

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM83591

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
GISSLER FEDERAL 23H2. Name of Operator
COG OPERATING LLCContact: ROBYN ODOM
E-Mail: Rodom@concho.com9. API Well No.
30-015-412243a. Address
ONE CONCHO CENTER 600 W. ILLINOIS AVENUE
MIDLAND, TX 797013b. Phone No. (include area code)
Ph: 432-685-438510. Field and Pool, or Exploratory
LOCO HILLS; GLORIETA-YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 5 T17S R30E 990FNL 330FWL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	Change to Original A
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

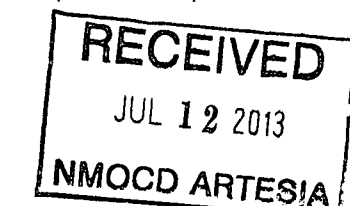
COG Operating LLC respectfully requests permission to change the name of this well to: Red Stripe 5 Federal Com #2H.

COG Operating LLC respectfully requests permission to move the surface location in Section 5 to the new SHL shown in the attached plats in Section 6 to avoid an existing pipeline and to add a battery at this location. The Battery will be added to the West side of the location measuring 70'x300'. No new disturbance will be necessary.

Please see attached Plat & Battery Schematic, Directional plan & SUPO.

Surf. ok 7/5/13 TEN - Originally Approved ~~COG~~ APD COA's apply to this Sundry Notice

Eng OK 5/23/13 CRW



Accepted for record
NMOC D

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #207933 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 05/21/2013 ()

Name (Printed/Typed) ROBYN ODOM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/20/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USEApproved By George MacDonell

Title

FIELD MANAGER

Date 7/10/13

Conditions of approval, if any, are attached. Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Office

CARLSBAD FIELD OFFICE

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

District I
1635 N. French Dr., Hobbs, NM 88210
Phone (575) 393-6141 Fax (505) 334-6720

District II
911 S. First St., Artesia, NM 88210
Phone (575) 343-1283 Fax (505) 334-6720

District III
1000 Rio Brazos Road, Aztec, NM 87410
Phone (505) 334-6173 Fax (505) 334-6170

District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone (505) 476-3460 Fax (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

¹ API Number 30-015-41224	² Pool Code 96718	³ Pool Name LOCO HILLS; GLORIETA-YESO
⁴ Property Code	⁵ Property Name RED STRIPE 5 FED. COM.	⁶ Well Number 2H
⁷ OGRID No. 229137	⁸ Operator Name COG OPERATING, LLC	⁹ Elevation 3703'

10 Surface Location

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
1	6	17-S	30-E		990	NORTH	90	EAST	EDDY

11 Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot 1 dn	Feet from the	North/South line	Feet from the	East/West line	County
1	5	17-S	30-E		970	NORTH	330	EAST	EDDY

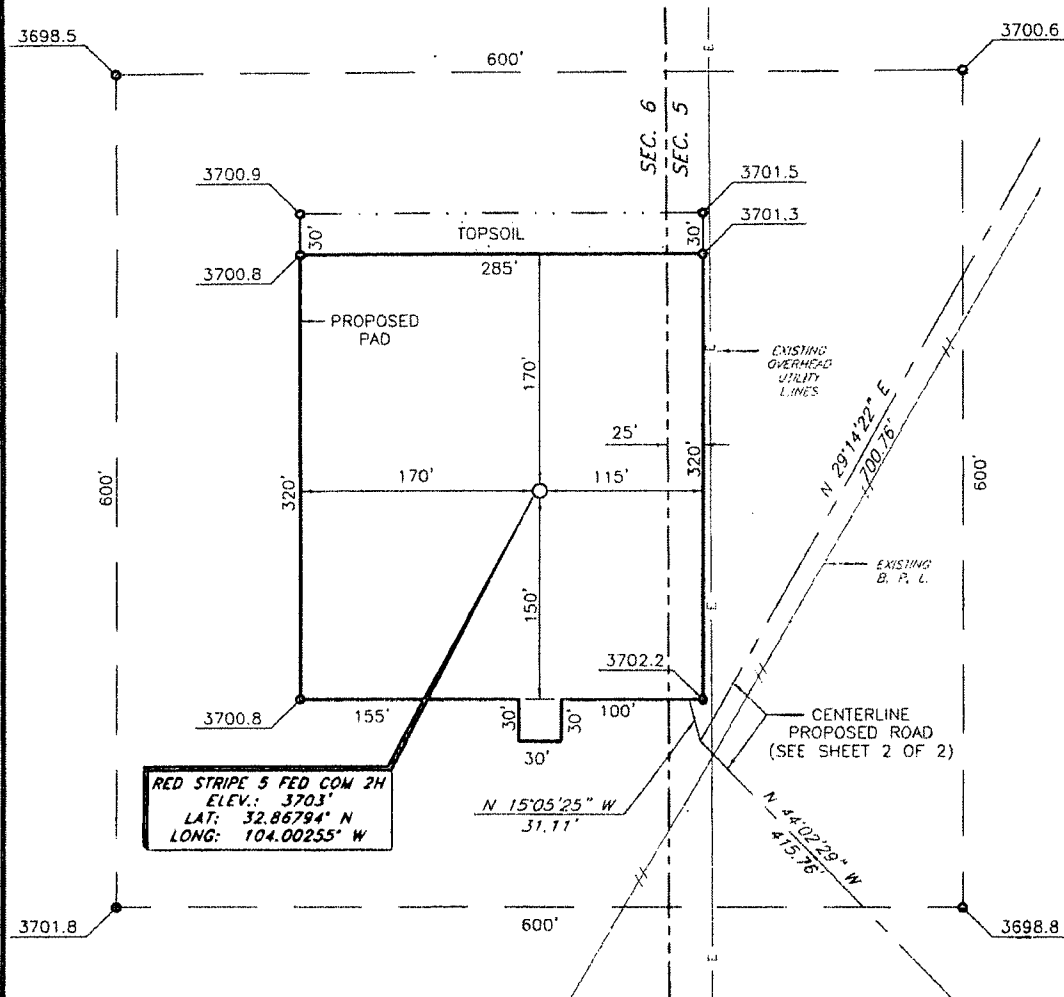
¹² Dedicated Acres 157.64	¹³ Joint or Infill	¹⁴ Consolidation Code	¹⁵ Order No.
--	-------------------------------	----------------------------------	-------------------------

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.

