

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT **OCD-ARTESIA**

FORM APPROVED  
Budget Bureau No. 1004-0137  
Expires: March 31, 2007

5. Lease Serial No.  
NMNM 0107697

6. If Indian, Allottee or Tribe Name

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

8. Well Name and No.  
Jones Federal "B" No. 3

9. API Well No.  
30-015-10394

10. Field and Pool, or Exploratory Area  
Lusk

11. County or Parish, State  
Eddy County, NM

**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 reverse side.**

1. Type of Well  
☒ Oil Well ☐ Gas Well ☐ Other

RECEIVED

OCT 28 2009

2. Name of Operator  
Lynx Petroleum Consultants, Inc.

NMOCD ARTESIA

3a. Address  
P.O. Box 1708, Hobbs, NM 88241

3b. Phone No. (include area code)  
505-392-6950

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)  
At surface: 660' FSL & 660' FWL Section 23, T19S, R31E  
At proposed prod. Zone: 460' FSL & 660' FWL Section 23, T19S, R31E

**12. CHECK APPROPRIATE BOX(S) 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 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 checked="" type="checkbox"/> Recomplete -Sidetrack	<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.)

MIRU pulling unit. NU 10" hydraulic BOP. PU 7 7/8" bit, 6- 4 1/4" DC's and 3 1/2" tbg. TIH to CIBP @ 2340'. RU reverse unit and drill up CIBP. TIH to 3906'. Drill just enough (5-10') to establish cement returns. TOOH. PU 8 5/8" tension pkr. TIH and set pkr. @ 2420'. Load tbg. and test 8 5/8" csg. 2420-3916' to 1500 psig. Max allowable press drop is 100 psi. Pressure up on tbg. side to establish injection rate for perforation squeeze. After established injection rate, release tension pkr. and TOOH.

**THE FOLLOWING ASSUMES THAT CASING ABOVE AND BELOW PERFS HAS TESTED O.K.**

PU 8 5/8" cement retainer and TIH. Set retainer @ 2275'. Establish injection rate. Squeeze perfs 2370-2412'. Note: Volume to be determined After injection rate is established. WOC at least 24 hrs. RU reverse unit and drill out cement retainer and squeeze. Test 8 5/8" csg. to 1500 psi for 30 min. Max allowable press drop is 100 psi. Continue in hole w/7 7/8" bit to cement plug at 3916'. Drill out plug. Continue in hole to tag cement plug at 6885'. Circulate hole clean w/8.8 ppg cut brine. TOOH. LD drilling assembly. TIH w/tbg. OE. Spot sidetrack cement plug from PBTD to 6700'. Pull tbg. to 3900'. Spot 25 sxs open hole isolation plug 3900-3800'. POOH. LD. ND BOP and RD pulling unit. See attachment and Drilling Program attachments for sidetrack.

14. I hereby certify that the foregoing is true and correct  
Name (Printed/Typed)

Debbie McKelvey

Title Agent

Signature

Debbie McKelvey

Date

9/22/09

**THIS SPACE FOR FEDERAL OR STATE OFFICE USE**

Approved by

SEE ATTACHED FOR  
CONDITIONS OF APPROVAL

Title

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, make it a crime for any person knowingly and willfully to make to any department or agency of the United States and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

APPROVED

OCT 26 2009

/s/ Myles Kristof

BUREAU OF LAND MANAGEMENT  
CARLSBAD FIELD OFFICE

JONES FEDERAL B NO. 3

30-015-10394

Sidetrack

MIRU drilling rig to sidetrack. TIH to 6700'. Commence to redrill bottom hole to new TD 10,750'. Projected bottom-hole location will be approximately 460' FSL & 660' FWL. Run logs. Set 5 1/2" csg. Cement with sufficient quantity to tie back to 8 5/8".

Commence completion operations.

NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT

FORM C-12B  
Revised 5/1/57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

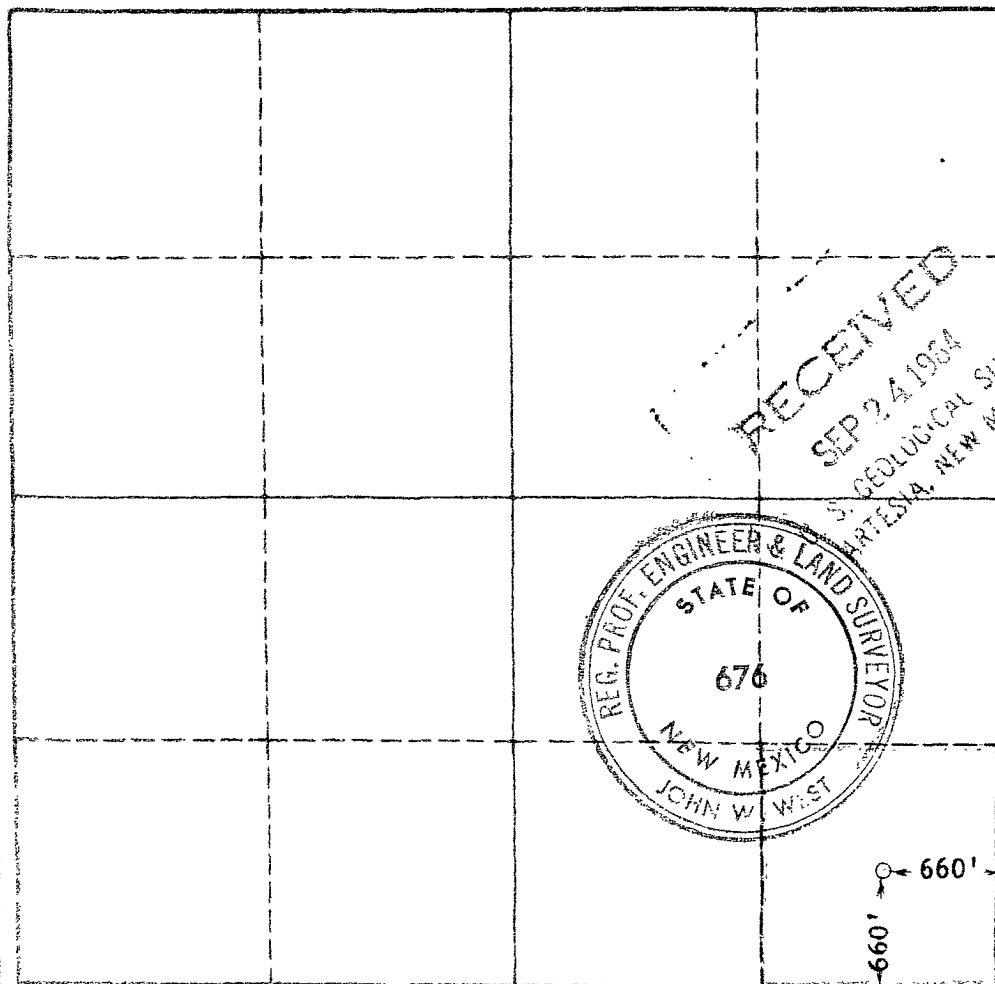
SECTION A

Operator TENNECO OIL COMPANY		Lease JONES FEDERAL "B"		Well No. 3
Unit Letter P	Section 23	Township 19 SOUTH	Range 31 EAST	County EDDY
Actual Footage Location of Well: 660 feet from the SOUTH line and 660 feet from the EAST line				
Ground Level Elev. 3540 Est	Producing Formation Strawn	Pool Undesignated	Dedicated Acreage: 40 Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO \_\_\_\_ ("Owner" means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another. (65-3-29 (e) NMSA 1935 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES \_\_\_\_ NO \_\_\_\_ If answer is "yes," Type of Consolidation \_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below.

Owner	Land Description

SECTION B



CERTIFICATION

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name <i>A. W. Lang</i>
Position A. W. Lang
Dist. Prod. Superintendent Company Tenneco Oil Company
Date 9-21-64

I hereby certify that the well location shown on the plat in SECTION B 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 knowledge and belief.

Date Surveyed SEPT. 17, 1964
Registered Professional Engineer and/or Land Surveyor, JOHN W. WEST
<i>John W. West</i>
Certificate No. N. M. - P. E. & L. S. NO. 676



STATEMENT ACCEPTING RESPONSIBILITY FOR OPERATIONS

Application for Permit to Drill  
Jones Federal 'B' No. 3  
660' FSL & 660' FEL  
Section 23, T-19S, R-31E  
Eddy County, New Mexico

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning operations conducted on the leased land or portion thereof, as described below:

Lease No. : NMNM 0107697

Location Legal Description: SE/4 SE/4 Section 23, T-19S, R-31E  
Eddy County, New Mexico

Proration Unit: SE/4 SE/4 Section 23, T-19S, R-31E  
Eddy County, New Mexico

Formation : Surface to base of Wolfcamp

Bond Coverage : \$25,000 Statewide

BLM Bond File No. : NM-1694 (BO2099)

Operator : LYNX PETROLEUM CONSULTANTS, INC.

Authorized Signature : 

Title : President

Date : 7/1/09

**Jones Federal 'B' No. 3  
Prep for Re-Drill**

API No.: 30-015-10394

Location: 660' FSL & 660' FEL Section 23, T-19S, R-31E  
Eddy County, New Mexico

Elevation: 3517' GL KB: +15'

TD: 11,508' PBTD: 2340'

**Casing & Cement:**

602' 13-3/8", 48#/ft., H-40, ST&C cemented w/650 sx. circulated  
3949' 8-5/8", 32#/ft., J-55, ST&C cemented w/1600 sx. TOC @ 350' by TS  
11,560' 4-1/2", 11.6#/ft., J-55 & N-80, LT&C cemented w/220 sx. TOC @  
10,025' by TS. Cut and recovered from 7000'.

**Tubing:**

None

**Perforations:**

Yates from 2370-2412'

**Plugs:**

CIBP @ 2340'  
100 sx. 3906-4000' Tagged  
45 sx. 6885-7050' Tagged

**PROCEDURE:**

1. MIRU pulling unit. NU 10" hydraulic BOP.
2. PU 7-7/8" bit, 6-4 1/4" DC's, and 3-1/2" tbg. TIH to CIBP @ 2340'.
3. RU reverse unit and drill up CIBP. TIH to 3906'. Drill just enough (5-10') to establish cement returns. TOOH.
4. PU 8-5/8" tension packer. TIH and set packer @ 2420'. Load tubing and test 8-5/8" casing 2420-3916' to 1500 psig. MAXIMUM ALLOWABLE PRESSURE DROP IS 100 PSI.
5. Pull up and reset 8-5/8" tension packer at 2275'. Open bypass and circulate 8-5/8" casing with 150 bbls 2% KCL TFW. Close bypass and pressure test 8-5/8" casing to 1500 psi for 30 minutes. MAXIMUM ALLOWABLE PRESSURE DROP IS 100 PSI.
6. Pressure up on tubing side to establish injection rate for perforation squeeze. After established injection rate, release tension packer and TOOH.

THE FOLLOWING ASSUMES THAT CASING ABOVE AND BELOW PERFS HAS TESTED O.K.

7. PU 8-5/8" cement retainer and TIH. Set retainer @ 2275'.
8. Establish injection rate. Squeeze perforations 2370-2412'. Note: Volume to be determined after injection rate is established. WOC at least 24 hours.

Jones Federal 'B' No. 3

Prep to Re-Drill

Page 2 of 2

9. RU reverse unit and drill out cement retainer and squeeze. Test 8-5/8" casing to 1500 psi for 30 minutes. MAXIMUM ALLOWABLE PRESSURE DROP IS 100 PSI.
10. Continue in hole w/7-7/8" bit to cement plug at 3916'. Drill out plug. Continue in hole to tag cement plug at 6885'. Circulate hole clean w/8.8 ppg cut brine.
11. TOOH. LD drilling assembly. TIH w/tubing OE.
12. Spot sidetrack cement plug from PBTD to 6700'. Pull tubing to 3900'. Spot 25 sx. open hole isolation plug 3900-3800'.
13. POOH. LD everything. ND BOP and RD pulling unit.
14. MIRU drilling rig to sidetrack.

