

NM OIL CONSERVATION
ARTESIA DISTRICT

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUN 06 2014

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS RECEIVED
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
NMLC029339A

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

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

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
JACKSON A 29

2. Name of Operator
BURNETT OIL CO. INC. Contact: LESLIE GARVIS
E-Mail: lgarvis@burnettoil.com

9. API Well No.
30-015-33489

3a. Address
BURNETT PLAZA - SUITE 1500 801 CHERRY STREET
FORT WORTH, TX 76102

3b. Phone No. (include area code)
PH 817-382-3000

10. Field and Pool, or Exploratory
CEDAR LAKE GLORIETA YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 13 T17S R30E 2150FSL 2310FEL

11. County or Parish, and State
EDDY COUNTY COUNTY, NM

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

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

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 site is ready for final inspection.)

Burnett is requesting permission to deepen the Jackson A 29 well in the Loco Hills Yeso field in Eddy County to the base of the Yeso near 6100? TVD using United Drilling Rig #5.

The well is currently 5435? deep with 7? 23# casing and is producing from the Paddock only. Prior to deepening the well, the 24 Paddock perms will be cement squeezed with 300 sx cmt. Based on Burnett's Blinebry completions offset to this well, it is anticipated to be a very economic re-entry with 2-3 slick water frac stages in the new hole. A 6 1/8? bit will be used for the new hole and 5.5? 15.5# J-55 Flush Joint casing will be run to TD and cemented with 155 sx cmt. We are requesting a variance in order to run 5.5", 15.50#, J55 casing with a FJM collar inside a 6 1/8" hole. A cement bond log will be run in the 5.5? casing prior to any Blinebry completions. A tieback sleeve will be set at approximately 4100?, which is 603? above the top perf in the Paddock. After production data is gathered from the Blinebry, the Paddock will be re-stimulated with a slick

Accepted for record
NMOCD 7/29/14
SEE ATTACHED FOR
CONDITIONS OF APPROVAL

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 06 2014

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #245462 verified by the BLM Well Information System
For BURNETT OIL CO. INC., sent to the Carlsbad
Committed to AFMSS for processing by JERRY BLAKLEY on 06/03/2014 ()

RECEIVED

Name (Printed/Typed) LESLIE GARVIS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 05/13/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

APPROVED

Approved By

Title

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.

Office

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.

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

Additional data for EC transaction #245462 that would not fit on the form

32. Additional remarks, continued

water frac.

Please also see the proposed well bore diagram for this well..



**DRILLING PLAN
Jackson A 29 Deepening**

**VERTICAL RE-ENTRY CEDAR LAKE GLORIETA YESO WELL
NOTE: ALL WELLS IN THIS DEEPENING PLAN HAVE 7" CASING SET AND CEMENTED
THROUGH THE PADDOCK (UPPER PART OF YESO).**

1. Geological Name of Surface Formation with Estimated Depth:

a. Formations behind casing:

	<u>Geological Name</u>	<u>Estimate Top</u>	<u>Anticipated Fresh Water, Oil or Gas</u>
a.	Alluvium	Surface	Fresh Water, Sand
b.	Anhydrite	279'	
c.	Salt	494'	
d.	Base Salt/Tansill	1243'	
e.	Yates	1423'	
f.	Seven Rivers	1718'	Oil
g.	Queen	2310'	Oil
h.	Grayburg	2705'	Oil
i.	San Andres	3025'	Oil
j.	Glorieta	4325'	Oil
k.	Yeso	4616'	Oil

b. Formations to be drilled: Basal Yeso (T/Tubb) . **Current TD: 5435'. Proposed new TD: 6100'**

We will isolate the oil zones by running 5.5" Flush Joint casing to total depth and circulating cement to top of liner at 4100'.

