

AT3-10-684

OCD Artesia

Form 3160-3
(April 2004)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

1a. Type of work: ☒ DRILL ☐ REENTER		5. Lease Serial No. NMLC-029419A
1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone		6. If Indian, Allottee or Tribe Name N/A
2. Name of Operator Chevron USA Agent: COG Operating LLC (229137)		7. If Unit or CA Agreement, Name and No. NMNM - 710300X
3a. Address Agent Address: 550 W. Texas Ave., Suite 1300 Midland, TX 79701	3b. Phone No. (include area code) 432-685-4385	8. Lease Name and Well No. SKELLY UNIT #757 (305607)
4. Location of Well (Report location clearly and in accordance with any State requirements.) At surface SHL: 1820' FSL & 1810' FWL (Unit K) At proposed prod. zone BHL: 1650' FSL & 2310' FWL, Unit K		9. API Well No. 30-015-383003
14. Distance in miles and direction from nearest town or post office* 9 miles East of Loco Hills, NM		10. Field and Pool, or Exploratory Fren; Glorieta-Yeso 26770
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1810'	16. No. of acres in lease 720	11. Sec., T. R. M. or Blk. and Survey or Area Sec 22 T17S R31E
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 240'	19. Proposed Depth 6731' MD 6703' TVD	12. County or Parish EDDY
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3837' GL	22. Approximate date work will start* 12/31/2010	13. State NM
17. Spacing Unit dedicated to this well 40		
20. BLM/BIA Bond No. on file NMB000215		
23. Estimated duration 15 days		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature	Name (Printed/Typed) Robyn M. Odom	Date 10/22/2010
Title Regulatory Analyst		

Approved by (Signature) /s/ Don Peterson	Name (Printed/Typed)	Date NOV 12 2010
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE	

Application approval 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.
Conditions of approval, if any, are attached.

APPROVAL FOR TWO YEARS

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.

*(Instructions on page 2)

Roswell Controlled Water Basin

RECEIVED
NOV 15 2010
NMOCD ARTESIA

SEE ATTACHED FOR
K70 CONDITIONS OF APPROVAL

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

MASTER DRILLING PROGRAM

1. Geologic Name of Surface Formation

Quaternary

2. Estimated Tops of Important Geologic Markers:

Quaternary	Surface
Top of Salt	560'
Base of Salt	1150'
Yates	1770'
Seven Rivers	2100'
Queen	2715'
Grayburg	3100'
San Andres	3450'
Glorietta	4950'
Yeso Group	4995'

3. Estimated Depths of Anticipated Fresh Water, Oil and Gas

Water Sand	150'	Fresh Water
Grayburg	3100'	Oil/Gas
San Andres	3450'	Oil/Gas
Glorieta	4950'	Oil/Gas
Yeso Group	4995'	Oil/Gas

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 525' and circulating cement back to the surface will protect the surface fresh water sand. The Salt Section will be protected by setting 8 5/8" casing to 1700' and circulating cement, in a single or multi-stage job and/or with an ECP, back to the surface. Any shallower zones above TD, which contain commercial quantities of oil and/or gas, will have cement circulated across them. This will be achieved by cementing, with a single or multi-stage job, the 5 1/2" production casing back 200' into the intermediate casing, to be run at TD. [If wellbore conditions arise that require immediate action and/or a change to this program, COG Operating LLC personnel will always react to protect the wellbore and/or the environment.]

See
COA

See
COA

4. Casing Program

See < COA

Hole Size	Interval	OD Casing	Weight	Grade	Jt., Condition	Jt.	burst/collapse/tension
17 1/2"	0-525'	13 3/8"	48#	H-40orJ-55	New	ST&C	8.71/3.724/14.91
11" or 12 1/4"	0-1700	8 5/8"	24or32#	J-55	New	ST&C	2.91/1.46/5.65
7 7/8"	0-T.D.	5 1/2"	15.5 or 17#	J-55orL80	New	LT&C	1.71/1.574/2.20

5. Cement Program

13 3/8" Surface Casing: Class C, 500 sx, yield 1.32, back to surface

8 5/8" Intermediate Casing:

11" Hole:

Single Stage: 50:50:10, 350 sx lead, yield-2.45 + Class C, 200 sx tail, yield-1.32, back to surface.

