Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

RECEIVED
JUN 24 2013
NMOCD ARTESIA

FORM APPROVED
OMB NO. 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on page 2

5. Lease Serial No.
NMLC064756

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well
[X] Oil Well [ ] Gas Well [ ] Other

8. Well Name and No.
R. T. Wilson 4 Federal

2. Name of Operator
EOG Resources Inc.

9. API Well No.
30-015-05867

3a. Address
P.O. Box 2267 Midland, Texas 79702

3b. Phone No. *(include area code)*
432-686-3689

10. Field and Pool, or Exploratory Area
Mason; Delaware, North

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
660 FSL & 1993 FEL, U/L O
Sec 24, T26S, R31E

11. County or Parish, State
Eddy NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
[X] Notice of Intent	[ ] Acidize	[ ] Deepen	[ ] Production (Start/Resume)	[ ] Water Shut-Off
[ ] Subsequent Report	[ ] Alter Casing	[ ] Fracture Treat	[ ] Reclamation	[ ] Well Integrity
[ ] Final Abandonment Notice	[ ] Casing Repair	[ ] New Construction	[X] Recomplete	[ ] Other
	[ ] Change Plans	[ ] Plug and Abandon	[ ] Temporarily Abandon	
	[ ] Convert to Injection	[ ] Plug Back	[ ] Water Disposal	

Bone Spring

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the final site is ready for final inspection.)

EOG Resources proposes to recomplete this well as follows:

1. Drill 4-1/2" hole to +/- 8500'.
2. Run 2-7/8", 6.5#, L80 casing from TD to surface.
3. Cement 2-7/8" casing to 3700'.
4. Perforate the Bone Spring between TD and 7928' TVD.
5. Acidize and test. Place on production if productive.
6. If nonproductive, set a CBP + 35' cement cap and move up hole to perforate the Brushy Canyon between 7928 and 6390' TVD. See COAs
7. Acidize and test, place on production if productive.
8. If nonproductive, set CBP + 35' cement cap and move up hole to perforate the Cherry Canyon between 6390 and 5040' TVD. See COAs
9. Acidize and test. Place on production if productive.
10. If non productive, set a CBP + 35' cement cap and move up hole to perforate the Bell Canyon between 5040 and 4250' TVD.
11. Acidize and test, place on production if productive.

SUBJECT TO LIKE APPROVAL BY STATE

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Provide C102's Dade 6/25/13

Accepted for record NMOCD

14. I hereby certify that the foregoing is true and correct
Name *(Printed/Typed)* Stan Wagner
Title Regulatory Analyst
Signature Stan Wagner
Date 6/19/2013

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED
JUN 21 2013
BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

Approved by
Title
Date
Office

Conditions of approval, if any, are attached. Approval of this notice 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.

Title 18 U.S.C. Section 1001, and Title 43 U.S.C. Section 1212, makes 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.

EOG RESOURCES, INC.
R.T. WILSON FEDERAL NO. 4 R/E

1. GEOLOGIC NAME OF SURFACE FORMATION:
Permian

2. ESTIMATED TOPS OF IMPORTANT GEOLOGICAL MARKERS:

Cherry Canyon	5,075'
Brushy Canyon	6,485'
Bone Spring Lime	8,185'
TD	8,500'

3. ESTIMATED DEPTHS OF ANTICIPATED FRESH WATER, OIL OR GAS:

Cherry Canyon	5,075'	Oil
Brushy Canyon	6,485'	Oil
Bone Spring Lime	8,185'	Oil

No other Formations are expected to give up oil, gas or fresh water in measurable quantities.

4. CASING PROGRAM - NEW

Hole Size	Interval	Csg OD	Weight	Grade	Conn	DF_{min} Collapse	DF_{min} Burst	DF_{min} Tension
4.5"	0 - 8,500'	2.875"	6.50#	L80	EUE	1.125	1.25	1.60

Cementing Program:

Depth	No. Sacks	Wt. lb/gal	Yld Ft^3/ft	Slurry Description
8,500'	85	10.8	3.68	Lead: 60:40:0 Class 'C' + 15.00 lb/sk BA-90 + 4.00% MPA-5 + 3.00% SMS + 5.00% A-10 + 1.00% BA-10A + 0.80% ASA-301 + 2.90% R-21 + 8.00 lb/sk LCM-1 + 0.005 lb/sk Static Free (TOC @ 3,700')
	85	14.2	1.28	Tail: 50:50:2 Class 'H' + 0.65% FL-52 + 0.20% CD-32 + 0.15% SMS + 2.00% Salt + 0.10% R-3 + 0.005 lb/sk Static Free

Note: Cement volumes based on bit size plus at least 25% excess in the open hole plus 10% excess in the cased-hole overlap section.