2. Liner Program: (ALL CASING WILL BE NEW API APPROVED MATERIAL.)

(MW = 10 PPG IN DESIGN FACTOR CALCULATIONS.)

a. Existing casing: 7" 23# J-55 from surface to 5435', cmt to surface.

b. Design Safety Factors:

<u>Type</u>	<u>Hole Size</u>	<u>Interval</u>	<u>OD Csg</u>	<u>Weight</u>	<u>Collar</u>	<u>Grade</u>	<u>Collapse Design Factor</u>	<u>Burst Design Factor</u>	<u>Tension Design Factor</u>
Liner	6 1/8"	5435' - TD	5.5"	15.50#	FJM	J55	*1.125	1.00	1.80

3. Cementing Program - 5.5" Production Liner

BLM to be notified prior to all cementing and tag operations in order to observe the operation if desired.

Cement: 155 sx 50/50 P/C+5%PF44(BWOW)(Salt)+2%PF20(BentoniteGel)+0.7% PF606(Fluid Loss)+0.2%PF65(Dispersant)+0.4#/skPF46(Defoamer) 25% excess Density 14.3ppg, 1.34CF/sk Yield 6.064 gal/sx water

The above cement volumes may be revised pending the caliper measurement from the open hole logs. **Casing/cementing design is to bring cement to 200' above top of liner.**

4. Pressure Control Equipment:

The blowout prevention equipment (BOPE) (shown in the attached diagram) will consist of a 2000# Double Ram with hydraulic closing equipment. The equipment will comply with Onshore Order #2 and will be tested to ~~50%~~ of rated working pressure (RWP), and maintained for at least ten (10) minutes. The 7" drilling head will be installed on the surface casing and in use continuously until total depth is reached. An independent testing company will be used for the testing. Other accessory BOP equipment will include a Kelly cock, floor safety valve, choke lines and choke manifold having 2000 PSI WP rating.

See
Call

5. Auxiliary Well Control and Monitoring Equipment:

- a. A Kelly cock will be in the drill string at all times.
- b. A full opening drill pipe stabbing valve with the appropriate connections on the rig floor at all times.
- c. Hydrogen Sulfide detection and breathing equipment will be installed and in operation at drilling depth of 5435' until 5.5" casing is cemented.
- d. An H2S compliance package will be on all sites while drilling.

6. Proposed Mud Circulation System

<u>Depth</u>	<u>Mud Wt</u>	<u>Visc</u>	<u>Fluid Loss</u>	<u>Type System</u>	<u>Max Volume</u>
5435' - TD' MD	10.0 max			Brine Water	

The necessary mud products for weight addition and fluid loss control will be on location at all times.

Pason equipment will be used to monitor the mud system.

7. Logging, Coring and Testing program:

- a. Any drill stem tests will be based on geological sample shows and planned before spudding.
- b. The open hole electrical logging program will be:
 - 1. Total depth to 5435' (7" csg shoe): Dual Laterolog-Micro Laterolog with Compensated Neutron, Spectral Density log with Spectral Gamma Ray and Caliper.

8. Potential Hazards:

*Self
C/A*
No abnormal pressures or temperatures are expected. All personnel will be familiar with the safe operation of the equipment being used to drill this well. The maximum anticipated bottom hole pressure is 2737#. This is based upon the following formula of $.445 \times \text{BH ft.}$ estimate. The anticipated bottom hole temperature is 105°F. This is based upon logs of drilled wells surrounding this well

There is known H2S in this area. In the event that it is necessary to follow the H2S plan, a remote choke will be installed as required in Onshore Order 6. Refer to the attached H2S plan for details.

9. Anticipated Start Date and Duration of Operation

Road and location construction will begin after BLM has approved the APD and has approved the start of the location work. Anticipated spud date will be as soon as the location building work has been completed and the drilling rig is available to move to the location. Move in and drilling is expected to take approximately 6 days. If production casing is run, an additional 60 days would be required to complete the well and install the necessary surface equipment (pumping unit, electricity, flowline and storage facility) to place the well on production.

