

## OCD-ARTESIA

ATS-12-551

EA-12-847

Form 3160-3  
(August 2007)UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

FORM APPROVED  
OMB No. 1004-0137  
Expires July 31, 20105 Lease Serial No.  
NM-480904B

6 If Indian, Allottee or Tribe Name

TES  
8/2/20127 If Unit or CA Agreement, Name and No.  
ROSS DRAW UNIT NMNM 71027X8 Lease Name and Well No.  
ROSS DRAW UNIT #33 C118087

9 API Well No.

30-015-40623

1a. Type of work: ☒ DRILL ☐ REENTER1b. Type of Well: ☒ Oil Well ☐ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

2 Name of Operator J. C. WILLIAMSON

3a. Address P.O. BOX 16  
MIDLAND, TX. 797023b Phone No. (include area code)  
575-361-4962 (DARELL FOLMAR)

4 Location of Well (Report location clearly and in accordance with any State requirements \*)

At surface 1980 FSL &amp; 1650 FEL

At proposed prod. zone SAME

10 Field and Pool, or Exploratory

ROSS DRAW DELAWARE EAST 527957

11 Sec., T. R. M. or Bk. and Survey or Area  
SECTION 22, T. 26 S., R. 30 E.14 Distance in miles and direction from nearest town or post office\*  
APPROXIMATELY 15 MILES SOUTHEAST OF MALAGA, NM12 County or Parish  
EDDY13. State  
NM15 Distance from proposed\* location to nearest property or lease line, ft  
(Also to nearest drig. unit line, if any) 165016 No. of acres in lease  
64017. Spacing Unit dedicated to this well  
40

18 Distance from proposed location\* to nearest well, drilling, completed, applied for, on this lease, ft 600 FT.

19. Proposed Depth  
6,250 FT.20 BLM/BIA Bond No. on file  
NM-246921 Elevations (Show whether DF, KDB, RT, GL, etc.)  
3052' GL

22 Approximate date work will start\*

23. Estimated duration  
30 DAYS

## 24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO must be filed with the appropriate Forest Service Office)

- 4 Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification
6. Such other site specific information and/or plans as may be required by the BLM.

25. Signature

Barry W. Hunt

Name (Printed/Typed)

BARRY W. HUNT

Date

3/27/12

Title

PERMIT AGENT FOR J. C. WILLIAMSON

Approved by (Signature)

Is/ Don Peterson

Name (Printed/Typed)

Is/ Don Peterson

Date

AUG 16 2012

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.

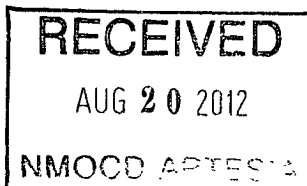
APPROVAL FOR TWO YEARS

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.

(Continued on page 2)

\*(Instructions on page 2)

Carlsbad Controlled Water Basin

Approval Subject to General Requirements  
& Special Stipulations AttachedSEE ATTACHED FOR  
CONDITIONS OF APPROVAL

## CERTIFICATION

I hereby certify that I, or persons under my direct supervision, have inspected the proposed 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 J. C. Williamson are 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 27th. day of March 2012.

Signed: Barry W. Hunt

Printed Name: Barry Hunt

Position: Agent for J. C. Williamson

Address: 1403 Springs Farm Place, Carlsbad, NM 88220

Telephone: (575) 361-4078

E-mail: [specialtpermitting@gmail.com](mailto:specialtpermitting@gmail.com)

Field Representative: Darell Folmar

Address: P. O. Box 994, Midland, Tx. 79702

Telephone: Cell: (575) 361-4962

**J. C. Williamson**

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P. O. Box 16 Midland , Texas 79702

432-682-1797

Fax 432-682-9432

March 22, 2012

To Whom It May Concern:

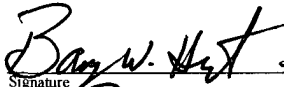
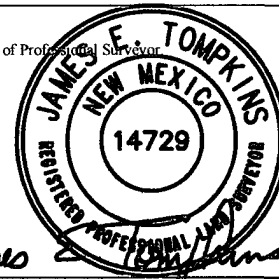
Mr. Barry Hunt is employed by J.C. Williamson to sign as their agent for APD's and Right of Ways in the state of New Mexico.