16 Producing Area Estimated Completed Interval: 966' ENL & 330' FWL DETAIL "A" S. L. 3598.5 600' 2700.6 3701.8 3598.8	17 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 undivided mineral interest in the land including the proposed bottom hole location or has a right to drill this well on the 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>Robyn M. Odom</i> 5/20/13 Signature Date Robyn M. Odom Printed Name Rodom@conhco.com E-mail Address
CORNER DATA NAD 27 GRID - NM EAST A: BRASS CAP "1914" N 675324.2 - E 596474.6 B: BRASS CAP "1914" N 677961.9 - E 596474.4 C: BRASS CAP "1914" N 680602.3 - E 596475.6 D: BRASS CAP "1916" N 580609.7 - E 599011.1 E: BRASS CAP "1916" N 680615.9 - E 601650.7 F: BRASS CAP N 675356.3 - E 601659.2 G: BRASS CAP N 675340.1 - E 599029.3 H: BRASS CAP "1916" N 680624.6 - E 604291.0 I: BRASS CAP "1916" N 680632.8 - E 606932.0 J: BRASS CAP "1916" N 678012.8 - E 606942.3 K: BRASS CAP "1916" N 675372.7 - E 606950.0 L: BRASS CAP "1916" N 675364.5 - E 604309.8 GEODETIC DATA NAD 27 GRID - NM EAST SURFACE LOCATION N 679626.9 - E 601564.2 LA1: 32.86794° N LONG: 104.00255° W BOTTOM LOCATION N 679661.8 - E 608605.8	18 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. 2/20/13 Date of Survey <i>Robert M. Howett</i> Signature and Seal of Professional Surveyor 19680 Certificate Number ROBERT M. HOWETT NEW MEXICO 19680 PROFESSIONAL SURVEYOR

COG OPERATING, LLC

Red Stripe 5 Fed. Com. 2H
(990' FNL & 90' FEL)
Section 6, T-17-S, R-30-E,
N. M. P. M., Eddy Co., New Mexico



RED STRIPE 5 FED COM 2H
ELEV.: 3703'
LAT: 32.86794° N
LONG: 104.00255° W

DIRECTIONS TO LOCATION

From the intersection of U. S. Hwy. No. 82 and
County Road No. 217 (Hagerman Cut-off);

Go North on Co. Rd. 217 approx. 3.1 miles;

Turn Left onto a lease road;

Follow lease road West approx. 0.9 mile to the
proposed road survey;

Follow the proposed road survey 0.3 mile to the
location.

SCALE: 1" = 100'

BEARINGS ARE
MAGNETIC
DISTANCES ARE
GROUND.

Copyright 2012 - All Rights Reserved

PROSPERITY CONSULTANTS, LLC



SCALE: 1" = 100'

DATE: 2/20/13

SURVEYED BY: RH/GB

DRAWN BY: LWB

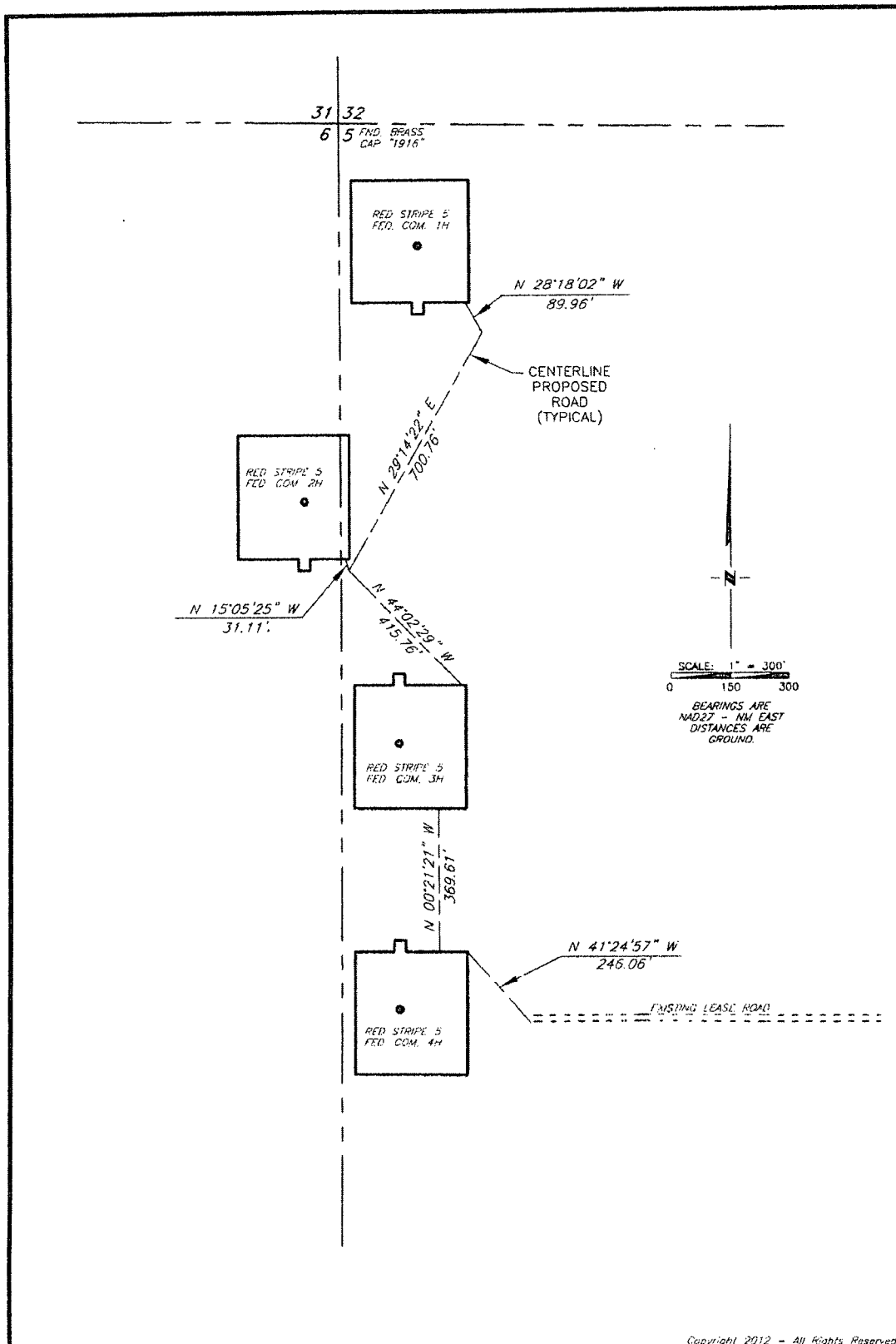
APPROVED BY: LWB

SHEET : 1 OF 2

NO.	REVISION	DATE
JOB NO.:	LS130050	
DWG. NO.:	130050PAD	

2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

(512) 992-2087 / (512) 251-2518



Copyright 2012 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.: LS130050		
DWG. NO.: 130050RD		

