Form 3160-5
(August 2007)

OCD Artesia

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM 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.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
NMLC028784A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
NMNM88525X

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

8. Well Name and No.
BURCH KEELY UNIT 626

2. Name of Operator
COG OPERATING LLC
Contact: ROBYN ODOM
E-Mail: Rodom@concho.com

9. API Well No.
30-015-40276

3a. Address
ONE CONCHO CENTER 600 W. ILLINOIS AVENUE
MIDLAND, TX 79701

3b. Phone No. (include area code)
Ph: 432-685-4385

10. Field and Pool, or Exploratory
BURCH KEELY;G-UPPER YESO

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 19 T17S R30E 2366FNL 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 to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

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 recomplete 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 recompletion 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 location of this well to:
SHL: 1943' FNL & 461' FEL Sec 24, T17S, R29E
BHL: 2500' FNL & 300' FEL Sec 24, T17S, R29E

Location change is due to Archeology.

A revised C-102, Flowline, Road Map, Directional Plan, Rig Layouts & SUPO are attached for your review.

RECEIVED
JAN 10 2013
NMOCD ARTESIA

ok

Accepted for record
NMOCD 1/10/2013

Eng. OK. 12/20/12 CRW

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

Electronic Submission #162218 verified by the BLM Well Information System
For COG OPERATING LLC, sent to the Carlsbad
Committed to AFMSS for processing by KURT SIMMONS on 12/13/2012 ()

Name *(Printed/Typed)* ROBYN ODOM — Title PERSON RESPONSIBLE

Signature (Electronic Submission) — Date 12/11/2012

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By James A. Amos — Title SEPS — Date 1-8-13

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 CFO

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
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-0720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1283 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Road, Aztec, NM 87410.
Phone: (505) 334-6178 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, New Mexico 87505

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

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code	Pool Name
30-015-40276	97918	Burch Keely; Glorieta Upper Yeso

Property Code	Property Name	Well Number
308086	BURCH KEELY UNIT	626

OGRID No.	Operator Name	Elevation
229137	COG OPERATING, LLC	3621'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	24	17-S	29-E		1943	NORTH	461	EAST	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
H	24	17-S	29-E		2500	NORTH	300	EAST	EDDY

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.
40			

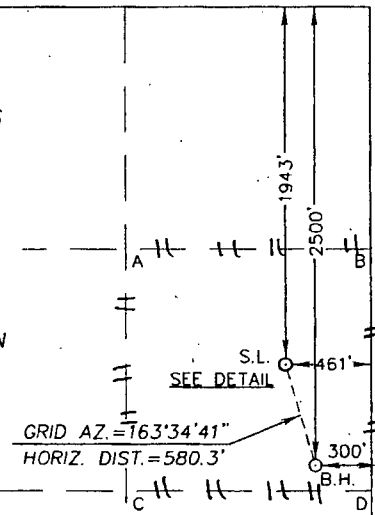
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

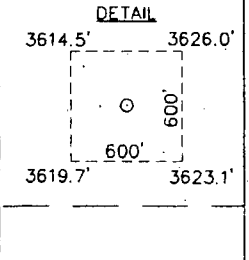
GEODETIC COORDINATES
NAD 27 NME

SURFACE LOCATION
Y=662833.4 N
X=596056.4 E

LAT.=32.821826° N
LONG.=104.020648° W

BOTTOM HOLE LOCATION
Y=662276.9 N
X=596220.4 E





CORNER COORDINATES TABLE

A) Y=663455.0 N, X=595192.3 E

B) Y=663458.1 N, X=596514.0 E

C) Y=662136.1 N, X=595197.2 E

D) Y=662139.4 N, X=596521.1 E

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 unleased 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 8-28-12 Date

Kelly J. Holly
Printed Name

kholly@concho.com
E-mail Address

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.

JUNE 27, 2012
Date of Survey

Signature & Seal of Professional Surveyor:

RONALD J. EIDSON NEW MEXICO 3239 REGISTERED PROFESSIONAL SURVEYOR

Ronald J. Eidson 07/09/2012

Certificate Number Gary G. Eidson 12641
Ronald J. Eidson 3239

AF JWSC W.O.: 12.11.0538

I hereby certify that I, or persons under my direct supervision, have inspected the drill site and access road proposed herein; that I am familiar with the conditions that presently exist; that I have full knowledge of State and Federal laws applicable to this operation; that the statements made in this APD package are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or COG Operating, LLC, am responsible for the operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements. Executed this 13th day of July, 2012.