If you have any questions, please contact Darell Folmar @ 575-361-4962.

Sincerely,



Darell Folmar  
Vice President of Operations  
J.C. Williamson

					<p><b>OPERATOR CERTIFICATION</b></p> <p><i>I hereby certify that the information contained 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 a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.</i></p> <p>  </p> <p>Signature _____ Date <u>3/27/12</u></p> <p><u>Barry W. Hunt</u></p> <p>Print Name _____</p> <p>_____ E-mail Address</p>
	<p><u>ROSS DRAW UNIT #33</u>          NMSP-E (NAD 83)          Y = 373562 7' N          X = 686219.4' E          N LAT.= 32° 01' 34.12"          W LONG.= -103° 51' 56.97"</p> <p><u>NMSP-E (NAD 27)</u>          Y = 373505.4' N          X = 645033 1' E          N LAT.= 32.026017136°          W LONG.= -103.865346641°</p>			<p><b>SURVEYORS CERTIFICATION</b></p> <p><i>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</i></p> <p>March 23, 2012</p> <p>Date of Survey _____</p> <p>Signature and Seal of Professional Surveyor _____</p> <div style="text-align: center;">  </div> <p><u>James E. Tompkins</u></p> <p>Job No. <u>WTC48477</u></p> <p>JAMES E TOMPKINS 14729</p> <p>Certificate Number _____</p>	

J. C. WILLIAMSON  
DRILLING PLAN

ROSS DRAW UNIT #33

1980' FSL & 1650' FEL (Lease: NM-480904B)

Unit "J" Section 22-26S-30E

Eddy County, NM

1. The elevation of the unprepared ground is 3,052' feet above sea level.
2. The geologic name of the surface formation is Quaternary - Alluvium.
3. A rotary rig will be utilized to drill the well to 6,250' and run casing. This equipment will then be rigged down and the well will be completed with a workover rig.
4. Proposed total depth is 6,250'.
5. Estimated tops of important geologic markers:

Quaternary - Alluvium	Surface*
Rustler	1000'
Salado	1,310'
Castile	1,805'
Lamar Lime	3,450'
Base of Lime	3,470'
Delaware Top	3,500'
Bison Wallow	5,540' - 5600'
Williamson	5,600' - 5660'
Getty	5,900' - 6020'
TD	6,250'

\*Water possible above Rustler

6. Estimated depths at which anticipated water, oil, gas or other mineral bearing formations are expected to be encountered:

Surface Alluvium	Water (0-400')
Delaware	Oil
Bison Wallow	Oil
Williamson	Oil
Getty	Oil

7. The proposed casing program is as follows:

14-40

Surface: 17 1/2" Hole. 13-3/8" Casing, 48# J-55 ST&C, new casing set from  
0' - ~~1025'~~ 910' See COA  
Tension SF 9.01J, Collapse SF 1.97, Burst SF 3.70.

Intermediate: 11" Hole. 8-5/8" Casing, 24# J-55, ST&C, new casing set from  
0' - 3,500' 32' OK  
0 - 2300' 24# J-55  
2300 - 3500' 32# J-55  
Per Operator 8/16/12  
CRW

Tension SF 3.44J, Collapse SF 1.18, Burst SF 1.73.

Production: 7 7/8" Hole. 5-1/2" Casing, 15.5# ~~1-55~~<sup>910</sup> LT&C, new casing set from 0' - 6,250'

Tension SF 1.89J, Collapse SF 1.12, Burst SF 1.31.

