

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies 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 and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505	Form C-105 Revised June 10, 2003 WELL API NO. 30-015-36057 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.					
WELL COMPLETION OR RECOMPLETION REPORT AND LOG							
1a Type of Well: OIL WELL ☒ GAS WELL ☐ DRY ☐ OTHER _____ b Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF WELL OVER ☐ BACK RESVR ☐ OTHER		7. Lease Name or Unit Agreement Name G J WEST COOP UNIT					
2. Name of Operator COG Operating LLC		8. Well No. 185					
3. Address of Operator 550 W. Texas Ave., Suite 1300 Midland, TX 79701		9. Pool name or Wildcat GJ; 7RVS-QN-GB-GLORIETA-YESO 97558					
4 Well Location Unit Letter <u>B</u> <u>590</u> Feet From The <u>North</u> Line and <u>1718</u> Feet From The <u>East</u> Line Section <u>22</u> Township <u>17S</u> Range <u>29E</u> NMPM County <u>Eddy</u>							
10 Date Spudded 6/19/08	11 Date T D Reached 06/29/08	12 Date Compl (Ready to Prod) 07/16/08	13 Elevations (DF& RKB, RT, GR, etc) 3654 GR	14 Elev Casinghead			
15 Total Depth 5528	16 Plug Back T D 5475	17 If Multiple Compl. How Many Zones? 	18 Intervals Drilled By X	Rotary Tools Cable Tools			
19 Producing Interval(s), of this completion - Top, Bottom, Name 4650 - 5390 Yeso				20 Was Directional Survey Made No			
21 Type Electric and Other Logs Run CN / HNGS, Micro CFL / HNGS			22 Was Well Cored No				
23. CASING RECORD (Report all strings set in well)							
CASING SIZE	WEIGHT LB / FT.	DEPTH SET	HOLE SIZE	CEMENTING RECORD	AMOUNT PULLED		
17-1/2	48	318	13-3/8	350	Circ 110		
11	24	857	8-5/8	600	Circ 119		
7-7/8	17	5527	5-1/2	1100	Circ 177		
24. LINER RECORD			25. TUBING RECORD				
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET	PACKER SET
					2-7/8	4538	
26. Perforation record (interval, size, and number) 4650 - 4850 - 2 SPF, 36 holes Open 4920 - 5120 - 2 SPF, 36 holes Open 5190 - 5390 - 2 SPF, 36 holes Open			27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND KIND MATERIAL USED 4650 - 4850 See Attachment 4920 - 5120 See Attachment 5190 - 5390 See Attachment				
28. PRODUCTION							
Date First Production 7/24/08		Production Method (Flowing, gas lift, pumping - Size and type pump) Pumping using a 2-1/2" x 2" x 25' RHTC pump			Well Status (Prod or Shut-in) Producing		
Date of Test 7/30/08	Hours Tested 24	Choke Size	Prod'n For Test Period	Oil - Bbl 296	Gas - MCF 204	Water - Bbl 403	Gas - Oil Ratio 689
Flow Tubing Press	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl	Gas - MCF	Water - Bbl	Oil Gravity - API - (Corr) 39.2	
29 Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD						Test Witnessed By Kent Greenway	
30 List Attachments Logs, C102, C103, Deviation Report, C104							
31 I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief							
Signature		Printed Name Kanicia Carrillo		Title Regulatory Analyst		Date 08/18/08	
E-mail Address kcarrillo@conchoresources.com 432-685-4332							

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or deepened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka	T. Pictured Cliffs	T. Penn. "D"
T. Yates 910	T. Miss	T. Cliff House	T. Leadville
T. 7 Rivers 1200	T. Devonian	T. Menefee	T. Madison
T. Queen 1810	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres 2490	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Spring	T. Entrada	T.
T. Abo	T. Yeso 4010	T. Wingate	T.
T. Wolfcamp	T. Mississippian	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GA SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

Include data on rate of water inflow and elevation to which water rose in hole.

No. 1, from.....to.....feet.....
No. 2, from.....to.....feet.....
No. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

From	To	Thickness In Feet	Lithology

G J WEST COOP UNIT #185
API#: 30-015-36057
EDDY, NM

C-105 (#27) ADDITIONAL INFORMATION

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4650 - 4850	Acidize w/2,500 gals acid
	Frac w/96,453 gals gel, 19,552 # Siberprop,
	84,828# 16/30 sand.

