

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

OGD 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.  
NMLC055958

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.  
STEVENS B 4

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

9. API Well No.  
30-015-34847-00-S1

3a. Address  
801 CHERRY STREET UNIT 9  
FORT WORTH, TX 76102-6881

3b. Phone No. (include area code)  
Ph: 817-332-5108 Ext: 6326

10. Field and Pool, or Exploratory  
CEDAR LAKE

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

Sec 13 T17S R30E NENW 990FNL 2310FWL

11. County or Parish, and State

EDDY 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 recompleat 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 recompleat 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 requests permission to deepen the Stevens B 4 well in the Loco Hills Yeso field in Eddy County to the base of the Yeso near 6150? TVD using United Drilling Rig #5.

The well is currently 5200? deep with 7? 23# casing and is producing from the Paddock only. Prior to deepening the well, the 30 Paddock perms will be cement squeezed with 300 sx cmt. Based on Burnett's Blinbery 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 Blinbery completions. A tieback sleeve will be set at approximately 4100?, which is 502? above the top perf in the Paddock. After production data is gathered from the Blinbery, the Paddock will be re-stimulated with a slick

Accepted for record  
NMOC D TOS  
5-14-14

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

RECEIVED  
MAY 12 2014  
NMOC D ARTESIA

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

Electronic Submission #240380 verified by the BLM Well Information System  
For BURNETT OIL COMPANY INC, sent to the Carlsbad  
Committed to AFMSS for processing by JAMES AMOS on 04/08/2014 (14JA0979SE)

Name (Printed/Typed) LESLIE M GARVIS

Title REGULATORY COORDINATOR

Signature (Electronic Submission)

Date 03/28/2014

APPROVED

**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

MAY 5 2014  
BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD 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.

**Additional data for EC transaction #240380 that would not fit on the form**

**32. Additional remarks, continued**

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

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



**DRILLING PLAN  
Stevens B 4 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	297'	
c.	Salt	474'	
d.	Base Salt/Tansill	1246'	
e.	Yates	1417'	
f.	Seven Rivers	1682'	Oil
g.	Queen	2317'	Oil
h.	Grayburg	2290'	Oil
i.	San Andres	2290'	Oil
j.	Glorieta	4561'	Oil
k.	Yeso	4599'	Oil

b. Formations to be drilled: Basal Yeso (T/Tubb) . **Current TD: 5195'. Proposed new TD: 6150'**

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 5195', cmt to surface.

b. Design Safety Factors:

<u>Type</u>	<u>Hole Size</u>	<u>Interval</u>	<u>OD Csq</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"	5195' - TD <i>6150'</i>	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) 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 3000 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 5195' 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>
5195' - 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 5195' (7" csg shoe): Dual Laterolog-Micro Laterolog with Compensated Neutron, Spectral Density log with Spectral Gamma Ray and Caliper.

**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 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**

Proposed in Red

FIELD: CEDAR LAKE YESO WELL NAME: Stevens B 4 FORMATION: Yeso

UNIT: C SEC: 13 GL: 3736' STATUS: Oil Well  
 TOWNSHIP/RANGE: T17S R30E COUNTY: EDDY KB: 3750' API NO: 30-015-34847  
 LOCATION: 990' FNL 2310' FWL STATE: NM DF: \_\_\_\_\_ LAT: \_\_\_\_\_  
 LONG: \_\_\_\_\_

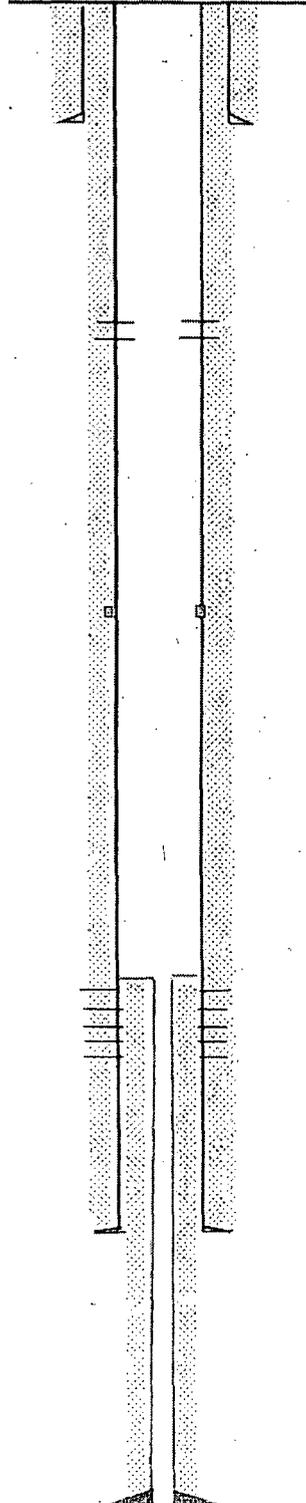
Spud Date: 6/10/2006  
 Completion: 7/14/2006

IP (Initial Completion) 07/21/2006  
 177, 569, 205

Tie Back Sleeve @ 4,100'

PBTD @ 5156'  
 TD @ 5200'

TD @ 6150'