PROSPERITY CONSULTANTS, LLC



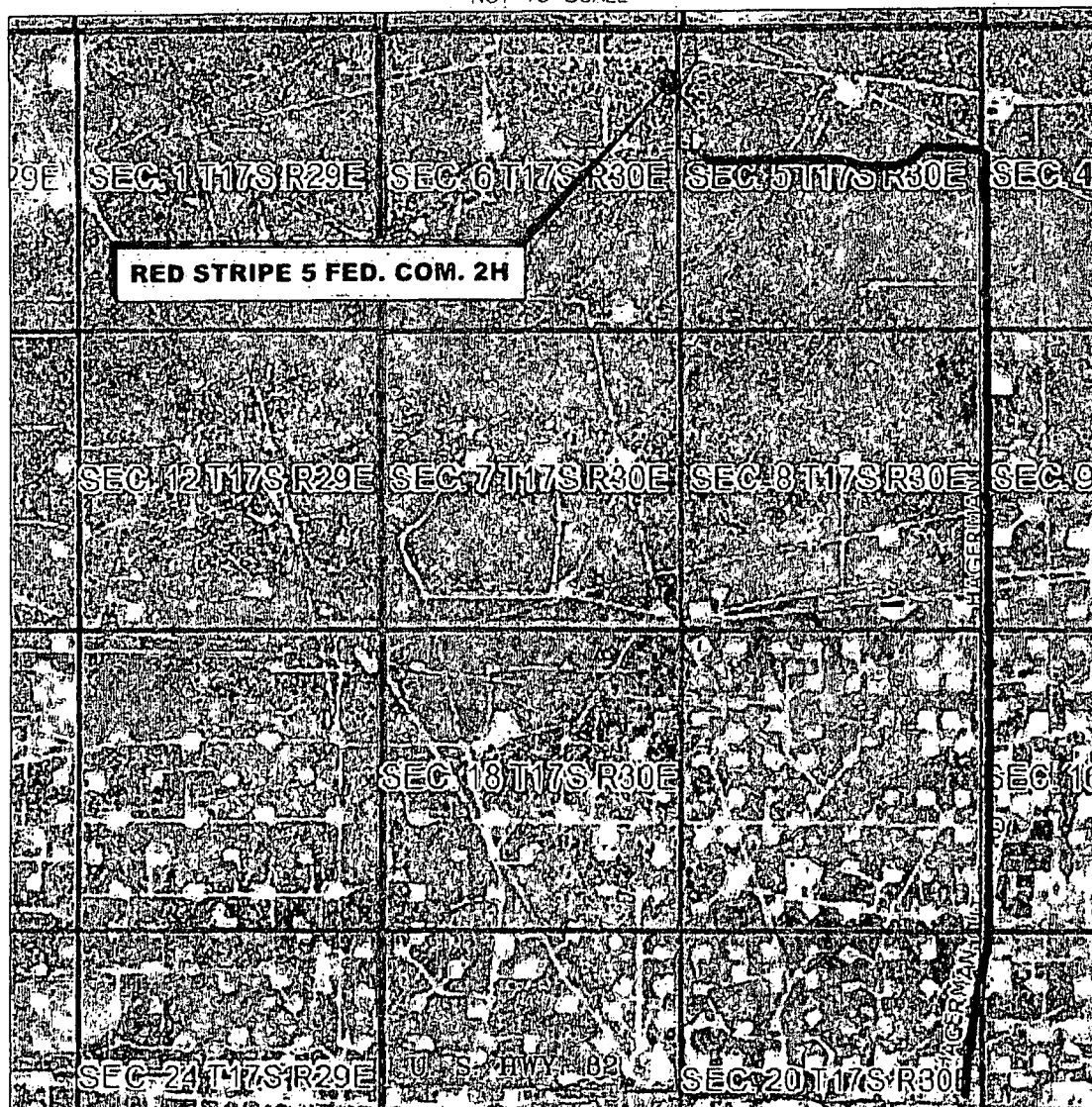
2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

(512) 992-2087 / (512) 251-2518

SCALE: 1" = 300'
DATE: 2/20/13
SURVEYED BY: GB/SM
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 2 OF 2

VICINITY MAP

NOT TO SCALE



SECTION 6, TWP. 17 SOUTH, RGE. 30 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Red Stripe 5 Fed. Com.
WELL NO.: 2H

LOCATION: 990' FNL & 90' FEL
ELEVATION: 3703'

Copyright 2012 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.:	LS130050	
DWG. NO.:	130050VM	