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
4920 - 5120	Acidize w/3,500 gals acid
	Frac w/128,390 gals gel, 28,180 # Siberprop,
	151,195# 16/30 sand.

27 ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
5190 - 5390	Acidize w/3,500 gals acid
	Frac w/128,364 gals gel, 29,959 # Siberprop,
	146,571# 16/30 sand.

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

Form C-102
 Permit 67144

WELL LOCATION AND ACREAGE DEDICATION PLAT

1 API Number 30-015-36057	2 Pool Code 97558	3. Pool Name GJ;7RVS-QN-GB-GLORIETA-YESO
4. Property Code 302497	5. Property Name G J WEST COOP UNIT	6. Well No. 185
7 OGRID No. 229137	8 Operator Name COG OPERATING LLC	9. Elevation 3654

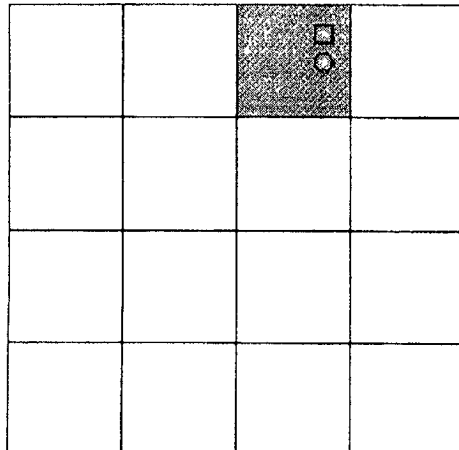
10. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	22	17S	29E		500	N	1718	E	EDDY

11. Bottom Hole Location If Different From Surface

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
B	22	17S	29E		323	N	1651	E	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 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.

E-Signed By: Diane Kuykendall

Title: Regulatory Analyst

Date: 1/14/2008

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.

Surveyed By: Ronald Eidson

Date of Survey: 12/19/2007

Certificate Number: 3239

RECEIVED

AUG 25 2008

HOBBS OCD

COG Operating

Eddy County, NM (NAN27 NME)

GJ West Coop Unit #185

GJ West Coop Unit #185

OH

Design: Actual

Standard Survey Report

30 June, 2008



Scientific Drilling
Directional Drilling Operations

Scientific Drilling

Survey Report



Company:	COG Operating	Local Co-ordinate Reference:	Well GJ West Coop Unit #185
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Site:	GJ West Coop Unit #185	MD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Well:	GJ West Coop Unit #185	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Actual	Database:	EDM 2003 16 Single User Db

Project	Eddy County, NM (NAN27 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		GJ West Coop Unit #185			
Site Position:		Northing:	664,168 800 ft	Latitude:	32° 49' 32 112 N
From:	Map	Easting:	584,230 000 ft	Longitude:	104° 3' 32 883 W
Position Uncertainty:	0 00 ft	Slot Radius:	"	Grid Convergence:	0 15 °

Well	GJ West Coop Unit #185					
Well Position	+N/-S	0 00 ft	Northing:	664,168 800 ft	Latitude:	32° 49' 32 112 N
	+E/-W	0 00 ft	Easting:	584,230 000 ft	Longitude:	104° 3' 32 883 W
Position Uncertainty		0 00 ft	Wellhead Elevation:	ft	Ground Level:	3,564 00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	6/30/2008	8 20	60 74	49,243

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)	Direction (°)
	0 00	0 00	0 00	14 45

Survey Program	Date	6/30/2008			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
100 00	810 00	GYRO (OH)	Keeper	Standard Wireline Keeper ver 1 0 2	
895 00	5,528 00	MWD (OH)	MWD	MWD - Standard	

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	1 03	358 75	99 99	0 90	-0 02	0 87	1 03	1 03	0 00	
200 00	0 64	342 04	199 98	2 33	-0 21	2 20	0 46	-0 39	-16 71	
300 00	0 70	348 25	299 98	3 46	-0 51	3 22	0 09	0 06	6 21	
400 00	0 98	356 07	399 97	4 91	-0 69	4 58	0 30	0 28	7 82	
500 00	1 04	6 20	499 95	6 66	-0 65	6 29	0 19	0 06	10 13	
600 00	1 11	31 96	599 93	8 39	-0 04	8 11	0 48	0 07	25 76	
700 00	1 08	61 84	699 92	9 65	1 30	9 67	0 57	-0 03	29 88	
800 00	0 89	78 20	799 90	10 26	2 89	10 66	0 34	-0 19	16 36	
810 00	1 01	72 39	809 90	10 30	3 05	10 74	1 54	1 20	-58 10	
Last GYRO Survey										
895 00	0 69	84 24	894 89	10 58	4 28	11 31	0 43	-0 38	13 94	