5. MINIMUM SPECIFICATIONS FOR PRESSURE CONTROL:

The minimum blowout preventer equipment (BOPE) shown in Exhibit #1 will consist of a double ram-type (5,000 psi WP) preventer and an annular preventer (5000-psi WP). Both units will be hydraulically operated and the ram-type will be equipped with blind rams on bottom and drill pipe rams on top. All BOPE will be tested in accordance with Onshore Oil & Gas order No. 2.

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.

6. TYPES AND CHARACTERISTICS OF THE PROPOSED MUD SYSTEM:

The applicable depths and properties of the drilling fluid systems are as follows. Sufficient mud materials to maintain mud properties and meet minimum lost circulation and weight increase requirements will be kept on location at all times.

Depth	Type	Weight (ppg)	Viscosity	Water Loss
4,221' – 8,500'	Cut Brine Water	8.5-9.3	28-34	N/c

An electronic pit volume totalizer (PVT) will be utilized on the circulating system, to monitor pit volume, flow rate, pump pressure and stroke rate.

7. AUXILIARY WELL CONTROL AND MONITORING EQUIPMENT:

(A) A kelly cock will be kept in the drill string at all times.

(B) A full opening drill pipe-stabbing valve (inside BOP) with proper drill pipe connections will be on the rig floor at all times.

(C) H_2S monitoring and detection equipment will be utilized from surface casing point to TD.

8. LOGGING, TESTING AND CORING PROGRAM:

Open-hole logs are not planned for this well.

GR–CCL Will be run in cased hole during completions phase of operations, from TD to original TD.