Prepared By: Harry R. Scott

Date: 8-21-89

## DRILLING PROGRAM

Lynx Petroleum Consultants, Inc.  
Jones Feddeal 'B' No. 3  
660' FSL & 660' FEL  
Section 23, T-19S, R-31E  
Eddy County, NM

The following items supplement Form 3160-3 in accordance with instructions contained in Onshore Oil and Gas Orders #1 and #2, and all other applicable federal and state regulations.

1. SURFACE FORMATION : Sandy Soil of Quaternary Age
2. ESTIMATED TOPS OF GEOLOGICAL MARKERS :

Rustler	-	690'
Yates	-	2270'
Delaware	-	4390'
Bone Spring	-	7090'
Bone Spring 1 <sup>st</sup> Sd	-	8360'
Bone Spring 2 <sup>nd</sup> Sd	-	9680'
Bone Spring 3 <sup>rd</sup> Sd	-	9880'
Wolfcamp	-	10,320'
Total Depth	-	10,750'

3. ESTIMATED DEPTHS TO WATER, OIL OR GAS FORMATIONS :

Fresh Water	-	None in measurable quantity
Oil, Gas, & Water	-	Delaware, Bone Springs, Wolfcamp

\* Productive horizons to be protected by 5 1/2" casing and cement.

4. PROPOSED CASING PROGRAM :

Hole	Csg.	Depth	Weight	Grade	Cplg.
17-1/2"	13-3/8"	0'-602'	48#	H-40	ST&C
11"	8-5/8"	0'-3949'	32#	J-55	ST&C
7-7/8"	5-1/2"	0'-10750'	17.0#	N-80	LT&C New pipe

Note: 13-3/8" and 8-5/8" casing are already in place. See wellbore schematic attached.

5-1/2" Safety Factors

Burst	Collapse	Joint	Yield
1.53	1.25	2.19	2.50



DRILLING PROGRAM  
Jones Federal 'B' No. 3

5. PROPOSED CEMENT PROGRAM :

5 1/2" Production - First stage 600 sxs Class "C" Poz @ 1.97 cuft./sx. followed by 500 sxs Class "C" @ 1.32 cuft./sx. TOC @ 3800' w/ 50% excess.

6. PRESSURE CONTROL EQUIPMENT : The blowout preventer stack for the production hole will consist of at least a double-ram blowout preventer and an annular preventer rated to 5000 psi working pressure. A sketch of the B.O.P.'s and Choke Manifold is attached.

7. CIRCULATING MEDIUMS : Cut brine mud system 8.8 – 9.3 ppg with 29 viscosity will be used 3949 – 10,750'.

8. AUXILIARY EQUIPMENT : Full opening Kelly cock valve to fit the drill string in use, will be kept on the rig floor at all times.

9. TESTING, LOGGING, AND CORING PROGRAM :

Samples	- 7000-10,750'
D.S.T.'s	- No D.S.T.'s are planned
Logging	- Gamma Ray – CNL – FDC – DLL
Coring	- No coring is planned

10. ABNORMAL PRESSURES AND TEMPERATURES : None anticipated. Maximum bottom-hole pressure expected is 4500 psig. Maximum bottom-hole temperature will be 66 deg.C.

11. ANTICIPATED STARTING DATE : Drilling will commence about September 15, 2009. Drilling should be complete within 20 days. Completion operations (perforations and stimulation) will follow drilling operations.

Wellbore Diagram reconstructed from Dadco records.

Date: 1/7/2008

Elevation: 3531' DF

17-1/2" Hole

602' - 13 3/8", H-40, 48# Casing  
Cemented w/650 sxs. Circulated to Surf.

11" Hole

CIBP @ 2340'

Perfs: 2370'-2412' Overall

3949' - 8 5/8", J-55, 32# Casing.  
Cemented w/1600 sxs. TOC @ 350'  
by Temp Survey

Cement Plug: 100 sxs. 3906'-4000' (Tagged)

7-7/8" Hole

Cement Plug: 45 sxs. 6885'-7050' (Tagged)  
4-1/2" Casing Cut & Pulled from 7000'

TOC @ 10025' by Temp Survey

C.I.B.P. @ 10550' w/35' Cement on Top

C.I.B.P. @ 11400' w/50' Cement on Top

Perfs 11421-29', 11438-42', 11446-56', 11465-67'

