

District I
1625 N French Dr., Hobbs, 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 & Natural Resources

Form C-104
Revised June 10, 2003

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

AUG 02 2007 Submit to Appropriate District Office
5 Copies

OCD-ARTESIA

☒ AMENDED REPORT

I. REQUEST FOR ALLOWABLE AND AUTHORIZATION TO TRANSPORT

¹ Operator name and Address COG Operating LLC 550 W. Texas Avenue, Suite 1300 Midland, TX 79701		² OGRID Number 229137
		³ Reason for Filing Code/ Effective Date NW effective 6-27-07
⁴ API Number 30 - 015-35484	⁵ Pool Name GJ; 7Rvs-Qn-Gb-Glorieta-Yeso	⁶ Pool Code 97558
⁷ Property Code 302497	⁸ Property Name GJ West Coop Unit	⁹ Well Number 151

I. ¹⁰ Surface Location

UL or lot no. D	Section 22	Township 17S	Range 29E	Lot.Idn	Feet from the 660	North/South Line North	Feet from the 990	East/West line West	County Eddy
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¹¹ Bottom Hole Location

UL or lot no. D	Section 22	Township 17S	Range 29E	Lot Idn	Feet from the 337	North/South line North	Feet from the 993	East/West line West	County Eddy
¹² Lse Code S	¹³ Producing Method Code P	¹⁴ Gas Connection Date 07-02-07	¹⁵ C-129 Permit Number	¹⁶ C-129 Effective Date	¹⁷ C-129 Expiration Date				

III. Oil and Gas Transporters

¹⁸ Transporter OGRID	¹⁹ Transporter Name and Address	²⁰ POD	²¹ O/G	²² POD ULSTR Location and Description
15694	Navajo Refining Co. Pipeline Div.	1212610	O	Unit O, Sec 21, T17S, R29E
036785	Duke Energy Field Serv LP 4001 Penbrook Odessa, TX 79762	1212630	G	Unit O, Sec 21, T17S, R29E

IV. Produced Water

²³ POD 1212650	²⁴ POD ULSTR Location and Description Unit O, Sec 21, T17S, R29E
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V. Well Completion Data

²⁵ Spud Date 5/30/2007	²⁶ Ready Date 6/27/07	²⁷ TD 5628'	²⁸ PBTD 5601'	²⁹ Perforations 4550' - 5279'	³⁰ DHC, MC
³¹ Hole Size 17-1/2	³² Casing & Tubing Size 13-3/8	³³ Depth Set 322	³⁴ Sacks Cement 505		
11	8-5/8	822	400		
7-7/8	5-1/2	5622	1375		
	2-7/8	5303			

VI. Well Test Data

³⁵ Date New Oil 07/02 /2007	³⁶ Gas Delivery Date 07/02 /2007	³⁷ Test Date 07/11 /2007	³⁸ Test Length 24	³⁹ Tbg. Pressure	⁴⁰ Csg. Pressure
⁴¹ Choke Size	⁴² Oil 66	⁴³ Water 150	⁴⁴ Gas 138	⁴⁵ AOF	⁴⁶ Test Method P

⁴⁷ I hereby certify that the rules of the Oil Conservation Division have been complied with and that the information given above is true and complete to the best of my knowledge and belief. Signature: <i>Carol Ann Lance</i>		OIL CONSERVATION DIVISION	
Printed name: Carol Ann Lance		Approved by: BRYAN G. ARRANT DISTRICT II GEOLOGIST	
Title: Regulatory Analyst		Title:	
E-mail Address: clance@conchoresources.com		Approval Date: AUG 05 2007	
Date: 08-01-07	Phone: 432-685-4395		

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II

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1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1220 S. ST. FRANCIS DR., SANTA FE, NM 87506

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

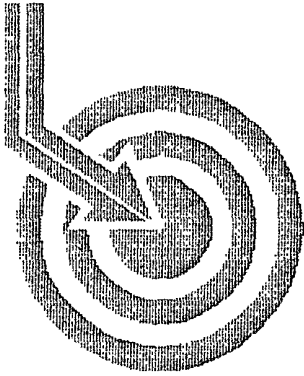
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
D	22	17-S	29-E		660	NORTH	990	WEST	EDDY

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 40.00	Joint or Infill	Consolidation Code	Order No.						

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 unless 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 A. 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

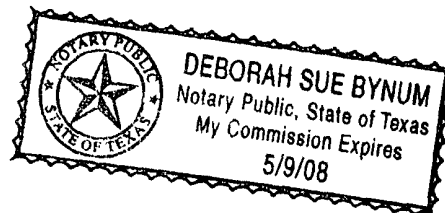
This survey is correct to the best of my knowledge
and is supported by actual field data.

.....Deborah S. Bynum..... Company Representative

Notorized this date 23rd of July, 2007.