9. ABNORMAL CONDITIONS, PRESSURES, TEMPERATURES AND POTENTIAL HAZARDS:

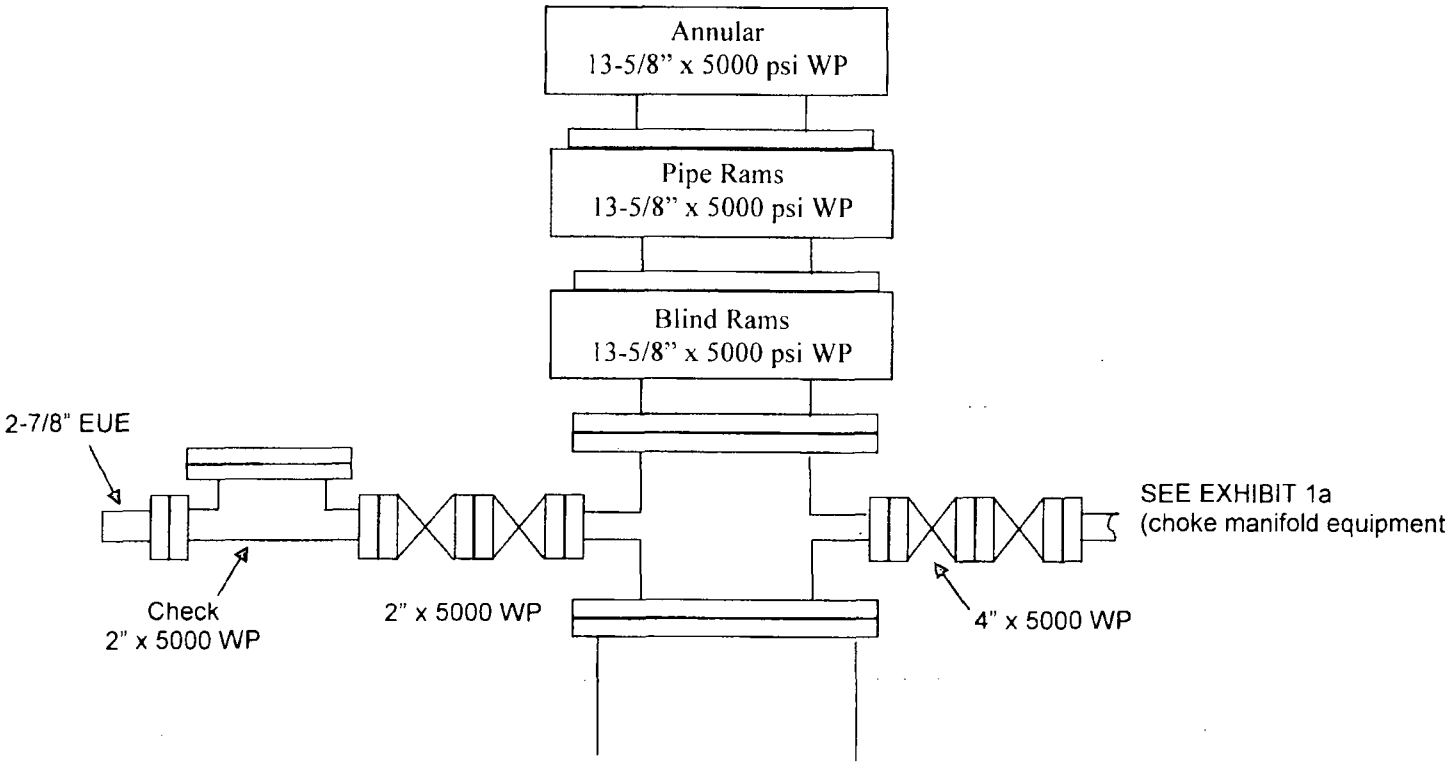
The estimated bottom-hole temperature (BHT) at TD is 146 degrees F with an estimated maximum bottom-hole pressure (BHP) at TD of 3680 psig. No hydrogen sulfide or other hazardous gases or fluids have been encountered, reported or are known to exist at this depth in this area. No major loss circulation zones have been reported in offsetting wells.

10. ANTICIPATED STARTING DATE AND DURATION OF OPERATIONS:

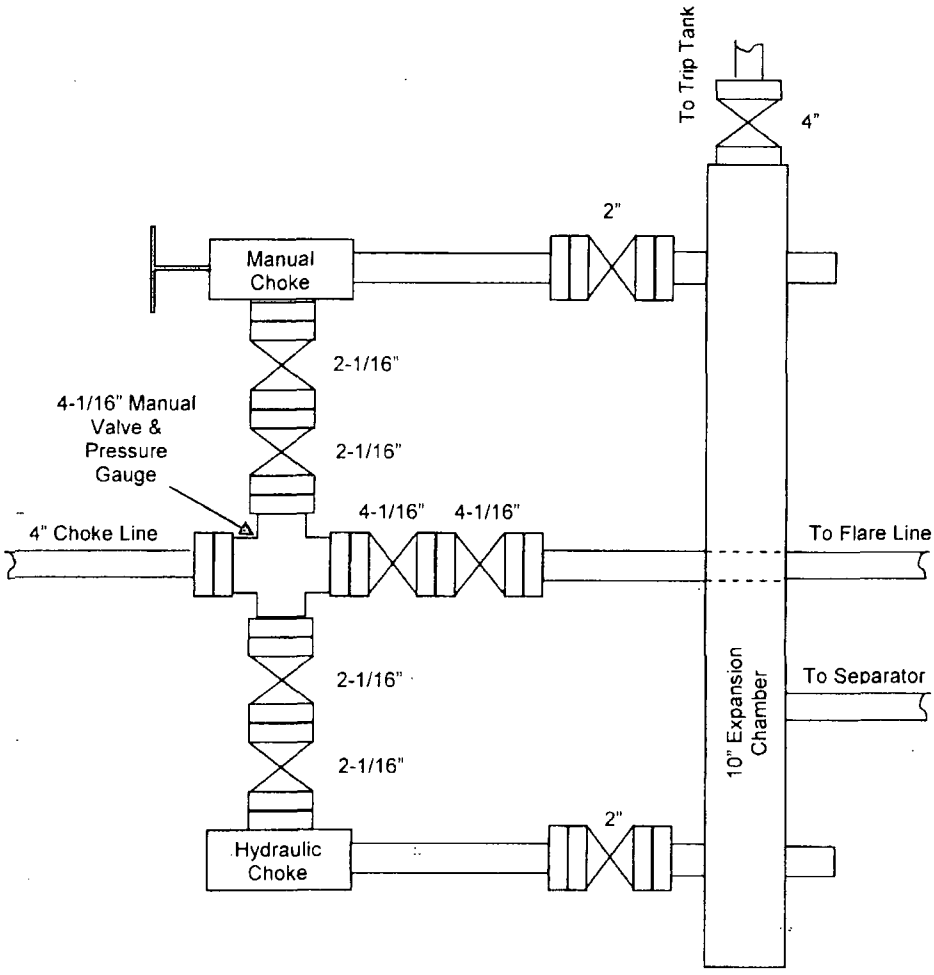
The drilling operation should be finished in approximately one month. If the well is productive, an additional 60-90 days will be required for completion and testing before a decision is made to install permanent facilities.

