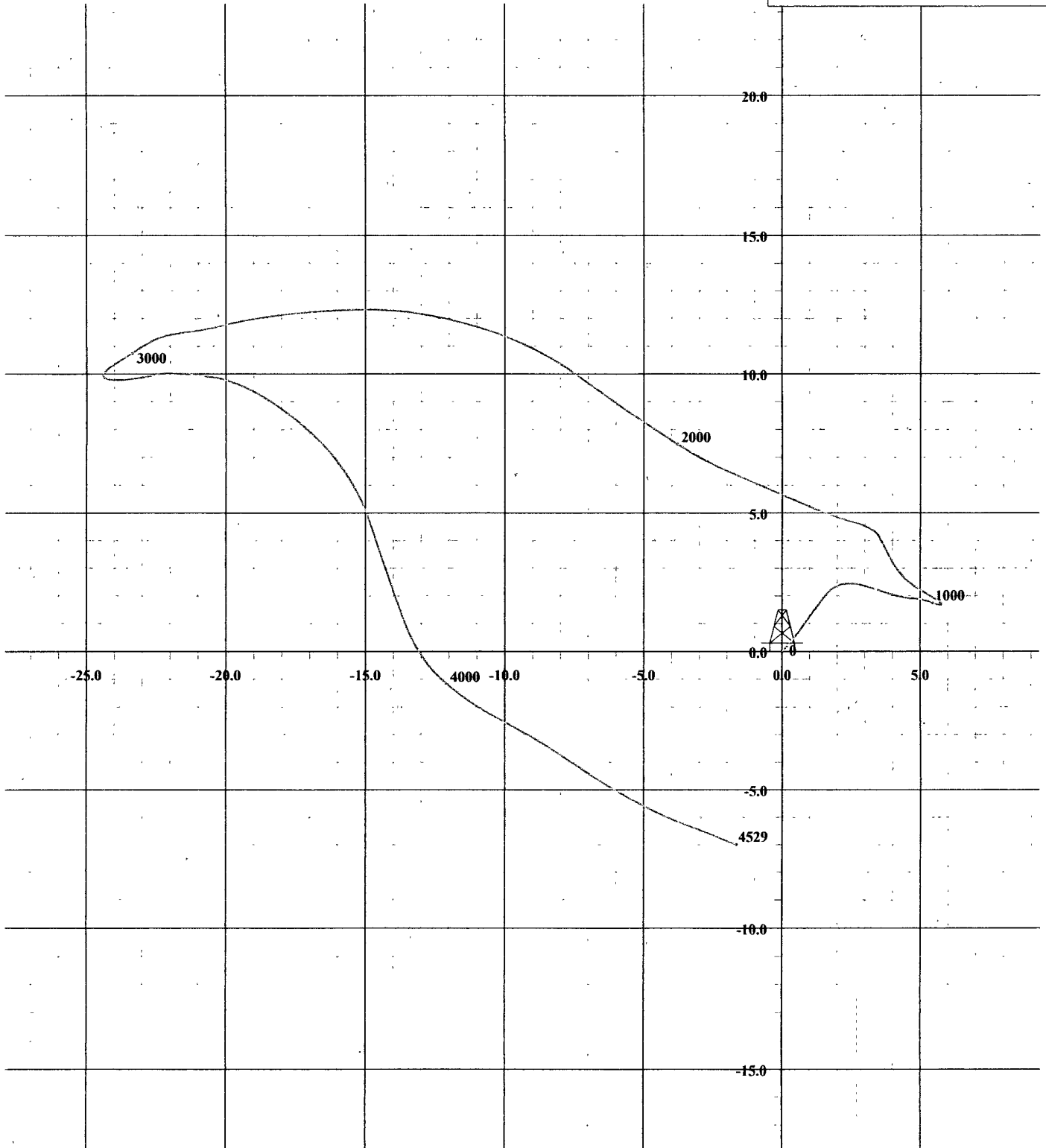


Scientific
Drilling

Field: Colorado
Site: Eddy County, NM
Well: Colorado B 22 Fed #1H
Wellpath: VH - Job #32K0406310
Survey: 04/19/06