Deborah Sue Bynum
Notary Signature

County of Midland
State of Texas





Scientific
Drilling

Scientific Drilling International

Survey Report

Company: COG RESOURCES
Field: Grayburg Jackson
Site: Eddy County, NM
Well: GJ West Loop #151
Wellpath: VH - Job #32K0607451

Date: 07/22/2007 Time: 19:44:28 Page: 1
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: 06/03/07
KSRG 0'-800'

Start Date: 06/03/2007

Company: Scientific Drilling Internatio
Tool: Keeper;Keeper Gyro

Engineer: Pena w/P&M
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	Date: 07/22/2007	Time: 19:51:35	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: DH - Job #32D0607450	Survey Calculation Method:	Minimum Curvature	Db: Sybase

Survey: 06/02/07-06/11/07	Start Date: 06/02/2007
MWD 948'-5499' w/projection @ 5628'	
Company: Scientific Drilling Internatio	Engineer: Barbre/Hernandez/Boyd
Tool: MWD;MWD	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



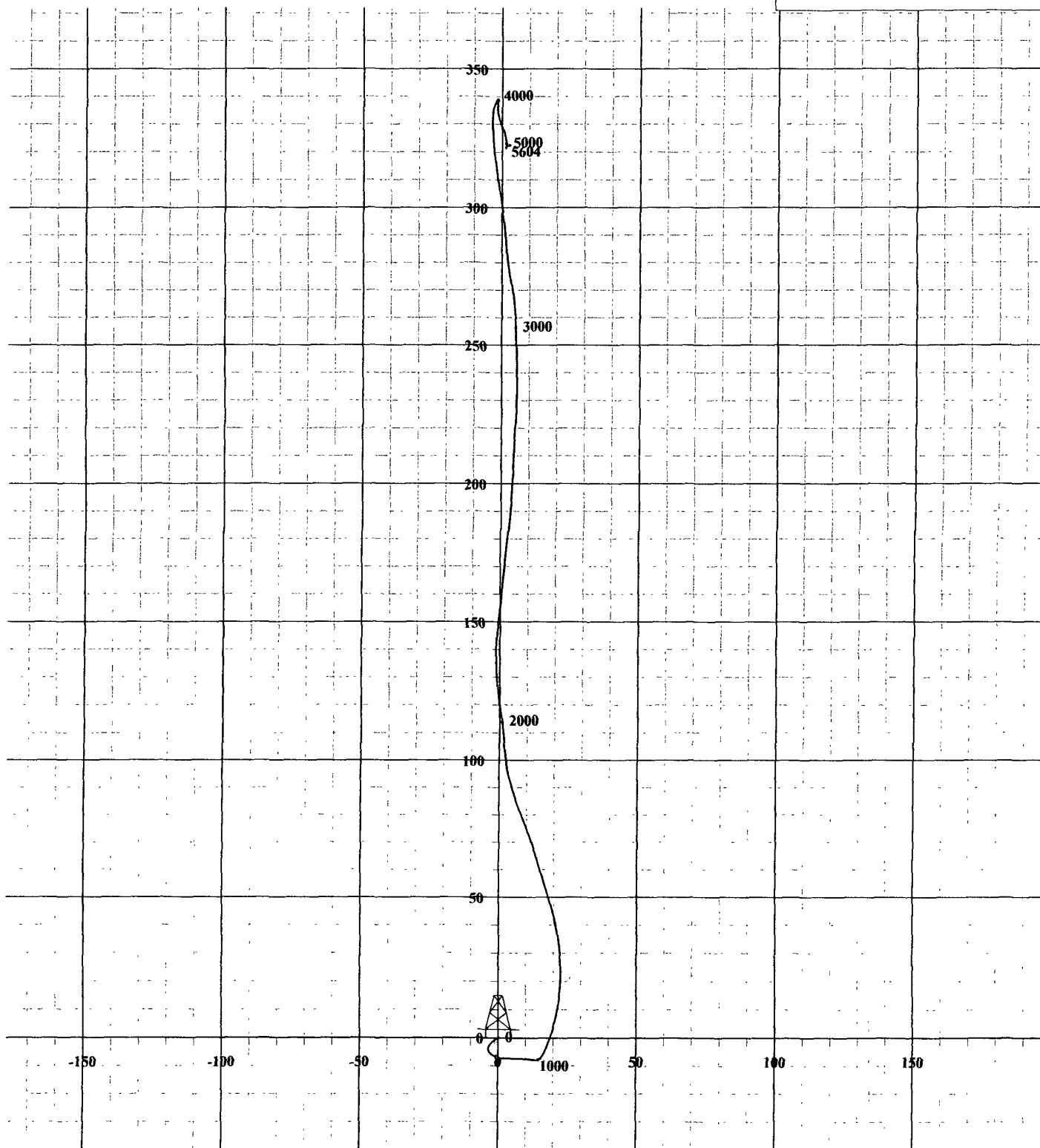
**Scientific
Drilling**

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



Azimuth to Grid North
True North 0.00°
Magnetic North 0.00°
Magnetic Field
Strength 0.01
Dip Angle 0.00°
Date 07/22/2007
Model g02000

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



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