EXHIBIT 1

EOG Resources
5000 PSI BOPE



EXIBIT 1a
EOG Resources, Inc.
5M Choke Manifold Equipment



EOG RESOURCES, INC.
R.T. WILSON FEDERAL #4 RE

Hydrogen Sulfide Plan Summary

A. All personnel shall receive proper H2S training in accordance with Onshore Order III.C.3.a.

B. Briefing Area: two perpendicular areas will be designated by signs and readily accessible.

C. Required Emergency Equipment:

- ☒ Well control equipment
  a. Flare line 150' from wellhead to be ignited by flare gun.
  b. Choke manifold with a remotely operated choke.
  c. Mud/gas separator

- ☒ Protective equipment for essential personnel.

  Breathing apparatus:
  a. Rescue Packs (SCBA) — 1 unit shall be placed at each breathing area, 2 shall be stored in the safety trailer.
  b. Work/Escape packs —4 packs shall be stored on the rig floor with sufficient air hose not to restrict work activity.
  c. Emergency Escape Packs —4 packs shall be stored in the doghouse for emergency evacuation.

  Auxiliary Rescue Equipment:
  a. Stretcher
  b. Two OSHA full body harness
  c. 100 ft 5/8 inch OSHA approved rope
  d. 1-20# class ABC fire extinguisher

- ☒ H2S detection and monitoring equipment:
  The stationary detector with three sensors will be placed in the upper dog house if equipped, set to visually alarm @ 10 ppm and audible @ 14 ppm. Calibrate a minimum of every 30 days or as needed. The sensors will be placed in the following places: Rig floor / Bell nipple / End of flow line or where well bore fluid is being discharged.
  (Gas sample tubes will be stored in the safety trailer)

- ☒ Visual warning systems.
  a. One color code condition sign will be placed at the entrance to the site reflecting the possible conditions at the site.
  b. A colored condition flag will be on display, reflecting the current condition at the site at the time.
  c. Two wind socks will be placed in strategic locations, visible from all angles.

EOG RESOURCES, INC.
R.T. WILSON FEDERAL #4 RE

- Mud program:
  The mud program has been designed to minimize the volume of H2S circulated to surface. The operator will have the necessary mud products to minimize hazards while drilling in H2S bearing zones.

- Metallurgy:
  All drill strings, casings, tubing, wellhead, blowout preventer, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H2S service.

- Communication:
  Communication will be via cell phones and land lines where available.