South(-)/North(+) [5ft/in]



West(-)/East(+) [5ft/in]



Field: Thames Field
Site: Colorado B22 Fed #1-H
Well: Colorado B 22 Fed #1-H
Wellpath: Original Hole
Survey: Pathfinder MWD Surveys

PATHFINDER

SITE DETAILS

Colorado B22 Fed #1-H
Eddy County, New Mexico
1880' FSL 660' FEL Sec 22, T16S, R24E

Site Centre Northing
Easting 693404.40
427452.20

Water Depth 0.00
Positional Uncertainty 0.00
Convergence -0.13

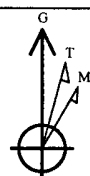
WELLPATH DETAILS

Original Hole

Rig
Ref Datum Mean Sea Level 0 00ft
V Section
Angle Origin Origin Starting
270 00° 0 00 +N/-S +E/-W From TVD

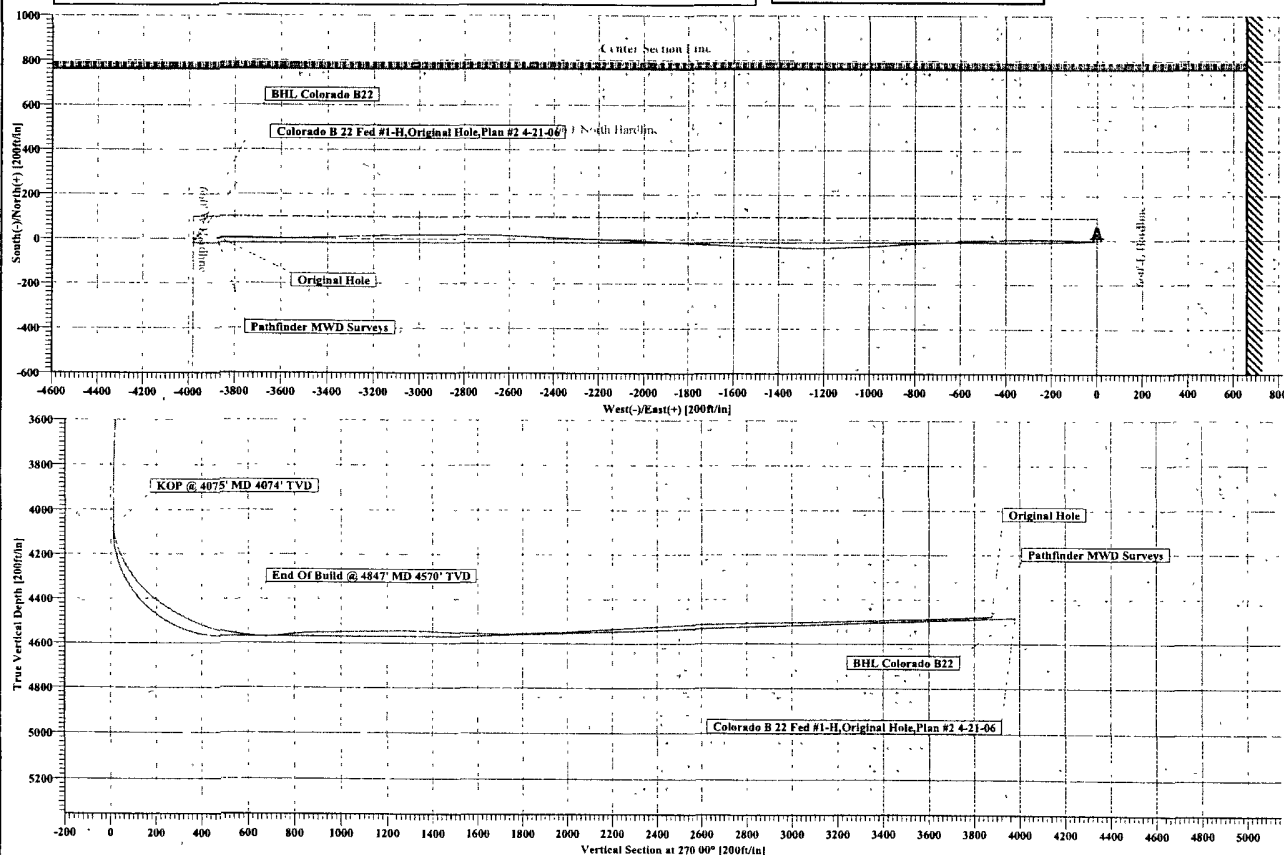
TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
BHL Colorado B22	4484.15	-18.64	-3979.00	693385.76	423473.20	Point