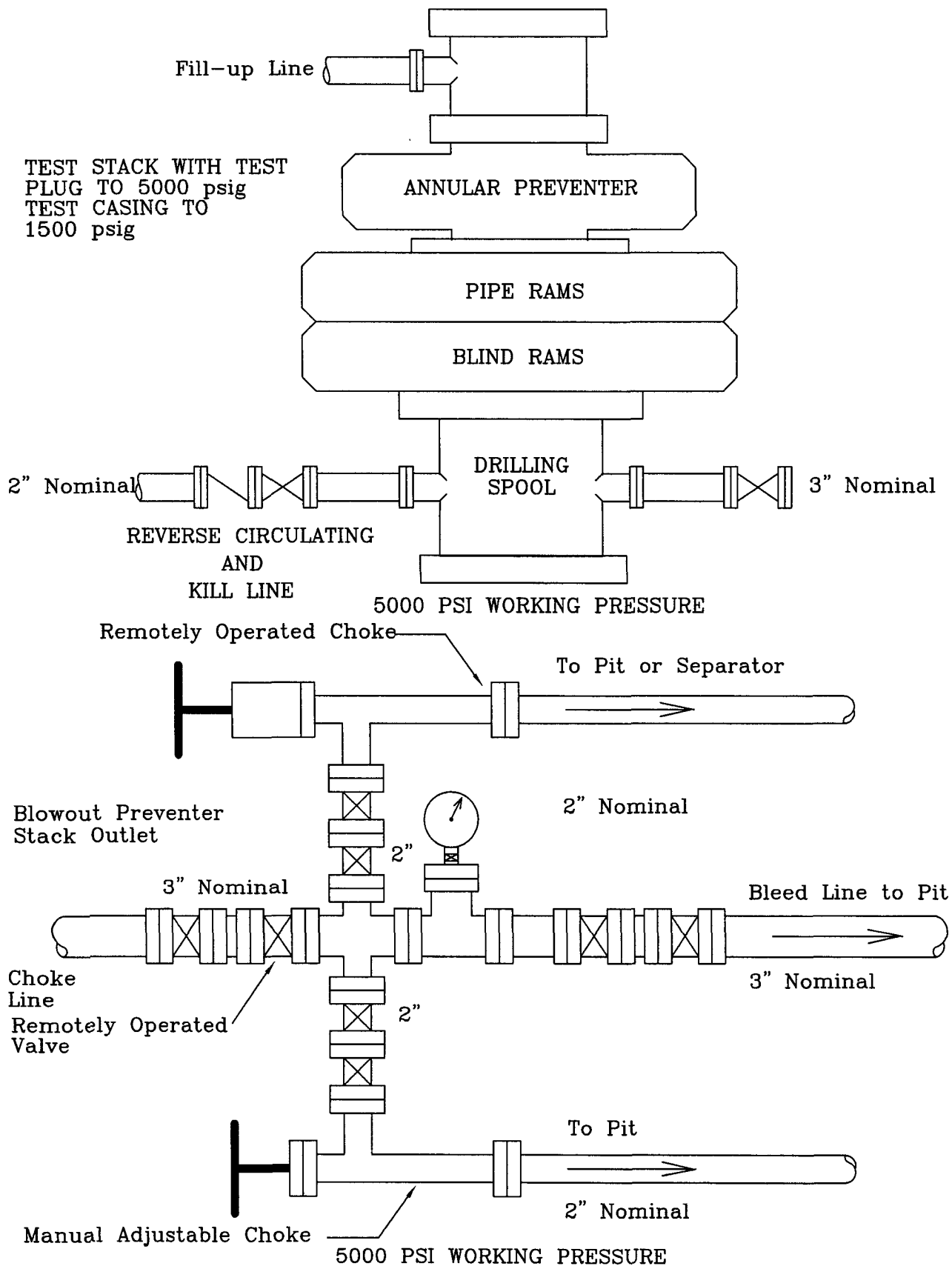
PBTD @ 11492'

11560' - 4 1/2", J-55 & N-80,  
11.6# Casing  
Cemented w/220 sxs

T.D. @ 11560'

Dadco, Inc.
Jones Federal B No. 3
660' FSL & 660' FEL
Sec. 23, T-19S, R-31E
Eddy County, N.M.

# PRODUCTION HOLE SECTION



Location: SE/4 SE/4  
Sec. 23, T-19S, R-31E  
Eddy County, NM

Jones Fedreal 'B' No. 3  
BLOWOUT PREVENTER AND CHOKE MANIFOLD

7/27/09

Scale: None

## SURFACE USE PLAN

Lynx Petroleum Consultants, Inc.  
Jones Federal 'B' No. 3  
660' FSL and 660' FEL  
Section 23, T-19S, R-31E  
Lea County, NM

This plan is submitted with the "Application for Permit to Drill" the subject well. The purpose of the plan is to determine the location of the proposed well, the proposed construction activities and operations plan, the magnitude of necessary surface disturbance involved, and the procedures to be followed in rehabilitating the surface after completion of the operation, so that a complete appraisal can be made of the environmental effects associated with the operation.

LOCATED : 13.7 air miles south south southwest of Maljamar,  
New Mexico

OIL & GAS LEASE : NMNM 0107697

ACRES IN LEASE : 800

RECORD LESSEE : Lynx Petroleum Consultants, Inc.

BOND COVERAGE : \$25,000 statewide bond.

SURFACE OWNER : U. S. Government with grazing rights allotted to  
Roy Creamer  
P.O. Box 2414  
Carlsbad, NM 88220

WELL SPACING : 40 acres. (Bone Spring/Wolfcamp Oil)

### 1. EXISTING ROADS :

- A. The wellsite is 660' FSL and 660' FEL of Section 23, T-19S, R-31E, Eddy County, NM.
- B. Attached is a road map showing the existing location, existing roads, and the existing access road. The well is approximately 13.7 miles south southwest of Maljamar, NM.
- C. Directions : From the intersection of county road 126 and county road 243 travel north for 5.6 miles. Turn west onto the paved Lusk

plant road for 1.5 miles. Turn south onto a caliche lease road crossing a cattle guard and proceed for 0.5 miles. Turn east for 0.4 miles and then south for 0.5 miles. Finally, turn west for 0.5 miles into the location.

2. ACCESS ROAD :

- A. Length and Width : Existing lease roads will be refurbished and utilized for access. No new road will be required.
- B. Turnouts : None.
- C. Drainage Design : Roads will have a drop of 2" from the center line on each side.
- D. Culverts, Cuts, and Fills : None.
- E. Surfacing Material : Four inches of caliche, bladed, watered, and compacted.
- F. Gates, Cattleguards, and Fences : None.
- G. The well pad is already constructed.

3. LOCATION OF EXISTING WELLS :

- A. Existing wells are shown on the attached Lease Plat

4. LOCATION OF EXISTING AND/OR PROPOSED FACILITIES :

- A. Existing Facilities : None
- B. New Facilities : None required. Flowline will be laid along the access road to the existing tank battery.

5. LOCATION AND TYPE OF WATER SUPPLY :

- A. Fresh water will be piped in via temporary poly-line from the Carlsbad Double Eagle system. Brine water will be hauled in via truck transport.