Multi-Stage: Stage 1: Class C, 350 sx, yield-1.32. Stage 2: 50:50:10, 200 sx, yield-2.45, back to surface. Multi stage tool to be set at approximately, depending on hole conditions, ~~450'~~ See COA

5 1/2" Production Casing:

Single Stage: 35:65:6, 500 sx Lead, yield-2.05 + 50:50:2, 400 sx Tail, yield-1.37, to 200' minimum tie back to intermediate casing.

Multi-Stage: Stage 1: 50:50:2, 400 sx, - See yield - 1.37; Stage 2: 35:65:6, 500 sx, COA yield - 2.05, to 200' minimum tie back to intermediate casing. Multi stage tool to be set at approximately, depending on hole conditions, ~~FD-2000'~~ See COA

6. Minimum Specifications for Pressure Control

The blowout preventer equipment (BOP) shown in Exhibit #9 will consist of a double ram-type (2000 psi WP) preventer. This unit will be hydraulically operated and the ram type preventer will be equipped with blind rams on top of 4 1/2" drill pipe rams on the bottom. The BOP will be nipped up on the 13 3/8" surface casing with BOP equipment and tested together to 1000 psi by rig pump in one test. The BOP will then be nipped up on the 8 5/8" intermediate casing and tested by a third party to 2000 psi and used continuously until total depth is reached. All BOP's and accessory equipment will be tested to 2000 psi before drilling out of the intermediate casing. Pipe rams will be operationally checked each 24-hour period. Blind rams will be operationally checked on each trip out of the hole. These checks will be noted on the daily tour sheets. Other accessories to the BOP equipment (Exhibit #10) will include a Kelly cock and floor safety valve, choke lines and a choke manifold (Exhibit #11) with a 2000 psi WP rating.

See COA

7. Types and Characteristics of the Proposed Mud System

The well will be drilled to TD with a combination of brine, cut brine and polymer mud system. The applicable depths and properties of this system are as follows:

DEPTH	TYPE	WEIGHT	VISCOSITY	WATERLOSS
0-450' 525	Fresh Water	8.5	28	N.C.
450-1800' 1700	Brine	10	30	N.C.
1800'-TD	Cut Brine	8.7-9.1	29	N.C.

See
COA

Sufficient mud materials will be kept at the well site to maintain mud properties and meet minimum lost circulation and weight increase requirements at all times.

8. Auxiliary Well Control and Monitoring Equipment

- A. Kelly cock will be kept in the drill string at all times.
- B. A full opening drill pipe-stabbing valve with proper drill pipe connections will be on the rig floor at all times.

9. Logging, Testing and Coring Program

- See -
COA
- A. The electric logging program will consist of GR-Dual Laterolog, Spectral Density, Dual Spaced Neutron, CSNG Log and will be run from TD to 8 5/8" casing shoe.
 - B. Drill Stem test is not anticipated.
 - C. No conventional coring is anticipated.
 - D. Further testing procedures will be determined after the 5 1/2" production casing has been cemented at TD, based on drill shows and log evaluation.

10. Abnormal Conditions, Pressure, Temperatures and Potential Hazards

No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and the estimated maximum bottom hold pressure is 2300 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, although a Hydrogen Sulfide Drilling Operation Plan is attached to this program. No major loss of circulation zones has been reported in offsetting wells.

11. Anticipated Starting Date and Duration of Operations

Road and location work will not begin until approval has been received from the BLM. As this is a Master Drilling plan, please refer to the Form 3160-3 for the anticipated start date. Once commenced, drilling operations should be finished in approximately 12 days. If the well is productive, an additional 30 days will be required for completion and testing before a decision is made to install permanent facilities.