Signed: Carl Bird

Printed Name: Carl Bird

Position: Drilling Engineer

Address: 550 W. Texas, Suite 1300, Midland, Texas 79701

Telephone: (432) 683-7443

Field Representative (if not above signatory): Same

E-mail: cbird@concho.com

PECOS DISTRICT
CONDITIONS OF APPROVAL

OPERATOR'S NAME:	COG Operating LLC
LEASE NO.:	NMLC28784A
WELL NAME & NO.:	Burch Keely Unit #626
SURFACE HOLE FOOTAGE:	1943' FNL & 0461' FEL
BOTTOM HOLE FOOTAGE	2500' FNL & 0300' FEL
LOCATION:	Section 24, T. 17 S., R. 29 E., NMPM
COUNTY:	Eddy County, New Mexico

The previously approved APD with conditions of approval dated 05/08/2012 apply to this well relocation. Any deviations to the previously approved APD are as follows:

☒ **Special Requirements**
Topsoil Stockpile
Reserve Pit Requirement

I. SPECIAL REQUIREMENT(S)

Topsoil Stockpile
The topsoil to be stripped is approximately 2 to 4 inches in depth. The topsoil will be used for interim and final reclamation. Do not strip and store any contaminated soils or caliche.

Reserve Pit Requirement
The operator must abide by all state requirements when operating upon a reserve pit.

CONCHO

COG Operating LLC

Eddy County, NM (NAN27 NME)
Burch Keely Unit #626

OH

Plan #2 8-3/4" Hole
Surface: 1943' FNL, 461' FWL, Sec 24, T17S, R29E, Unit H
Top of Paddock @ 4000' TVD: 426' South of Surface & 126' West of Surface
BHL: 2500' FNL, 300' FEL, Sec 24, T17S, R29E, Unit H

Standard Planning Report

18 September, 2012

Scientific Drilling

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #626
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3627.00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3627.00usft
Site:	Burch Keely Unit	**North Reference:**	Grid
Well:	#626	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 8-3/4" Hole		

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		Using geodetic scale factor

Site	Burch Keely Unit				
Site Position:		**Northing:**	661,490.10 usft	**Latitude:**	32° 49' 5.462 N
From:	Map	**Easting:**	589,648.00 usft	**Longitude:**	104° 2' 29.475 W
Position Uncertainty:	0.00 usft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.16 °

Well	#626					
Well Position	**+N/-S**	1,343.41 usft	**Northing:**	662,833.40 usft	**Latitude:**	32° 49' 18.573 N
	+E/-W	6,408.92 usft	**Easting:**	596,056.40 usft	**Longitude:**	104° 1' 14.334 W
Position Uncertainty		0.00 usft	**Wellhead Elevation:**		**Ground Level:**	3,627.00 usft

Wellbore	OH				
Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	09/18/12	7.68	60.63	48,799

Design	Plan #2 8-3/4" Hole				
Audit Notes:					
Version:		**Phase:**	PLAN	**Tie On Depth:**	0.00
Vertical Section:	**Depth From (TVD) (usft)**	**+N/-S (usft)**	**+E/-W (usft)**	**Direction (°)**	
	0.00	0.00	0.00	163.58	

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	
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,633.20	9.66	163.58	1,630.91	-39.00	11.49	2.00	2.00	33.85	163.58	
4,847.91	9.66	163.58	4,800.00	-556.64	164.01	0.00	0.00	0.00	0.00	PBHL

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #626
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3627.00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3627.00usft
Site:	Burch Keely Unit	**North Reference:**	Grid
Well:	#626	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 8-3/4" Hole		

