

Submit 3 Copies To Appropriate District Office
District I
1625 N French Dr, Hobbs, NM 88240
District II
1301 W Grand Ave, 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

Form C-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-015-35945
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No.
7. Lease Name or Unit Agreement Name Juniper State
8. Well Number 5
9. OGRID Number 229137
10. Pool name or Wildcat Loco Hills; Glorieta-Yeso 96718

SUNDRY NOTICES AND REPORTS ON WELLS
(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
COG Operating LLC

3. Address of Operator
550 W. Texas Ave., Suite 1300 Midland, TX 79701

4. Well Location

Unit Letter P : 990 feet from the South line and 100 feet from the East line
Section 17 Township 17S Range 30E NMPM County Eddy

11. Elevation (Show whether DR, RKB, RT, GR, etc.)
3664' GR

Pit or Below-grade Tank Application ☐ or Closure ☐

Pit type _____ Depth to Groundwater _____ Distance from nearest fresh water well _____ Distance from nearest surface water _____

Pit Liner Thickness: _____ mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐

OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐

OTHER: Add Additional Paddock Perfs.
☒

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

02/18/08 Perforate w/ 2 SPF @ 5503 - 5703, 48 holes.
02/19/08 Acidize w/ 5,000 gals acid. Frac w/ 72,182 gals gel, 73,534# 16/30 sand.
15,288# Siberprop sand. Set plug @ 5460'.
Perforate w/ 2 SPF @ 5230 - 5430, 36 holes.
Acidize w/ 5,000 gals acid. Frac w/ 71,244 gals gel, 74,931# 16/30 sand.
17,901# Siberprop sand. Set plug @ 5190'.
Perforate w/ 2 SPF @ 4960 - 5160, 36 holes.
Acidize w/ 6,444 gals acid. Frac w/ 71,800 gals gel, 74,155# 16/30 sand, 11,436# Siberprop.
02/22/08 Drill out plugs and wash to 5888'.
02/25/08 RIH w/175 jts. 2 7/8" J-55 tbg., SN @ 5698'. RIH w/ 2 1/2" x 2" x 20' RHTC pump.
Hang well on.

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☐, a general permit ☐ or an (attached) alternative OCD-approved plan ☐.

SIGNATURE Kanicia Carrillo TITLE Regulatory Analyst DATE 03/14/08

Type or print name Kanicia Carrillo E-mail address: kcarrillo@conchoresources.com Telephone No. 432-685-4332
For State Use Only

APPROVED BY: _____ TITLE Accepted for record DATE _____
Conditions of Approval (if any): NMOCD

Juniper State
API#: 30-015-35945
Lea, NM

C-105 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4960 - 5160	Acidize w/ 6,444 gals acid.
	Frac w/ 71,800 gals gel, 11,436# Siberprop
	74,155# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5230 - 5430	Acidize w/ 5,000 gals acid.
	Frac w/ 71,244 gals gel, 17,901# Siberprop
	74,931# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5503 - 5703	Acidize w/5,000 gals acid.
	Frac w/ 72,182 gals gel, 15,288# Siberprop
	73,534# 16/30 sand.

District I

1625 N French Dr., Hobbs, NM 88240

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1220 S. St Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources
Oil Conservation Division
1220 S. St Francis Dr.
Santa Fe, NM 87505

Form C-102
 Permit 65072

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35945	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO
4. Property Code 302513	5. Property Name JUNIPER STATE	6. Well No. 005
7. OGRID No. 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3664

