Form 3160-3 (April 2004)

OPERATOR'S COPY

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

UNITED STATES				
DEPARTMENT OF TH	E INTERIOR			
BUREAU OF LAND M	IANAGEMENT			

5H; 5. Lease Serial No.

6. If Indian, Allotee or Tribe Name

APPLICATION FOR PERIMIT TO	DRILL OR REENIER			
\$.141.87.8W				· -
la. Type of work: KX DRILL REENT	7 If Unit or CA Agreement, Na	ame and No.		
lb. Type of Well: XX Oil: Well Gas Well Other	X Single Zone Multi	ple Zone	8. Lease Name and Well No. COTTONMOUTH "13" FE	
	lbach 432-685-1287)	11955	9. API Well No. 30-015-39/	34
3a. Address	3b. Phone No. (include area code)	Ì	10. Field and Pool, or Explorator	ry
P. O. BOX 2064 MIDLAND, TEXAS 79702	2 432–685–1287		DELAWARE RIVER-BONI	
4. Location of Well (Report location clearly and in accordance with a	any State requirements. I MORTH	ODOX	11. Sec., T. R. M. or Blk. and Su	irvey or Area
At surface 810' FSL & 2630' FWL SEC At proposed prod. zone 330' FSL & 2310' FWL		SECTION 13 T26S-R28	8E	
			12. County or Parish	13. State
14. Distance in miles and direction from nearest town or post office* Approximately 14 niles South or Mala	ga New Mexico		EDDY CO.	NM
15. Distance from proposed*	16. No. of acres in lease	17. Spacin	g Unit-dedicated to this well-	
location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	320		160	
18. Distance from proposed location*	19. Proposed Depth	20. BLM/	BIA Bond No. on file	
to nearest well, drilling, completed,			ß-000244	
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will st	ari*	23. Estimated duration	
2920 GL WHEN APPROVED			25 days	·
	24. Attachments			,
The following, completed in accordance with the requirements of Ons	hore Oil and Gas Order No.1. shall be	attached to the	nis form:	

5	•	,	RECEIVED	
1. Well plat certified by a registered surveyor.	4.	Bond to cover the operations un	less covered by an existing bond of	file (s
2. A Drilling Plan.		Item 20 above).	DEC 02 2011	
a tide from the bit. About the contract of		0	1	

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).

Such other site specific information and of plans as may authorized officer

CARLSBAD FIELD OFFICE

Name (Printed/Typed) 25. Signaturé Date 10/11/11 T. Janica Title rmit Eng.

Approved by (Signature) Tide FIELD MANAGER

Name (Printed/Typed)

Date

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.

Office

Conditions of approval, if any, are attached.

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, lictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

Carlsbad Controlled Water Basin

Witness Surface & Intermediate Casing SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached



DISTRICT I --- CHECKLIST FOR INTENTS TO DRILL

~	Operator CGX ,	OGRID # 217955
CG CI	Well Name & # Cotton Mouth 13 Fon Com	Surface Type (F) (S) (P)
×701	Location: UL N. Sect 3 , Twnship 26 s, RNG 8 e,	Sub-surface Type (F) (S) (P)
	A. Date C101 rec'd 12 20 C101 reviews B. 1. Check mark, Information is OK on Forms: OGRID , BONDING , PROP CODE , WELL # V 2. Inactive Well list as of: 12 02 01 # wells 40 a. District Grant APD but see number of inactive wells: No letter required ; Sent Letter to Operator, to Some services and it is a continuous property of the cont	_, SIGNATURE, # Inactive wells anta Fe
	No Letter required / ; Sent Letter to Operator, To b. District Denial because of Inactive well list and Financial No Letter required / ; Sent Letter to Operator, To provide the control of	Assurance:
	C. C102 YES, NO, Signature, No, Call, South, Call, South, Call, South, Call, What Units, What Units, What Units, No, # of wells, plus, No, # of wells, plus, No, # of wells, plus, No, # of wells, No, Agreement Letter, Disagreement letter, Disagreement letter, No, No, What Units, What Units, What Units, What Units, What Units, What Units, No, What Units, No, What Units, No, What Units, No, No, No, No	 1
1	b. Bottomhole Location Standard, Non-Standard B 4. Downhole Commingle: Yes, No a. Pool #2,Code Pool #3, Code	
	D. Blowout Preventer Yes, No, E. H2S Yes, No, F. C144 Pit Registration Yes, No, G. Does APD require Santa Fe Approval: 1. Non-Standard Location: Yes, No, NSL # 2. Non-Standard Proration: Yes, No, NSP # 3. Simultaneous Dedication: Yes, No, SD # Number of wells, No; PMX # or 5. SWD order Yes, NO; SWD #	
	6. DHC from SF; DHC-HOB; Holding	
	8. Reviewers 709	