PROSPERITY CONSULTANTS, LLC

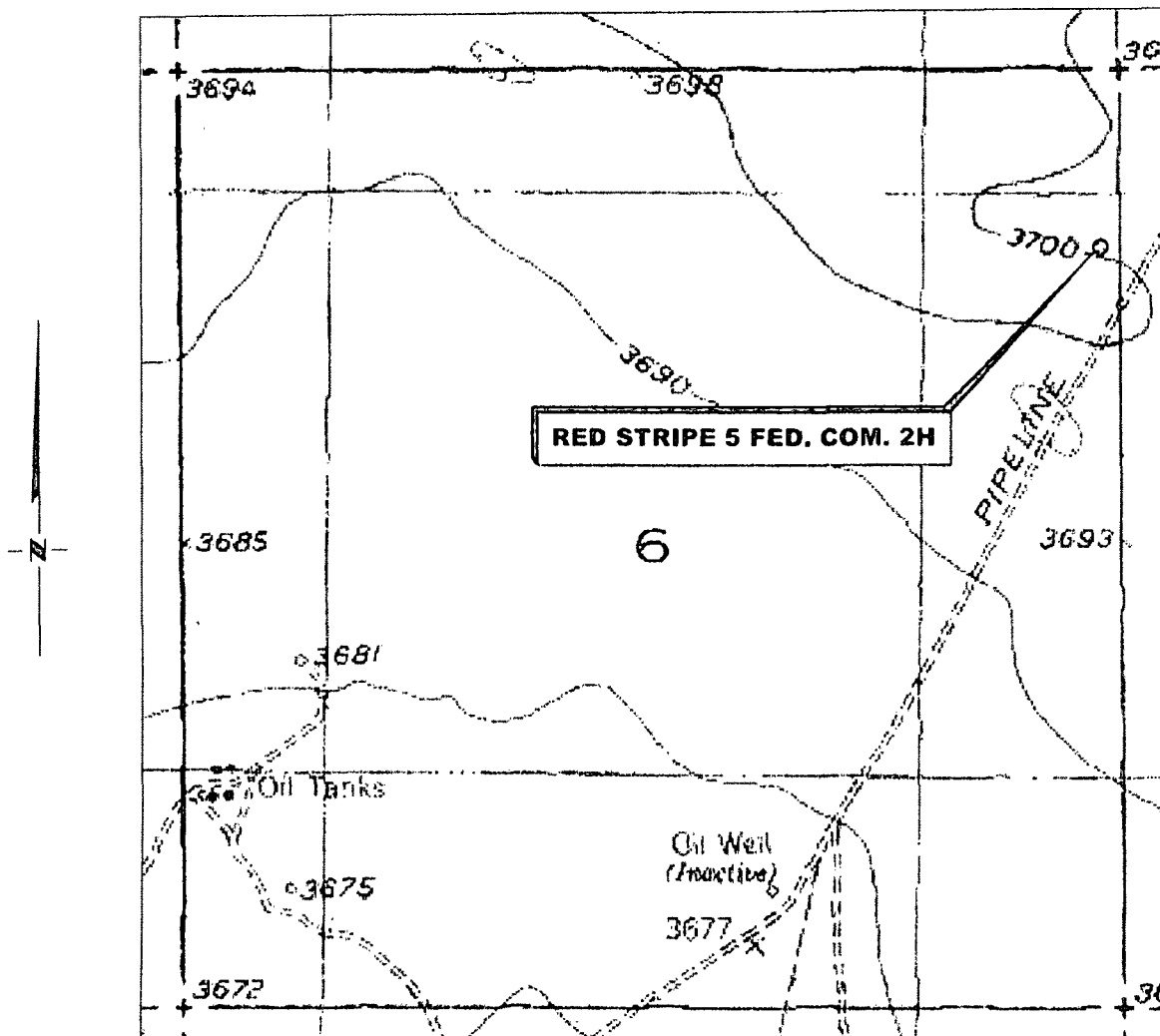


2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
DATE: 2/20/13
SURVEYED BY: RH/GB
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 1 OF 1

LOCATION VERIFICATION MAP



SECTION 16, TWP. 17 SOUTH, RGE. 30 EAST,
N. M. P. M., EDDY COUNTY, NEW MEXICO

OPERATOR: COG Operating, LLC
LEASE: Red Stripe 5 Fed. Com.
WELL NO.: 2H
ELEVATION: 3703'

LOCATION: 990' FNL & 90' FEL
CONTOUR INTERVAL: 10'
USGS TOPO. SOURCE MAP:
Loco Hills, NM (P. E. 1985)