10. Surface Location

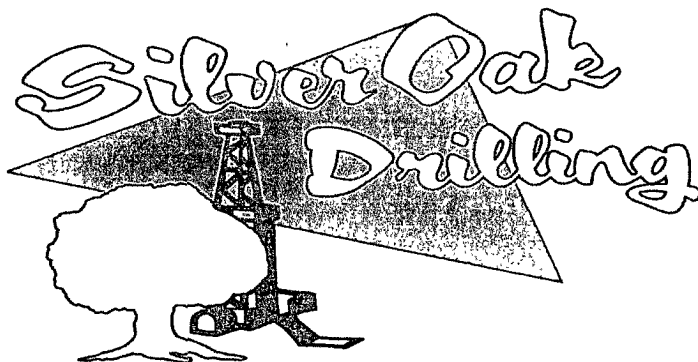
UL - Lot P	Section 17	Township 17S	Range 30E	Lot Idn	Feet From 990	N/S Line S	Feet From 100	E/W Line E	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot M	Section 16	Township 17S	Range 30E	Lot Idn	Feet From 991	N/S Line S	Feet From 627	E/W Line W	County EDDY
12. Dedicated Acres 40.00	13. Joint or Infill	14. Consolidation Code	15. 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

<table border="1" style="width: 100%; height: 150px; border-collapse: collapse;"> <tr><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td><td style="width: 25%; height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> <tr><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td><td style="height: 40px;"></td></tr> </table>																	OPERATOR CERTIFICATION <i>I hereby certify that the information contained 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(s) or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i> E-Signed By: Diane Kuykendall Title: Regulatory Analyst Date: 11/28/2007 SURVEYOR CERTIFICATION <i>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.</i> Surveyed By: Ronald Eidson Date of Survey: 9/12/2007 Certificate Number: 3239



PO Box 1370
Artesia, NM 88211-1370
(505) 748-1288

February 12, 2008

COG, LLC
Fasken Center, Tower II
550 West Texas Ave, Suite 1300
Midland, TX 79701

RE: Juniper State #5
990' FSL & 100' FEL
Sec. 17, T17S, R30E
Eddy County, New Mexico

Dear Sir,

The attached is the Deviation Survey for the above captioned well.

Very truly yours,

A handwritten signature in cursive script, appearing to read "Eddie LaRue".

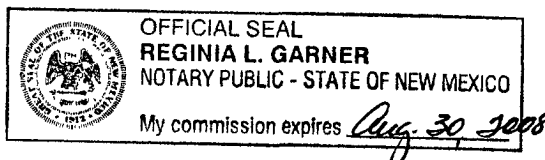
Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 12th day of February, 2008.

A handwritten signature in cursive script, appearing to read "Regina L. Garner".

Notary Public



Date	Depth	Dev	Dir
01/26/2008	200.00	0.75	0.00
01/27/2008	636.00	1.00	0.00
01/27/2008	940.00	1.25	0.00
01/27/2008	1127.00	1.25	0.00
01/29/2008	1457.00	1.61	0.00
01/30/2008	2134.00	8.19	86.06
01/30/2008	2206.00	8.84	93.33
01/30/2008	2318.00	9.69	91.59
01/30/2008	2363.00	9.55	85.61
01/31/2008	2522.00	9.47	88.94
01/31/2008	2618.00	11.09	90.59
01/31/2008	2713.00	10.83	90.41
01/31/2008	2833.00	10.37	90.84
01/31/2008	2928.00	9.67	90.27
01/31/2008	3114.00	10.17	89.78
02/01/2008	3236.00	10.11	89.87
02/01/2008	3359.00	9.99	90.28
02/01/2008	3483.00	9.78	88.53
02/01/2008	3608.00	9.48	89.85
02/01/2008	3701.00	9.94	89.57
02/02/2008	3825.00	9.59	89.43
02/02/2008	3886.00	9.63	90.55
02/02/2008	4041.00	9.85	86.89
02/02/2008	4166.00	9.89	86.33
02/02/2008	4320.00	9.42	85.78
02/03/2008	4414.00	9.03	90.77
02/03/2008	4538.00	8.43	92.54
02/03/2008	4640.00	8.81	86.30
02/03/2008	4733.00	9.65	90.21
02/04/2008	4859.00	9.43	91.31
02/04/2008	4952.00	9.24	92.71
02/04/2008	5044.00	8.89	93.08
02/04/2008	5106.00	9.03	92.03
02/05/2008	5231.00	9.32	92.09
02/05/2008	5357.00	9.80	89.09
02/05/2008	5519.00	9.74	88.87
02/05/2008	5669.00	9.31	86.10
02/06/2008	5795.00	8.90	86.69
02/06/2008	5893.00	8.37	86.38