Burnett Oil Company

FIELD: Cedar Lake Yeso WELL NAME: Jackson A 29 FORMATION: Yeso

UNIT: J SEC: 13 GL: 3738' STATUS: Oil Well
 TWSHP/RANGE: T17S R30E COUNTY: EDDY KB: 3749' API NO: 30-015-33489
 LOCATION: 2150' FSL 2310' FEL STATE: NM DF: _____ LAT: _____
 LONG: _____

Spud Date: 8/18/2004
 Completion: 9/22/2004

HISTORY:
 9/8/2004
 PerFd 4703', 4725', 4753', 4778', 4842', 4884', 4900',
 4909', 4963', 4970', 4997', 5004'
 24 Holes @ 2 SPF

9/9/2004
 Acidize w/2000 Gals 15% FE Acid

9/10/2004
 Frac w/48,000 gal gel water
 40,000 gal hot acid
 20 BPM

9/22/2008
 Frac w/ 13551 BBLS Slickwater
 10000# Mesh, 192202# 40/70 Sand

Current Production See Well Test
 EUR 247,000
 CUM 126,000

Well Test Dated 05/12/2013
 7, 4, 54

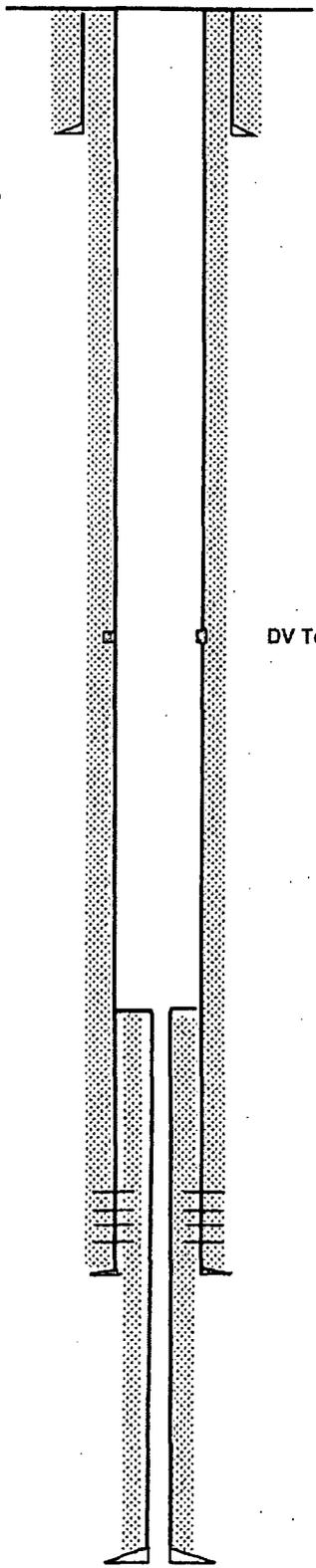
IP (Initial Completion) 09/26/2004
 292, 540, 140

Tie Back Sleeve @ 4,100'

PBTD @ 5347'

TD @ 5435'

TD @ 6100'