COG Operating LLC

Eddy County, NM (NAN27 NME)

Skelly Unit #757

Skelly Unit #757

OH

Plan: Plan #1 - 7-7/8" Hole

SHL = 1820' FSL & 1810' FWL

BHL = 1660' FSL & 2300' FWL

Top of Paddock = 126' South of Surface & 396' East of Surface @ 4900' TVD

Standard Planning Report

28 September, 2010





Scientific Drilling
Planning Report



Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #757
Well: Skelly Unit #757
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference: Site Skelly Unit #757
TVD Reference: GL Elev @ 3837.00usft
MD Reference: GL Elev @ 3837.00usft
North Reference: Grid
Survey Calculation Method: Minimum Curvature

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	Skelly Unit #757		
Site Position:	Map	Northing:	661,520.10 usft
From:	Map	Easting:	645,520.70 usft
Position Uncertainty:	0.00 usft	Slot Radius:	13-3/16 "
		Latitude:	32° 49' 3.757 N
		Longitude:	103° 51' 34.755 W
		Grid Convergence:	0.26 °

Well	Skelly Unit #757		
Well Position	+N/-S	0.00 usft	Northing:
	+E/-W	0.00 usft	Easting:
Position Uncertainty	0.00 usft	Wellhead Elevation:	Ground Level:
			3,837.00 usft

Wellbore	OH		
Magnetics	Model Name	Sample Date	Declination
	BGGM2010	2010/09/28	7.91
			Dip Angle
			60.71
			Field Strength
			49,049

Design	Plan #1 - 7-7/8" Hole		
Audit Notes:			
Version:	Phase:	PLAN	Tie On Depth:
			0.00
Vertical Section:	Depth From (TVD)	+N/-S	+E/-W
	(usft)	(usft)	(usft)
	0.00	0.00	0.00
			Direction
			(°)
			107.69

Plan Sections										
Measured	Inclination	Azimuth	Vertical	+N/-S	+E/-W	Dogleg	Build	Turn	TFO	Target
Depth	(°)	(°)	Depth	(usft)	(usft)	Rate	Rate	Rate	(°)	
(usft)			(usft)			(°/100usft)	(°/100usft)	(°/100usft)		
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,398.21	8.96	107.69	2,396.38	-10.63	33.34	2.00	2.00	0.00	107.69	
4,641.76	8.96	107.69	4,612.53	-116.83	366.39	0.00	0.00	0.00	0.00	
4,930.97	3.18	107.69	4,900.00	-126.12	395.53	2.00	-2.00	0.00	180.00	TG1-Skelly #757
6,733.75	3.18	107.69	6,700.00	-156.50	490.80	0.00	0.00	0.00	0.00	PBHL-Skelly #757



Scientific Drilling
Planning Report



Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #757
Well: Skelly Unit #757
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