EOG RESOURCES, INC.
R.T. WILSON FEDERAL #4 RE

Emergency Assistance Telephone List

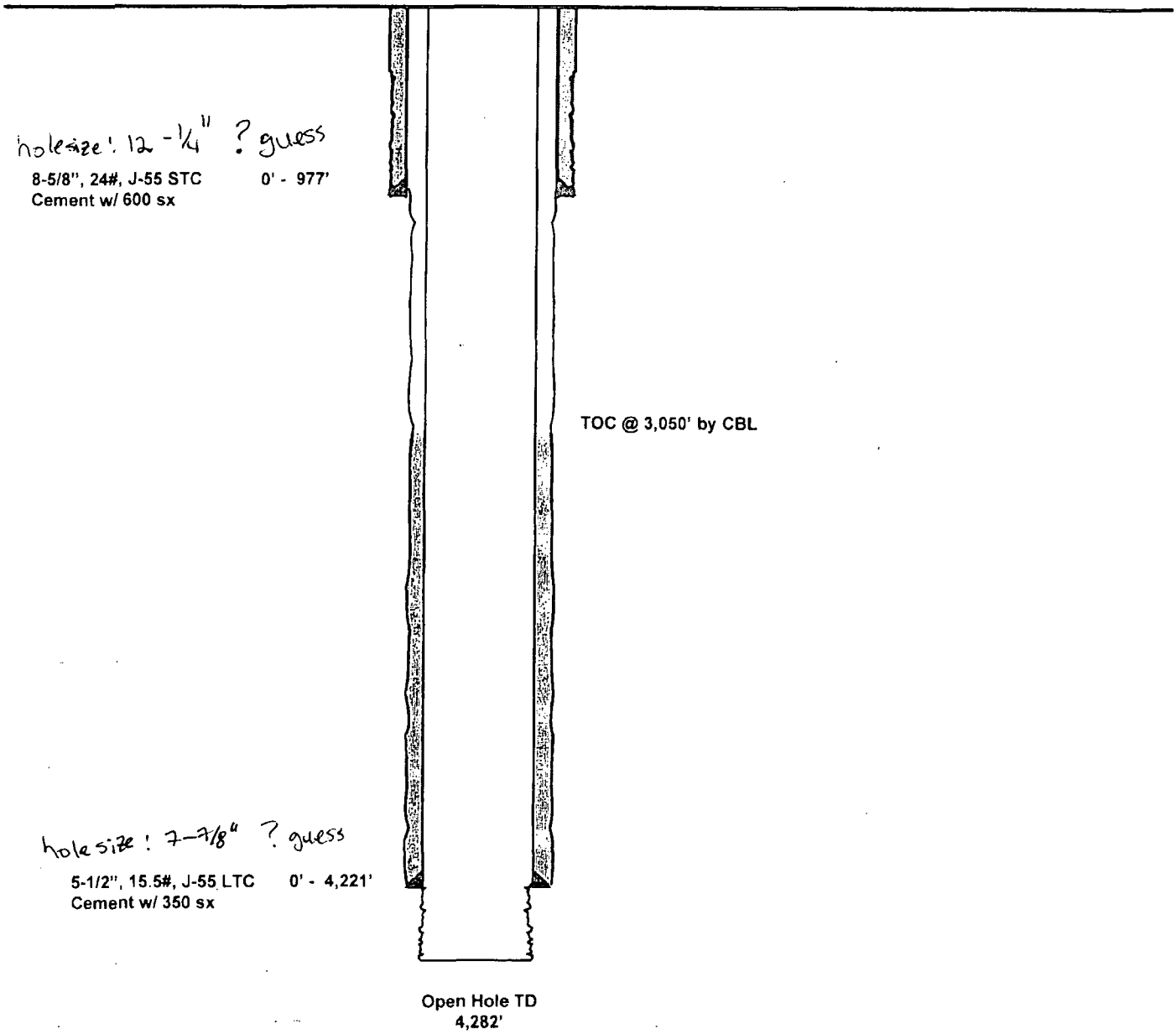
PUBLIC SAFETY:	**911 or**
Eddy County Sheriff's Department	(575) 887-7551
Kent Waller	
Fire Department:	
Carlsbad	(575) 885-3125
Artesia	(575) 746-5050
Hospitals:	
Carlsbad	(575) 887-4121
Artesia	(575) 748-3333
Hobbs	(575) 392-1979
Dept. of Public Safety/Carlsbad	(575) 748-9718
Highway Department	(575) 885-3281
New Mexico Oil Conservation	(575) 476-3440
U.S. Dept. of Labor	(575) 887-1174

EOG Resources, Inc.	
EOG / Midland	Office (432) 686-3600
Production Engineer	
Shane Brannan	Office (432) 686-3688
	Cell (432) 269-5030
Production Manager	
Howard Kemp	Office (432) 686-3604
	Cell (432) 634-1001
Operations Manager	
Travis Lain	Office (432) 686-3740
	Cell (432) 254-3521
Safety	
Reggie Phillips (HSE Manager)	Office (432) 686-3747
	Cell (303) 501-4587
Brian Chandler	Cell (806) 777-8814
Terry Maxwell (Consultant)	Cell (432) 349-6926