Copyright 2012 - All Rights Reserved

NO.	REVISION	DATE
JOB NO.:	LS130050	
DWG. NO.:	130050LVM	

PROSPERITY CONSULTANTS, LLC

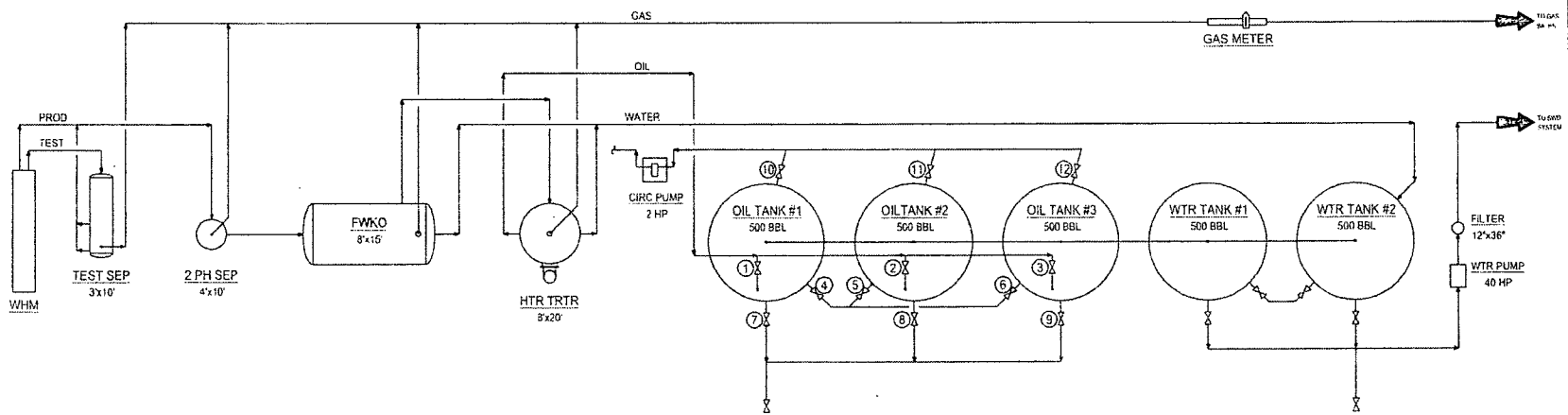


2251 Double Creek Drive, Suite 602, Round Rock, Texas 78664

o (512) 992-2087 f (512) 251-2518

SCALE: 1" = 1000'
DATE: 2/20/13
SURVEYED BY: RH/GB
DRAWN BY: LWB
APPROVED BY: LWB
SHEET : 1 OF 1

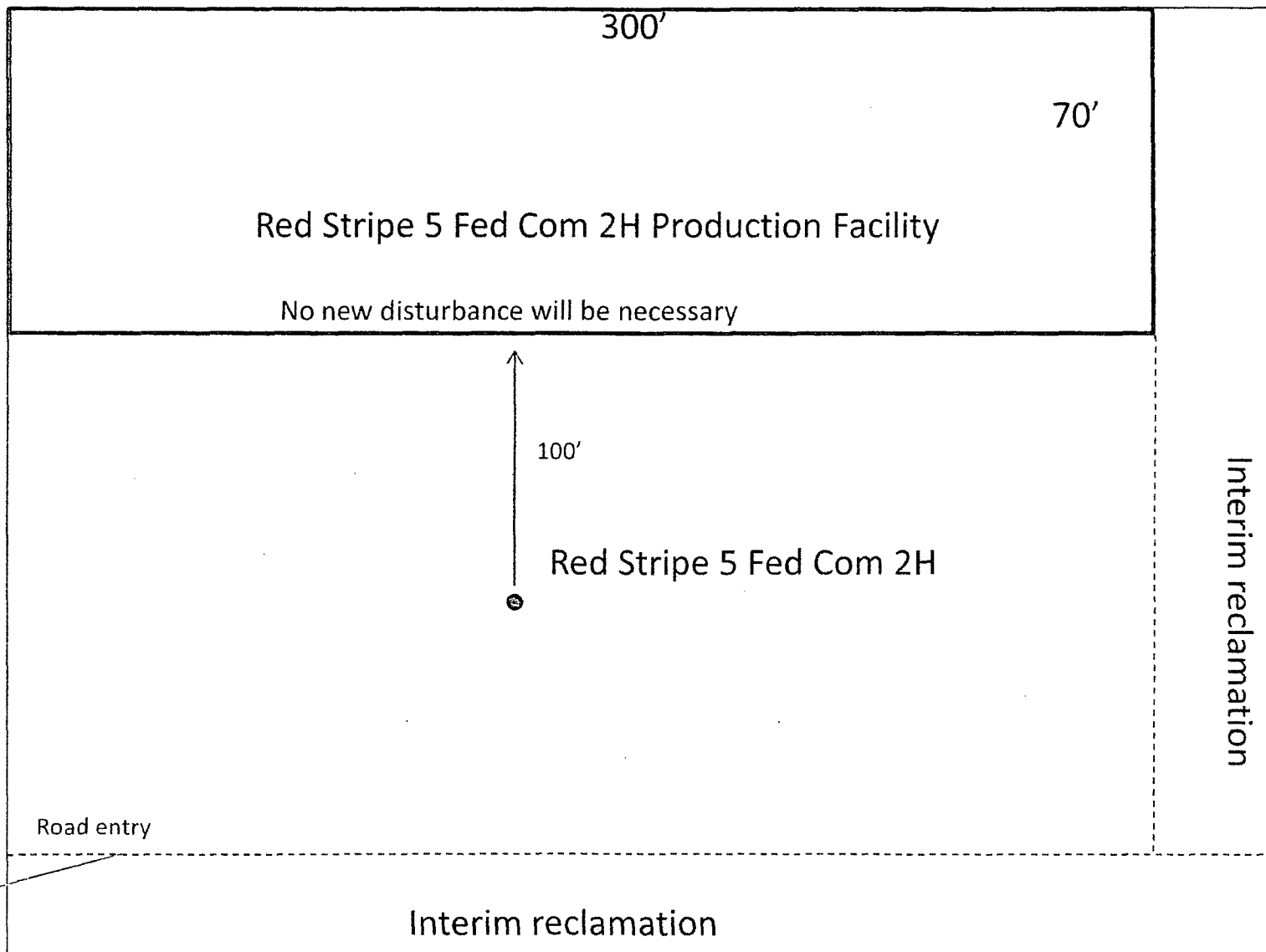
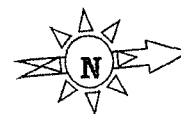
North



- Production Phase - Oil Tank #1**
- Valve 1 open
 - Valves 2 and 3 closed
 - Valves 4, 5, and 6 open
 - Valves 7, 8, and 9 closed
 - Valves 10, 11, and 12 closed

- Sales Phase - Oil Tank #1**
- Valve 1 closed
 - Valves 2 or 3 open
 - Valve 4 closed
 - Valves 5 and 6 open
 - Valve 7 open
 - Valves 8 and 9 closed
 - Valves 10, 11, and 12 closed

NOTES:		CONFIDENTIALITY NOTICE		REFERENCE DRAWINGS				REVISIONS				ENGINEERING RECORD				 NEW MEXICO SHELF ASSET PRODUCTION FACILITIES SITE FACILITY DIAGRAM STANDARD TANK BATTERY "A" NEW MEXICO	
Red Stripe 5 Fed Com 2H Federal Tank Battery		THIS DRAWING IS PROPERTY OF COG OPERATING LLC AND IS LOANED TO THE BORROWER FOR CONFIDENTIAL USE ONLY AND IS SUBJECT TO RETURN UPON REQUEST AND SHALL NOT BE REPRODUCED, COPIED, LENT OR OTHERWISE DISCLOSED OR USED FOR ANY PURPOSE OTHER THAN THAT FOR WHICH IT IS SPECIFICALLY FURNISHED.		NO.	TITLE	NO.	DATE	DESCRIPTION	BY	CHK	APP	BY	DATE				
						A	06/01/12	ISSUE FOR SITE PERMITTING	CRB			DRN: CRB	06/01/12				
												DES: CRB	06/01/12				
				COG OPERATING LLC 600 WEST ILLINOIS AVENUE MIDLAND, TEXAS 79701										CHK: CRB		APP: CRB	
														DATE REC:		FILED REC:	



RECEIVED

JUL 12 2013

NMOCD ARTESIA

Plan Proposal

FOR

COG Operating, LLC
Red Stripe 5 Federal Com #2H
Eddy Co., NM

Design #3

Presented By

Aaron Boger
Account Manager

Bret Wolford
Well Planner

SHL

990' FNL & 90' FEL

Sec. 6-T17S-R30E

Penetration Point

966' FNL & 330' FWL

PBHL

970' FNL & 330' FEL

Sec. 5-T17S-R30E

ARTESIA



COG Operating, LLC

Eddy County(NM27E)

Sec.5-T17S-R30E

Red Stripe 5 Federal Com #2H

Wellbore #1

Plan: Design #3

Standard Planning Report

16 May, 2013

Archer



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User.Db
Company: COG Operating, LLC
Project: Eddy County(NM27E)
Site: Sec.5-T17S-R30E
Well: Red Stripe 5 Federal Com #2H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well: Red Stripe 5 Federal Com #2H
WELL @ 3715.00usft (Original Well Elev)
WELL @ 3715.00usft (Original Well Elev)
Grid
Minimum Curvature

