OCD Artesia

Form 3160 -3 (April 2004)	FORM APPROVED OMB No. 1004-0137 Expires March 31, 2007				
UNITED STATE DEPARTMENT OF THE BUREAU OF LAND MAI	5. Lease Serial No. NMLC-029419A				
APPLICATION FOR PERMIT TO	6. If Indian, Allotee or Tribe Name N/A				
a. Type of work: DRILL REENTER			7. If Unit or CA Agreement, Name and No. NMNM - 71030		
lb. Type of Well: Oil Well Gas Well Other	8. Lease Name and Well No. SKELLY UNIT #979 305607				
2. Name of Operator Chevron USA Agent: COC	G Operating LLC (229	7137)	9. API Well No. 30-015- 3834		
3a. Address Agent Address: 550 W. Texas Ave., Suite 1300 Midland, TX 79701 A32-685-4385			10. Field and Pool, or Exploratory Fren; Glorieta-Yeso 26770		
4. Location of Well (Report location clearly and in accordance with any State requirements.*) At surface 1385' FNL & 1556' FEL, Unit G			11. Sec., T. R. M. or Blk. and Survey or Area		
At proposed prod. zone			Sec 22 T17S R31E		
14. Distance in miles and direction from nearest town or post office* 9 miles East of Loco Hills	s, NM		12. County or Parish EDDY	13. State NM	
15. Distance from proposed* location to nearest property or lease line, ft.	16. No. of acres in lease	17. Spacin	g Unit dedicated to this well		
(Also to nearest drig. unit line, if any)	720		40		
8. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 450'	19. Proposed Depth 6700'	20. BLM/I	BIA Bond No. on file NMB000215		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 3861' GL	22 Approximate date work will sta	art*	23. Estimated duration 15 days		
3007 02	24. Attachments		13 days		
he following, completed in accordance with the requirements of Onsh		attached to th	is form:		
Well plat certified by a registered surveyor. A Drilling Plan.	4. Bond to cover ltem 20 above).	the operatio	ns unless covered by an existing	ng bond on file (see	
3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).		specific info	ormation and/or plans as may t	pe required by the	
25. Signature de la	Name (Printed/Typed)	Name (Printed/Typed)			
itle took	Robyn M. Odom	Robyn M. Odom		10/22/2010	
Regulatory Analyst	·				
Approved by (Signature) /s/ Don Peterso	Name (Printed/Typed)		Date	NOV 2 2 2010	
FIELD MANAGER	Office		CARLSBAD FIELD	OFFICE	
Application approval does not warrant or certify that the applicant hol	lds legal or equitable title to those right	hts in the sub	oject lease which would entitle t	he applicant to	
onduct operations thereon. Conditions of approval, if any, are attached.			APPROVAL I	FOR TWO YEAR	
itle 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a tates any false, fictitious or fraudulent statements or representations a		willfully to n	nake to any department or ager	icy of the United	
(Instructions on page 2)	75 = 1	;			
I Water Pagin	CEIVED	VA	<i>)</i>		

Roswell Controlled Water Basin

Approval Subject to General Requirements & Special Stipulations Attached

SEE ATTACHED FOR CONDITIONS OF APPROVAL

MASTER DRILLING PROGRAM

Geologic Name of Surface Formation 1.

Quaternary

2. **Estimated Tops of Important Geologic Markers:**

Surface
560'
1150'
1770'
2100'
2715'
3100'
3450'
4950'
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 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 1850 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) See con to protect the wellbore and/or the environment.

See COA

4. Casing Program

600		Hole Size	Interval	OD Casing	Weight	Grade	Jt., Condition	Jt.	burst/collapse/tension
Zee	/	17 ½"	0-450525	o13 3/8"	48#	H-40orJ-55	New	ST&C	8.71/3.724/14.91
CSA		11"o r121/4	0-1800	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.

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 CO?

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 COA 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, TD—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 nippled up on the 13 3/8" surface casing with BOP equipment and tested together to 2000 psi by rig pump See WA -in-one 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
0-450 525	Fresh Water	8.5	28	N.C.
450-1800'1750	Brine	10	30	N.C.
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**

- Kelly cock will be kept in the drill string at all times. A.
- 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 Con

- 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

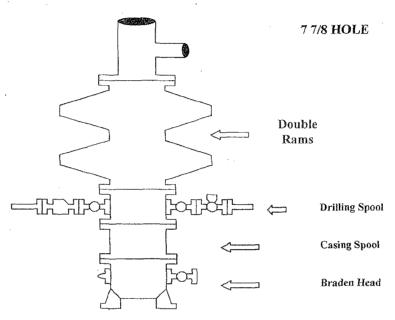
No abnormal pressures or temperatures are anticipated. The estimated bottom hole at TD is 110 degrees and the estimated maximum bottom hold pressure is 2300 psig. Measurable gas volumes or Hydrogen Sulfide levels have not been encountered during drilling operations in this area, although a Hydrogen Sulfide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

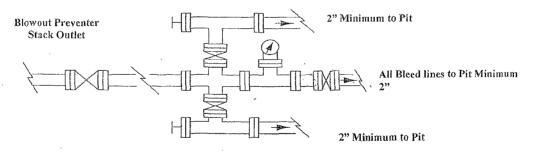
Exhibit #9 BOPE and Choke Schematic



Minimum 4" Nominal choke and kill lines

Choke Manifold Requirement (2000 psi WP) No Annular Required

Adiustable 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