TOC at Surface

9 5/8" 32.30# H-40 @ 428'
 in 12 1/4" hole
 Cemented w/600 sx

7" 23# J-55 CSG at 5455'
 in 7 7/8" hole
 Cemented w/ 2400 sx
 TOC Surface

5.5" 15.5# J-55 FJM
 in 6 1/8" hole
 155 sx

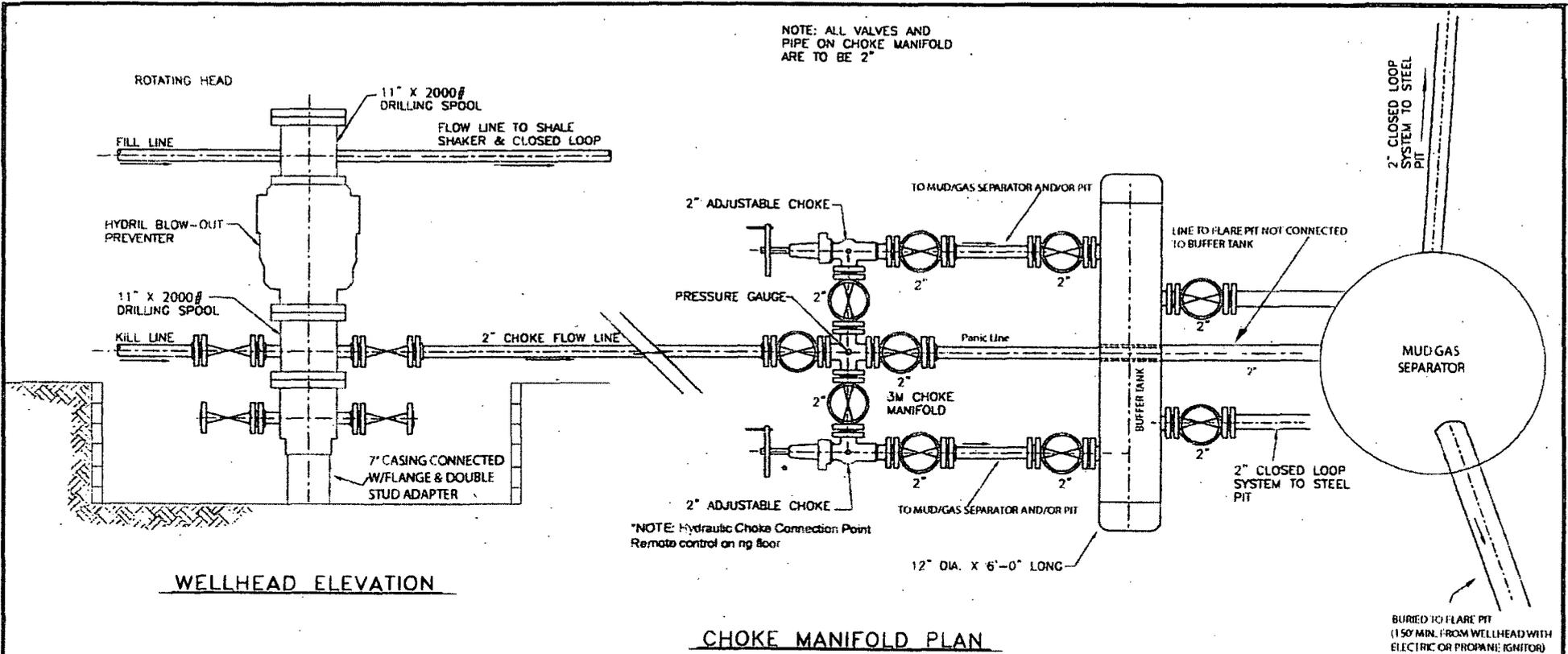
DV Tool at 2612'

Squeeze perms with 300 sx before deepening

12-3/4" per completion report.
5345'

Updated: 5/7/2014
 By: BAS

NOTE: ALL VALVES AND PIPE ON CHOKE MANIFOLD ARE TO BE 2"



WELLHEAD ELEVATION

CHOKE MANIFOLD PLAN

**BURNETT OIL COMPANY, INC.
 BLOWOUT PREVENTER &
 CHOKE MANIFOLD DIAGRAM
 2000 PSI WORKING PRESSURE**

EPS PROJECT NUMBER - 10-028
 DATE: JANUARY 29, 2010
 REVISION DATE: FEBRUARY 23, 2010
 REVISION DATE: MAY 9, 2011
 REVISION DATE (LG): AUGUST 28, 2013
 REVISION DATE (LG): SEPTEMBER 30, 2013

BURIED TO FLARE PIT
 (150' MIN.) FROM WELLHEAD WITH
 ELECTRIC OR PROPANE IGNITOR

Jackson A 29
30-015-33489
Burnet Oil Co.
June 03, 2014
Conditions of Approval

1. Work to be complete within 180 days.
2. Surface disturbance beyond the existing pad requires prior approval.
3. Closed loop system to be used.
4. H2S monitoring equipment should be onsite for personnel protection from surrounding oil operations. Operator should not encounter H2S while deepening.
5. BOP to be tested to **2000 psi** based on BHP expected.
6. Variance for stand-off of less than 0.422" is approved due to NMOCD classifying the formations in this area as the Yeso group.
7. Cement on liner shall tie back to liner top, if this is not achieved contact appropriate BLM office. When plugged, cement plug will be required across this tie back and across squeezed perforations.
8. Test casing as per Onshore Order 2.III.B.1.h.
9. Subsequent sundry detailing work and current well test data are to be submitted when work is complete.

JAM 060314