6. SOURCE OF CONSTRUCTION MATERIAL :

- A. Caliche will be hauled from the nearest approved pit.

7. METHODS OF HANDLING WASTE DISPOSAL :

- A. Drill cuttings will be disposed of off-site in an approved disposal facility.
- B. Drilling fluids will be recovered from the drilling pits upon conclusion of drilling/completion operations.
- C. Water produced during the testing of the well will be stored in test tanks to be disposed at an approved disposal facility. Oil produced during testing will be stored in test tanks until sold.
- D. Current laws and regulations pertaining to the disposal of human waste will be complied with.
- E. Trash, waste paper and garbage will be contained in a fenced trash trailer and disposed of in an approved landfill.

8. ANCILLARY FACILITIES :

- A. None required.

9. WELLSITE LAYOUT :

- A. The attached rig layout plat indicates the relative location and dimensions of the well pad, mud pits, and major rig equipment.
- B. No reserve pit is planned at this time.

10. PLANS FOR RESTORATION OF THE SURFACE :

- A. After completion of drilling and/or completion operations all equipment and other material not needed for producing operations will be removed. Pits will be filled and the location cleaned of all trash and junk to leave the wellsite in as aesthetically pleasing condition as possible.
- B. Any unguarded pits containing fluids will be fenced until they are backfilled.
- C. If the well is non-productive, the disturbed area will be rehabilitated to Federal Agency requirements, and will be accomplished as expeditiously as possible.

11. OTHER INFORMATION :

- A. Terrain : Low rolling hills.
- B. Soil : Sandy.
- C. Vegetation : Mesquite, creosote, and grasses.
- D. Surface Use : Grazing.
- E. Ponds and Streams : None within 1.0 mile.
- F. Water Wells : None within 1.0 mile. One exploratory well drilled to 250' in the NE/4 NE/4 of Section 25, T-19S, R-31E reported no water.
- G. Residences and Buildings : None within 1.0 mile.
- H. Arroyos, Canyons, Etc. : None within 1.0 mile.
- I. Well Sign : A sign identifying and locating the well will be maintained at the wellsite.
- J. Archeological, Historical and Other Cultural Sites : Not Applicable, the well pad is already constructed.
- K. Surface Ownership : The access road and wellsite are located on Public surface.

12. OPERATOR'S REPRESENTATIVE :

Larry R. Scott  
P. O. Box 1708  
Hobbs, NM 88241  
Phone – (575) 392-6950                      Fax – (575) 392-7886

13. CERTIFICATION :

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route ; that I am familiar with the conditions which presently exist ; that the statements made in this plan are, to the best of my knowledge, true and correct ; that the work associated with the operations proposed herein will be performed by LYNX PETROLEUM CONSULTANTS,

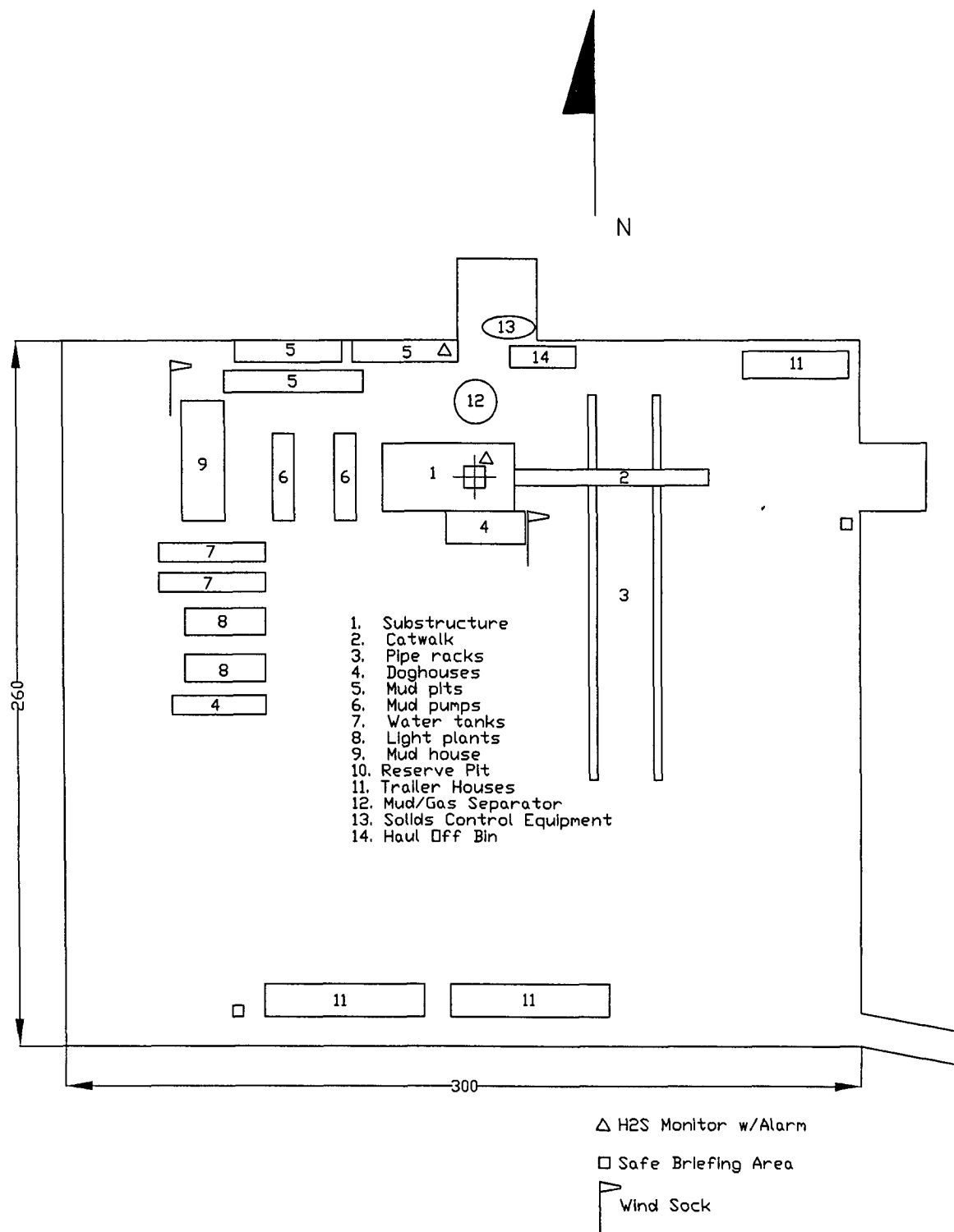
Page 5  
SURFACE USE PLAN  
JONES FEDERAL 'B' No. 3

INC. and its sub-contractors in conformity with this plan and the terms and conditions under which it is approved.