9 5/8" Surf Csg @ 417'  
 in 14 3/4" Hole  
 Cemented w/1141 Sx TOC @ Surface

7" Production Csg @ 5195'  
 in 8 3/4" Hole  
 Cemented w/ 2670 sx TOC @ Surf (est)

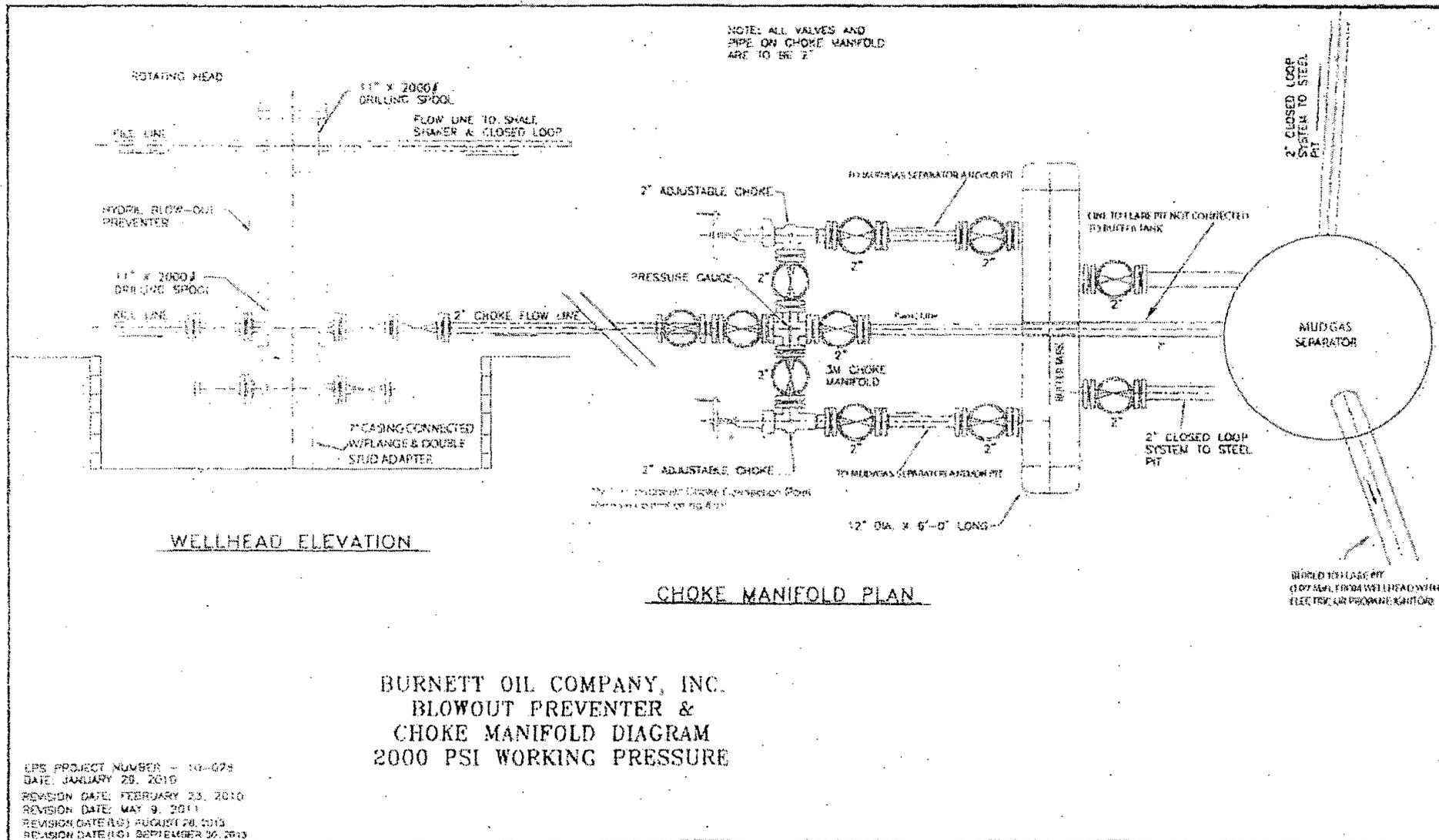
DVT @ 2611'  
 Drilled out 07/06/06

07/07/2006:  
 Perf 15 Intervals, 2 SPF @ 4602', 4651', 4678',  
 4718', 4722', 4751', 4754', 4779', 4790', 4810', 4817',  
 4878', 4889', 4899', 4824'  
 Acidize w/ 1500 Gals 15% Acid

07/09/2006:  
 Frac w/ 48599 Gal Water Gel Heated,  
 33366 Gal 20% Acid Heated  
 12651 Gal Freshwater & 24 Ballsealers  
 4101 Gals 15% Acid cold,  
 and 8007 Gal Freshwater Flush

05/09/08:  
 Frac w/ 655,506 Bbls FW  
 10,000# 100 MESH Sand  
 200,500# 30/70 Sand  
 83 BPM

Updated: 3/24/2014  
 By: BAS



**Stevens B 4**  
**30-015-34847**  
**Burnet Oil Co.**  
**May 05, 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 050514**