COG Operating LLC

Eddy County, NM (NAD 27 NME)

Juniper State #5

Juniper State #5

Wellbore #1

Design: Actual

Standard Survey Report

18 February, 2008



Scientific Drilling

Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Juniper State #5
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3664 00ft (Ground Elev)
Site:	Juniper State #5	MD Reference:	WELL @ 3664 00ft (Ground Elev)
Well:	Juniper State #5	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003 16 Single User Db

Project	Eddy County, NM (NAD 27 NME)		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Juniper State #5		
Site Position:		Northing:	665,801 80 ft
From:	Map	Easting:	606,881.70 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 49' 47 611 N
		Longitude:	103° 59' 7 362 W
		Grid Convergence:	0 19 °

Well	Juniper State #5		
Well Position	+N/-S	0 00 ft	Northing: 665,801 80 ft
	+E/-W	0 00 ft	Easting: 606,881 70 ft
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft
		Latitude:	32° 49' 47 611 N
		Longitude:	103° 59' 7 362 W
		Ground Level:	3,664 00 ft

Wellbore	Wellbore #1		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	2/18/2008	8 21
			Dip Angle (°)
			60 77
			Field Strength (nT)
			49,289

Design	Actual		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(ft)	(ft)	(ft)
	0 00	0 00	0 00
			Direction (°)
			89 90

Survey Program	Date 2/18/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
100 00	1,343 00	GYRO (Wellbore #1)	Keeper
1,381 00	5,942 00	MWD (Wellbore #1)	MWD
			Description
			Keeper Standard Rate Gyro
			MWD - Standard ISCWSA

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00
100 00	0 25	338 15	100 00	0 20	-0 08	-0 08	0 25	0 25	0 00
200 00	0 09	310 53	200 00	0 46	-0 22	-0 22	0 18	-0 16	-27 62
300 00	0 36	168 74	300 00	0 20	-0 22	-0 22	0 43	0 27	-141 79
400 00	1 06	147 30	399 99	-0 89	0 34	0 34	0 74	0 70	-21 44
500 00	1 09	146 91	499 97	-2 46	1 36	1 36	0 03	0 03	-0 39
600 00	1 20	154 87	599 95	-4 21	2 32	2 32	0 19	0 11	7 96
700 00	0 91	131 35	699 94	-5 68	3 36	3 35	0 52	-0 29	-23 52
800 00	0 89	100 89	799 92	-6 35	4 72	4 71	0 47	-0 02	-30 46
900 00	1 21	83 32	899.91	-6 38	6 53	6 52	0.45	0 32	-17 57
1,000 00	1 26	86 18	999 88	-6 18	8 68	8 67	0 08	0 05	2 86
1,100 00	0 89	90 88	1,099 87	-6 12	10 55	10 54	0 38	-0 37	4 70

Scientific Drilling

Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Juniper State #5
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3664 00ft (Ground Elev)
Site:	Juniper State #5	MD Reference:	WELL @ 3664 00ft (Ground Elev)
Well:	Juniper State #5	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003 16 Single User Db

Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
1,200 00	0 80	97 07	1,199 86	-6 22	12 02	12 01	0 13	-0 09	6 19
1,300 00	0 57	102 77	1,299 85	-6 41	13 20	13 19	0 24	-0 23	5 70
1,343 00	0 49	93 87	1,342 85	-6 47	13 59	13 58	0 27	-0 19	-20 70
Last GYRO Survey									
1,381 00	0 48	79 98	1,380 85	-6 45	13 91	13 90	0 31	-0 03	-36 55
1,457 00	1 61	101 60	1,456 83	-6 61	15 27	15 26	1 55	1 49	28 45
1,551 00	3 69	100 64	1,550 73	-7 44	19 54	19 53	2 21	2 21	-1 02
1,645 00	5 53	94 87	1,644 42	-8 38	27 02	27 01	2 02	1 96	-6 14
1,738 00	7 95	95 41	1,736 77	-9 37	37 89	37 88	2 60	2 60	0 58
1,832 00	9 52	88 92	1,829 68	-9 83	52 14	52 12	1 97	1 67	-6 90
1,957 00	8 56	83 93	1,953 13	-8 66	71 73	71 71	0 99	-0 77	-3 99
2,134 00	8 19	86 06	2,128 24	-6 40	97 40	97 39	0 27	-0 21	1 20
2,206 00	8 84	93 33	2,199 45	-6 37	108 04	108 03	1 74	0 90	10 10
2,269 00	9 69	91 59	2,261 62	-6 79	118 17	118 16	1 42	1 35	-2 76
2,363 00	9 55	85 61	2,354 30	-6 42	133 86	133 85	1 07	-0 15	-6 36
2,487 00	8 50	88 13	2,476 77	-5 33	153 27	153 26	0 90	-0 85	2 03
2,550 00	9 47	88 94	2,538 99	-5 08	163 11	163 10	1 55	1 54	1 29
2,614 00	11 09	90 59	2,601 97	-5 05	174 53	174 52	2 57	2 53	2 58
2,709 00	10 83	90 41	2,695 23	-5 21	192 59	192 58	0 28	-0 27	-0 19
2,837 00	10 37	90 84	2,821 05	-5 46	216 13	216 12	0 36	-0 36	0 34
2,928 00	9 67	90 27	2,910 66	-5 62	231 97	231 96	0 78	-0 77	-0 63
3,021 00	9 57	90 15	3,002 35	-5 67	247 51	247 50	0 11	-0 11	-0 13
3,114 00	10 17	89 78	3,093 97	-5 66	263 45	263 44	0 65	0 65	-0 40
3,236 00	10 11	89 87	3,214 07	-5 60	284 93	284 92	0 05	-0 05	0 07
3,359 00	9 99	90 28	3,335 18	-5 63	306 39	306 38	0 11	-0 10	0 33
3,483 00	9 78	88 53	3,457 34	-5 41	327 68	327 67	0 30	-0 17	-1 41
3,608 00	9 48	89 85	3,580 58	-5 11	348 58	348 57	0 30	-0 24	1 06
3,701 00	9 94	89 57	3,672 25	-5 03	364 27	364 26	0 50	0 49	-0 30
3,825 00	9 59	89 43	3,794 45	-4 84	385 30	385 29	0 28	-0 28	-0 11
3,917 00	9 38	90 43	3,885 19	-4 83	400 46	400 45	0 29	-0 23	1 09
4,041 00	9 85	86 89	4,007 45	-4 33	421 15	421 15	0 61	0 38	-2 85
4,166 00	9 89	86 33	4,130 60	-3 06	442 54	442 54	0 08	0 03	-0 45
4,320 00	9 42	85 78	4,282 42	-1 28	468 31	468 31	0 31	-0 31	-0 36
4,414 00	9 03	90 77	4,375 21	-0 82	483 36	483 36	0 95	-0 41	5 31
4,538 00	8 43	92 54	4,497 77	-1 35	502 17	502 16	0 53	-0 48	1 43
4,640 00	8 81	86 30	4,598 62	-1 18	517 43	517 43	0 99	0 37	-6 12
4,733 00	9 65	90 21	4,690 41	-0 75	532 33	532 33	1 13	0 90	4 20
4,859 00	9 43	91 31	4,814 67	-1 02	553 21	553 21	0 23	-0 17	0 87
4,952 00	9 24	92 71	4,906 44	-1 55	568 29	568 29	0 32	-0 20	1 51
5,044 00	8 89	93 08	4,997 29	-2 28	582 77	582 76	0 39	-0 38	0 40
5,106 00	9 03	92 03	5,058 53	-2 71	592 41	592 41	0 35	0 23	-1 69
5,231 00	9 32	92 09	5,181 94	-3 43	612 33	612 32	0 23	0 23	0 05
5,357 00	9 80	89 09	5,306 19	-3 63	633 25	633 24	0 55	0 38	-2 38
5,513 00	9 74	88 87	5,459 92	-3 16	659 72	659 71	0 05	-0 04	-0 14
5,669 00	9 31	86 10	5,613 77	-2 04	685 50	685 49	0 40	-0 28	-1 78
5,795 00	8 90	86 69	5,738 19	-0 78	705 40	705 40	0 33	-0 33	0 47
5,893 00	8 37	86 38	5,835 07	0 11	720 09	720 08	0 54	-0 54	-0 32
MWD Survey									
5,942 00	8 37	86 38	5,883 55	0 56	727 20	727 20	0 00	0 00	0 00
Projection to Bit									

