

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

OCD Artesia

FORM APPROVED
OMB NO. 1004-0135
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.

5. Lease Serial No.

NMCCO55264

6. If Indian, Allottee or Tribe Name.

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well

☒ Oil Well ☐ Gas Well ☐ Other8. Well Name and No.
JACKSON B 452. Name of Operator
BURNETT OIL CO., INC.Contact: LESLIE M GARVIS
E-Mail: lgarvis@burnettoil.com9. API Well No.
30-015-353983a. Address
BURNETT PLAZA - SUITE 1500 801 CHERRY STREET
FORT WORTH, TX 761023b. Phone No. (include area code)
PH 817-382-5081 FAX 817-382-610210. Field and Pool, or Exploratory
CEDAR LAKE GLORIETA YESO

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 24 T17S R30E 1750FNL 330FEL

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 recomplate 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 B 45 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 5525? deep with 7? 23# casing and is producing from the Paddock and upper Blinbry. Prior to deepening the well, the 34 Paddock perms and 6 Blinbry perms will be cement squeezed with 600 sx cmt. Based on Burnett's Blinbry completions offset to this well, it is anticipated to be a very economic re-entry with 1-2 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 150 sx cmt. A cement bond log will be run in the 5.5? casing prior to any Blinbry completions. 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 tieback sleeve will be set at approximately 4100?, which is 626? above the top perf in the Paddock. After production data is gathered from the Blinbry, the Paddock will be re-stimulated with a slick water frac.

SEE ATTACHED FOR
CONDITIONS OF APPROVAL

Accepted for record
NMOCD 705
42204

RECEIVED

APR 02 2014

NMOCD ARTESIA

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

Electronic Submission #238734 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 03/25/2014 ()

Name (Printed/Typed) LESLIE M GARVIS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 03/13/2014

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

BUREAU OF LAND MANAGEMENT

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.

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

Additional data for EC transaction #238734 that would not fit on the form

32. Additional remarks, continued

Please also see the proposed drilling plan, well bore diagram and BOP for this well.



DRILLING PLAN
Jackson B 45 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	254'	
c. Salt	507'	
d. Base Salt/Tansill	1231'	
e. Yates	1422'	
f. Seven Rivers	1927'	Oil
g. Queen	2337'	Oil
h. Grayburg	2708'	Oil
i. San Andres	3035'	Oil
j. Glorieta	4370'	Oil
k. Yeso	4688'	Oil

b. Formations to be drilled: Basal Yeso (T/Tubb) . Current TD: 5528'. 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 5528', 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"	5528' - TD	5.5"	15.50#	FJM	J55	*1.125	1.00	1.80

tieback 4100' - TD

DRILLING PLAN
VERTICAL CEDAR LAKE GLORIETA YESO WELL

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(Bentonite Gel)+0.7%PF606(Fluid Loss)+0.2%PF65(Dispersant)+0.4#/skPF46(Defoamer) 25% excess
Density 14.3ppg 1.34sx/CF 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:

Self COA
The blowout prevention equipment (BOPE) shown in **Exhibit H** will consist of a 2000 PSI Hydril Unit (annular) 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.

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 5528' 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>
5528' - 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 5528' (7" csg shoe): Dual Laterolog-Micro Laterolog with Compensated Neutron, Spectral Density log with Spectral Gamma Ray and Caliper.

**DRILLING PLAN
VERTICAL CEDAR LAKE GLORIETA YESO WELL**

8. Potential Hazards:

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 2715#. This is based upon the following formula of .445 x 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

Proposed in Red

FIELD:	<u>Loco Hills Yeso</u>	WELL NAME:	<u>Jackson B 45</u>	FORMATION:	<u>Yeso</u>
Unit:	<u>H</u>	SEC:	<u>24</u>	GL:	<u>3722'</u>
SURVEY:	<u>T17S R30E</u>	COUNTY:	<u>Eddy</u>	KB:	<u>13'</u>
LOCATION:	<u>1750' FNL 330' FEL</u>	STATE:	<u>NM</u>	DF:	<u></u>
				LAT:	<u></u>
				LONG:	<u></u>

Spud Date: 5/31/2007
Completion: 7/28/2007

IP (Initial Completion) 08/09/2007
79, 426, 79

Current Production See Well Test
EUR 85,000
CUM 32,000

Well Test Dated 1/8/2013
11, 166, 12

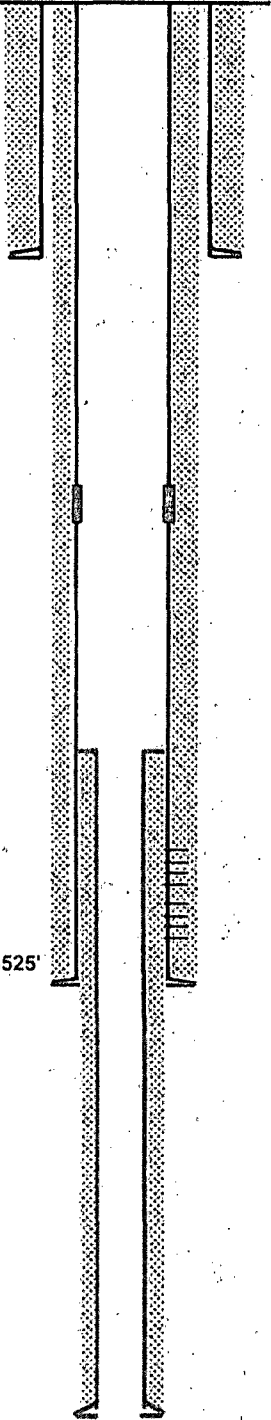
Liner Top/Tie Back Sleeve @ 4,100'