Azimuths to Grid North
True North 0 13°
Magnetic North 8 82°

Magnetic Field
Strength 49469nT
Dip Angle: 60 77°
Date 4/20/2006
Model: igrf2005



Survey Pathfinder MWD Surveys (Colorado B 22 Fed #1-H/Original Hole)

No	MD	Inc	Az	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
60	5877.00	88.81	271.88	4554.74	-28.80	-1571.25	2.46	27.21	1571.25
61	5909.00	88.81	272.05	4555.40	-27.71	-1603.22	0.53	90.00	1603.22
62	5941.00	88.81	272.49	4556.07	-26.44	-1635.19	1.37	90.00	1635.19
63	5973.00	88.64	272.32	4556.78	-25.10	-1667.15	0.75	-135.01	1667.15
64	6005.00	88.72	272.58	4557.52	-23.73	-1699.12	0.85	72.90	1699.12
65	6037.00	90.31	273.20	4557.79	-22.11	-1731.07	5.33	21.31	1731.07
66	6068.00	90.75	273.20	4557.50	-20.38	-1762.02	1.42	0.00	1762.02
67	6132.00	92.86	274.16	4555.49	-16.28	-1825.86	3.62	24.44	1825.86
68	6164.00	93.56	273.63	4553.69	-14.11	-1857.73	2.74	-37.07	1857.73
69	6195.00	91.63	272.93	4552.29	-12.34	-1888.65	6.62	-160.07	1888.65
70	6227.00	91.89	272.76	4551.31	-10.75	-1920.59	0.97	-33.16	1920.59
71	6259.00	91.36	272.40	4550.40	-9.31	-1952.55	2.00	-145.82	1952.55
72	6290.00	92.33	272.23	4549.40	-8.06	-1983.51	3.18	-9.93	1983.51
73	6322.00	94.09	272.23	4547.61	-6.82	-2015.43	5.50	0.00	2015.43
74	6355.00	94.53	272.23	4545.13	-5.53	-2048.31	1.33	0.00	2048.31
75	6386.00	94.00	272.14	4542.82	-4.36	-2079.20	1.73	-170.39	2079.20
76	6418.00	94.00	272.32	4540.59	-3.11	-2111.10	0.56	89.99	2111.10
77	6450.00	94.26	272.32	4538.29	-1.82	-2142.99	0.81	0.00	2142.99
78	6482.00	93.83	272.40	4536.03	-0.51	-2174.89	1.37	169.48	2174.89
79	6512.00	93.65	272.23	4534.07	0.70	-2204.80	0.82	-136.69	2204.80
80	6544.00	93.03	271.70	4532.21	1.80	-2236.72	2.55	-139.51	2236.72
81	6576.00	93.39	271.88	4530.42	2.79	-2268.66	1.26	26.52	2268.66
82	6608.00	92.95	272.14	4528.65	3.92	-2300.59	1.60	149.45	2300.59
83	6640.00	93.12	272.40	4526.95	5.18	-2332.52	0.97	56.78	2332.52
84	6671.00	92.62	271.88	4525.40	6.34	-2363.46	2.33	-133.90	2363.46
85	6703.00	92.51	271.96	4523.97	7.41	-2395.41	0.42	144.00	2395.41
