

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.

30-015-35880

5. Indicate Type of Lease

STATE ☒ FEE ☐

6. State Oil & Gas Lease No.

7. Lease Name or Unit Agreement Name

Wichita State

8. Well Number **2**

9. OGRID Number

229137

10. Pool name or Wildcat **96718**
LOCO HILLS; GLORIETA-YESO

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

APR - 1 2008

2. Name of Operator

COG Operating LLC

OCD-ARTESIA

3. Address of Operator

550 W. Texas Ave., Suite 1300

Midland, TX 79701

4. Well Location

Unit Letter **L** : **2190** feet from the **South** line and **680** feet from the **West** line

Section **16** Township **17S** Range **30E** NMPM County **EDDY**

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

3674' GR

Pit or Below-grade Tank Application ☐ or Closure ☒

Pit type **DRILLING** Depth to Groundwater **110'** Distance from nearest fresh water well **1000'** Distance from nearest surface water **1000'**

Pit Liner Thickness: **12 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: Completion ☒

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.

02/21/08 Perf w/ 2 SPF @ 5590 - 5790, 48 holes.

02/22/08 Acidize w/ 5000 gals acid. Frac w/ 80,470 gals gel, 90,000# 16/30 sand. Set comp plug @ 5630.

Perf w/ 2 SPF @ 5320 - 5520, 36 holes. Acidize w/ 5000 gals acid.

Frac w/ 52,425 gals gel, 75,300# 16/30 sand. Set comp plug @ 5300.

Perf w/ 2 SPF @ 5050 - 5250, 36 holes. Acidize w/ 5000 gals acid.

Frac w/ 62,690 gals gel, 98,657# 16/30 sand. Set comp plug @ 5020.

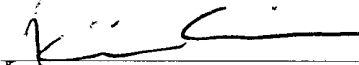
Perf w/ 2 SPF @ 4880 - 4980, 36 holes. Acidize w/ 5000 gals acid.

Frac w/ 52,950 gals gel, 51,932# 16/30 sand.

02/27/08 Drill out plug and push to 5860.

02/28/08 RIH w/ 179 jts 2-7/8" J55 tbg, SN @ 5706'. RIH w/ 2-1/2" x 2" x 20' pump. Hang 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  TITLE **Regulatory Analyst** DATE **03/27/08**

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

For State Use Only

APPROVED BY: _____ TITLE _____ DATE _____

Conditions of Approval (if any):

**Accepted for record
NMOCD**

WICHITA STATE #2
API#: 30-015-35880
EDDY, NM

C-105 (#27) ADDITIONAL INFORMATION

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4880 - 4980	Acidize w/ 5,000 gals acid.
	Frac w/ 52,950 gals gel,
	51,932# 16/30 sand.

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5050 - 5250	Acidize w/ 5,000 gals acid.
	Frac w/ 62,690 gals gel,
	98,657# 16/30 sand

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5320 - 5520	Acidize w/ 5,000 gals acid.
	Frac w/ 52,425 gals gel,
	75,300# 16/30 sand

27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5590 - 5790	Acidize w/ 5,000 gals acid.
	Frac w/ 80,470 gals gel,
	90,000# 16/30 sand

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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 63157

WELL LOCATION AND ACREAGE DEDICATION PLAT

1. API Number 30-015-35880	2. Pool Code 96718	3. Pool Name LOCO HILLS; GLORIETA-YESO
4. Property Code 302586	5. Property Name WICHITA STATE	6. Well No. 002
7. OGRID No 229137	8. Operator Name COG OPERATING LLC	9. Elevation 3674