8. Casing setting depth and cementing program:

- a. 13-3/8" surface casing set at ~~1025'~~<sup>910</sup> in 17-1/2" hole. Circulate cement to surface with 820 sx "C" with 2% bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 4% bwoc Bentonite II + 81.3% Fresh Water. 13.5 ppg. 1.75 cf/sk Yield, followed by 200 sks Class C + 2% bwoc Calcium Chloride + 0.25 lbs/sk Cello Flake + 56.3% Fresh Water. 14.8 ppg. 1.35 cf/sk Yield. excess-100%.
- b. 8-5/8" intermediate casing set at 3,500' in ~~12-1/4"~~<sup>11</sup> hole. Circulate cement to surface with 765 sx (50:50) Poz (Fly Ash): Class C + 10% bwoc Bentonite II + 5% bwow NaCl + 0.25 lbs/sk Cello Flake + 151.7% Fresh Water. 11.6 ppg. 2.61 cf/sk Yield, followed by 200 sks Class C + 1% bwoc Calcium Chloride + 56.2% Fresh Water. 14.8 ppg. 1.34 cf/sk Yield. excess -100%.
- c. 5-1/2" production casing set at 6,250' in ~~8-3/4"~~<sup>7 7/8</sup> hole. Hole will be callipered to determine cement volume to bring TOC to 3,300'. **DV tool set @ 5300'**  
Stage 1: 270 sx (50:50) Poz (Fly Ash): Class C + 0.1% bwoc FL-52 + 2% bwoc Bentonite II + 56.7% Fresh Water. 12.8 ppg. 1.86 cf/sk Yield.  
Stage 2: 555 sx (50:50) Poz (Fly Ash): Class C + 10% bwoc Bentonite II + 5% bwow NaCl + 5 lbs/sk LCM-1 + 91.9% Fresh Water. 14.8 ppg. 1.33 cf/sk Yield. excess -100%.

9. Pressure Control Equipment

The blowout preventor equipment (BOP) will consist of a 2000 or 3000 psi double ram type preventor, a bag-type (Hydril) preventor (If 3M is used), and rotating head. Both units will be hydraulically operated and the ram type preventor will be equipped with blind rams on top and 4 -1/2" drill pipe rams on bottom. A 2M or 3M 13 5/8" BOP will be installed on the 13-3/8" surface casing and utilized continuously until total depth is reached. BOP's and associated equipment will be tested as a 2/3M system prior to drilling out all casing shoes. All casing strings will be tested as per Onshore Order #2.

NOTE! A 3M will be used if it will fit under rig otherwise will utilize a 2M.

Pipe rams will be operated and checked each 24 hour period and each time the drill pipe is out of the hole. These functional tests will be documented on the daily drillers log.

10. Mud Program:

0' – <del>1025'</del> 910'	Fresh water, using F/W Bentonite. 8.4 ppg, Vis 29 to 40, WL NC.
<del>1025'</del> – 3,500'	Brine water and salt water clay. 9.3 to 9.9 ppg, Vis 29 to 33, WL As needed.
3,500' – 6,250'	Brine Water and salt water clay as needed. Fluid loss and lost circulation material as needed. 9.3 to 9.9 ppg, Vis 29, WL As needed. Mud up at TD.

The necessary mud products for drilling mud, weight control and fluid loss control will be on location at all times and will be used as necessary.

11. Testing, Logging and Coring Program: *See COA*

Testing program: No drillstem tests are anticipated.

Electric logging program: CNL/CAL/GR, DLL/CAL/GR from TD to 8 5/8" shoe.

Coring program: None.