86	6735.00	93.03	272.14	4522.42	8.55	-2427.35	1.72	19.07	2427.35
87	6767.00	92.77	272.23	4520.80	9.77	-2459.29	0.86	160.93	2459.29
88	6799.00	92.68	272.58	4519.28	11.11	-2491.22	1.13	104.43	2491.22
89	6831.00	93.21	272.40	4517.64	12.50	-2523.15	1.75	-18.73	2523.15
90	6863.00	92.24	272.40	4516.12	13.84	-2555.08	3.03	180.00	2555.08
91	6894.00	91.54	272.14	4515.09	15.07	-2586.04	2.41	-159.63	2586.04
92	6926.00	91.98	272.58	4514.11	16.38	-2618.00	1.94	44.98	2618.00
93	6958.00	90.40	271.35	4513.45	17.48	-2649.97	6.26	-142.09	2649.97
94	6990.00	91.28	271.09	4512.98	18.16	-2681.96	2.87	-16.46	2681.96
95	7021.00	91.54	271.09	4512.22	18.75	-2712.95	0.84	0.00	2712.95
96	7053.00	91.54	270.38	4511.36	19.16	-2744.93	2.22	-89.99	2744.93
97	7085.00	91.89	270.03	4510.40	19.28	-2776.92	1.55	-44.98	2776.92
98	7117.00	91.45	270.38	4509.46	19.39	-2808.90	1.76	141.51	2808.90
99	7181.00	91.45	270.03	4507.85	19.62	-2872.88	0.55	-90.00	2872.88
100	7245.00	91.19	269.77	4506.37	19.51	-2936.87	0.57	-135.00	2936.87
101	7309.00	90.57	268.27	4505.39	18.41	-3000.85	2.54	-112.45	3000.85
102	7372.00	91.80	268.89	4504.09	16.85	-3063.81	2.19	26.74	3063.81
103	7436.00	91.63	269.50	4502.17	15.95	-3127.78	0.99	105.57	3127.78
104	7500.00	91.28	268.62	4500.54	14.90	-3191.75	1.48	-111.68	3191.75
105	7564.00	91.89	267.92	4498.77	12.97	-3255.69	1.45	-48.91	3255.69
106	7628.00	91.54	267.57	4496.86	10.45	-3319.61	0.77	-135.01	3319.61
107	7692.00	91.71	268.01	4495.04	7.99	-3383.54	0.74	68.86	3383.54
108	7756.00	91.63	268.18	4493.18	5.86	-3447.48	0.29	115.21	3447.48
109	7820.00	91.54	268.98	4491.41	4.28	-3511.43	1.26	96.41	3511.43
110	7883.00	91.71	269.68	4489.62	3.54	-3574.40	1.14	76.33	3574.40
111	7947.00	92.51	271.09	4487.27	3.97	-3638.36	2.53	60.39	3638.36
112	8011.00	91.89	271.00	4484.81	5.14	-3702.30	0.98	-171.74	3702.30
113	8075.00	92.24	270.56	4482.50	6.01	-3766.25	0.86	-51.47	3766.25
114	8130.00	92.15	269.86	4480.40	6.21	-3821.21	1.28	-97.32	3821.21
115	8185.00	92.15	269.86	4478.33	6.07	-3876.17	0.00	0.00	3876.17