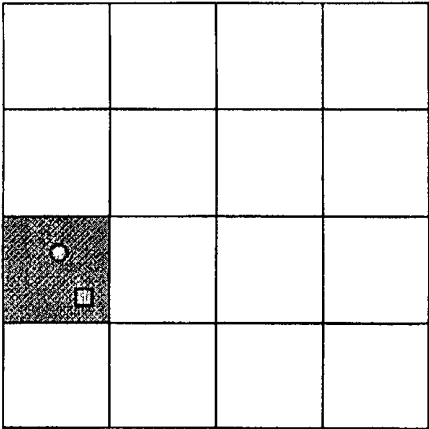
10. Surface Location

UL - Lot L	Section 16	Township 17S	Range 30E	Lot Idn	Feet From 2190	N/S Line S	Feet From 680	E/W Line W	County EDDY
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11. Bottom Hole Location If Different From Surface

UL - Lot L	Section 16	Township 17S	Range 30E	Lot Idn	Feet From 1100	N/S Line S	Feet From 1308	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

	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: 10/24/2007 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: 9/27/2007 Certificate Number: 3239
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COG Operating LLC

Eddy County, NM (NAD 27 NME)

Wichita State #2

Wichita State #2

OH

Design: Actual

Standard Survey Report

15 February, 2008



Scientific Drilling
Directional Drilling Operations

Scientific Drilling Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Wichita State #2
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3674 00ft (Ground Elev)
Site:	Wichita State #2	MD Reference:	WELL @ 3674 00ft (Ground Elev)
Well:	Wichita State #2	North Reference:	Grid
Wellbore:	OH	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	Wichita State #2		
Site Position:		Northing:	667,003 40 ft
From:	Map	Easting:	607,657 20 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 49' 59 476 N
		Longitude:	103° 58' 58 226 W
		Grid Convergence:	0 19 °

Well	Wichita State #2		
Well Position	+N/-S	0 00 ft	Northing: 667,003 40 ft
	+E/-W	0 00 ft	Easting: 607,657 20 ft
Position Uncertainty	0 00 ft	Wellhead Elevation:	ft
		Latitude:	32° 49' 59 476 N
		Longitude:	103° 58' 58 226 W
		Ground Level:	3,674 00 ft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination (°)
	IGRF200510	2/15/2008	8 21
			Dip Angle (°)
			60 77
			Field Strength (nT)
			49,292

Design	Actual		
Audit Notes:			
Version:	1 0	Phase:	ACTUAL
		Tie On Depth:	0 00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)
	0 00	0 00	0 00
		Direction (°)	149 98

Survey Program	Date	2/15/2008		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
100 00	1,230 00	GYRO (OH)	Keeper	Keeper Standard Rate Gyro
1,285 00	5,944 00	MWD (OH)	MWD	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 60	335 72	100 00	0 48	-0 22	-0 52	0 60	0 60	0 00
200 00	0 24	190 50	200 00	0 75	-0 47	-0 88	0 81	-0 36	-145 22
300 00	0 66	241 77	299 99	0 27	-1 01	-0 74	0 54	0 42	51 27
400 00	0 78	289 68	399 99	0 23	-2 16	-1 28	0 59	0 12	47 91
500 00	0 95	295 67	499 98	0 82	-3 55	-2 48	0 19	0 17	5 99
600 00	1 01	318 44	599 96	1 83	-4 88	-4 03	0 39	0 06	22 77
700 00	1 16	326 10	699 94	3 33	-6 03	-5 90	0 21	0 15	7 66
800 00	0 74	328 67	799 93	4 73	-6 93	-7 56	0 42	-0 42	2 57
900 00	0 75	8 35	899 92	5 92	-7 17	-8 72	0 51	0 01	39 68
1,000 00	0 47	18 29	999 92	6 96	-6 95	-9 50	0 30	-0 28	9 94
1,100 00	0 45	31 87	1,099 91	7 68	-6 61	-9 96	0 11	-0 02	13 58

