

DISTRICT I

1625 N. FRENCH DR., HOBBES, NM 88240

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico

Energy, Minerals and Natural Resources Department

AMENDED PLAT

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

RECEIVED

MAR 16 2007

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-015-35484	Pool Code 97558	Pool Name GJ; 7Rvs-Qn-Gb-Glorieta-Yeso
Property Code 302497	Property Name GJ WEST COOP UNIT	Well Number 151
OGRID No. 229137	Operator Name COG OPERATING, LLC	Elevation 3546'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	17-S	29-E		660	NORTH	990	WEST	EDDY

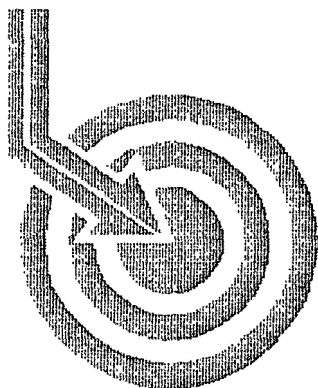
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	17-S	29-E		337'	North	993'	West	Eddy

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40.00			

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED
OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

	GEODETIC COORDINATES NAD 27 NME Y=664096.1 N X=581650.5 E LAT.=32.825405° N LONG.=104.067532° W		OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division. Signature _____ Date _____ Printed Name _____
	SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. MARCH 1, 2007 Date Surveyed _____ AR Signature & Seal of Professional Surveyor _____ <i>GARY H. EIDSON</i> 3/15/07 07:11.0255 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239		



Scientific Drilling

AUG 02 2007
OCD-ARTESIA

COG RESOURCES

Field: Grayburg Jackson
Site: Eddy County, NM
Well: GJ West Loop #151
Wellpath: DH - Job #32D0607450
Survey: 06/02/07-06/11/07

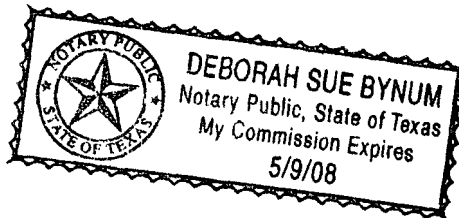
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....*Shart*.....Company Representative

Notorized this date 23rd of July, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific Drilling International Survey Report

Company: COG RESOURCES Date: 07/22/2007 Time: 19:44:28 Page: 1
Field: Grayburg Jackson Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Site: Eddy County, NM Vertical (TVD) Reference: SITE 0.0
Well: GJ West Loop #151 Section (VS) Reference: Well (0.00N,0.00E,359.76Azi)
Wellpath: VH - Job #32K0607451 Survey Calculation Method: Minimum Curvature Db: Sybase

Survey: 06/03/07 Start Date: 06/03/2007
KSRG 0'-800'
Company: Scientific Drilling Internatio Engineer: Pena w/P&M
Tool: Keeper;Keeper 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	0.14	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	1.37	239.25	99.99	-0.61	-0.61	-1.03	1.37	1.20	239.25
200.00	1.44	217.80	199.96	-2.20	-2.22	-2.82	0.53	3.59	231.90
300.00	0.87	179.82	299.94	-3.95	-3.97	-3.59	0.92	5.35	222.16
400.00	1.21	133.61	399.93	-5.44	-5.45	-2.83	0.87	6.14	207.39
500.00	1.44	118.18	499.90	-6.77	-6.78	-0.95	0.42	6.84	188.01
600.00	1.42	87.71	599.87	-7.33	-7.32	1.39	0.75	7.45	169.23
700.00	2.09	91.00	699.82	-7.32	-7.30	4.45	0.68	8.55	148.62
800.00	2.17	91.41	799.75	-7.42	-7.38	8.17	0.08	11.01	132.10



Scientific Drilling International Survey Report

Company: COG RESOURCES
Field: Grayburg Jackson
Site: Eddy County, NM
Well: GJ West Loop #151
Wellpath: DH - Job #32D0607450

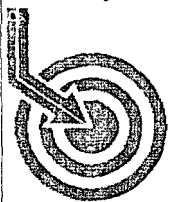
Date: 07/22/2007
Co-ordinate(NE) Reference: Site: Eddy County, NM, Grid North
Vertical (TVD) Reference: SITE 0.0
Section (VS) Reference: Well (0.00N,0.00E,359.76Azi)
Survey Calculation Method: Minimum Curvature **Db:** Sybase

Survey: 06/02/07-06/11/07
 MWD 948'-5499' w/projection @ 5628'
Company: Scientific Drilling Internatio
Tool: MWD;MWD