LEGEND

--- Colorado B 22 Fed #1-H, Original Hole, Plan #2 4-21-06
--- Original Hole
--- Pathfinder MWD Surveys

Pathfinder Energy

Survey Report

Company: EOG Resources		Date: 7/17/2006		Time: 15:18:36		Page: 1	
Field: Thames Field		Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H; Grid North					
Site: Colorado B22 Fed #1-H		Vertical (TVD) Reference: System: Mean Sea Level					
Well: Colorado B 22 Fed #1-H		Section (VS) Reference: Well: (0.00N,0.00E;270.00Azi)					
Wellpath: Original-Hole		Survey Calculation Method: Minimum Curvature					Db: Sybase

Field: Thames Field Eddy, Co NM USA		Map System: US State Plane Coordinate System 1927		Map Zone: New Mexico, Eastern Zone	
Geo Datum: NAD27 (Clarke 1866)		Coordinate System: Well Centre		Geomagnetic Model: igrf2005	
Sys Datum: Mean Sea Level					

Site: Colorado B22 Fed #1-H Eddy County, New Mexico 1880' FSL 660' FEL Sec 22; T16S; R24E			
Site Position:	Northing: 693404.40 ft	Latitude: 32 54 21.685 N	
From: Map	Easting: 427452.20 ft	Longitude: 104 34 10.978 W	
Position Uncertainty: 0.00 ft		North Reference: Grid	
Ground Level: 0.00 ft		Grid Convergence: -0.13 deg	

Well: Colorado B 22 Fed #1-H Lateral		Slot Name:	
Well Position: +N/-S 0.00 ft	Northing: 693404.40 ft	Latitude: 32 54 21.685 N	
+E/-W 0.00 ft	Easting: 427452.20 ft	Longitude: 104 34 10.978 W	
Position Uncertainty: 0.00 ft			

Wellpath: Original Hole		Drilled From: Surface	
Current Datum: Mean Sea Level		Tie-on Depth: 0.00 ft	
Magnetic Data: 4/20/2006	Height: 0.00 ft	Above System Datum: Mean Sea Level	
Field Strength: 49469 nT		Declination: 8.70 deg	
Vertical Section: Depth From (TVD)	+N/-S	Mag Dip Angle: 60.77 deg	
ft	ft	+E/-W	Direction
		ft	deg
0.00	0.00	0.00	270.00

Survey: Pathfinder MWD Surveys		Start Date: 4/25/2006	
Company: Pathfinder Energy		Engineer: Travis Elliot	
Tool:		Tied-to: From: Gyro Survey	

Survey: Pathfinder MWD Surveys										
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
4000.00	1.47	130.27	3999.32	-1.11	-12.12	12.12	0.00	0.00	0.00	
4015.00	1.41	130.72	4014.32	-1.35	-11.84	11.84	0.41	-0.40	3.00	
4047.00	1.06	181.52	4046.31	-1.91	-11.54	11.54	3.45	-1.09	158.75	
4080.00	4.22	251.57	4079.28	-2.60	-12.71	12.71	12.07	9.58	212.27	
4112.00	9.23	260.63	4111.05	-3.39	-16.36	16.36	15.96	15.66	28.31	
4144.00	14.33	266.34	4142.36	-4.06	-22.85	22.85	16.33	15.94	17.84	
4176.00	19.52	271.61	4172.97	-4.16	-32.15	32.15	16.90	16.22	16.47	
4208.00	24.18	274.78	4202.66	-3.46	-44.03	44.03	15.02	14.56	9.91	
4240.00	27.44	275.04	4231.47	-2.27	-57.91	57.91	10.19	10.19	0.81	
4273.00	30.51	274.42	4260.33	-0.96	-73.84	73.84	9.35	9.30	-1.88	
4311.00	33.85	273.99	4292.49	0.53	-94.02	94.02	8.81	8.79	-1.13	
4343.00	37.11	273.55	4318.54	1.74	-112.55	112.55	10.22	10.19	-1.37	
4381.00	42.56	270.82	4347.72	2.64	-136.86	136.86	15.06	14.34	-7.18	
4413.00	46.96	270.30	4370.43	2.85	-159.39	159.39	13.80	13.75	-1.62	
4444.00	50.56	270.91	4390.86	3.10	-182.69	182.69	11.71	11.61	1.97	
4475.00	52.67	271.70	4410.11	3.66	-206.99	206.99	7.09	6.81	2.55	
4506.00	54.43	271.35	4428.53	4.32	-231.91	231.91	5.75	5.68	-1.13	
4538.00	56.89	271.35	4446.58	4.94	-258.32	258.32	7.69	7.69	0.00	
4570.00	59.62	270.38	4463.42	5.35	-285.53	285.53	8.91	8.53	-3.03	
4602.00	62.34	268.98	4478.94	5.19	-313.51	313.51	9.32	8.50	-4.37	
4633.00	64.19	267.66	4492.88	4.38	-341.18	341.18	7.08	5.97	-4.26	
4666.00	66.30	267.48	4506.70	3.11	-371.12	371.12	6.41	6.39	-0.55	
4697.00	68.76	267.75	4518.55	1.91	-399.74	399.74	7.98	7.94	0.87	
4729.00	71.40	267.57	4529.45	0.69	-429.80	429.80	8.27	8.25	-0.56	