Scientific Drilling

Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Wichita State #2
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3674 00ft (Ground Elev)
Site:	Wichita State #2	MD Reference:	WELL @ 3674 00ft (Ground Elev)
Well:	Wichita State #2	North Reference:	Grid
Wellbore:	OH	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 84	46 15	1,199 91	8 53	-5 88	-10 32	0 42	0 39	14 28
1,230 00	0 62	32 97	1,229 90	8 81	-5 63	-10 45	0 92	-0 73	-43 93
Last GYRO Survey									
1,285 00	0 77	54 98	1,284 90	9 28	-5 17	-10 62	0 55	0 27	40 02
1,336 00	0 95	102 13	1,335 89	9 38	-4 47	-10 36	1 39	0 35	92 45
1,399 00	1 88	143 35	1,398 88	8 44	-3 34	-8 99	2 10	1 48	65 43
1,463 00	3 03	149 02	1,462 82	6 15	-1 85	-6 25	1 83	1 80	8 86
1,527 00	3 22	154 23	1,526 72	3 08	-0 19	-2 77	0 53	0 30	8 14
1,590 00	3 86	157 76	1,589 60	-0 47	1 38	1 10	1 07	1 02	5 60
1,654 00	4 93	160 72	1,653 41	-5 06	3 10	5 93	1 71	1 67	4 62
1,717 00	6 07	160 11	1,716 12	-10 75	5 13	11 87	1 81	1 81	-0 97
1,781 00	7 09	154 62	1,779 70	-17 50	7 97	19 14	1 87	1 59	-8 58
1,845 00	8 07	154 74	1,843 14	-25 13	11 58	27 56	1 53	1 53	0 19
1,908 00	8 79	152 38	1,905 46	-33 40	15 70	36 77	1 27	1 14	-3 75
1,940 00	8 88	149 94	1,937 08	-37 70	18 07	41 68	1 20	0 28	-7 62
2,004 00	8 15	144 68	2,000 37	-45 68	23 17	51 14	1 67	-1 14	-8 22
2,067 00	7 64	141 21	2,062 78	-52 59	28 37	59 73	1 11	-0 81	-5 51
2,131 00	7 12	140 00	2,126 25	-58 94	33 59	67 84	0 85	-0 81	-1 89
2,195 00	7 00	144 35	2,189 76	-65 15	38 41	75 63	0 86	-0 19	6 80
2,258 00	6 78	153 57	2,252 31	-71 60	42 30	83 16	1 79	-0 35	14 63
2,322 00	7 80	158 81	2,315 79	-79 03	45 56	91 22	1 90	1 59	8 19
2,385 00	8 68	157 94	2,378 14	-87 42	48 89	100 15	1 41	1 40	-1 38
2,449 00	9 80	154 07	2,441 31	-96 80	53 08	110 37	2 00	1 75	-6 05
2,513 00	10 62	151 50	2,504 30	-106 88	58 28	121 70	1 47	1 28	-4 02
2,576 00	10 98	147 96	2,566 18	-117 07	64 23	133 50	1 20	0 57	-5 62