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
1,050.00	0.00	0.00	1,050.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
1,150.00	0.00	0.00	1,150.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start DLS 2.00 TFO 163.58									
1,200.00	1.00	163.58	1,200.00	-0.42	0.12	0.44	2.00	2.00	0.00
1,300.00	3.00	163.58	1,299.93	-3.77	1.11	3.93	2.00	2.00	0.00
1,400.00	5.00	163.58	1,399.68	-10.46	3.08	10.90	2.00	2.00	0.00
1,500.00	7.00	163.58	1,499.13	-20.48	6.04	21.35	2.00	2.00	0.00
1,600.00	9.00	163.58	1,598.15	-33.83	9.97	35.27	2.00	2.00	0.00
1,633.20	9.66	163.58	1,630.91	-39.00	11.49	40.65	2.00	2.00	0.00
Start 3214.71 hold at 1633.20 MD									
1,700.00	9.66	163.58	1,696.76	-49.75	14.66	51.87	0.00	0.00	0.00
1,800.00	9.66	163.58	1,795.35	-65.86	19.40	68.65	0.00	0.00	0.00
1,900.00	9.66	163.58	1,893.93	-81.96	24.15	85.44	0.00	0.00	0.00
2,000.00	9.66	163.58	1,992.51	-98.06	28.89	102.23	0.00	0.00	0.00
2,100.00	9.66	163.58	2,091.09	-114.16	33.64	119.02	0.00	0.00	0.00
2,200.00	9.66	163.58	2,189.67	-130.27	38.38	135.80	0.00	0.00	0.00
2,300.00	9.66	163.58	2,288.25	-146.37	43.13	152.59	0.00	0.00	0.00
2,400.00	9.66	163.58	2,386.83	-162.47	47.87	169.38	0.00	0.00	0.00
2,500.00	9.66	163.58	2,485.41	-178.57	52.62	186.16	0.00	0.00	0.00
2,600.00	9.66	163.58	2,583.99	-194.68	57.36	202.95	0.00	0.00	0.00
2,700.00	9.66	163.58	2,682.57	-210.78	62.10	219.74	0.00	0.00	0.00
2,800.00	9.66	163.58	2,781.15	-226.88	66.85	236.52	0.00	0.00	0.00
2,900.00	9.66	163.58	2,879.74	-242.98	71.59	253.31	0.00	0.00	0.00
3,000.00	9.66	163.58	2,978.32	-259.09	76.34	270.10	0.00	0.00	0.00
3,100.00	9.66	163.58	3,076.90	-275.19	81.08	286.88	0.00	0.00	0.00
3,200.00	9.66	163.58	3,175.48	-291.29	85.83	303.67	0.00	0.00	0.00
3,300.00	9.66	163.58	3,274.06	-307.39	90.57	320.46	0.00	0.00	0.00
3,400.00	9.66	163.58	3,372.64	-323.50	95.32	337.25	0.00	0.00	0.00
3,500.00	9.66	163.58	3,471.22	-339.60	100.06	354.03	0.00	0.00	0.00
3,600.00	9.66	163.58	3,569.80	-355.70	104.81	370.82	0.00	0.00	0.00
3,700.00	9.66	163.58	3,668.38	-371.80	109.55	387.61	0.00	0.00	0.00
3,800.00	9.66	163.58	3,766.96	-387.91	114.29	404.39	0.00	0.00	0.00
3,900.00	9.66	163.58	3,865.54	-404.01	119.04	421.18	0.00	0.00	0.00
4,000.00	9.66	163.58	3,964.13	-420.11	123.78	437.97	0.00	0.00	0.00
4,036.39	9.66	163.58	4,000.00	-425.97	125.51	444.08	0.00	0.00	0.00
Top of Paddock									
4,100.00	9.66	163.58	4,062.71	-436.21	128.53	454.75	0.00	0.00	0.00
4,200.00	9.66	163.58	4,161.29	-452.32	133.27	471.54	0.00	0.00	0.00
4,300.00	9.66	163.58	4,259.87	-468.42	138.02	488.33	0.00	0.00	0.00
4,400.00	9.66	163.58	4,358.45	-484.52	142.76	505.11	0.00	0.00	0.00
4,500.00	9.66	163.58	4,457.03	-500.62	147.51	521.90	0.00	0.00	0.00
4,600.00	9.66	163.58	4,555.61	-516.73	152.25	538.69	0.00	0.00	0.00
4,700.00	9.66	163.58	4,654.19	-532.83	157.00	555.48	0.00	0.00	0.00
4,800.00	9.66	163.58	4,752.77	-548.93	161.74	572.26	0.00	0.00	0.00
4,847.91	9.66	163.58	4,800.00	-556.64	164.01	580.30	0.00	0.00	0.00
PBHL									