Project: Eddy County(NM27E)

Map System: US State Plane 1927 (Exact solution)
Geo Datum: NAD 1927 (NADCON CONUS)
Map Zone: New Mexico East 3001

System Datum:

Mean Sea Level

Site: Sec.5-T17S-R30E

Site Position: Northing: 680,287.800 usft Latitude: 32° 52' 11.109 N
From: Map Easting: 601,981.800 usft Longitude: 104° 0' 4.253 W
Position Uncertainty: 0.00 usft Slot Radius: 13-3/16" Grid Convergence: 0.18 °

Well: Red Stripe 5 Federal Com #2H

Well Position +N/-S -660.90 usft Northing: 679,626.900 usft Latitude: 32° 52' 4.583 N
+E/-W -417.60 usft Easting: 601,564.200 usft Longitude: 104° 0' 9.174 W
Position Uncertainty: 0.00 usft Wellhead Elevation: usft Ground Level: 3,703.00 usft

Wellbore: Wellbore #1

Magnetics	Model Name	Sample Date	Declination	Dip Angle	Field Strength
			(°)	(°)	(nT)
	IGRF2010	05/15/13	7.60	60.66	48,762

Design: Design #3

Audit Notes:

Version: Phase: PLAN Tie On Depth: 0.00

Vertical Section:	Depth From (TVD)	+N/-S	+E/-W	Direction
	(usft)	(usft)	(usft)	(°)
	0.00	0.00	0.00	89.60

Plan Sections

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5,079.21	0.00	0.00	5,079.21	0.00	0.00	0.00	0.00	0.00	0.00	
5,906.48	91.00	86.50	5,600.00	32.35	528.97	11.00	11.00	0.00	86.50	
6,023.61	91.00	90.01	5,597.96	35.91	646.01	3.00	0.00	3.00	89.97	Red Stripe 5 Fed Con
10,419.80	91.00	90.01	5,521.23	34.82	5,041.53	0.00	0.00	0.00	0.00	Red Stripe 5 Fed Con



Archer
Planning Report

Archer

Database: EDM 5000.1 Single User Db
Company: COG Operating, LLC
Project: Eddy County(NM27E)
Site: Sec.5-T17S-R30E
Well: Red Stripe 5 Federal Com #2H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference
TVD Reference:
MD Reference:
North Reference:
Survey Calculation Method:

Well Red Stripe 5 Federal Com #2H
WELL @ 3715.00usft (Original Well Elev)
WELL @ 3715.00usft (Original Well Elev)
Grid
Minimum Curvature

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,300.00	0.00	0.00	2,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,400.00	0.00	0.00	2,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,500.00	0.00	0.00	2,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,600.00	0.00	0.00	2,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,700.00	0.00	0.00	2,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,800.00	0.00	0.00	2,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2,900.00	0.00	0.00	2,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,000.00	0.00	0.00	3,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,100.00	0.00	0.00	3,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,200.00	0.00	0.00	3,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,300.00	0.00	0.00	3,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,400.00	0.00	0.00	3,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,500.00	0.00	0.00	3,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,600.00	0.00	0.00	3,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,700.00	0.00	0.00	3,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,800.00	0.00	0.00	3,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
3,900.00	0.00	0.00	3,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,000.00	0.00	0.00	4,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,100.00	0.00	0.00	4,100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,200.00	0.00	0.00	4,200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,300.00	0.00	0.00	4,300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,400.00	0.00	0.00	4,400.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,500.00	0.00	0.00	4,500.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,600.00	0.00	0.00	4,600.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,700.00	0.00	0.00	4,700.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,800.00	0.00	0.00	4,800.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
4,900.00	0.00	0.00	4,900.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,000.00	0.00	0.00	5,000.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP / Start Build 11.00°										
5,079.21	0.00	0.00	5,079.21	0.00	0.00	0.00	0.00	0.00	0.00	0.00
5,100.00	2.29	86.50	5,099.99	0.03	0.41	0.41	11.00	11.00	0.00	0.00



Archer
Planning Report



Database: EDM 5000.1 Single User Db
Company: COG Operating, LLC
Project: Eddy County(NM27E)
Site: Sec.5-T17S-R30E
Well: Red Stripe 5 Federal Com #2H
Wellbore: Wellbore #1
Design: Design #3

Local Co-ordinate Reference
TVD Reference
MD Reference
North Reference
Survey Calculation Method

Well Red Stripe 5 Federal Com #2H
WELL @ 3715.00usft (Original Well Elev)
WELL @ 3715.00usft (Original Well Elev)
Grid
Minimum Curvature