Scientific Drilling

Survey Report



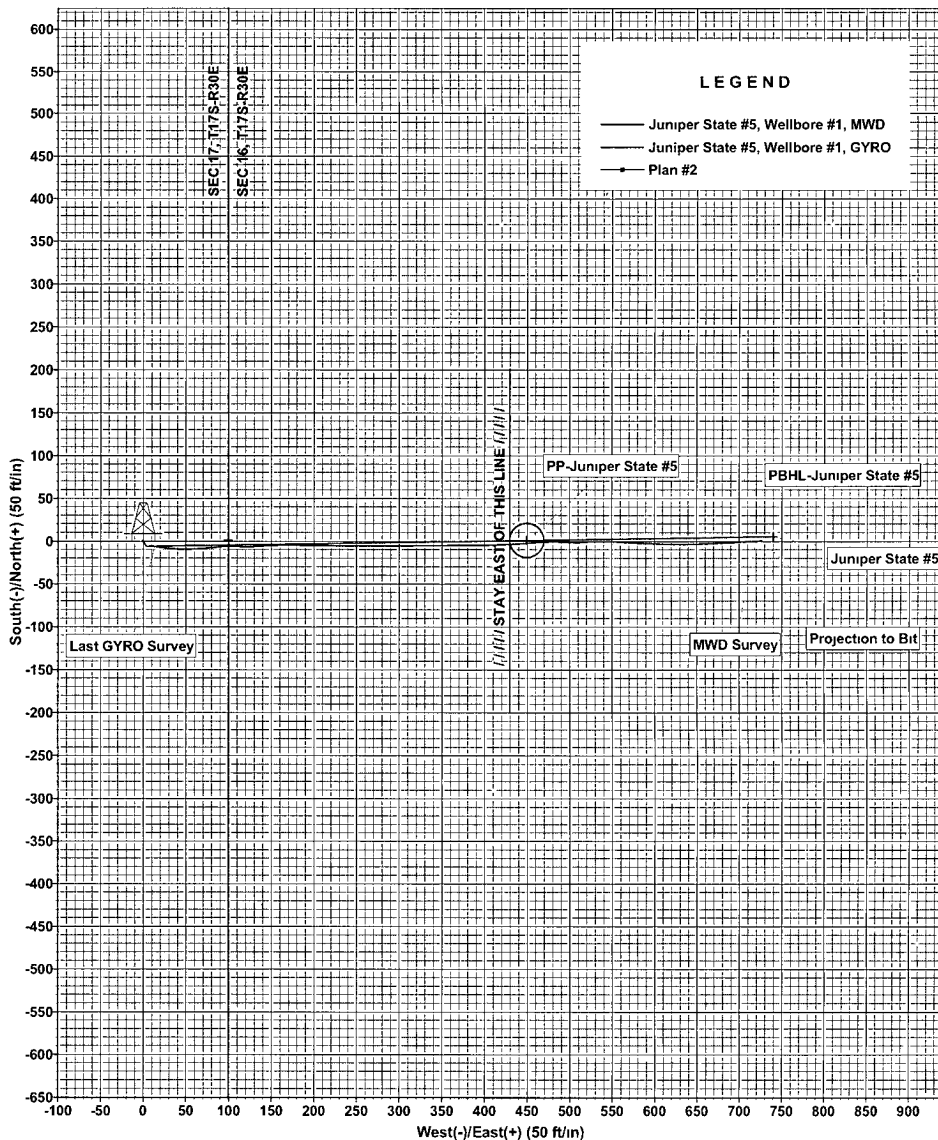
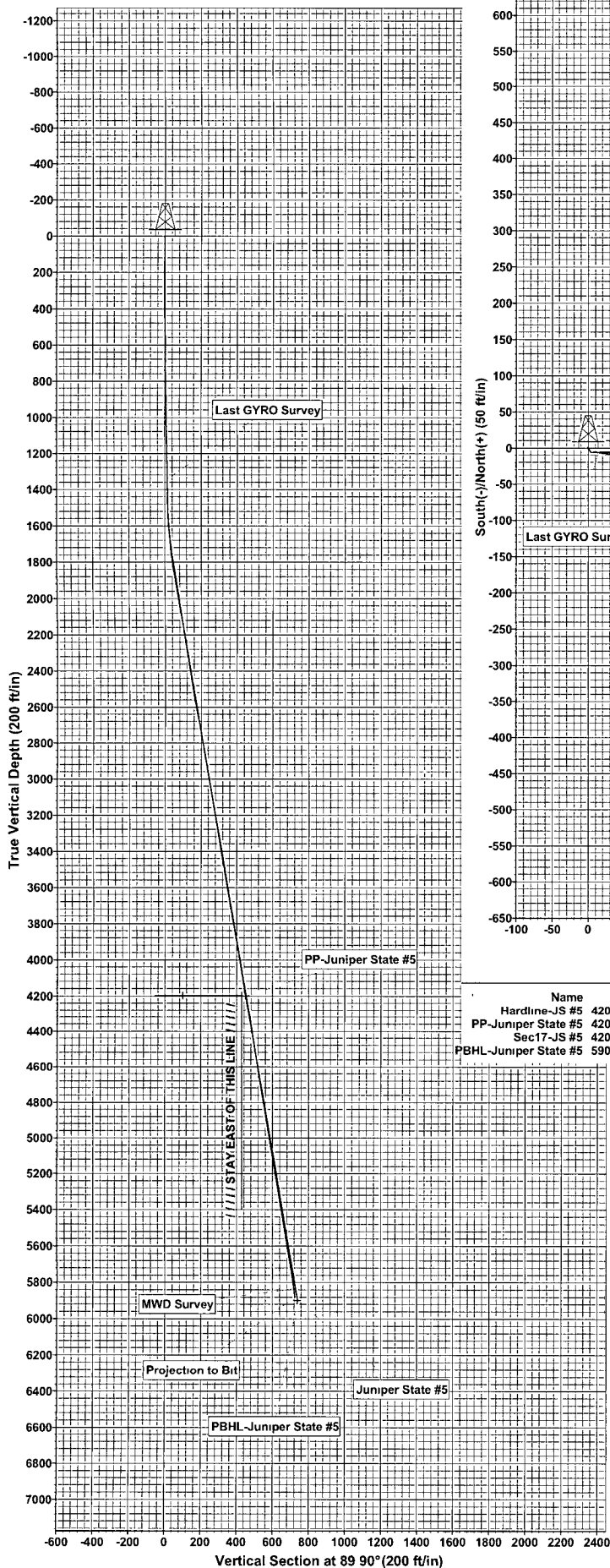
Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Juniper State #5
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3664 00ft (Ground Elev)
Site:	Juniper State #5	MD Reference:	WELL @ 3664 00ft (Ground Elev)
Well:	Juniper State #5	North Reference:	Grid
Wellbore:	Wellbore #1	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003 16 Single User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
PP-Juniper State #5	0 00	0 00	4,200 00	0 80	449 90	665,802 60	607,331 60	32° 49' 47 605 N	103° 59' 2 089 W
- actual wellpath misses by 5 46ft at 4235 69ft MD (4199 28 TVD, -2 28 N, 454 36 E)									
- Circle (radius 20 00)									
PBHL-Juniper State #5	0 00	0 00	5,900 00	5 38	740 25	665,807 18	607,621 95	32° 49' 47 640 N	103° 58' 58 686 W
- actual wellpath misses by 21 54ft at 5942 00ft MD (5883 55 TVD, 0 56 N, 727 20 E)									
- Point									
Sec17-JS #5	0 00	0 00	4,200 00	0 80	100 00	665,802 60	606,981 70	32° 49' 47 616 N	103° 59' 6 190 W
- actual wellpath misses by 349 39ft at 4177 15ft MD (4141 58 TVD, -2 94 N, 444 45 E)									
- Rectangle (sides W5,280 00 H0 00 D0 00)									
Hardline-JS #5	0 00	0 00	4,200 00	0 80	430 00	665,802 60	607,311 70	32° 49' 47 605 N	103° 59' 2 322 W
- actual wellpath misses by 24 33ft at 4232 36ft MD (4196 00 TVD, -2 31 N, 453 80 E)									
- Rectangle (sides W400 00 H0 00 D0 00)									