Database:	EDM 5000.1 Single User Db	**Local Co-ordinate Reference:**	Well #626
Company:	COG Operating LLC	**TVD Reference:**	GL Elev @ 3627.00usft
Project:	Eddy County, NM (NAN27 NME)	**MD Reference:**	GL Elev @ 3627.00usft
Site:	Burch Keely Unit	**North Reference:**	Grid
Well:	#626	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #2 8-3/4" Hole		

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
PBHL	0.00	0.00	4,800.00	-556.64	164.01	662,276.80	596,220.40	32° 49' 13.060 N	104° 1' 12.431 W
- plan hits target center - Circle (radius 10.00)									

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,050.00	1,050.00	8-5/8" Casing	8-5/8	12-1/4

Formations

Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,036.39	4,000.00	Top of Paddock		0.00	

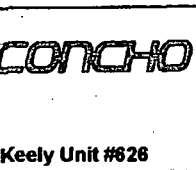
Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft)	Local Coordinates +E/-W (usft)	Comment
1,150.00	1,150.00	0.00	0.00	KOP Start DLS 2.00 TFO 163.58
1,633.20	1,630.91	-39.00	11.49	Start 3214.71 hold at 1633.20 MD

CONCHO

Scientific Drilling

Burch Keely Unit #626
Eddy County, NM (NAN27 NME)
Northing: 662833.40
Easting: 596056.40
Plan #2 8-3/4" Hole



To convert Magnetic North to Grid, Add 7.51°
To convert True North to Grid, Subtract 0.17°

Azimuths to Grid North
True North: -0.17°
Magnetic North: 7.52°

Magnetic Field
Strength: 48798.8nT
Dip Angle: 60.63°
Date: 09/18/2012
Model: IGRF2010

WELL DETAILS:

Ground Level: 3627.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	662833.40	596056.40	32° 49' 18.573 N	104° 1' 14.334 W

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1150.00	0.00	0.00	1150.00	0.00	0.00	0.00	0.00	0.00	
1633.20	9.66	163.58	1630.91	-39.00	11.49	2.00	163.58	40.65	
4847.91	9.66	163.58	4800.00	-556.64	164.01	0.00	0.00	580.30	PBHL

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting
PBHL	4800.00	-556.64	164.01	662276.80	596220.40

SITE DETAILS: Burch Keely Unit
Site Centre Northing: 661480.10
Easting: 589848.00

Positional Uncertainty: 0.00
Convergence: 0.16
Local North: Grid

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

CASING DETAILS

TVD	MD	Name	Size
1050.00	1050.00	8-5/8" Casing	8-5/8

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
4000.00	4036.39	Top of Paddock

Map System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone Name: New Mexico East 3001