Planned Survey										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	N-S (usft)	E-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	
5,150.00	7.79	86.50	5,149.78	0.29	4.79	4.80	11.00	11.00	0.00	
5,200.00	13.29	86.50	5,198.92	0.85	13.92	13.92	11.00	11.00	0.00	
5,250.00	18.79	86.50	5,246.96	1.69	27.70	27.71	11.00	11.00	0.00	
5,300.00	24.29	86.50	5,293.45	2.81	46.01	46.03	11.00	11.00	0.00	
5,350.00	29.79	86.50	5,337.97	4.20	68.69	68.72	11.00	11.00	0.00	
5,400.00	35.29	86.50	5,380.10	5.84	95.52	95.56	11.00	11.00	0.00	
5,450.00	40.79	86.50	5,419.47	7.72	126.26	126.31	11.00	11.00	0.00	
5,500.00	46.29	86.50	5,455.70	9.82	160.63	160.69	11.00	11.00	0.00	
5,550.00	51.79	86.50	5,488.47	12.13	198.30	198.38	11.00	11.00	0.00	
5,600.00	57.29	86.50	5,517.46	14.61	238.93	239.03	11.00	11.00	0.00	
5,650.00	62.79	86.50	5,542.43	17.26	282.15	282.26	11.00	11.00	0.00	
5,700.00	68.29	86.50	5,563.12	20.03	327.56	327.69	11.00	11.00	0.00	
5,750.00	73.79	86.50	5,579.36	22.92	374.74	374.89	11.00	11.00	0.00	
PP @ 5797' MD										
5,797.00	78.96	86.50	5,590.43	25.71	420.32	420.48	11.00	11.00	0.00	
5,800.00	79.29	86.50	5,591.00	25.89	423.26	423.42	11.00	11.00	0.00	
5,850.00	84.79	86.50	5,597.92	28.91	472.66	472.85	11.00	11.00	0.00	
5,900.00	90.29	86.50	5,600.07	31.96	522.50	522.71	11.00	11.00	0.00	
EOB / Start DLS 3.00° TFO 89.97										
5,906.48	91.00	86.50	5,600.00	32.35	528.97	529.18	11.00	11.00	0.00	
6,000.00	91.00	89.31	5,598.37	35.77	622.41	622.64	3.00	0.00	3.00	
EOT / Start 4396.19' hold at 6023.61 MD										
6,023.61	91.00	90.01	5,597.96	35.91	646.01	646.24	3.00	0.00	3.00	
6,100.00	91.00	90.01	5,596.62	35.90	722.39	722.62	0.00	0.00	0.00	
6,200.00	91.00	90.01	5,594.88	35.87	822.37	822.60	0.00	0.00	0.00	
6,300.00	91.00	90.01	5,593.13	35.85	922.36	922.58	0.00	0.00	0.00	
6,400.00	91.00	90.01	5,591.39	35.82	1,022.34	1,022.57	0.00	0.00	0.00	
6,500.00	91.00	90.01	5,589.64	35.80	1,122.33	1,122.55	0.00	0.00	0.00	
6,600.00	91.00	90.01	5,587.90	35.77	1,222.31	1,222.53	0.00	0.00	0.00	
6,700.00	91.00	90.01	5,586.15	35.75	1,322.30	1,322.51	0.00	0.00	0.00	
6,800.00	91.00	90.01	5,584.41	35.72	1,422.28	1,422.50	0.00	0.00	0.00	
6,900.00	91.00	90.01	5,582.66	35.70	1,522.27	1,522.48	0.00	0.00	0.00	
7,000.00	91.00	90.01	5,580.91	35.67	1,622.25	1,622.46	0.00	0.00	0.00	
7,100.00	91.00	90.01	5,579.17	35.65	1,722.24	1,722.44	0.00	0.00	0.00	
7,200.00	91.00	90.01	5,577.42	35.62	1,822.22	1,822.42	0.00	0.00	0.00	
7,300.00	91.00	90.01	5,575.68	35.60	1,922.21	1,922.41	0.00	0.00	0.00	
7,400.00	91.00	90.01	5,573.93	35.57	2,022.19	2,022.39	0.00	0.00	0.00	
7,500.00	91.00	90.01	5,572.19	35.55	2,122.18	2,122.37	0.00	0.00	0.00	
7,600.00	91.00	90.01	5,570.44	35.52	2,222.16	2,222.35	0.00	0.00	0.00	
7,700.00	91.00	90.01	5,568.70	35.50	2,322.15	2,322.34	0.00	0.00	0.00	
7,800.00	91.00	90.01	5,566.95	35.47	2,422.13	2,422.32	0.00	0.00	0.00	
7,900.00	91.00	90.01	5,565.21	35.45	2,522.12	2,522.30	0.00	0.00	0.00	
8,000.00	91.00	90.01	5,563.46	35.42	2,622.10	2,622.28	0.00	0.00	0.00	
8,100.00	91.00	90.01	5,561.72	35.40	2,722.08	2,722.26	0.00	0.00	0.00	
8,200.00	91.00	90.01	5,559.97	35.37	2,822.07	2,822.25	0.00	0.00	0.00	
8,300.00	91.00	90.01	5,558.23	35.35	2,922.05	2,922.23	0.00	0.00	0.00	
8,400.00	91.00	90.01	5,556.48	35.32	3,022.04	3,022.21	0.00	0.00	0.00	
8,500.00	91.00	90.01	5,554.74	35.30	3,122.02	3,122.19	0.00	0.00	0.00	
8,600.00	91.00	90.01	5,552.99	35.27	3,222.01	3,222.18	0.00	0.00	0.00	
8,700.00	91.00	90.01	5,551.25	35.25	3,321.99	3,322.16	0.00	0.00	0.00	
8,800.00	91.00	90.01	5,549.50	35.22	3,421.98	3,422.14	0.00	0.00	0.00	
8,900.00	91.00	90.01	5,547.76	35.20	3,521.96	3,522.12	0.00	0.00	0.00	
9,000.00	91.00	90.01	5,546.01	35.17	3,621.95	3,622.10	0.00	0.00	0.00	



Plan Annotations				
Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates		Comment
		N-S (usft)	E-W (usft)	
5,079.21	5,079.21	0.00	0.00	KOP / Start Build 11.00"
5,797.00	5,590.43	25.71	420.32	PP @ 5797" MD
5,906.48	5,600.00	32.35	528.97	EOB / Start DLS 3.00" TFO 89.97
6,023.61	5,597.96	35.91	646.01	EOT / Start 4396.19" hold at 6023.61 MD
10,419.80	5,521.23	34.82	5,041.53	TD at 10419.80



Project: Eddy County(NM27E)
Site: Sec.5-T17S-R30E
Well: Red Stripe 5 Federal Com #2H
Wellbore: Wellbore #1
Design: Design #3
Lat: 32° 52' 4.583 N
Long: 104° 0' 9.174 W
GL: 3703.00
KB: WELL @ 3715.00ust (Original Well Elev)