Scientific Drilling Survey Report



Company:	COG Operating	Local Co-ordinate Reference:	Well GJ West Coop Unit #185
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Site:	GJ West Coop Unit #185	MD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Well:	GJ West Coop Unit #185	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)
959 00	1 34	23 93	958 88	11 30	4 96	12 18	1 82	1 02	-94 23
1,023 00	2 96	20 46	1,022 83	13 53	5 85	14 56	2 54	2 53	-5 42
1,087 00	3 74	18 96	1,086 73	17 06	7 10	18 29	1 23	1 22	-2 34
1,150 00	3 74	17 51	1,149 59	20 96	8 39	22 39	0 15	0 00	-2 30
1,214 00	3 52	3 35	1,213 46	24 91	9 13	26 40	1 44	-0 34	-22 12
1,309 00	3 48	0 79	1,308 29	30 71	9 34	32 06	0 17	-0 04	-2 69
1,373 00	3 54	22 44	1,372 17	34 47	10 12	35 91	2 06	0 09	33 83
1,469 00	3 25	21 07	1,468 00	39 75	12 23	41 55	0 31	-0 30	-1 43
1,532 00	3 06	21 47	1,530 91	42 98	13 49	44 99	0 30	-0 30	0 63
1,601 00	2 80	25 22	1,599 82	46 22	14 88	48 47	0 47	-0 38	5 43
1,664 00	2 71	18 84	1,662 74	49 02	16 02	51 47	0 51	-0 14	-10 13
1,728 00	2 49	12 67	1,726 68	51 81	16 81	54 37	0 56	-0 34	-9 64
1,792 00	3 05	14 25	1,790 60	54 82	17 53	57 46	0 88	0 87	2 47
1,856 00	3 10	10 39	1,854 51	58 17	18 27	60 89	0 33	0 08	-6 03
1,919 00	2 74	14 78	1,917 43	61 30	18 96	64 09	0 67	-0 57	6 97
1,983 00	3 04	17 02	1,981 35	64 41	19 84	67 32	0 50	0 47	3 50
2,015 00	3 06	12 49	2,013 30	66 05	20 28	69 02	0 76	0 06	-14 16
2,047 00	2 98	14 74	2,045 26	67 69	20 67	70 71	0 45	-0 25	7 03
2,111 00	3 31	13 11	2,109 16	71 10	21 52	74 22	0 53	0 52	-2 55
2,174 00	3 15	8 46	2,172 06	74 58	22 18	77 76	0 49	-0 25	-7 38
2,238 00	3 44	14 61	2,235 95	78 18	22 93	81 43	0 71	0 45	9 61
2,302 00	3 44	14 10	2,299 84	81 90	23 88	85 27	0 05	0 00	-0 80
2,365 00	3 49	12 18	2,362 72	85 61	24 74	89 07	0 20	0 08	-3 05
2,429 00	3 25	13 41	2,426 61	89 27	25 57	92 83	0 39	-0 37	1 92
2,492 00	3 14	8 24	2,489 52	92 72	26 24	96 33	0 49	-0 17	-8 21
2,556 00	3 48	9 96	2,553 41	96 37	26 82	100 01	0 55	0 53	2 69
2,620 00	3 40	8 90	2,617 29	100 16	27 45	103 84	0 16	-0 12	-1 66
2,684 00	3 31	8 83	2,681 18	103 86	28 03	107 57	0 14	-0 14	-0 11
2,747 00	3 38	13 12	2,744 08	107 46	28 73	111 23	0 41	0 11	6 81
2,811 00	3 16	10 25	2,807 97	111 04	29 47	114 88	0 43	-0 34	-4 48
2,875 00	3 40	15 70	2,871 87	114 60	30 30	118 53	0 61	0 37	8 52
2,938 00	3 45	14 97	2,934 75	118 23	31 30	122 30	0 11	0 08	-1 16
3,002 00	3 60	13 50	2,998 63	122 04	32 26	126 23	0 27	0 23	-2 30
3,066 00	3 55	12 93	3,062 51	125 93	33 17	130 22	0 10	-0 08	-0 89
3,129 00	3 68	15 62	3,125 38	129 77	34 16	134 19	0 34	0 21	4 27
3,193 00	3 67	17 52	3,189 25	133 71	35 33	138 29	0 19	-0 02	2 97
3,256 00	3 50	20 12	3,252 13	137 43	36 59	142 22	0 37	-0 27	4 13
3,320 00	3 46	19 39	3,316 01	141 09	37 91	146 09	0 09	-0 06	-1 14
3,384 00	3 29	18 02	3,379 90	144 66	39 12	149 84	0 29	-0 27	-2 14
3,448 00	3 06	17 47	3,443 80	148 03	40 20	153 38	0 36	-0 36	-0 86
3,511 00	3 02	21 32	3,506 71	151 18	41 31	156 71	0 33	-0 06	6 11
3,575 00	3 17	19 97	3,570 62	154 42	42 52	160 14	0 26	0 23	-2 11
3,639 00	3 20	14 38	3,634 52	157 81	43 57	163 69	0 49	0 05	-8 73
3,703 00	3 05	9 42	3,698 43	161 22	44 29	167 17	0 48	-0 23	-7 75
3,766 00	3 10	14 02	3,761 34	164 53	44 98	170 55	0 40	0 08	7 30
3,830 00	2 94	13 41	3,825 25	167 80	45 78	173 92	0 25	-0 25	-0 95
3,894 00	2 98	14 05	3,889 16	171 01	46 56	177 22	0 08	0 06	1 00
3,957 00	3 01	10 66	3,952 08	174 23	47 27	180 51	0 29	0 05	-5 38
4,021 00	2 57	10 98	4,016 00	177 29	47 85	183 62	0 69	-0 69	0 50
4,084 00	3 10	11 82	4,078 92	180 34	48 47	186 73	0 84	0 84	1 33
4,147 00	2 98	13 26	4,141 83	183 60	49 19	190 07	0 23	-0 19	2 29
4,211 00	3 03	18 46	4,205 75	186 83	50 11	193 42	0 43	0 08	8 12
4,275 00	2 81	19 25	4,269 66	189 91	51 16	196 67	0 35	-0 34	1 23
4,339 00	3 13	16 76	4,333 58	193 07	52 19	199 98	0 54	0 50	-3 89