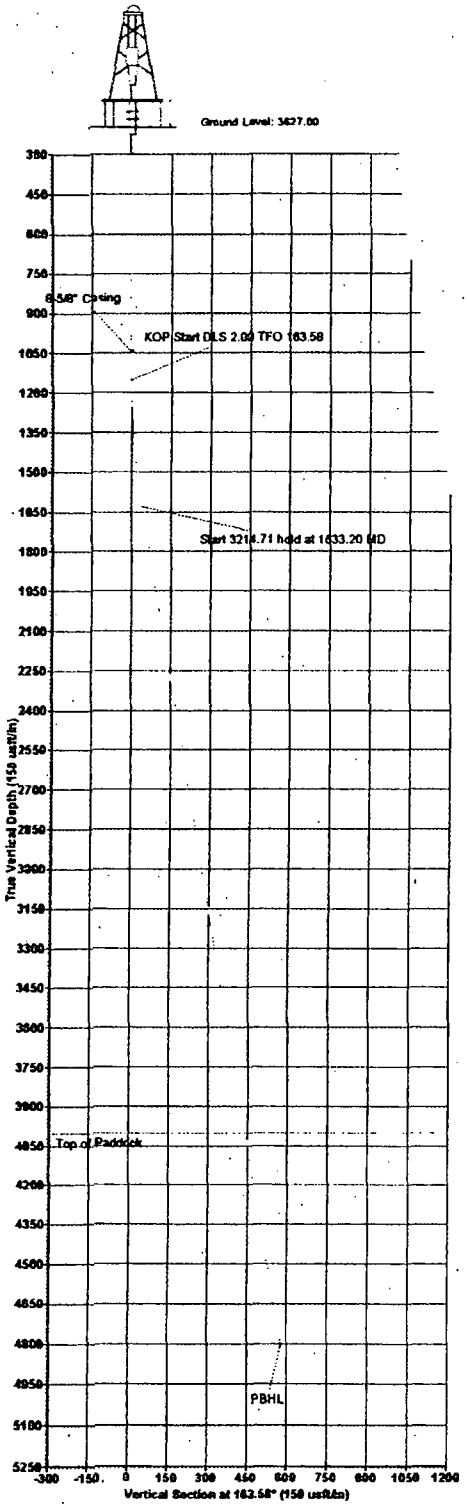
Local Origin: Well #626, Grid North

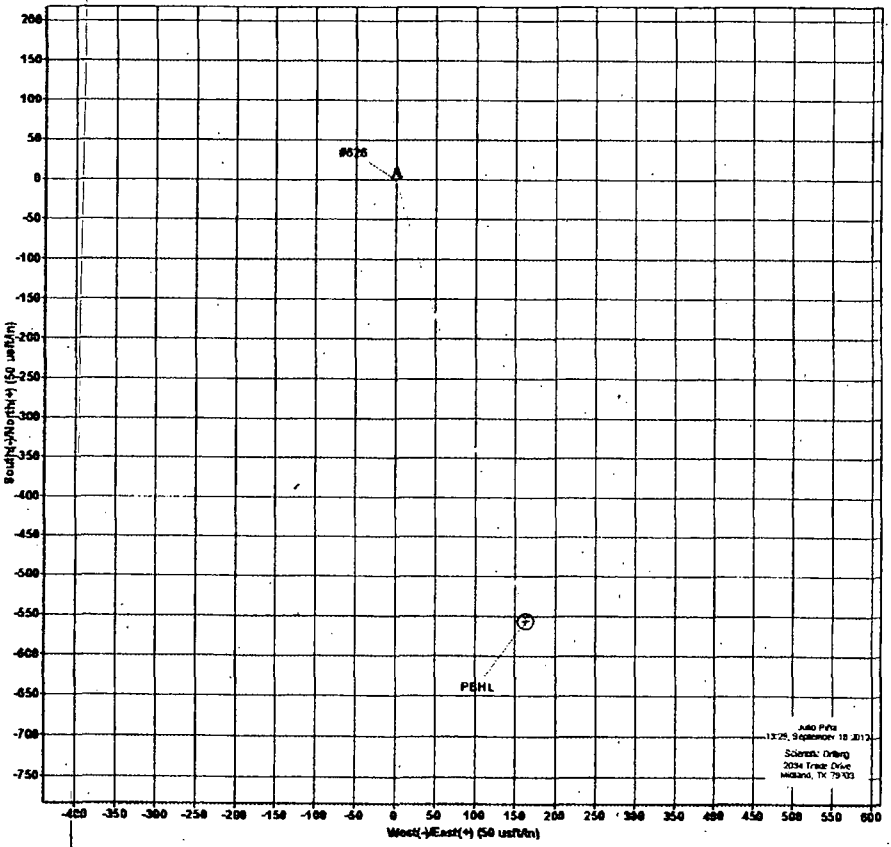
Latitude: 32° 49' 18.573 N
Longitude: 104° 1' 14.334 W