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

Site Skelly Unit #757
GL Elev @ 3837.00usft
GL Elev @ 3837.00usft
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
West HL-Skelly #757 - South HL-Skelly #757									
1,850.00	0.00	0.00	1,850.00	0.00	0.00	0.00	0.00	0.00	0.00
8-5/8" Casing									
1,950.00	0.00	0.00	1,950.00	0.00	0.00	0.00	0.00	0.00	0.00
KOP Start Build 2.00°/100'									
2,000.00	1.00	107.69	2,000.00	-0.13	0.42	0.44	2.00	2.00	0.00
2,100.00	3.00	107.69	2,099.93	-1.19	3.74	3.93	2.00	2.00	0.00
2,200.00	5.00	107.69	2,199.68	-3.31	10.39	10.90	2.00	2.00	0.00
2,300.00	7.00	107.69	2,299.13	-6.49	20.34	21.35	2.00	2.00	0.00
2,398.21	8.96	107.69	2,396.38	-10.63	33.34	34.99	2.00	2.00	0.00
EOC hold 8.96°									
2,400.00	8.96	107.69	2,398.15	-10.71	33.60	35.27	0.00	0.00	0.00
2,500.00	8.96	107.69	2,496.93	-15.45	48.45	50.85	0.00	0.00	0.00
2,600.00	8.96	107.69	2,595.71	-20.18	63.29	66.43	0.00	0.00	0.00
2,700.00	8.96	107.69	2,694.49	-24.92	78.14	82.01	0.00	0.00	0.00
2,800.00	8.96	107.69	2,793.27	-29.65	92.98	97.60	0.00	0.00	0.00
2,900.00	8.96	107.69	2,892.04	-34.38	107.83	113.18	0.00	0.00	0.00
3,000.00	8.96	107.69	2,990.82	-39.12	122.67	128.76	0.00	0.00	0.00
3,100.00	8.96	107.69	3,089.60	-43.85	137.52	144.34	0.00	0.00	0.00
3,200.00	8.96	107.69	3,188.38	-48.58	152.36	159.92	0.00	0.00	0.00
3,300.00	8.96	107.69	3,287.16	-53.32	167.21	175.50	0.00	0.00	0.00
3,400.00	8.96	107.69	3,385.94	-58.05	182.05	191.09	0.00	0.00	0.00
3,500.00	8.96	107.69	3,484.72	-62.78	196.90	206.67	0.00	0.00	0.00
3,600.00	8.96	107.69	3,583.50	-67.52	211.74	222.25	0.00	0.00	0.00
3,700.00	8.96	107.69	3,682.27	-72.25	226.59	237.83	0.00	0.00	0.00
3,800.00	8.96	107.69	3,781.05	-76.99	241.43	253.41	0.00	0.00	0.00
3,900.00	8.96	107.69	3,879.83	-81.72	256.28	268.99	0.00	0.00	0.00
4,000.00	8.96	107.69	3,978.61	-86.45	271.12	284.57	0.00	0.00	0.00
4,100.00	8.96	107.69	4,077.39	-91.19	285.97	300.16	0.00	0.00	0.00
4,200.00	8.96	107.69	4,176.17	-95.92	300.82	315.74	0.00	0.00	0.00
4,300.00	8.96	107.69	4,274.95	-100.65	315.66	331.32	0.00	0.00	0.00
4,400.00	8.96	107.69	4,373.72	-105.39	330.51	346.90	0.00	0.00	0.00
4,500.00	8.96	107.69	4,472.50	-110.12	345.35	362.48	0.00	0.00	0.00
4,600.00	8.96	107.69	4,571.28	-114.85	360.20	378.06	0.00	0.00	0.00
4,641.76	8.96	107.69	4,612.53	-116.83	366.39	384.57	0.00	0.00	0.00
Start DLS 2.00°/100'									
4,700.00	7.80	107.69	4,670.15	-119.41	374.48	393.06	2.00	-2.00	0.00
4,800.00	5.80	107.69	4,769.44	-123.01	385.76	404.90	2.00	-2.00	0.00
4,900.00	3.80	107.69	4,869.08	-125.55	393.73	413.26	2.00	-2.00	0.00
4,930.97	3.18	107.69	4,900.00	-126.12	395.53	415.15	2.00	-2.00	0.00
EOC hold 3.18° - Top of Paddock - TG1-Skelly #757									
5,000.00	3.18	107.69	4,968.92	-127.28	399.18	418.98	0.00	0.00	0.00
5,100.00	3.18	107.69	5,068.77	-128.97	404.46	424.53	0.00	0.00	0.00
5,200.00	3.18	107.69	5,168.61	-130.65	409.75	430.07	0.00	0.00	0.00
5,300.00	3.18	107.69	5,268.46	-132.34	415.03	435.62	0.00	0.00	0.00
5,400.00	3.18	107.69	5,368.30	-134.02	420.32	441.17	0.00	0.00	0.00
5,500.00	3.18	107.69	5,468.15	-135.71	425.60	446.71	0.00	0.00	0.00
5,600.00	3.18	107.69	5,568.00	-137.40	430.88	452.26	0.00	0.00	0.00
5,700.00	3.18	107.69	5,667.84	-139.08	436.17	457.81	0.00	0.00	0.00
5,800.00	3.18	107.69	5,767.69	-140.77	441.45	463.35	0.00	0.00	0.00
5,900.00	3.18	107.69	5,867.53	-142.45	446.74	468.90	0.00	0.00	0.00
6,000.00	3.18	107.69	5,967.38	-144.14	452.02	474.45	0.00	0.00	0.00



Scientific Drilling Planning Report



Database: EDM-Julio
Company: COG Operating LLC
Project: Eddy County, NM (NAN27 NME)
Site: Skelly Unit #757
Well: Skelly Unit #757
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole

Local Co-ordinate Reference: Site Skelly Unit #757
TVD Reference: GL Elev @ 3837.00usft
MD Reference: GL Elev @ 3837.00usft
North Reference: Grid
Survey Calculation Method: 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)
6,100.00	3.18	107.69	6,067.23	-145.82	457.31	479.99	0.00	0.00	0.00
6,200.00	3.18	107.69	6,167.07	-147.51	462.59	485.54	0.00	0.00	0.00
6,300.00	3.18	107.69	6,266.92	-149.19	467.88	491.09	0.00	0.00	0.00
6,400.00	3.18	107.69	6,366.77	-150.88	473.16	496.63	0.00	0.00	0.00
6,500.00	3.18	107.69	6,466.61	-152.56	478.45	502.18	0.00	0.00	0.00
6,600.00	3.18	107.69	6,566.46	-154.25	483.73	507.73	0.00	0.00	0.00
6,700.00	3.18	107.69	6,666.30	-155.93	489.02	513.28	0.00	0.00	0.00
6,733.75	3.18	107.69	6,700.00	-156.50	490.80	515.15	0.00	0.00	0.00

PBHL-Skelly #757

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
West HL-Skelly #757 - plan misses target center by 527.75usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Rectangle (sides W0.00 H200.00 D0.00)	0.00	0.00	0.00	-166.50	500.80	661,353.60	646,021.50	32° 49' 2.087 N	103° 51' 28.895 W
South HL-Skelly #757 - plan misses target center by 527.75usft at 0.00usft MD (0.00 TVD, 0.00 N, 0.00 E) - Rectangle (sides W200.00 H0.00 D0.00)	0.00	0.00	0.00	-166.50	500.80	661,353.60	646,021.50	32° 49' 2.087 N	103° 51' 28.895 W
TG1-Skelly #757 - plan hits target center - Point	0.00	0.00	4,900.00	-126.12	395.53	661,393.98	645,916.23	32° 49' 2.492 N	103° 51' 30.127 W
PBHL-Skelly #757 - plan hits target center - Circle (radius 10.00)	0.00	0.00	6,700.00	-156.50	490.80	661,363.60	646,011.50	32° 49' 2.187 N	103° 51' 29.012 W

Casing Points

Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Diameter (")	Hole Diameter (")
1,850.00	1,850.00	8-5/8" Casing	8-5/8	12-1/4