Scientific Drilling

Survey Report



Company:	COG Operating	Local Co-ordinate Reference:	Well GJ West Coop Unit #185
Project:	Eddy County, NM (NAN27 NME)	TVD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Site:	GJ West Coop Unit #185	MD Reference:	Ground Elev @ 3564 00ft (Rig ?)
Well:	GJ West Coop Unit #185	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)	
4,402 00	3 38	13 29	4,396 47	196 52	53 11	203 56	0 51	0 40	-5 51	
4,466 00	3 41	12 97	4,460 36	200 21	53 97	207 35	0 06	0 05	-0 50	
4,530 00	3 41	13 89	4,524 25	203 91	54 85	211 15	0 09	0 00	1 44	
4,593 00	3 41	10 98	4,587 14	207 57	55 66	214 90	0 27	0 00	-4 62	
4,657 00	3 20	10 75	4,651 03	211 20	56 36	218 58	0 33	-0 33	-0 36	
4,721 00	3 29	10 07	4,714 93	214 76	57 01	222 19	0 15	0 14	-1 06	
4,785 00	3 22	10 30	4,778 83	218 34	57 65	225 82	0 11	-0 11	0 36	
4,849 00	3 27	10 58	4,842 72	221 90	58 31	229 43	0 08	0 08	0 44	
4,913 00	3 18	10 43	4,906 62	225 44	58 97	233 02	0 14	-0 14	-0 23	
4,976 00	3 76	7 23	4,969 51	229 21	59 54	236 81	0 97	0 92	-5 08	
5,040 00	4 01	7 04	5,033 36	233 51	60 08	241 11	0 39	0 39	-0 30	
5,136 00	4 07	7 94	5,129 12	240 21	60 96	247 83	0 09	0 06	0 94	
5,231 00	4 13	9 51	5,223 88	246 93	61 99	254 59	0 13	0 06	1 65	
5,263 00	4 17	10 73	5,255 79	249 21	62 40	256 89	0 30	0 12	3 81	
5,327 00	3 97	13 54	5,319 63	253 65	63 35	261 43	0 44	-0 31	4 39	
5,390 00	3 94	14 91	5,382 48	257 86	64 42	265 78	0 16	-0 05	2 17	
5,454 00	3 78	12 25	5,446 34	262 05	65 43	270 08	0 38	-0 25	-4 16	
5,482 00	3 81	13 48	5,474 27	263 85	65 85	271 94	0 31	0 11	4 39	
Last MWD Survey										
5,528 00	3 81	13 48	5,520 17	266 82	66 56	274 99	0 00	0 00	0 00	
Projection to Bit										