Pathfinder Energy

Survey Report

Company: EOG Resources Field: Thames Field Site: Colorado B22 Fed #1-H Well: Colorado B 22 Fed #1-H Wellpath: Original Hole	Date: 7/17/2006 Time: 15:18:36 Page: 2 Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H, Grid: North Vertical (TVD) Reference: System: Mean Sea Level Section (VS) Reference: Well (0.00N,0.00E,270.00Azi) Survey Calculation Method: Minimum Curvature Db: Sybase
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Survey: Pathfinder MWD Surveys

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
4761.00	74.13	267.75	4538.93	-0.56	-460.33	460.33	8.55	8.53	0.56	
4793.00	76.77	267.75	4546.97	-1.78	-491.28	491.28	8.25	8.25	0.00	
4826.00	79.58	267.48	4553.73	-3.12	-523.55	523.55	8.55	8.52	-0.82	
4858.00	81.34	267.75	4559.03	-4.43	-555.08	555.08	5.56	5.50	0.84	
4890.00	82.66	267.04	4563.49	-5.88	-586.73	586.73	4.67	4.12	-2.22	
4922.00	84.15	266.69	4567.16	-7.61	-618.47	618.47	4.78	4.66	-1.09	
4954.00	85.91	267.13	4569.94	-9.33	-650.30	650.30	5.67	5.50	1.37	
4986.00	91.89	267.48	4570.55	-10.84	-682.25	682.25	18.72	18.69	1.09	
5018.00	96.38	266.78	4568.24	-12.43	-714.12	714.12	14.20	14.03	-2.19	
5049.00	96.90	267.13	4564.66	-14.07	-744.86	744.86	2.02	1.68	1.13	
5081.00	96.02	267.04	4561.06	-15.69	-776.62	776.62	2.76	-2.75	-0.28	
5113.00	95.67	267.22	4557.80	-17.28	-808.41	808.41	1.23	-1.09	0.56	
5145.00	94.53	266.34	4554.95	-19.07	-840.23	840.23	4.49	-3.56	-2.75	
5176.00	93.02	266.25	4552.91	-21.07	-871.10	871.10	4.88	-4.87	-0.29	
5208.00	91.28	265.90	4551.71	-23.26	-903.00	903.00	5.55	-5.44	-1.09	
5240.00	90.22	266.43	4551.29	-25.40	-934.93	934.93	3.70	-3.31	1.66	
5272.00	91.45	267.39	4550.83	-27.12	-966.88	966.88	4.88	3.84	3.00	
5304.00	92.07	267.22	4549.84	-28.63	-998.83	998.83	2.01	1.94	-0.53	
5336.00	90.75	266.34	4549.06	-30.42	-1030.77	1030.77	4.96	-4.12	-2.75	
5368.00	91.28	268.18	4548.49	-31.95	-1062.72	1062.72	5.98	1.66	5.75	
5400.00	92.24	268.18	4547.51	-32.97	-1094.69	1094.69	3.00	3.00	0.00	
5432.00	91.10	267.39	4546.58	-34.20	-1126.65	1126.65	4.33	-3.56	-2.47	
5464.00	90.40	267.75	4546.16	-35.56	-1158.62	1158.62	2.46	-2.19	1.12	