Formations

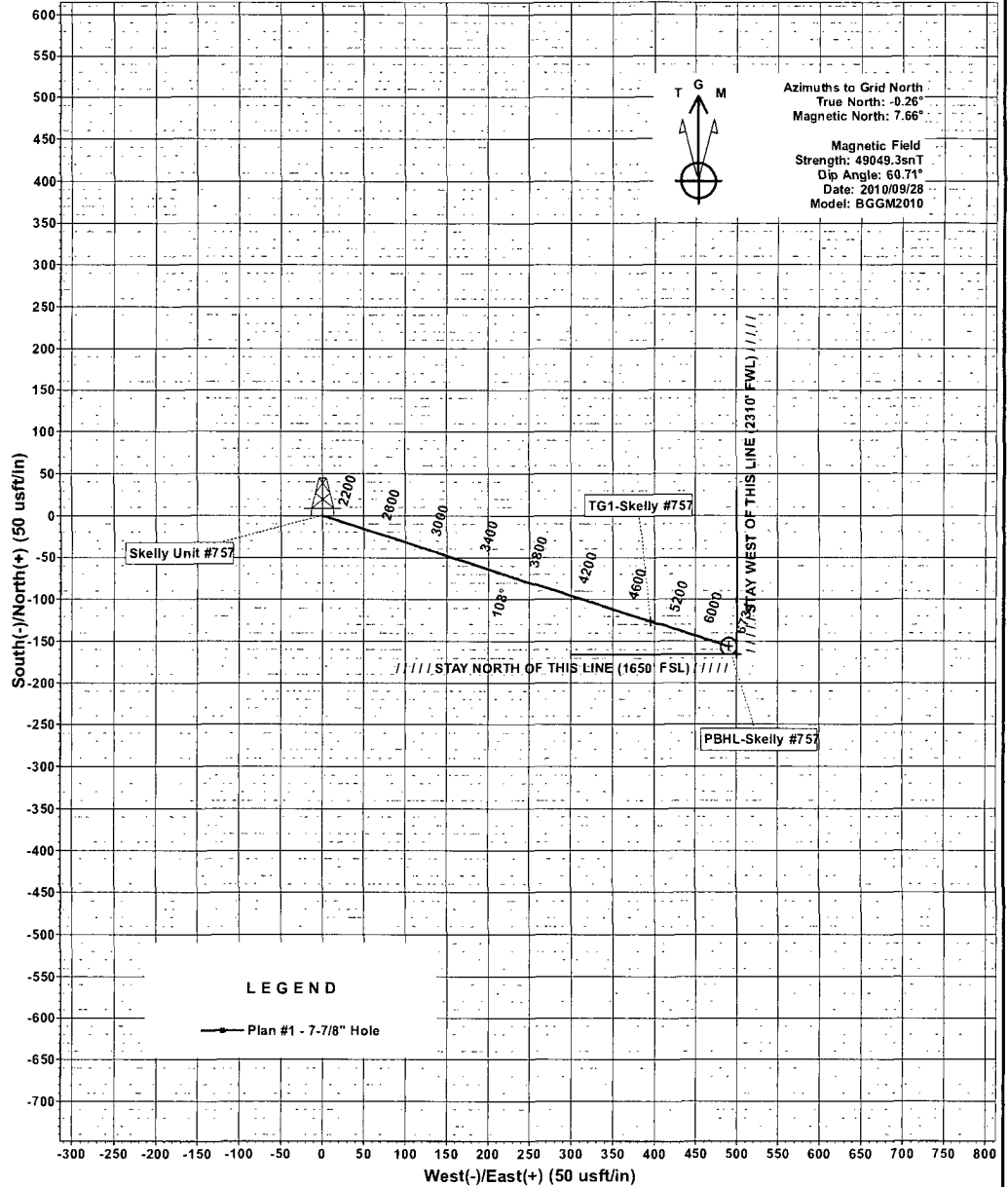
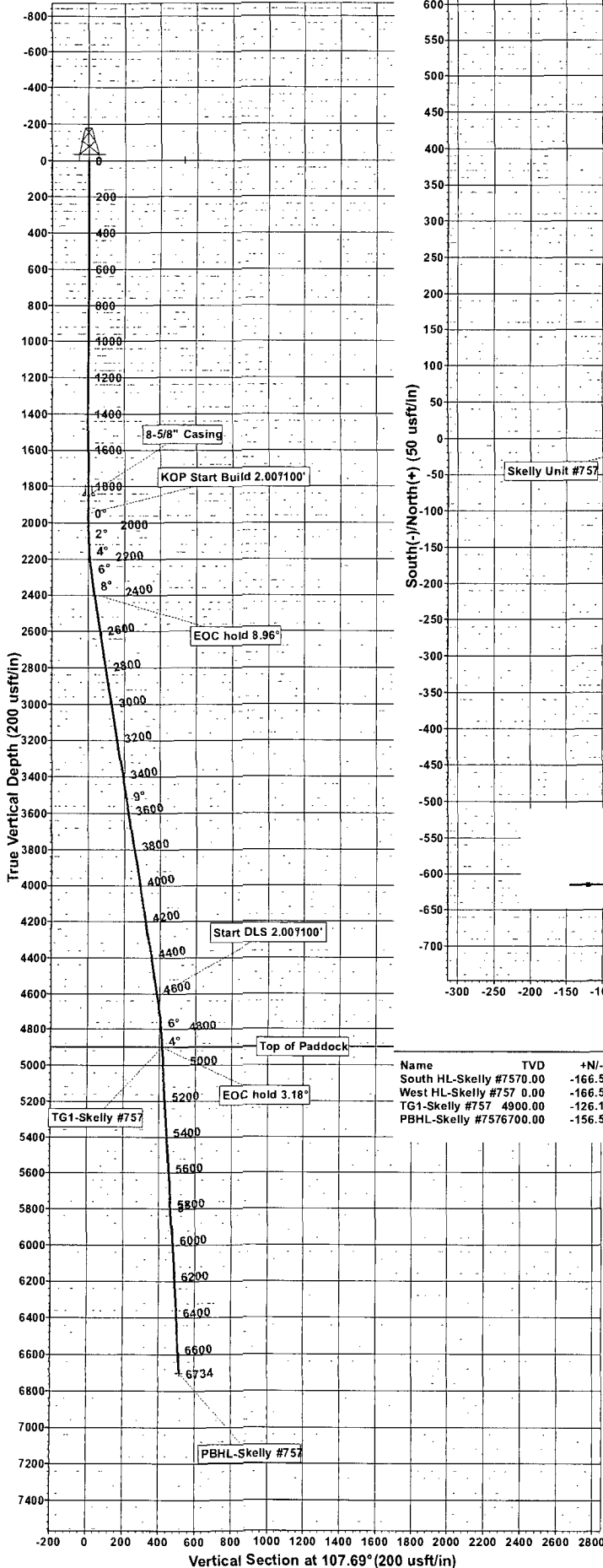
Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
4,930.97	4,900.00	Top of Paddock		0.00	