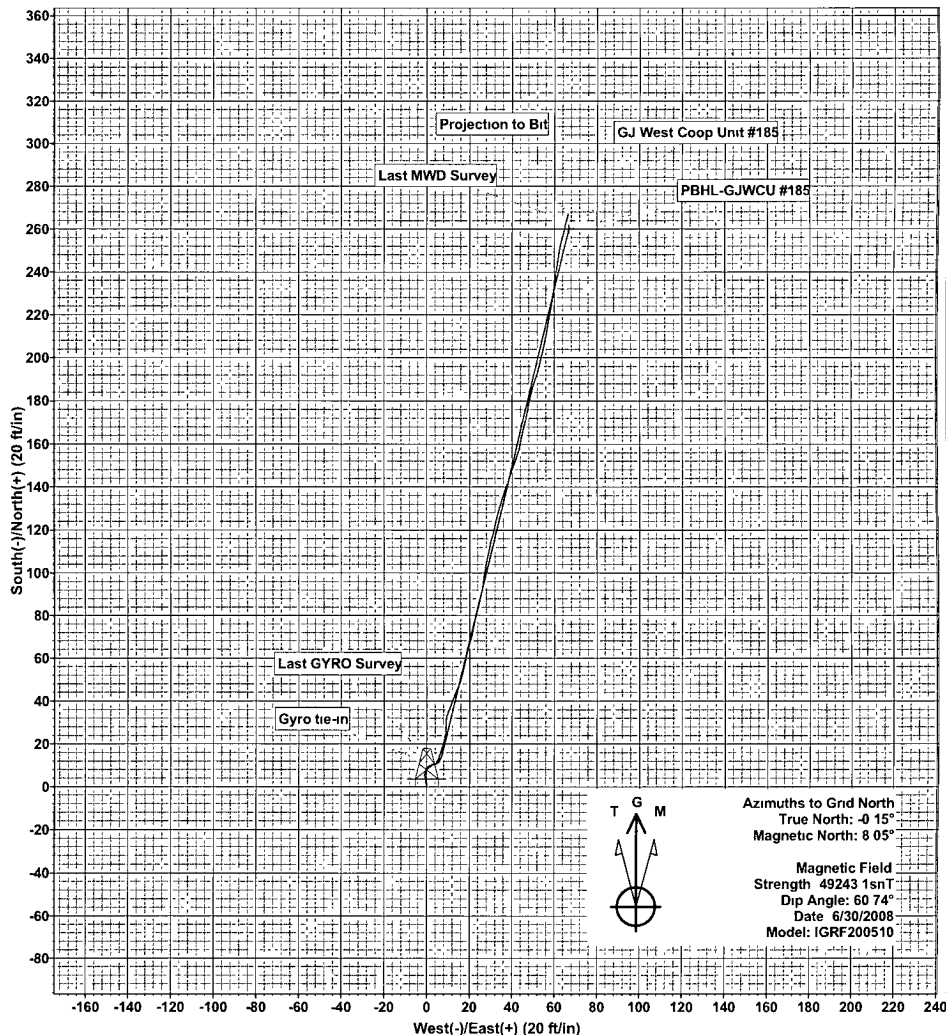
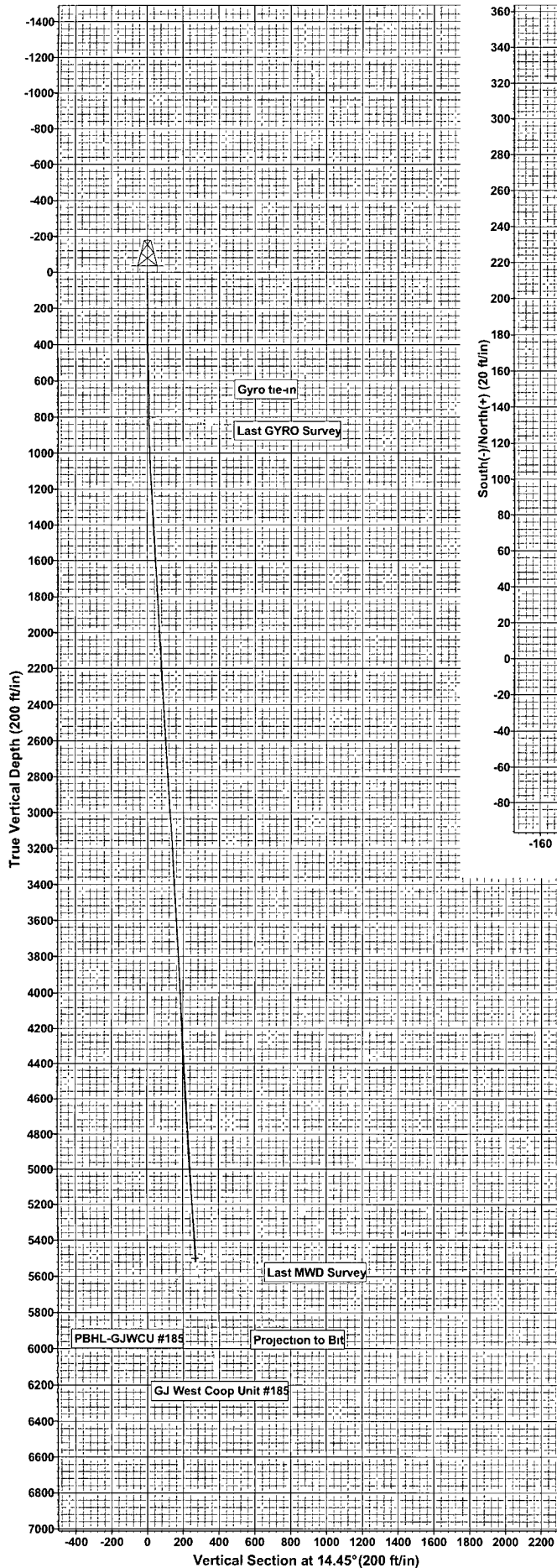
Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
- hit/miss target										
- Shape										
PBHL-GJWCU #185	0 00	0 00	5,500 00	260 00	67 00	664,428 800	584,297 000	32° 49' 34 683 N	104° 3' 32 090 W	
- actual wellpath misses by 5 56ft at 5507 44ft MD (5499 66 TVD, 265 50 N, 66 24 E)										
- Point										