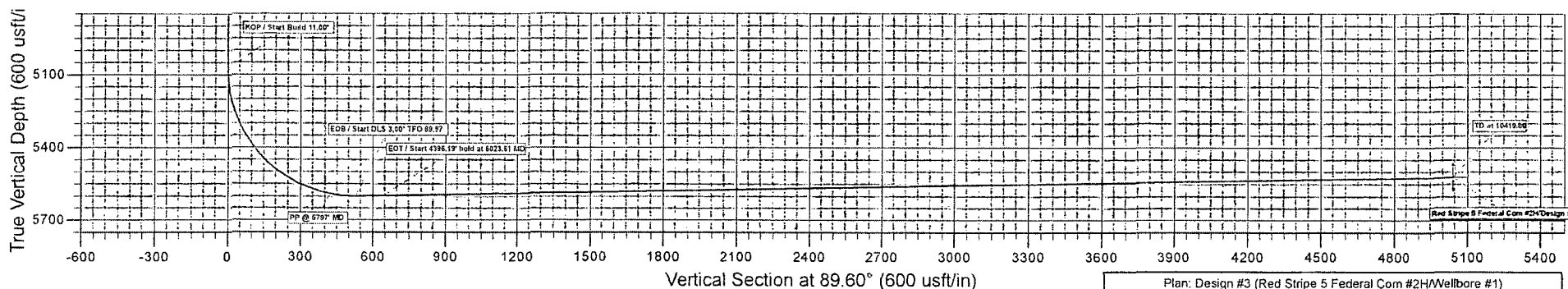
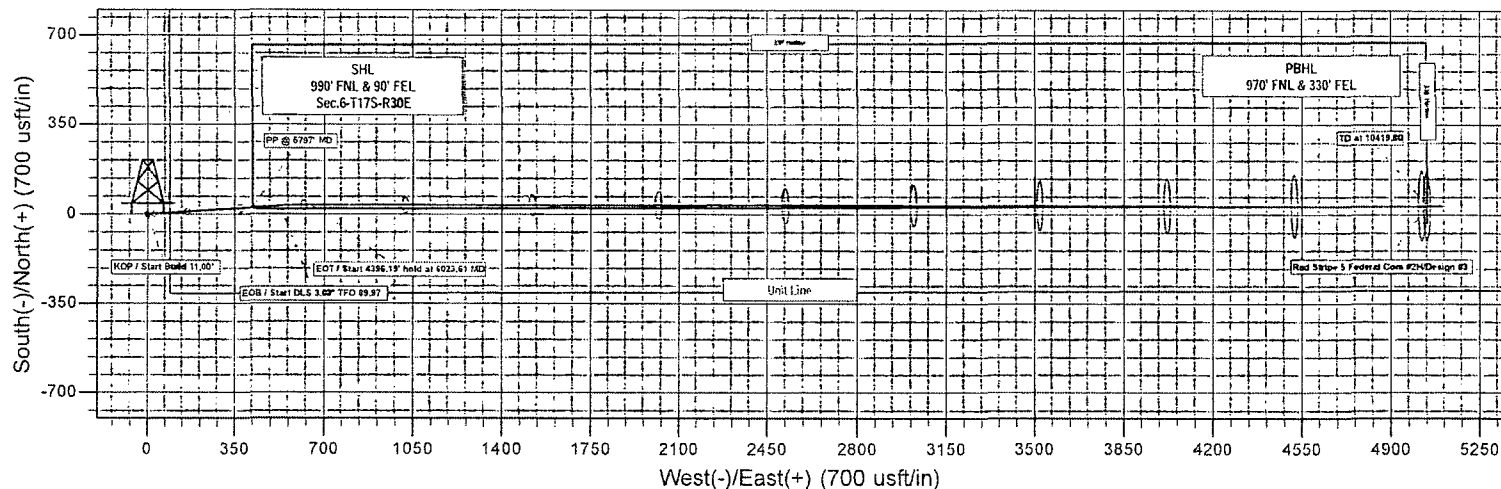
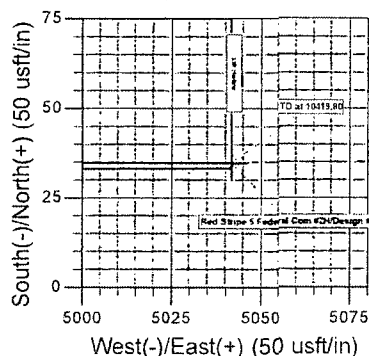
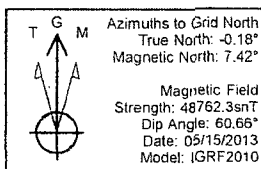
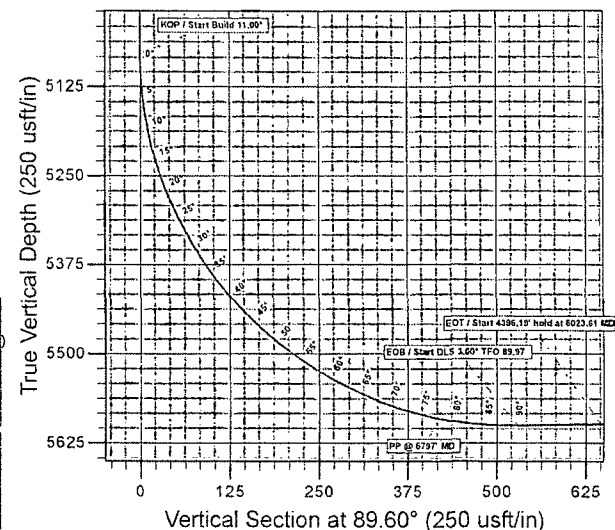
Archer

SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSecl	Annotation
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
5079.21	0.00	0.00	5079.21	0.00	0.00	0.00	0.00	0.00	KOP / Start Build 11.00°
5906.48	91.00	86.50	5600.00	32.35	528.97	11.00	86.50	528.18	EOB / Start DLS 3.00° TFO 89.97
6023.61	91.00	90.01	5597.96	35.91	646.01	3.00	69.97	646.24	EOT / Start 4396.19° hold at 6023.61 MD
10419.80	91.00	90.01	5521.23	34.82	5041.53	0.00	0.00	5041.65	TD at 10419.80

WELL DETAILS: Red Stripe 5 Federal Com #2H							
		Ground Level:		3703.00			
+N-S	+E-W	Northing	Easting	Latitude	Longitude	Slot	
0.00	0.00	679626.900	601564.200	32° 52' 4.583 N	104° 0' 9.174 W		

WELLBORE TARGET DETAILS (LAT/LONG)							
Name	TVD	+N-S	+E-W	Latitude	Longitude	Shape	Point
Red Stripe 5 Fed Com #2H PBHL	5521.23	34.82	5041.53	32° 52' 4.767 N	103° 59' 10.062 W		

PROJECT DETAILS: Eddy County(NM27E)	
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	
SITE DETAILS: Sec.5-T17S-R30E	
Site Centre Latitude: 32° 52' 11.109 N	
Longitude: 104° 0' 4.253 W	
Positional Uncertainty: 0.00	
Convergence: 0.18	
Local North: Grid	



Plan: Design #3 (Red Stripe 5 Federal Com #2H/Wellbore #1)
Created By: Bret Wolford Date: 8:38, May 16 2013