Plan Annotations

Measured Depth (usft)	Vertical Depth (usft)	Local Coordinates +N/-S (usft) +E/-W (usft)	Comment
1,950.00	1,950.00	0.00 0.00	KOP Start Build 2.00°/100'
2,398.21	2,396.38	-10.63 33.34	EOC hold 8.96°
4,641.76	4,612.53	-116.83 366.39	Start DLS 2.00°/100'
4,930.97	4,900.00	-126.12 395.53	EOC hold 3.18°



Scientific Drilling for COG Operating LLC
Site: Eddy County, NM (NAN27 NME)
Well: Skelly Unit #757
Wellbore: OH
Design: Plan #1 - 7-7/8" Hole



WELLBORE TARGET DETAILS (MAP CO-ORDINATES)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
South HL-Skelly #7570.00	-166.50	500.80	661353.60	646021.50	32°49' 2.087 N	103°51' 28.895 W	Rectangle (Side s: L0.00 W200.00)	
West HL-Skelly #757 0.00	-166.50	500.80	661353.60	646021.50	32°49' 2.087 N	103°51' 28.895 W	Rectangle (Sides : L200.00 W0.00)	
TG1-Skelly #757 4900.00	-126.12	395.53	661393.98	645916.23	32°49' 2.492 N	103°51' 30.127 W	Point	
PBHL-Skelly #7576700.00	-156.50	490.80	661363.60	646011.50	32°49' 2.187 N	103°51' 29.012 W	Circle (Radius: 10.00)	

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	1950.00	0.00	0.00	1950.00	0.00	0.00	0.00	0.00	0.00	
3	2398.21	8.96	107.69	2396.38	-10.63	33.34	2.00	107.69	34.99	
4	4641.76	8.96	107.69	4612.53	-116.83	366.39	0.00	0.00	384.57	
5	4930.97	3.18	107.69	4900.00	-126.12	395.53	2.00	180.00	415.15	TG1-Skelly #757
6	6733.75	3.18	107.69	6700.00	-156.50	490.80	0.00	0.00	515.15	PBHL-Skelly #757

WELL DETAILS: Skelly Unit #757

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	661520.10	645520.70	32°49' 3.757 N	103°51' 3 4.755 W	

PROJECT DETAILS: Eddy County, NM (NAN27 NME)