Checked By: _____ Approved By: _____ Date _____

COG Operating LLC

Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAD 27 NME)
Well: Juniper State #5
Wellbore: Wellbore #1
Design: Plan #2 vs Actual



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
Hardline-JS #5	4200.00	0.80	430.00	665802.60	607311.70	32°49' 47.605 N	103°59' 2.322 W	Rectangle (Sides: L40 0.00 W0.00)
PP-Juniper State #5	4200.00	0.80	449.90	665802.60	607331.60	32°49' 47.605 N	103°59' 2.089 W	Circle (Radius: 20.00)
Sec17-JS #5	4200.00	0.80	100.00	665802.60	606981.70	32°49' 47.616 N	103°59' 6.190 W	Rectangle (Sides: L5280.00 W0.00)
PBHL-Juniper State #5	5900.00	5.38	740.25	665807.18	607621.95	32°49' 47.640 N	103°58' 58.686 W	Point

AZIMUTH CORRECTIONS
ALL AZIMUTHS MUST BE CORRECTED TO GRID
GRID CORRECTIONS MUST BE APPLIED BEFORE PLOTTING
To convert a Magnetic Direction to a Grid Direction, Add 8.02°
To convert a True Direction to a Grid Direction, Subtract 0.19°



Azimuths to Grid North
True North -0.19°
Magnetic North 8.02°
Magnetic Field
Strength: 49288 7nT
Dip Angle: 60.77°
Date: 2/18/2008
Model: IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	1381.00	0.48	79.98	1380.85	-6.45	13.91	0.00	0.00	13.90	
2	1430.00	0.48	79.98	1429.84	-6.38	14.32	0.00	0.00	14.31	
3	1890.99	9.69	89.10	1888.53	-5.43	55.11	2.00	9.58	55.10	
4	5960.57	9.69	89.10	5900.00	5.38	740.25	0.00	0.00	740.26	PBHL-Juniper State #5

WELL DETAILS: Juniper State #5

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	665801.80	606881.70	32°49' 47.611 N	103°59' 7.362 W	

PROJECT DETAILS: Eddy County, NM (NAD 27 NME)

Plan: Plan #2 (Juniper State #5/Wellbore #1)

Geodetic System: US State Plane 1927 (Exact solution)	Created By: Julio Pina	Date: 18-Feb-08
Datum: NAD 1927 (NADCON CONUS)		
Ellipsoid: Clarke 1866	Checked: _____	Date: _____
Zone: New Mexico East 3001	Reviewed: _____	Date: _____
System Datum: Mean Sea Level	Approved: _____	Date: _____