8-20-09  
DATE

Larry R. Scott  
LARRY R. SCOTT - PRESIDENT





Scale: None	Jones Federal 'B' No. 3	Loc: 660'FSL & 660'FEL
Date: 8/4/09	Rig Layout	Sec.23, T-19S, R-31E
		Eddy County, NM

LYNX PETROLEUM CONSULTANTS, INC.  
HYDROGEN SULFIDE DRILLING OPERATIONS  
Jones Federal 'B' No. 3

I. HYDROGEN SULFIDE TRAINING

All personnel, whether regularly assigned, contracted, or employed on an unscheduled basis, will receive training from a qualified instructor in the following areas prior to commencing drilling operations on this well:

1. The hazards and characteristics of hydrogen sulfide (H<sub>2</sub>S).
2. The proper use and maintenance of personal protective equipment and life support systems.
3. The proper use of H<sub>2</sub>S detectors, alarms, warning systems, briefing areas, evacuation procedures, and prevailing winds.
4. The proper techniques for first aid and rescue procedures.

In addition, supervisory personnel will be trained in the following areas:

1. The effects of H<sub>2</sub>S on metal components. If high tensile tubulars are to be used, personnel will be trained in their special maintenance requirements.
2. Corrective action and shut-in procedures when drilling or reworking a well and blowout prevention and well control procedures.
3. The contents and requirements of the H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan.

There will be an initial training session just prior to encountering a known or probable H<sub>2</sub>S zone (within 3 days or 500 feet) and weekly H<sub>2</sub>S Drilling Operations Plan and the Public Protection Plan. This plan shall be available at the well site.

II. H<sub>2</sub>S SAFETY EQUIPMENT AND SYSTEMS

Note : All H<sub>2</sub>S safety equipment and systems will be installed, tested, and operational when drilling reaches a depth of 500 feet above, or three days prior to penetrating the first zone containing or reasonably expected to contain H<sub>2</sub>S.

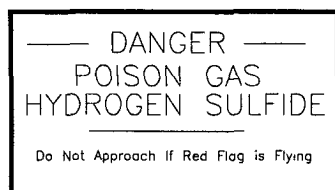
## HYDROGEN SULFIDE DRILLING OPERATIONS

### Jones Federal 'B' No. 3

1. Well Control Equipment :
  - A. Choke manifold with a minimum of one remote choke.
  - B. Blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit.
  - C. Auxiliary equipment to include : annular preventer
2. Protective equipment for essential personnel :
  - A. 30-minute air units located in the dog house and at briefing areas, as indicated on well site diagram.
3. H<sub>2</sub>S detection and monitoring equipment :
  - A. 2 – portable H<sub>2</sub>S monitors positioned on location for best coverage and response. These units have warning lights and audible sirens when H<sub>2</sub>S levels of 20 ppm are reached.
  - B. 1 – portable SO<sub>2</sub> monitor positioned near flare line.
4. Visual warning systems :
  - A. Wind direction indicators as shown on well site diagram.
  - B. Caution/Danger signs shall be posted on roads providing direct access to location. Signs will be painted a high visibility yellow with black lettering of sufficient size to be readable at a reasonable distance from the immediate location. Bilingual signs will be used when appropriate. See example on page 3.
5. Mud program :
  - A. The mud program has been designed to minimize the volume of H<sub>2</sub>S circulated to the surface. Proper mud weight, safe drilling practices, and the use of H<sub>2</sub>S scavengers will minimize hazards when penetrating H<sub>2</sub>S bearing zones.
  - B. A mud-gas separator will be utilized if needed.
6. Metallurgy :

HYDROGEN SULFIDE DRILLING OPERATIONS  
Jones Federal 'B' No. 3

- A. All drill strings, casings, tubing, wellhead, blowout preventers, drilling spool, kill lines, choke manifold and lines, and valves shall be suitable for H<sub>2</sub>S service.
  - B. All elastomers used for packing and seals shall be H<sub>2</sub>S trim.
7. Communication :
- A. Communications in company vehicles are provided by cellular telephones.  
Cell1: 575-390-9063      Cell2: 575-390-9065
  - B. Land line (telephone) communications at Hobbs office.  
Phone: 575-392-6950
  - C: Emergency Numbers  
911  
Carlsbad Sheriff's Dept.: 575-887-1888  
Carlsbad Hospital: 575-887-4100  
Carlsbad Fire Dept.: 575-885-3125  
Maljamar Fire Dept.: 575-676-4100  
Hobbs Hospital: 575-492-5000  
New Mexico State Police: 575-392-5588
8. Well testing :
- A. Drill stem testing will be preformed with a minimum number of personnel in the immediate vicinity which are necessary to safely and adequately conduct the test. All drill stem testing operations conducted in an H<sub>2</sub>S environment will use the closed chamber method of testing.



Jones Federal 'B' No. 3  
Design and Operating Plan  
660' FSL & 660' FEL  
Section 23, T-19S, R-31E  
Eddy County, New Mexico

iWATERS database search, topographic map, and satellite photo are included in the application. The location is outside of the R-111-P potash mine reserve area and buffer zone. No FEMA map is available for this area. No fresh water resources were identified within a 4 square mile area of the location.