Start Date: 06/02/2007
Engineer: Barbre/Hernandez/Boyd
Tied-to: From: Definitive Path

Survey

MD ft	Incl deg	Azim deg	TVD ft	VS ft	N/S ft	E/W ft	DLS deg/100ft	ClsD ft	ClsA deg
800.00	2.17	91.41	799.75	-7.42	-7.38	8.17	0.00	11.01	132.10
948.00	1.60	98.45	947.67	-7.81	-7.75	13.01	0.41	15.15	120.79
1009.00	1.79	70.75	1008.65	-7.63	-7.56	14.76	1.36	16.58	117.14
1069.00	3.18	26.58	1068.59	-5.84	-5.77	16.39	3.78	17.37	109.39
1165.00	5.05	19.33	1164.34	0.52	0.60	18.98	2.02	18.99	88.18
1257.00	5.37	11.41	1255.96	8.55	8.64	21.17	0.85	22.86	67.79
1318.00	6.15	7.73	1316.66	14.59	14.68	22.17	1.41	26.59	56.49
1380.00	7.51	0.41	1378.22	21.93	22.02	22.65	2.60	31.59	45.80
1474.00	8.48	351.10	1471.31	34.92	35.01	21.62	1.72	41.15	31.69
1568.00	9.24	342.60	1564.19	48.99	49.06	18.29	1.61	52.36	20.45
1663.00	9.46	343.17	1657.92	63.75	63.81	13.75	0.25	65.28	12.16
1757.00	9.07	337.86	1750.70	78.03	78.07	8.72	1.00	78.56	6.37
1850.00	8.54	344.70	1842.61	91.50	91.52	4.13	1.26	91.61	2.59
1943.00	8.17	355.68	1934.63	104.76	104.77	1.81	1.76	104.79	0.99
2035.00	7.91	351.15	2025.72	117.54	117.55	0.35	0.74	117.55	0.17
2191.00	6.92	359.59	2180.42	137.55	137.55	-1.37	0.94	137.56	359.43
2283.00	7.33	6.37	2271.71	148.93	148.93	-0.76	1.02	148.93	359.71
2377.00	7.87	5.69	2364.88	161.28	161.29	0.54	0.58	161.29	0.19
2533.00	8.19	5.82	2519.35	182.96	182.97	2.73	0.21	182.99	0.85
2627.00	8.23	3.36	2612.39	196.33	196.35	3.80	0.38	196.38	1.11
2751.00	9.13	2.62	2734.97	215.01	215.04	4.77	0.73	215.09	1.27
2847.00	8.87	2.16	2829.79	230.02	230.04	5.40	0.28	230.10	1.34
2941.00	8.87	358.53	2922.66	244.50	244.53	5.49	0.60	244.59	1.29
3036.00	8.59	357.50	3016.56	258.91	258.94	4.99	0.34	258.98	1.10
3131.00	7.98	348.54	3110.58	272.47	272.49	3.37	1.50	272.51	0.71
3225.00	7.61	355.97	3203.71	285.08	285.09	1.64	1.14	285.10	0.33
3318.00	7.52	351.97	3295.90	297.26	297.26	0.35	0.57	297.26	0.07
3410.00	7.30	351.18	3387.13	309.00	309.00	-1.38	0.26	309.00	359.74
3535.00	5.64	355.40	3511.33	322.98	322.97	-3.09	1.38	322.98	359.45
3627.00	3.12	359.84	3603.06	329.99	329.98	-3.46	2.76	330.00	359.40
3814.00	1.35	18.90	3789.91	337.16	337.15	-2.76	1.01	337.17	359.53
4002.00	0.36	151.68	3977.89	338.73	338.73	-1.77	0.86	338.73	359.70
4129.00	0.57	347.33	4104.89	339.00	338.99	-1.72	0.73	339.00	359.71
4286.00	1.28	178.10	4261.88	338.01	338.00	-1.83	1.17	338.01	359.69
4441.00	1.00	174.15	4416.85	334.93	334.93	-1.63	0.19	334.93	359.72
4566.00	1.07	165.62	4541.83	332.71	332.71	-1.23	0.14	332.71	359.79
4753.00	1.38	158.31	4728.79	328.93	328.93	0.03	0.19	328.93	0.01
4940.00	1.27	170.18	4915.74	324.79	324.79	1.22	0.16	324.80	0.22
5126.00	0.66	191.70	5101.71	321.71	321.71	1.35	0.38	321.72	0.24
5312.00	0.50	13.59	5287.71	321.45	321.45	1.33	0.62	321.46	0.24
5499.00	0.31	77.19	5474.70	322.35	322.36	2.01	0.24	322.37	0.36
5628.00	0.31	77.20	5603.70	322.50	322.51	2.69	0.00	322.52	0.48