5496.00	91.71	269.15	4545.57	-36.43	-1190.60	1190.60	5.99	4.09	4.37	
5528.00	91.01	268.98	4544.81	-36.95	-1222.59	1222.59	2.25	-2.19	-0.53	
5560.00	91.01	269.68	4544.24	-37.32	-1254.58	1254.58	2.19	0.00	2.19	
5591.00	88.72	270.12	4544.32	-37.38	-1285.58	1285.58	7.52	-7.39	1.42	
5623.00	88.02	271.44	4545.23	-36.94	-1317.56	1317.56	4.67	-2.19	4.12	
5654.00	87.85	271.61	4546.34	-36.12	-1348.53	1348.53	0.78	-0.55	0.55	
5686.00	87.58	272.05	4547.62	-35.10	-1380.49	1380.49	1.61	-0.84	1.37	
5718.00	87.85	271.88	4548.90	-34.00	-1412.44	1412.44	1.00	0.84	-0.53	
5750.00	87.32	272.14	4550.24	-32.88	-1444.40	1444.40	1.84	-1.66	0.81	
5781.00	87.85	272.05	4551.55	-31.75	-1475.35	1475.35	1.73	1.71	-0.29	
5813.00	87.85	271.79	4552.75	-30.67	-1507.31	1507.31	0.81	0.00	-0.81	
5845.00	88.11	271.52	4553.88	-29.75	-1539.27	1539.27	1.17	0.81	-0.84	
5877.00	88.81	271.88	4554.74	-28.80	-1571.25	1571.25	2.46	2.19	1.12	
5909.00	88.81	272.05	4555.40	-27.71	-1603.22	1603.22	0.53	0.00	0.53	
5941.00	88.81	272.49	4556.07	-26.44	-1635.19	1635.19	1.37	0.00	1.37	
5973.00	88.64	272.32	4556.78	-25.10	-1667.15	1667.15	0.75	-0.53	-0.53	
6005.00	88.72	272.58	4557.52	-23.73	-1699.12	1699.12	0.85	0.25	0.81	
6037.00	90.31	273.20	4557.79	-22.11	-1731.07	1731.07	5.33	4.97	1.94	
6068.00	90.75	273.20	4557.50	-20.38	-1762.02	1762.02	1.42	1.42	0.00	
6132.00	92.86	274.16	4555.49	-16.28	-1825.86	1825.86	3.62	3.30	1.50	
6164.00	93.56	273.63	4553.69	-14.11	-1857.73	1857.73	2.74	2.19	-1.66	
6195.00	91.63	272.93	4552.29	-12.34	-1888.65	1888.65	6.62	-6.23	-2.26	
6227.00	91.89	272.76	4551.31	-10.75	-1920.59	1920.59	0.97	0.81	-0.53	
6259.00	91.36	272.40	4550.40	-9.31	-1952.55	1952.55	2.00	-1.66	-1.12	
6290.00	92.33	272.23	4549.40	-8.06	-1983.51	1983.51	3.18	3.13	-0.55	
6322.00	94.09	272.23	4547.61	-6.82	-2015.43	2015.43	5.50	5.50	0.00	
6355.00	94.53	272.23	4545.13	-5.53	-2048.31	2048.31	1.33	1.33	0.00	
6386.00	94.00	272.14	4542.82	-4.36	-2079.20	2079.20	1.73	-1.71	-0.29	
6418.00	94.00	272.32	4540.59	-3.11	-2111.10	2111.10	0.56	0.00	0.56	
6450.00	94.26	272.32	4538.29	-1.82	-2142.99	2142.99	0.81	0.81	0.00	