Grid East: 596056.40
Grid North: 662833.40
Scale Factor: 1.000

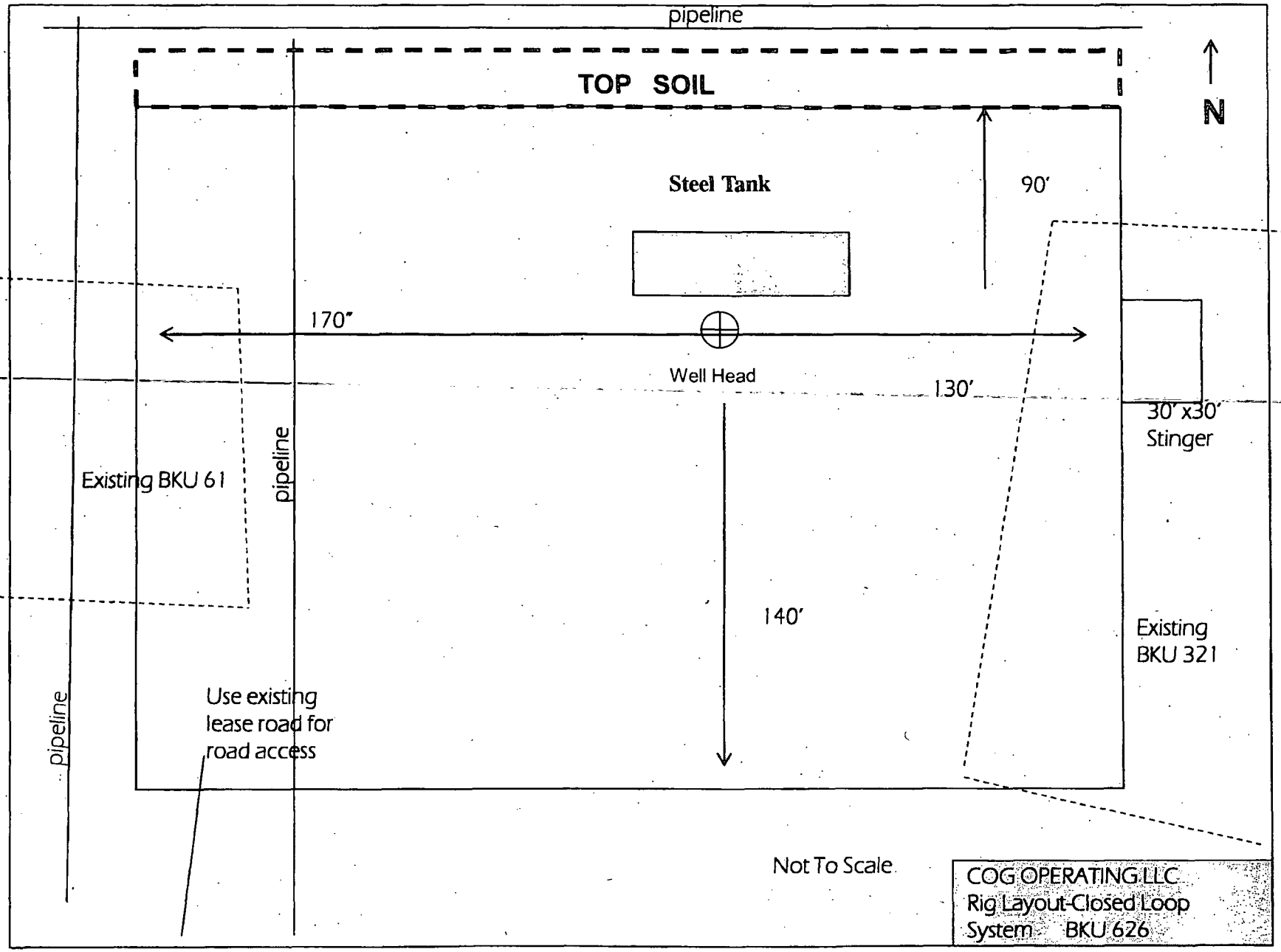
Geomagnetic Model: IGRF2010
Sample Date: 18-Sep-12
Magnetic Declination: 7.68°
Dip Angle from Horizontal: 60.63°
Magnetic Field Strength: 48799