2,640 00	11 02	144 70	2,629 00	-127 22	71 00	145 68	0 97	0 06	-5 09
2,703 00	10 27	143 09	2,690 92	-136 63	77 85	157 25	1 28	-1 19	-2 56
2,767 00	10 34	140 98	2,753 89	-145 65	84 89	168 59	0 60	0 11	-3 30
2,830 00	9 40	141 38	2,815 95	-154 07	91 66	179 26	1 50	-1 49	0 63
2,894 00	8 78	146 82	2,879 15	-162 24	97 60	189 30	1 65	-0 97	8 50
2,958 00	9 00	148 45	2,942 38	-170 59	102 89	199 18	0 52	0 34	2 55
3,021 00	7 95	145 94	3,004 69	-178 40	107 91	208 46	1 77	-1 67	-3 98
3,085 00	7 75	147 49	3,068 09	-185 71	112 71	217 18	0 46	-0 31	2 42
3,148 00	7 85	148 87	3,130 51	-192 97	117 22	225 73	0 34	0 16	2 19
3,244 00	7 88	155 95	3,225 61	-204 59	123 29	238 83	1 01	0 03	7 37
3,307 00	7 79	154 80	3,288 02	-212 40	126 87	247 38	0 29	-0 14	-1 83
3,377 00	8 03	153 12	3,357 36	-221 05	131 10	256 99	0 48	0 34	-2 40
3,440 00	8 05	153 54	3,419 74	-228 93	135 05	265 78	0 10	0 03	0 67
3,504 00	8 12	151 90	3,483 10	-236 93	139 18	274 77	0 38	0 11	-2 56
3,568 00	7 89	151 52	3,546 48	-244 77	143 40	283 68	0 37	-0 36	-0 59
3,631 00	7 90	150 23	3,608 88	-252 33	147 61	292 33	0 28	0 02	-2 05
3,698 00	7 91	150 35	3,675 24	-260 34	152 18	301 55	0 03	0 01	0 18
3,758 00	7 80	148 86	3,734 68	-267 41	156 33	309 75	0 39	-0 18	-2 48
3,822 00	7 65	148 35	3,798 10	-274 75	160 81	318 35	0 26	-0 23	-0 80
3,886 00	7 37	149 17	3,861 55	-281 90	165 15	326 71	0 47	-0 44	1 28
3,949 00	8 09	154 10	3,923 98	-289 36	169 15	335 17	1 55	1 14	7 83
4,013 00	8 22	153 02	3,987 33	-297 49	173 20	344 23	0 31	0 20	-1 69
4,076 00	9 26	152 16	4,049 60	-305 99	177 61	353 79	1 66	1 65	-1 37
4,172 00	9 61	150 90	4,144 30	-319 82	185 11	369 53	0 42	0 36	-1 31
4,267 00	9 72	150 82	4,237 95	-333 75	192 88	385 47	0 12	0 12	-0 08
4,330 00	8 18	155 17	4,300 18	-342 46	197 35	395 25	2 67	-2 44	6 90
4,426 00	8 27	153 39	4,395 20	-354 83	203 31	408 95	0 28	0 09	-1 85
4,489 00	7 88	152 94	4,457 57	-362 73	207 31	417 78	0 63	-0 62	-0 71
4,553 00	7 59	153 68	4,520 99	-370 42	211 18	426 38	0 48	-0 45	1 16