The surface is owned by the United States of America and administered by the Bureau of Land Management. Notice of the proposed operations is included in the Application for Permit to Drill.

Design and Operating Plan:

Solids control equipment and haul-off bins will be placed adjacent to the rig mud circulating pits. Drill cuttings removed from the circulating fluid will be hauled to an approved disposal facility.

Drilling fluids contained in the circulating system will be hauled off at the conclusion of drilling activities to an approved disposal facility.



32 38:26.07"N 103 50:00.91"W

Image/NMRGIS

Image © 2009 DigitalGlobe  
© 2009 Tele Atlas

Google



# New Mexico Office of the State Engineer Water Column/Average Depth to Water

(quarters are 1=NW 2=NE 3=SW 4=SE)

(quarters are smallest to largest) (NAD83 UTM in meters) (In feet)

POD Number	Sub basin	Use	County	Q Q Q 64 16 4	Sec	Tws	Rng	X	Y	Depth Well	Depth Water	Water Column
CP 00642 EXPL	EXP	ED		2 2 25	19S	31E	611025	3611657*	250			

Average Depth to Water: --

Minimum Depth: --

Maximum Depth: --

Record Count: 1

Basin/County Search:

Basin: Capitan

County: Eddy

PLSS Search:

Section(s): 23-26

Township: 19S

Range: 31E

\*UTM location was derived from PLSS - see Help

The data is furnished by the NMOSE/ISC and is accepted by the recipient with the expressed understanding that the OSE/ISC make no warranties, expressed or implied, concerning the accuracy, completeness, reliability, usability, or suitability for any particular purpose of the data.



# **Lynx Petroleum**

Eddy County

Jones Fed B

#3

OH

Plan: Plan #1

## **Pathfinder X & Y Planning Report**

08 July, 2009

# **PATHFINDER**

Pathfinder Energy Services  
Pathfinder X & Y Planning Report



Company:	Lynx Petroleum	Local Co-ordinate Reference:	Well #3:
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jones Fed/B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Project	Eddy County, New Mexico		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	New Mexico East 3001		

Site	Jones Fed/B		
Site Position:		Northing:	597,031 215 ft
From:	Lat/Long	Easting:	653,975 618 ft
Position Uncertainty:	0 00 ft	Slot Radius:	"
		Latitude:	32° 38' 25 241 N
		Longitude:	103° 49' 59 248 W
		Grid Convergence:	0 27 °

Well	#3		
Well Position	+N-S	0 00 ft	Northing:
	+E-W	0 00 ft	Easting:
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft
		Latitude:	32° 38' 25 241 N
		Longitude:	103° 49' 59 248 W
		Ground Level:	0 00 ft

Wellbore	OH		
----------	----	--	--

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	07/08/2009	7 96	60.59	49,086

Design	Plan #1			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	
			0.00	
Vertical Section:	Depth From (TVD)	+N-S	+E-W	Direction
	(ft)	(ft)	(ft)	(°)
	0 00	0 00	0 00	180 00

Survey Tool/Program	Date 07/08/2009		
From (ft)	To (ft)	Survey (Wellbore)	Tool Name
0 00	10,754.97	Plan #1 (OH)	Description

Pathfinder Energy Services  
Pathfinder X & Y Planning Report



Company:	Lynx Petroleum	Local Co-ordinate Reference:	Well #3
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Site:	Jones Fed B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V-Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
100.00	0 00	0 00	100 00	100 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
200 00	0 00	0 00	200 00	200 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
300 00	0 00	0 00	300 00	300 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
400 00	0 00	0 00	400 00	400 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
500.00	0 00	0 00	500 00	500 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
600 00	0 00	0 00	600 00	600 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
700 00	0 00	0 00	700 00	700 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
800 00	0 00	0 00	800 00	800 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
900 00	0 00	0 00	900 00	900 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,000 00	0 00	0 00	1,000 00	1,000 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,100 00	0 00	0 00	1,100 00	1,100 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,200 00	0 00	0 00	1,200 00	1,200 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,300 00	0 00	0 00	1,300 00	1,300 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,400 00	0 00	0 00	1,400 00	1,400 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,500 00	0 00	0 00	1,500 00	1,500 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,600 00	0 00	0 00	1,600 00	1,600 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,700.00	0 00	0 00	1,700 00	1,700 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,800 00	0 00	0 00	1,800 00	1,800 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
1,900 00	0 00	0 00	1,900 00	1,900 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,000 00	0 00	0 00	2,000 00	2,000 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,100 00	0 00	0 00	2,100 00	2,100 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,200 00	0 00	0 00	2,200 00	2,200 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,300 00	0 00	0 00	2,300 00	2,300 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,400 00	0 00	0 00	2,400 00	2,400 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,500 00	0 00	0 00	2,500 00	2,500 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	
2,600 00	0 00	0 00	2,600 00	2,600 00	0 00	0 00	0 00	0 00	597,031.21	653,975.62	

Pathfinder Energy Services  
Pathfinder X & Y Planning Report



Company:	Lynx Petroleum	Local Co-ordinate Reference:	Well #3
Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jones Fed B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)	
2,700.00	0.00	0.00	2,700.00	2,700.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
2,800.00	0.00	0.00	2,800.00	2,800.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
2,900.00	0.00	0.00	2,900.00	2,900.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,000.00	0.00	0.00	3,000.00	3,000.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,100.00	0.00	0.00	3,100.00	3,100.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,200.00	0.00	0.00	3,200.00	3,200.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,300.00	0.00	0.00	3,300.00	3,300.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,400.00	0.00	0.00	3,400.00	3,400.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,500.00	0.00	0.00	3,500.00	3,500.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,600.00	0.00	0.00	3,600.00	3,600.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,700.00	0.00	0.00	3,700.00	3,700.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,800.00	0.00	0.00	3,800.00	3,800.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
3,900.00	0.00	0.00	3,900.00	3,900.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,000.00	0.00	0.00	4,000.00	4,000.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,100.00	0.00	0.00	4,100.00	4,100.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,200.00	0.00	0.00	4,200.00	4,200.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,300.00	0.00	0.00	4,300.00	4,300.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,400.00	0.00	0.00	4,400.00	4,400.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,500.00	0.00	0.00	4,500.00	4,500.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,600.00	0.00	0.00	4,600.00	4,600.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,700.00	0.00	0.00	4,700.00	4,700.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,800.00	0.00	0.00	4,800.00	4,800.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
4,900.00	0.00	0.00	4,900.00	4,900.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,000.00	0.00	0.00	5,000.00	5,000.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,100.00	0.00	0.00	5,100.00	5,100.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,200.00	0.00	0.00	5,200.00	5,200.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,300.00	0.00	0.00	5,300.00	5,300.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	

