OCD Artesia

Form 3160-3 (April 2004)	FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007				
UNITED STATES DEPARTMENT OF THE II	5. Lease Serial No. NMNM-98122				
BUREAU OF LAND MANA	6. If Indian, Allotee or Tribe Name				
APPLICATION FOR PERMIT TO D	N/A				
la. Type of work: DRILL REENTE	7. If Unit or CA Agreement, Name and No. NMNM - 71030X				
lb. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. SKELLY UNIT #714 4309607				
2. Name of Operator Chevron USA Agent: COG O	Operating LLC 222913	372	9, API Well No. 30-015- 38	444-	
3a. Address Agent Address: 550 W. Texas Ave., Suite 1300 Midland, TX 79701	10. Field and Pool, or Exploratory Fren; Glorieta-Yeso 26770				
4. Location of Well (Report location clearly and in accordance with any	11. Sec., T. R. M. or Blk. and Survey or Area				
At surface 1785' FNL & 1650' FEL, Unit G			Sec 21 T17S R31E		
At proposed prod. zone	Sec 21 1175 R	SIE			
14. Distance in miles and direction from nearest town or post office* 9 miles East of Loco Hills, NM	12. County or Parish EDDY	13. State	M		
15. Distance from proposed* 16. No. of acres in lease 17. Spaci location to nearest			ng Unit dedicated to this well		
property or lease line, ft. (Also to nearest drig, unit line, if any) 1650'	720	720 40			
18. Distance from proposed location* to nearest well, drilling, completed,	- Troposou Sopin		/BIA Bond No. on file		
applied for, on this lease, ft. 550'	6550	6550 NM		000215	
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3808' GL	22 Approximate date work will star 12/31/2010	22. Approximate date work will start* 12/31/2010		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 at	tached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover the Item 20 above).	ne operatio	ns unless covered by an ex	sisting bond on file	(see
3. A Surface Use Plan (if the location is on National Forest System I SUPO shall be filed with the appropriate Forest Service Office).		specific inf	ormation and/or plans as n	nay be required by	the
25. Signature Name (Printed/Typed)			Date		
Title Robyn M. Odom				12/22/2010	
Regulatory Analyst					
Approved by (Signature) /s/ Don Peterson Name (Printed/Typed)			1	DateUAN 18	2011 -
Title FIELD MANAGER	Office CARLSBAD FIELD OFFICE				E
Application approval does not warrant or certify that the applicant holds conduct operations thereon. Conditions of approval, if any, are attached.	legal or equitable title to those righ	ts in the sub	oject lease which would ent APPROVAL F	or TWO	YEARS
Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a cristates any false, fictitious or fraudulent statements or representations as to	ime for any person knowingly and vo	villfully to r	nake to any department or	agency of the Unit	ed

*(Instructions on page 2)

Roswell Controlled Water Basin

JAN 2 5 2011
NMOCD ARTESIA

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL



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

Jer COA

No other formations are expected to give up oil, gas or fresh water in measurable quantities. Setting 13 3/8" casing to 450 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 1800 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.

Jee Coa COG Operating LLC Master Drilling Plan Revised 7-22-09 Fren Area; Yeso Use for Sections 2-28, T-17-S, R-31-E Eddy County, NM

4. Casing Program

Hole Size	Interval	OD Casing	Weight	Grade	Jt., Condition	Jt.	burst/collapse/tension
17 ½"	0-450425	,13 3/8"	48#	H-40orJ-55	New	ST&C	8.71/3.724/14.91
11"or	0- 1800 62	² 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 or17#	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.

Ger

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, 436 475

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.

See COA

Multi-Stage: Stage 1: 50:50:2, 400 sx, yield - 1.37; Stage 2: 35:65:6, 500 sx, yield - 2.05, to 200' minimum tie back to intermediate casing. Multi stage tool to be set at approximately, depending on hole conditions, 256 - 2000'.

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 nippled up on the 13 3/8" surface casing with BOP equipment and tested to 2000 psi by rig pump in the test. The BOP will then be nippled 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.



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' 425	Fresh Water	8.5	28	N.C.
425	450-1800' 1625	Brine	10	30	N.C.
1625	1800'-TD	Cut Brine	8.7-9.1	29	N.C.

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 ½" production casing has been cemented at TD, based on drill shows and log evaluation.

10. Abnormal Conditions, Pressure, Temperatures and Potential Hazards

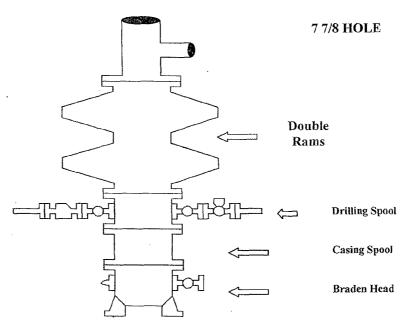
No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and the estimated maximum bottom hold pressure is 2300 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, although a Hydrogen Sulfide 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

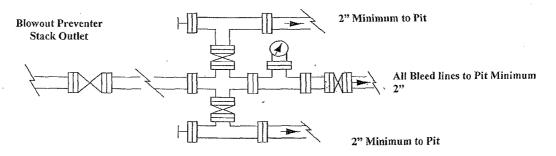
Exhibit #9 BOPE and Choke Schematic



Minimum 4" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP) No Annular Required

Adjustable Choke



Adjustable Choke (or Positive)

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.

Blowout Preventers Page 2