Squeeze perms with 300 sx before deepening

7" shoe at 5525'

Current TD: 5528'

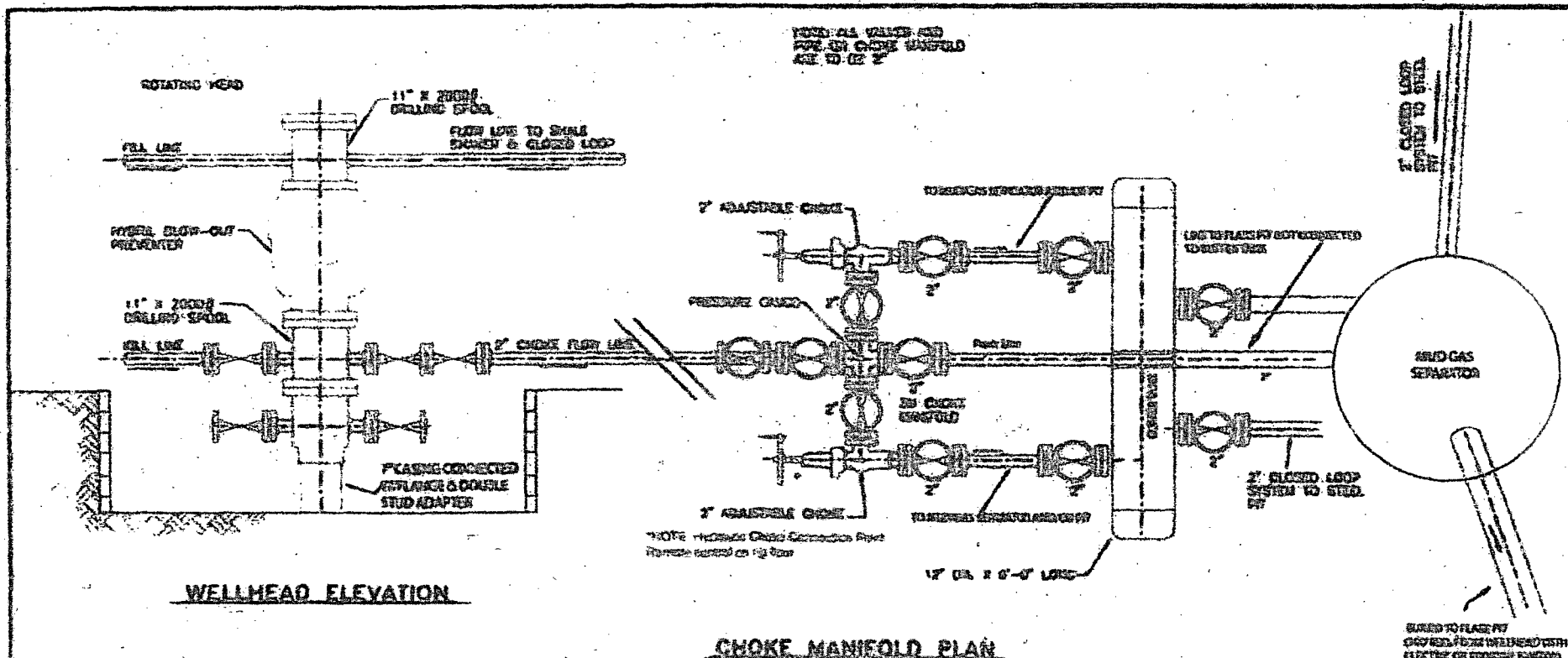
TD @ 6100'



TOC at Surface
9 5/8" 32.30# H-40 @ 415'
in 12 1/4" hole
Cemented w/ 850 sx
7" 23# K-55 CSG at 5525'
in 8 3/4" hole
Cemented w/ 2200 sx
TOC at surface.
5.5" 15.5# J-55 FJM
in 6 1/8" hole
150 sx

DV Tool at 2611'
6/27/2007
Perf'd 5356', 5358', 5360'
3 Sections @ 2 SPF
6/28/2007
Acidize w/2000 Gals 15% NEFE Acid
12 Ball Sealers
7/9/2007
Frac w/ 3365 Gals Water Frac G-R13
6814 Gals Silverstim LT R13
10,984 Gals Silverstim LT R13
W/ 32500# Brown 20/40 Sand
7/19/2007
CIBP @5300' w/ 10' cmt on top
Perf'd 4726', 4758', 4762', 4818', 4823', 4880', 4883',
4905', 4908', 4926', 4936', 4940', 4948', 4962', 4980',
4990', 4996'
17 intervals w/ 34 holes @2SPF
7/20/2007
Acid Ballout 3000 gal 15% NEFE
7/21/2007
Frac w/hot acid 37000 gal 15% HCL
70000 gal water
41 BPM

Updated: 2/12/2014
By: BAS



BURNETT OIL COMPANY, INC.
BLOWOUT PREVENTER &
CHOKES 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: JULY 22, 2011
 REVISION DATE: SEPTEMBER 10, 2012

Jackson B 45
30-015-35398
Burnet Oil Co.
March 28, 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. **In the case where the only BOP installed is an annular preventer, it shall be tested to a minimum of 2000 psi (which may require upgrading to 3M or 5M annular).**
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 032814