Scientific Drilling

Survey Report



Company:	COG Operating LLC	Local Co-ordinate Reference:	Well Wichita State #2
Project:	Eddy County, NM (NAD 27 NME)	TVD Reference:	WELL @ 3674 00ft (Ground Elev)
Site:	Wichita State #2	MD Reference:	WELL @ 3674 00ft (Ground Elev)
Well:	Wichita State #2	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003 16 Single User Db

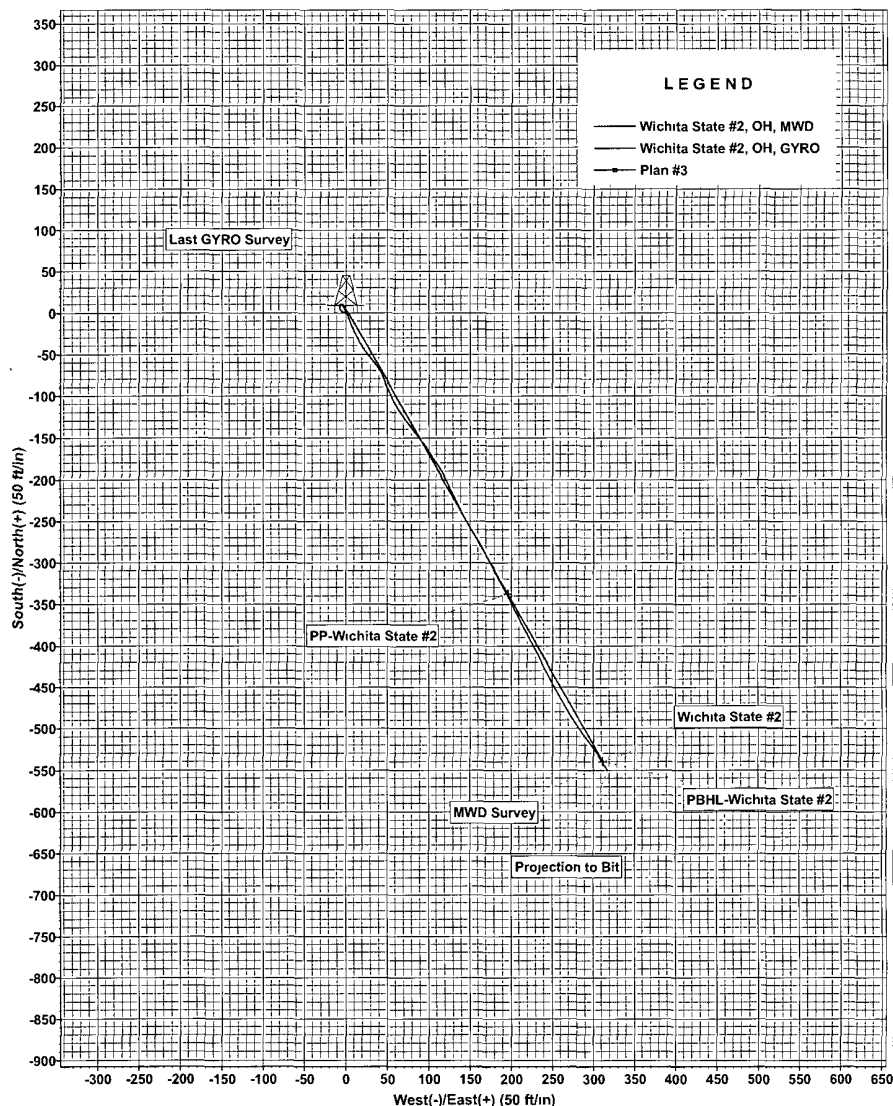
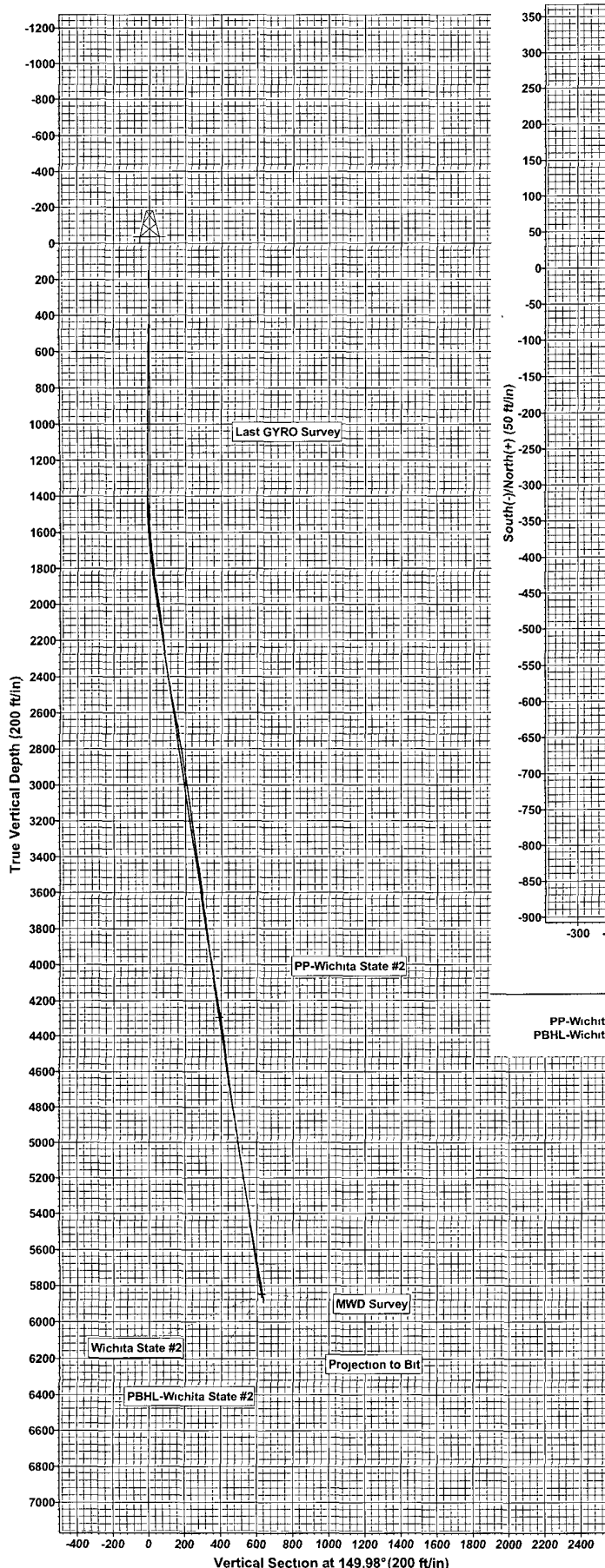
Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,616 00	7 23	153 00	4,583 46	-377 68	214 82	434 49	0 59	-0 57	-1 08
4,680 00	8 16	150 77	4,646 89	-385 24	218 87	443 06	1 53	1 45	-3 48
4,744 00	8 19	152 36	4,710 24	-393 24	223 20	452 15	0 36	0 05	2 48
4,775 00	8 14	152 96	4,740 92	-397 15	225 22	456 55	0 32	-0 16	1 94
4,871 00	8 55	152 65	4,835 91	-409 54	231 59	470 47	0 43	0 43	-0 32
4,934 00	8 74	152 28	4,898 19	-417 94	235 97	479 93	0 31	0 30	-0 59
4,998 00	8 46	153 20	4,961 47	-426 44	240 35	489 49	0 49	-0 44	1 44
5,061 00	8 66	151 14	5,023 77	-434 74	244 73	498 86	0 58	0 32	-3 27