Pathfinder Energy

Survey Report

Company: EOG Resources	Date: 7/17/2006	Time: 15:18:36	Page: 3
Field: Thames Field	Co-ordinate(NE) Reference: Well: Colorado B 22 Fed #1-H, Grid North		
Site: Colorado B22 Fed #1-H	Vertical (TVD) Reference: System: Mean Sea Level		
Well: Colorado B 22 Fed #1-H	Section (VS) Reference: Well (0.00N, 0.00E, 270.00Azi)		
Wellpath: Original Hole	Survey Calculation Method: Minimum Curvature Db: Sybase		

Survey: Pathfinder MWD Surveys

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
6482.00	93.83	272.40	4536.03	-0.51	-2174.89	2174.89	1.37	-1.34	0.25	
6512.00	93.65	272.23	4534.07	0.70	-2204.80	2204.80	0.82	-0.60	-0.57	
6544.00	93.03	271.70	4532.21	1.80	-2236.72	2236.72	2.55	-1.94	-1.66	
6576.00	93.39	271.88	4530.42	2.79	-2268.66	2268.66	1.26	1.12	0.56	
6608.00	92.95	272.14	4528.65	3.92	-2300.59	2300.59	1.60	-1.37	0.81	
6640.00	93.12	272.40	4526.95	5.18	-2332.52	2332.52	0.97	0.53	0.81	
6671.00	92.62	271.88	4525.40	6.34	-2363.46	2363.46	2.33	-1.61	-1.68	
6703.00	92.51	271.96	4523.97	7.41	-2395.41	2395.41	0.42	-0.34	0.25	
6735.00	93.03	272.14	4522.42	8.55	-2427.35	2427.35	1.72	1.62	0.56	
6767.00	92.77	272.23	4520.80	9.77	-2459.29	2459.29	0.86	-0.81	0.28	
6799.00	92.68	272.58	4519.28	11.11	-2491.22	2491.22	1.13	-0.28	1.09	
6831.00	93.21	272.40	4517.64	12.50	-2523.15	2523.15	1.75	1.66	-0.56	
6863.00	92.24	272.40	4516.12	13.84	-2555.08	2555.08	3.03	-3.03	0.00	
6894.00	91.54	272.14	4515.09	15.07	-2586.04	2586.04	2.41	-2.26	-0.84	
6926.00	91.98	272.58	4514.11	16.38	-2618.00	2618.00	1.94	1.37	1.37	
6958.00	90.40	271.35	4513.45	17.48	-2649.97	2649.97	6.26	-4.94	-3.84	
6990.00	91.28	271.09	4512.98	18.16	-2681.96	2681.96	2.87	2.75	-0.81	
7021.00	91.54	271.09	4512.22	18.75	-2712.95	2712.95	0.84	0.84	0.00	
7053.00	91.54	270.38	4511.36	19.16	-2744.93	2744.93	2.22	0.00	-2.22	
7085.00	91.89	270.03	4510.40	19.28	-2776.92	2776.92	1.55	1.09	-1.09	
7117.00	91.45	270.38	4509.46	19.39	-2808.90	2808.90	1.76	-1.37	1.09	
7181.00	91.45	270.03	4507.85	19.62	-2872.88	2872.88	0.55	0.00	-0.55	
7245.00	91.19	269.77	4506.37	19.51	-2936.87	2936.87	0.57	-0.41	-0.41	
7309.00	90.57	268.27	4505.39	18.41	-3000.85	3000.85	2.54	-0.97	-2.34	
7372.00	91.80	268.89	4504.09	16.85	-3063.81	3063.81	2.19	1.95	0.98	
7436.00	91.63	269.50	4502.17	15.95	-3127.78	3127.78	0.99	-0.27	0.95	
7500.00	91.28	268.62	4500.54	14.90	-3191.75	3191.75	1.48	-0.55	-1.37	
7564.00	91.89	267.92	4498.77	12.97	-3255.69	3255.69	1.45	0.95	-1.09	
7628.00	91.54	267.57	4496.86	10.45	-3319.61	3319.61	0.77	-0.55	-0.55	
7692.00	91.71	268.01	4495.04	7.99	-3383.54	3383.54	0.74	0.27	0.69	
7756.00	91.63	268.18	4493.18	5.86	-3447.48	3447.48	0.29	-0.12	0.27	
7820.00	91.54	268.98	4491.41	4.28	-3511.43	3511.43	1.26	-0.14	1.25	
7883.00	91.71	269.68	4489.62	3.54	-3574.40	3574.40	1.14	0.27	1.11	
7947.00	92.51	271.09	4487.27	3.97	-3638.36	3638.36	2.53	1.25	2.20	
8011.00	91.89	271.00	4484.81	5.14	-3702.30	3702.30	0.98	-0.97	-0.14	
8075.00	92.24	270.56	4482.50	6.01	-3766.25	3766.25	0.88	0.55	-0.69	
8130.00	92.15	269.86	4480.40	6.21	-3821.21	3821.21	1.28	-0.16	-1.27	
8185.00	92.15	269.86	4478.33	6.07	-3876.17	3876.17	0.00	0.00	0.00	