OGX RESOURCES, LLC.
COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T26S-R28E EDDY CO. NM

In responce to questions asked under Section II of Bulletin NTL-6, the following information on the above well will be provider.

- 1. LOCATION: SHL: 810' FSL & 2630' FWL SECTION 13 T26S-R28E EDDY CO. NM
 BHL 330' FSL & 2310' FWL SECTION 24 T26S-R28E EDDY CO. NM
- 2. ELEVATION ABOVE SEA LEVEL: 2920' GL
- 3. GEOLOGICAL NAME OF SURFACE FORMATION: Quaternery Aeolian Deposits;
- 4. DRILLING TOOLS AND ASSOCIATED EQUIPMENT: Conventional rotary drilling rig using drilling mud as a circulating medium for the removal of solidsfrom the hole.
- 5. PROPOSED DRILLING DEPTH: TVD-7050' MD-12,644'

6. ESTIMATED TOPS OF GEOLOGICAL FORMATIONS:

Rustler Anhydrite	400*	Cherry Canyon	3500
Basal Anhydrite	2420	Brushy Canyon	4700 '
Lamar Lime	2600	Bone Spring	6350 '
Bell Canyon	2630 '	TVD	7050 †

7. POSSIBLE MINERAL BEARING FORMATIONS: TOP OF SALT 520' Base of Salt 1560'

Bell Canyon Oil/Gas/Form. Water Brushy Canyon Oil/Gas/Form.Water Cherry Canyon Oil/Gas/Form. Water Bone Spring Oil/Gas/Form.Water

Possible Fresh Water 100±'

8. CASING PROGRAM:

HOLE SIZE	INTERVAL	CASING OD_	WEIGHT	THREAD	COLLAR	GRADE	CONDITION
0.611	0-40'	20 ''	NA	NA.	NA C	Conductor	New
26"	0-40	20	AM	NA	MA C	onductor	HEW
17½"	0-425	13 3/8"	48#	8-R	ST&C	H-40	New
11"	0-2625	8 5/8 "	32#	8-R	ST&C	J ~ 55	New
7 7/8 ¹¹	0-6400	5 ½ ·	17#	8-R	LT&C	P-110	New
7 7/8"	6400-12,644	5½"	17#	Buttress	BT&C	P-110	New
CASING SA	FETY FACTORS:	Collapse	1.125	Burst 1.	.00 Bod	ly Yield	1.5
		Joint Stren	ngth 8	-Round 1.	. 8		

Buttress 1.6

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. 9. CASING CEMENTING & SETTING DEPTHS:

20 "	Conductor	Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
13 3/8"	Surface .	Run and set 425' of 13 3/8" 48# H-40 ST&C casing. Cement to surface with 225 Sx. of 35/65/6 Premium Plus Class "C" POZ, + 6% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx. Yield 2.00, tail in with 200 Sx. of Premium Plus Class "C" cement + 2% CaCl, Yield 1.34 circulate cement to surface. 50% Excess
8 5/8 "	Intermediate Secon	Run and set 2625' of 8 %/8" 32# J-55 ST&C casing. Cement with 300 Sx. of 35/65 Premium Plus Class "C" POZ cement + 4% Bentonite, + 5% Salt, + 5% MPA-5, + 0.7% Sodium Metasilicate, + 5# LCM/Sx., Yield 2.02, tail in with 200 Sx. of Class "C" cement + 2% CaCl, Yield 1.34, Circulate cement to surface. After running fluid caliper add 25% Excess
.5½"	Production Sec	Run and set 12,644' of 5½" casing as follows: 6244' of 5½" 17# P-110 BTC, 6400' of 5½" 17# P-110 LT&C casing. Cement with 400 Sx. of 35/65 Premium PLus/Class "C" POZ cement + 4% Bentonite, ±5% Salt, +5% MPA-5, +0.7% Sodium Metasilicate, +5# LCM/Sx. Yield 2.02, tail in with 900 Sx. of Class "C" cement +2% CaC1, Yield 1.34 circulate cement to surface. After fluid caliper and open hole caliper has been run and volume calculated add 25% Excess

10. PRESSURE CONTROL EQUIPMENT: Exhibit "E" shows a 900 Series 3000 PSI working pressure B.O.P. consisting of an annular bag type preventor. middle blind rams, and bottom pipe rams. The B.O.P. will be nippled up on the 13 3/8" casingand teste to API specifications. The B.O.P. will be operated at least once in each 24 hour period, and the blind rams will be operated when the drill pipe is out of the hole Full opening stabbing valve and upper kelly cock will available at all times on the derrick floor. Exhibit "E-1" shows a hydraulically operate closing unit and a 5000 PSI working pressure choke manifold with dual adjustiable choles. No abnormal pressures or temperatures are expected while drilling this well.

B.O.P. 13 5/8" X 11"

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COTTONMOUTH "13" FEDERAL COM. #1H
UNIT "N" SECTION 13
T265-R28E EDDY CO. NM

11. PROPOSED MUD CIRCULATING SYSTRM:

DEPTH	MUD WI.	VISC.	FLUID LOSS	TYPE MUD SYSTEM
40–425	8.6-8.8	36–38	NC	Fresh water Spud Mud, us paper to control seepage
425-2625 *	10.0-10.1	29–30	ИС	Brine water use paper to control seepage and high viscosity sweeps to clea hole.
2625-6400	8.4-9.1	28-29	NC	Fresh water use paper to control seepage and high viscosity sweeps to clehole.
6400-12,644	8.4-9.1	34–36	12-15 cc or less	Same as above use Dynaza HB-411 and starch to cont fluid loss and hole stab fty.

A closed mud system will be employed during the drilling of this well all cutting and fluids will be disposed in a State approved disposal facility.

Sufficient mud materials will be kept on location at all times in order to combalost circulation, or unexpected kicks. In order to run DST's, open hole logs, cucares and casing, the viscosity, water loss and other properties may have to be altered to meet these requirements.

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COTTONMOUTH "13" FEDERAL COM. #1H
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12. LOGGING, CORING, AND TESTING PROGRAM: See COA

- A. Open hole logs: Dual Laterolog, Neutron/Density, Gamma Ray, Caliper from KOP back to 8 5/8" casing shoe. Gamma Ray, Neutron from 8 5/8" casing shoe back to surface.
- B. Mud logger will be rigged up on hole below the 13 3/8" casing and remain on the hole to TD.
- C. No cores or DST's are planned at this time.

13. POTENTIAL HAZARDS:

No abnormal pressures or temperatures are expected. There is no known presence of H2S in this area. If H2S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. No lost circulation is expected to occur. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated bottom hole presure 3048 PSI and estimated bottom hole temperature 139° .

14. ANTICIPATED STARTING DATE AND DURATION OF OPERATION:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be as soon after The BLM approval and as soon as a rig will be available. Move in operation and drilling is expected to take 25 days. If production casing is run then an additional 20 days will be required to complete the well and construct surface production facilities.

15. OTHER FACETS OF OPERATION:

After running casing, cased hole Gamma Ray, Neutron, Collar logs will be run over the productive interval. The BONE SPRING formation will be perforated and stimulated in order to establish production, and potentialed as an oil well.