5,125 00	8 67	151 92	5,087 04	-443 21	249 33	508 49	0 18	0 02	1 22
5,189 00	8 59	150 72	5,150 31	-451 64	253 94	518 09	0 31	-0 12	-1 87
5,302 00	8 63	151 29	5,262 04	-466 43	262 14	535 01	0 08	0 04	0 50
5,316 00	8 67	150 47	5,275 88	-468 27	263 16	537 11	0 93	0 29	-5 86
5,379 00	8 53	149 93	5,338 17	-476 45	267 84	546 53	0 26	-0 22	-0 86
5,443 00	8 64	150 14	5,401 46	-484 72	272 61	556 09	0 18	0 17	0 33
5,507 00	9 07	146 76	5,464 69	-493 11	277 77	565 93	1 05	0 67	-5 28
5,570 00	9 53	142 89	5,526 87	-501 42	283 64	576 07	1 23	0 73	-6 14
5,634 00	9 61	144 30	5,589 97	-509 99	289 96	586 64	0 39	0 12	2 20
5,697 00	9 31	143 22	5,652 12	-518 34	296 08	596 93	0 55	-0 48	-1 71
5,761 00	9 21	143 91	5,715 28	-526 62	302 19	607 17	0 23	-0 16	1 08
5,825 00	9 02	146 90	5,778 48	-534 97	307 95	617 27	0 80	-0 30	4 67
5,894 00	8 94	147 72	5,846 63	-544 03	313 77	628 03	0 22	-0 12	1 19
MWD Survey									
5,944 00	8 94	147 72	5,896 02	-550 60	317 92	635 79	0 00	0 00	0 00
Projection to Bit									

Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL-Wichita State #2	0 00	0 00	5,850 00	-539 70	311 90	666,463 70	607,969 10	32° 49' 54 125 N	103° 58' 54 592 W
- actual wellpath misses by 5 80ft at 5894 00ft MD (5846 63 TVD, -544 03 N, 313 77 E)									
- Point									
PP-Wichita State #2	0 00	0 00	4,300 00	-337 33	196 35	666,666 07	607,853 55	32° 49' 56 132 N	103° 58' 55 938 W
- actual wellpath misses by 5 15ft at 4329 04ft MD (4299 23 TVD, -342 33 N, 197 30 E)									
- Point									

Checked By _____ Approved By _____ Date _____

COG Operating LLC

Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAD 27 NME)
Well: Wichita State #2
Wellbore: OH
Design: Plan #3 vs Actual



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PP-Wichita State #2	4300 00	-337 33	196 35	666666 07	607853 55	32°49' 56 132 N	103°58' 55 938 W	Point
PBHL-Wichita State #2	5850 00	-539 70	311 90	666463.70	607969 10	32°49' 54 125 N	103°58' 54 592 W	Point

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 49292.2nT
Dip Angle 60.77°
Date 2/15/2008
Model IGRF200510

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	1230 00	0.62	32 97	1229 90	8 81	-5.63	0 00	0 00	-10.45	
2	1400 00	0 62	32 97	1399 89	10.36	-4 63	0 00	0 00	-11.28	
3	1842.58	8.55	150.27	1840.88	-16 26	13 02	2 00	120.85	20.59	
4	5896.76	8.55	150.27	5850 00	-539 70	311 90	0 00	0 00	623.34	PBHL-Wichita State #2

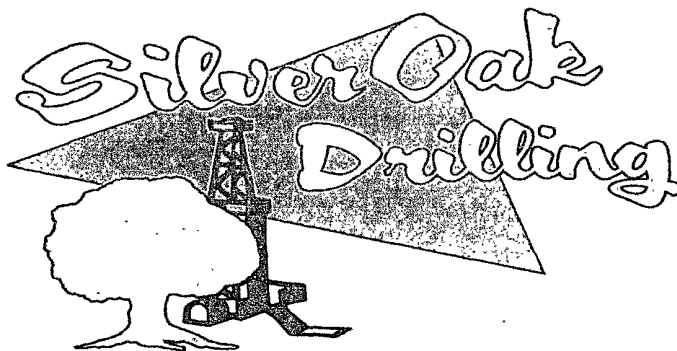
WELL DETAILS: Wichita State #2

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0 00	667003.40	607657 20	32°49' 59 476 N	103°58' 58 226 W	

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

Plan: Plan #3 (Wichita State #2/OH)

Geodetic System: US State Plane 1927 (Exact solution) Created By: Julio Pina Date: 15-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: _____



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

February 19, 2008

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

RE: Wichita State #2
2190' FSL & 680' FWL
Sec. 16, T17S, R30E
Eddy County, New Mexico

Dear Sir,

The Deviation Survey for the above captioned well is attached.

Very truly yours,

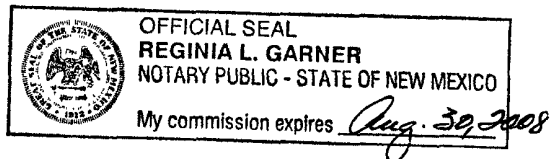
A handwritten signature in cursive script, appearing to read "Eddie LaRue".

Eddie LaRue
Operations Manager

State of New Mexico }
County of Eddy }

The foregoing was acknowledged before me this 19th day of February, 2008.