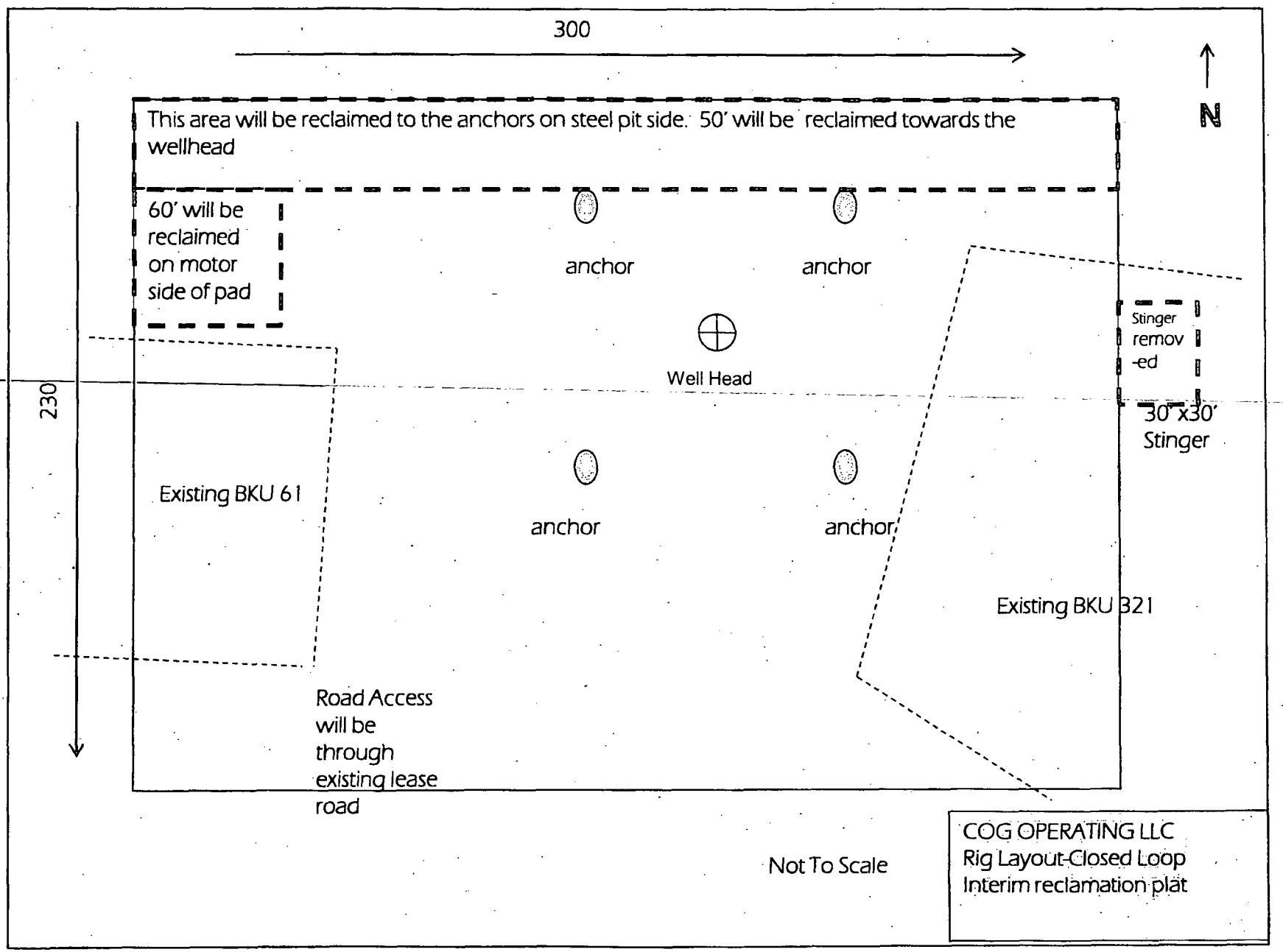
To convert Magnetic North to Grid, Add 7.51°
To convert Magnetic North to True North, Add 7.68° East
To convert True North to Grid, Subtract 0.17°





Auto Print
13:25, September 18 2012
Scientific Drilling
2934 Trade Drive
Midland, TX 79703


pipeline
TOP SOIL
N
Steel Tank
90'
170"
Well Head
130'
30' x30'
Stinger
Existing BKU 61
pipeline
140'
Existing
BKU 321
pipeline
Use existing
lease road for
road access
Not To Scale
COG OPERATING LLC
Rig Layout-Closed Loop
System BKU 626


300
N
This area will be reclaimed to the anchors on steel pit side. 50' will be reclaimed towards the wellhead
60' will be reclaimed on motor side of pad
anchor
anchor
Well Head
Stinger remov -ed
30' x30' Stinger
230
Existing BKU 61
anchor
anchor
Existing BKU 321
Road Access will be through existing lease road
Not To Scale
COG OPERATING LLC
Rig Layout-Closed Loop
Interim reclamation plat