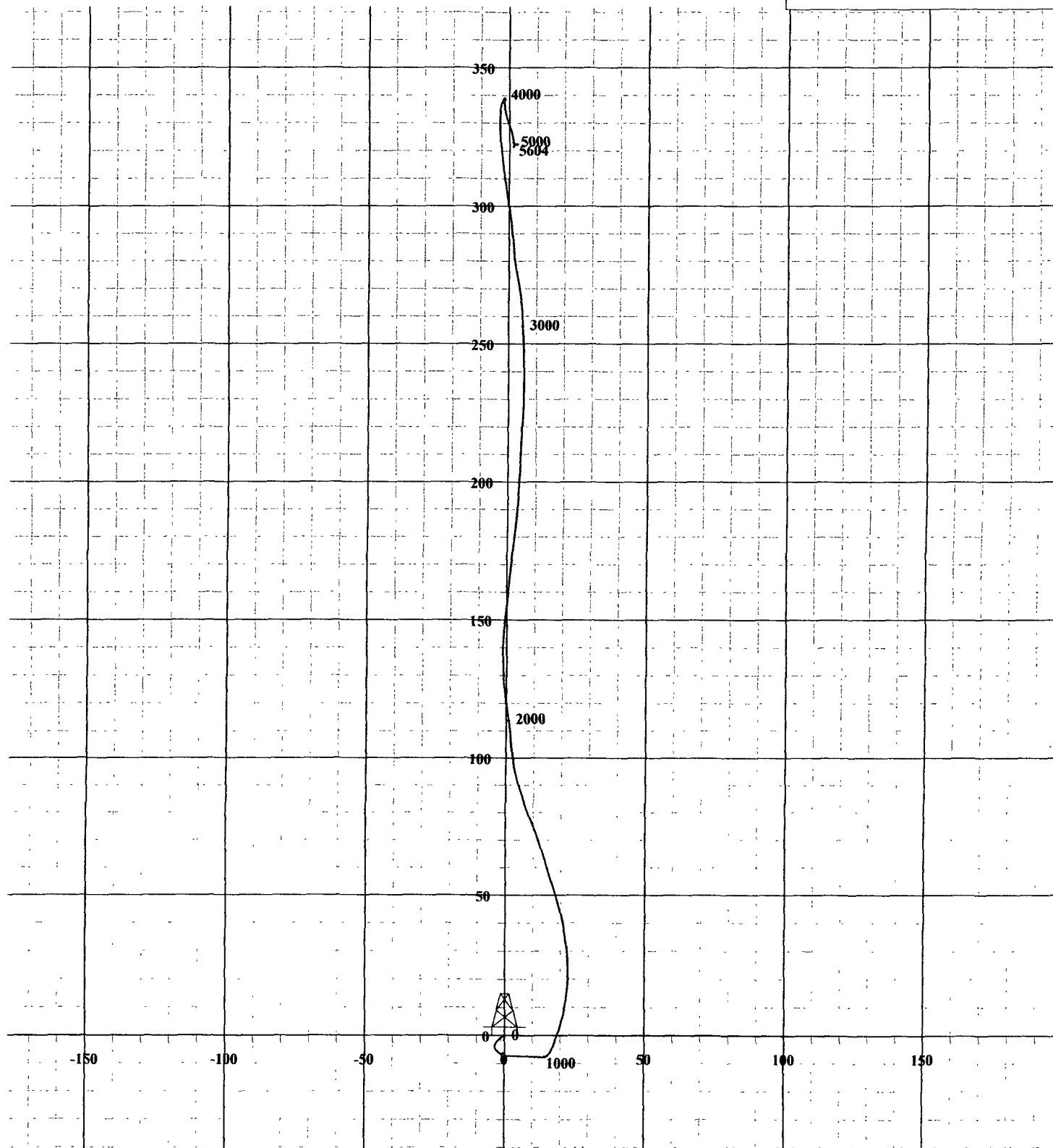
Scientific
Drilling

Field: Grayburg Jackson
Site: Eddy County, NM
Well: GJ West Loop #151
Wellpath: DH - Job #32D0607450
Survey: 06/02/07-06/11/07



Azimuths to Grid North
True North: 0.00°
Magnetic North: 0.00°
Magnetic Field
Strength: 0.5
Dip Angle: 0.00°
Date: 07/22/2007
Model: Igr2000

South(-)/North(+) [50ft/in]



West(-)/East(+) [50ft/in]