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

Notary Public

Date	Depth	Dev	TVD	Horiz Disp
01/31/2008	250.00	0.75		
01/31/2008	393.00	1.00		
02/02/2008	519.00	0.50		
02/03/2008	920.00	0.75	960.00	
02/05/2008	1336.00	0.95	1386.00	102.10
02/05/2008	1399.00	1.88	1449.00	143.30
02/05/2008	1463.00	3.03	1513.00	149.10
02/06/2008	1527.00	3.22	1577.00	154.20
02/06/2008	1590.00	3.86	1640.00	157.90
02/06/2008	1654.00	4.93	1704.00	160.70
02/06/2008	1727.00	6.07	1767.00	160.10
02/06/2008	1791.00	7.09	1831.00	154.60
02/06/2008	1845.00	8.07	1895.00	154.70
02/06/2008	1908.00	8.79	1958.00	152.38
02/06/2008	1940.00	8.88	1990.00	149.90
02/06/2008	2004.00	8.15	2054.00	144.60
02/07/2008	2067.00	7.64	2117.00	141.20
02/07/2008	2131.00	7.12	2181.00	140.00
02/07/2008	2195.00	7.00	2245.00	144.30
02/07/2008	2268.00	6.78	2308.00	153.30
02/07/2008	2333.00	7.80		158.80
02/07/2008	2385.00	8.68	2435.00	157.90
02/07/2008	2449.00	9.80	2499.00	154.00
02/08/2008	2513.00	10.62	2563.00	151.50
02/08/2008	2576.00	10.98	2626.00	147.90
02/08/2008	2640.00	11.02		144.70
02/08/2008	2713.00	10.27	2153.00	143.00
02/08/2008	2757.00	11.08		140.90
02/08/2008	2830.00	9.40	2880.00	141.30
02/08/2008	2894.00	8.78	2944.00	146.80
02/08/2008	2958.00	9.00	3008.00	148.40
02/09/2008	3001.00	7.95	3051.00	145.90
02/09/2008	3085.00	7.75	3135.00	147.40
02/09/2008	3148.00	7.85	3198.00	148.80
02/09/2008	3254.00	7.88		155.90
02/09/2008	3317.00	7.79		154.80
02/09/2008	3377.00	8.03	3427.00	153.10
02/10/2008	3504.00	8.12		151.90
02/10/2008	3568.00	7.89		151.50
02/10/2008	3632.00	7.90		150.20
02/10/2008	3698.00	7.91		150.35
02/10/2008	3758.00	7.80		148.86
02/10/2008	3822.00	7.65		148.35
02/10/2008	4013.00	8.22	4063.00	153.00
02/10/2008	4076.00	9.26	4126.00	152.10
02/10/2008	4172.00	9.61	4222.00	150.90
02/11/2008	4267.00	9.72		150.80
02/11/2008	4330.00	8.18		155.10
02/11/2008	4426.00	8.27		153.30
02/11/2008	4489.00	7.88		152.90
02/11/2008	4553.00	7.59		153.60
02/11/2008	4617.00	7.23		153.00
02/11/2008	4680.00	8.16		150.70
02/11/2008	4744.00	8.19		152.30

Date	Depth	Dev	TVD	Horiz Disp
02/11/2008	4775.00	8.14	4825.00	152.90
02/12/2008	4871.00	8.55		152.60
02/12/2008	4934.00	8.74		152.20
02/12/2008	4998.00	8.46		153.20
02/12/2008	5061.00	8.66		151.14
02/12/2008	5125.00	8.67		151.92
02/12/2008	5189.00	8.71	5239.00	150.70
02/12/2008	5252.00	8.63	5302.00	151.20
02/13/2008	5316.00	8.67		150.40
02/13/2008	5379.00	8.53		149.90
02/13/2008	5443.00	8.64		150.10
02/13/2008	5570.00	9.53		142.80
02/13/2008	5634.00	9.61		144.30
02/13/2008	5697.00	9.31		143.20
02/13/2008	5761.00	9.21	5811.00	143.90
02/13/2008	5894.00	8.90	5944.00	146.10
# EOF				

Keltic Services, Inc

Box 1857
Artesia, NM
88211

505 748 3759**Temperature Survey**

Company	COG OPERATING	Date	02/01/08
Well	WICHITA STATE #2	Time Plug Down	1200 hrs
		Time Start Survey	1600 hrs
		Time End Survey	1700 hrs
Casing String	SURFACE	Depth Reached	340 ft

Cement Top **180 ft.**

Gauge 205

Operator: Julian

Witness: CHARLES GRAHAM

Keltic Services Inc
Temperature SurveyCompany COG OPERATING
Well WICHITA STATE #2Date 2/1/08
Plug Down 1200 hrs
Survey Start 1600 hrs
Operator Julian

Cement Top 180 ft

Depth ft	Temp. °F	Comments
20	70.3	
100	71.4	
150	72.0	
180	72.1	CT
200	75.4	
250	78.1	
300	79.6	
340	80.1	