R.T. Wilson Federal #4
Eddy County, New Mexico
30-015-05867
Current Wellbore

660' FSL
1993' FEL
Section 24
T-26-S, R-31-E

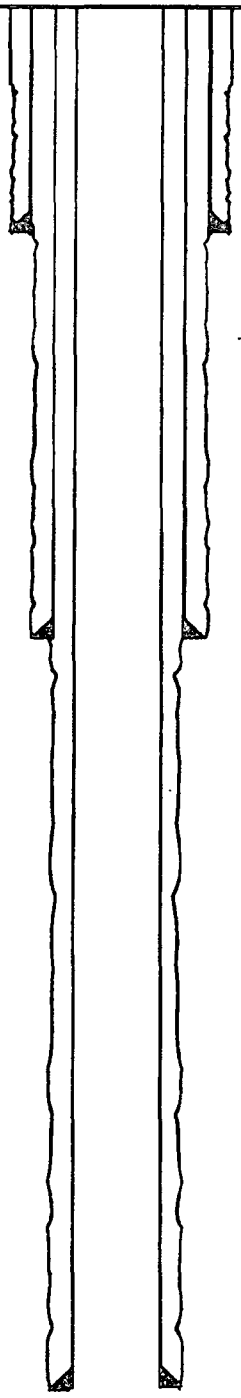
KB: 3,164'
GL: 3,152'



R.T. Wilson Federal #4
Eddy County, New Mexico
30-015-05867
Proposed Wellbore

660' FSL
1993' FEL
Section 24
T-26-S, R-31-E

KB: 3,164'
GL: 3,152'



8-5/8", 24#, J-55 STC 0' - 977'
Cement w/ 600 sx

TOC @ 3,050' by CBL

TOC @ 3,700'

5-1/2", 15.5#, J-55 LTC 0' - 4,221'
Cement w/ 350 sx

Bit Size: 4-1/2"

2-7/8" 6.50# L-80 EUE 0' – ~8,500'

8rd per
Stan Wagner
e-mail 6/20/13

PTD ~8,500'

R.T. Wilson 4
30-015-05867
EOG Resources Inc.
June 21, 2013
Conditions of Approval

Notify BLM at 575-361-2822 a minimum of 24 hours prior to commencing work.

Work to be completed within 180 days.

1. **Must conduct a casing integrity test to maximum treating pressure before any work can be done. Submit results to BLM. The CIT is to be performed on the 5-1/2 inch casing per Onshore Oil and Gas Order 2.III.B.1.h. Submit results to the BLM.**

2. **Additional cement on the 2-7/8 inch production casing will be needed as excess calculates to negative 30%. Provide method of verification for TOC to BLM.**

3. **Operator shall ONLY perforate the Bone Springs formation as proposed. If it is shown to be uneconomic, operator shall submit an NOI to properly plug and abandon the formation. Operator will have adequate time to submit an NOI.**

4. **Operator must submit a C-102 for the new formation.**

5. **Like approval by state.**

6. **If the operator wishes to produce from the Delaware an NOI must be submitted to for approval, a C-102 form for the Delaware formation, and a cement remediation plan must be submitted for the 5-1/2 inch casing.**

7. Before casing or a liner is added or replaced, prior BLM approval of the design is required. Use notice of intent Form 3160-5.

8. Surface disturbance beyond the originally approved pad must have prior approval.

9. Closed loop system required.

10. All waste (i.e. drilling fluids, trash, salts, chemicals, sewage, gray water, etc.) created as a result of work over operations shall be safely contained and disposed of properly at a waste disposal facility. No waste material or fluid shall be disposed of on the well location or surrounding area. Porto-johns and trash containers will be on-location during fracturing operations or any other crew-intensive operations.

11. Operator to have H2S monitoring equipment on location.

12. A minimum of a 5000 (5M) BOP to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (5M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.

13. **Subsequent sundry required detailing work done and completion report with new formations. Operator to include well bore schematic of current well condition when work is complete.**

JAM 062113