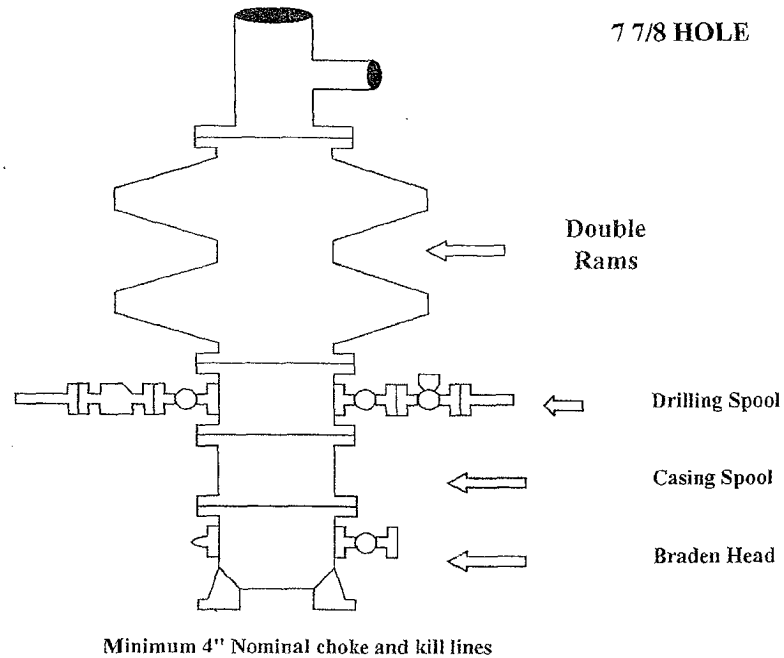
Plan: Plan #1 - 7-7/8" Hole (Skelly Unit #757/OH)

Geodetic System: US State Plane 1927 (Exact solution)	Created By: Julio Pina	Date: 28-Sep-10
Datum: NAD 1927 (NADCON CONUS)		
Ellipsoid: Clarke 1866	Checked: _____	Date: _____
Zone: New Mexico East 3001	Reviewed: _____	Date: _____
System Datum: Mean Sea Level	Approved: _____	Date: _____

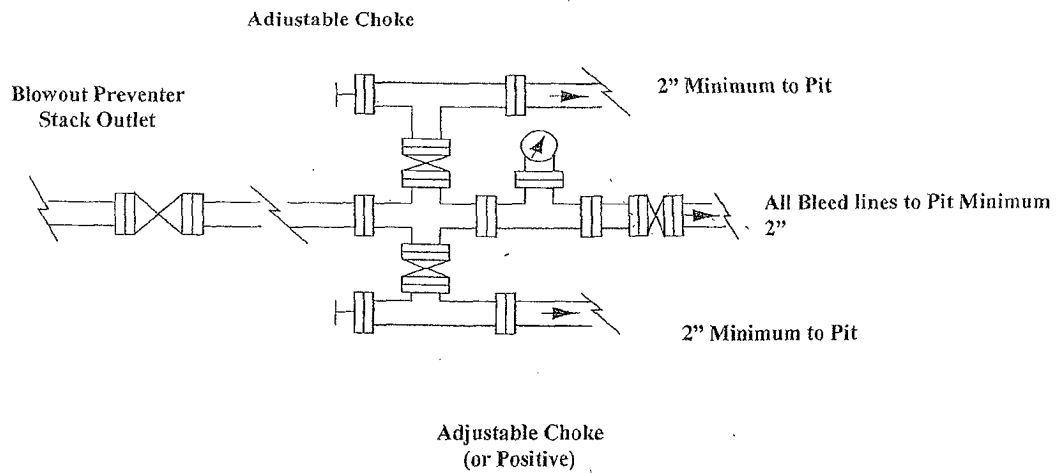
COG Operating LLC

Exhibit #9

BOPE and Choke Schematic



Choke Manifold Requirement (2000 psi WP)
No Annular Required



NOTES REGARDING THE BLOWOUT PREVENTERS
Master Drilling Plan
Eddy County, New Mexico

1. Drilling nipple to be so constructed that it can be removed without use of a welder through rotary table opening, with minimum I.D. equal to preventer bore.
2. Wear ring to be properly installed in head.
3. Blow out preventer and all fittings must be in good condition, 2000 psi WP minimum.
4. All fittings to be flanged.
5. Safety valve must be available on rig floor at all times with proper connections, valve to be full 2000 psi WP minimum.
6. All choke and fill lines to be securely anchored especially ends of choke lines.
7. Equipment through which bit must pass shall be at least as large as the diameter of the casing being drilled through.
8. Kelly cock on Kelly.
9. Extension wrenches and hands wheels to be properly installed.
10. Blow out preventer control to be located as close to driller's position as feasible.
11. Blow out preventer closing equipment to include minimum 40-gallon accumulator, two independent sources of pump power on each closing unit installation all API specifications.