Design Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates			
		+N/-S (ft)	+E/-W (ft)	Comment	
810 00	809 90	10 30	3 05	Last GYRO Survey	
5,482 00	5,474 27	263 85	65 85	Last MWD Survey	
5,528 00	5,520 17	266 82	66 56	Projection to Bit	

Checked By. _____	Approved By. _____	Date: _____
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COG Operating

Scientific Drilling for COG Operating
Site: Eddy County, NM (NAN27 NME)
Well: GJ West Coop Unit #185
Wellbore: OH
Design: Plan #3 vs Actual - 7 7/8" Hole



LEGEND

— GJ West Coop Unit #185, OH, MWD
— GJ West Coop Unit #185, OH, GYRO
— Plan #3 - 7 7/8" Hole

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 8.05°
To convert a True Direction to a Grid Direction, Subtract 0.15°

WELL DETAILS: GJ West Coop Unit #185

+N/-S	+E/-W	Ground Level:	3564.00
0.00	0.00	Northing	664168.800
		Easting	584230.000
		Latitude	32° 49' 32.112 N
		Longitude	104° 3' 32.883 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	810.00	1.01	72.39	809.90	10.30	3.05	0.00	0.00	10.74	
2	935.00	1.01	72.39	934.88	10.97	5.15	0.00	0.00	11.91	
3	1078.39	3.26	13.71	1078.17	15.31	7.32	2.00	-76.18	16.66	
4	5507.38	3.26	13.71	5500.00	260.00	67.00	0.00	0.00	268.49	PBHL-GJWCU #185

WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Shape
PBHL-GJWCU #185	5500.00	260.00	67.00	664428.800	584297.000	Point

PROJECT DETAILS: Eddy County, NM (NAN27 NME)

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: New Mexico East 3001
System Datum: Mean Sea Level

Plan: Plan #3 - 7 7/8" Hole (GJ West Coop Unit #185/OH)

Created By: Julio Pina Date: 30-Jun-08
Checked: _____ Date: _____
Reviewed: _____ Date: _____
Approved: _____ Date: _____