12. Potential Hazards:

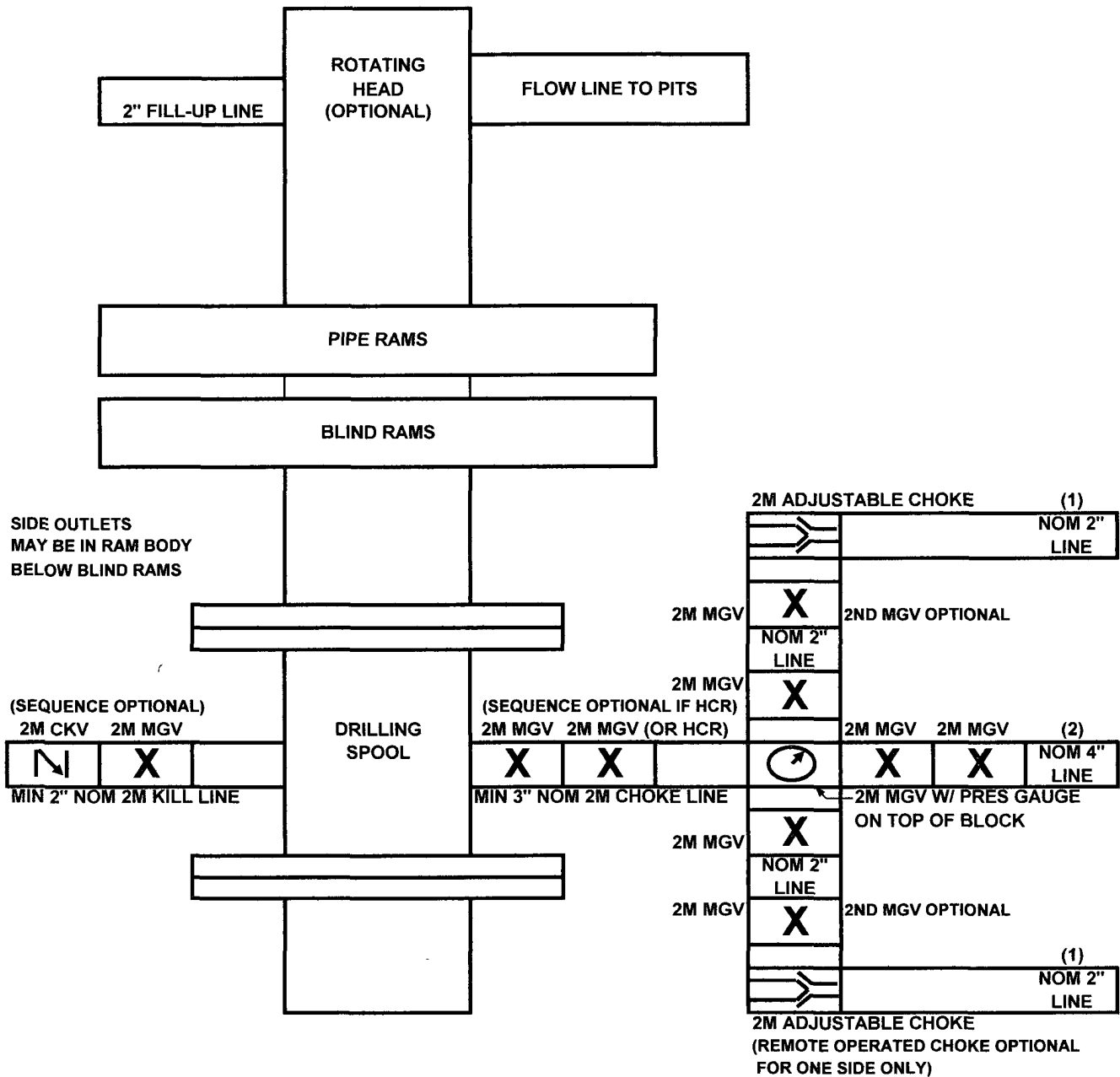
No abnormal pressures or temperatures are expected. There is no known presence of H<sub>2</sub>S in this area. If H<sub>2</sub>S is encountered the operator will comply with the provisions of Onshore Oil and Gas Order No. 6. All personnel will be familiar with all aspects of safe operation of equipment being used to drill this well. Estimated BHP 2,750 psi and estimated BHT 150 degree F. Pressure derived by  $0.44 \times 6250$  ft.

13. Anticipated Starting Date and Duration of Operations:

Road and location construction will begin after the BLM has approved the APD. Anticipated spud date will be soon after BLM approval and as soon as a rig will be available.

Move in operations and drilling is expected to take 32 days. An additional 30 days will be needed to complete the well and to construct surface facilities.

## 2M BOP SCHEMATIC



(1) Line to mud gas separator and/or pit

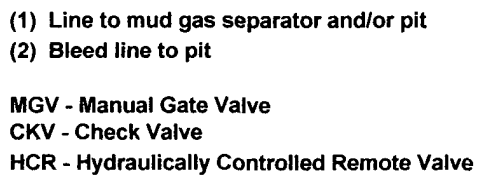
(2) Bleed line to pit

MGV - Manual Gate Valve

CKV - Check Valve

HCR - Hydraulically Controlled Remote Valve

1



**HCR - Hydraulically Controlled Remote Valve**

## PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:	J C Williamson
LEASE NO.:	NM0480904B
WELL NAME & NO.:	33 Ross Draw Unit
SURFACE HOLE FOOTAGE:	1980' FSL & 1650' FEL
BOTTOM HOLE FOOTAGE	' FL & ' FL
LOCATION:	Section 22, T.26 S., R.30 E., NMPM
COUNTY:	Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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- ☐ **Archaeology, Paleontology, and Historical Sites**
- ☐ **Noxious Weeds**
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- ☒ **Construction**
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  - Closed Loop System
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  - Roads
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