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Site:	Jones Fed B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)	
5,400.00	0.00	0.00	5,400.00	5,400.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,500.00	0.00	0.00	5,500.00	5,500.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,600.00	0.00	0.00	5,600.00	5,600.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,700.00	0.00	0.00	5,700.00	5,700.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,800.00	0.00	0.00	5,800.00	5,800.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
5,900.00	0.00	0.00	5,900.00	5,900.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,000.00	0.00	0.00	6,000.00	6,000.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,100.00	0.00	0.00	6,100.00	6,100.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,200.00	0.00	0.00	6,200.00	6,200.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,300.00	0.00	0.00	6,300.00	6,300.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,400.00	0.00	0.00	6,400.00	6,400.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,500.00	0.00	0.00	6,500.00	6,500.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,600.00	0.00	0.00	6,600.00	6,600.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,700.00	0.00	0.00	6,700.00	6,700.00	0.00	0.00	0.00	0.00	597,031.21	653,975.62	
6,800.00	1.50	180.00	6,799.99	6,799.99	-1.31	0.00	1.31	1.50	597,029.91	653,975.62	
6,893.07	2.90	180.00	6,892.99	6,892.99	-4.88	0.00	4.88	1.50	597,026.34	653,975.62	
6,900.00	2.90	180.00	6,899.91	6,899.91	-5.23	0.00	5.23	0.00	597,025.99	653,975.62	
7,000.00	2.90	180.00	6,999.78	6,999.78	-10.28	0.00	10.28	0.00	597,020.93	653,975.62	
7,100.00	2.90	180.00	7,099.65	7,099.65	-15.33	0.00	15.33	0.00	597,015.88	653,975.62	
7,200.00	2.90	180.00	7,199.53	7,199.53	-20.39	0.00	20.39	0.00	597,010.83	653,975.62	
7,300.00	2.90	180.00	7,299.40	7,299.40	-25.44	0.00	25.44	0.00	597,005.78	653,975.62	
7,400.00	2.90	180.00	7,399.27	7,399.27	-30.49	0.00	30.49	0.00	597,000.72	653,975.62	
7,500.00	2.90	180.00	7,499.14	7,499.14	-35.54	0.00	35.54	0.00	596,995.67	653,975.62	
7,600.00	2.90	180.00	7,599.01	7,599.01	-40.60	0.00	40.60	0.00	596,990.62	653,975.62	
7,700.00	2.90	180.00	7,698.89	7,698.89	-45.65	0.00	45.65	0.00	596,985.57	653,975.62	
7,800.00	2.90	180.00	7,798.76	7,798.76	-50.70	0.00	50.70	0.00	596,980.51	653,975.62	
7,900.00	2.90	180.00	7,898.63	7,898.63	-55.75	0.00	55.75	0.00	596,975.46	653,975.62	

Pathfinder Energy Services  
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Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jones Fed B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	OH	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

Planned Survey											
MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	EW (ft)	V. Sec (ft)	D Leg (°/100ft)	Northing (ft)	Easting (ft)	
8,000.00	2.90	180.00	7,998.50	7,998.50	-60.81	0.00	60.81	0.00	596,970.41	653,975.62	
8,100.00	2.90	180.00	8,098.38	8,098.38	-65.86	0.00	65.86	0.00	596,965.36	653,975.62	
8,200.00	2.90	180.00	8,198.25	8,198.25	-70.91	0.00	70.91	0.00	596,960.30	653,975.62	
8,300.00	2.90	180.00	8,298.12	8,298.12	-75.96	0.00	75.96	0.00	596,955.25	653,975.62	
8,400.00	2.90	180.00	8,397.99	8,397.99	-81.01	0.00	81.01	0.00	596,950.20	653,975.62	
8,500.00	2.90	180.00	8,497.87	8,497.87	-86.07	0.00	86.07	0.00	596,945.15	653,975.62	
8,600.00	2.90	180.00	8,597.74	8,597.74	-91.12	0.00	91.12	0.00	596,940.10	653,975.62	
8,700.00	2.90	180.00	8,697.61	8,697.61	-96.17	0.00	96.17	0.00	596,935.04	653,975.62	
8,800.00	2.90	180.00	8,797.48	8,797.48	-101.22	0.00	101.22	0.00	596,929.99	653,975.62	
8,900.00	2.90	180.00	8,897.35	8,897.35	-106.28	0.00	106.28	0.00	596,924.94	653,975.62	
9,000.00	2.90	180.00	8,997.23	8,997.23	-111.33	0.00	111.33	0.00	596,919.89	653,975.62	
9,100.00	2.90	180.00	9,097.10	9,097.10	-116.38	0.00	116.38	0.00	596,914.83	653,975.62	
9,200.00	2.90	180.00	9,196.97	9,196.97	-121.43	0.00	121.43	0.00	596,909.78	653,975.62	
9,300.00	2.90	180.00	9,296.84	9,296.84	-126.49	0.00	126.49	0.00	596,904.73	653,975.62	
9,400.00	2.90	180.00	9,396.72	9,396.72	-131.54	0.00	131.54	0.00	596,899.68	653,975.62	
9,500.00	2.90	180.00	9,496.59	9,496.59	-136.59	0.00	136.59	0.00	596,894.62	653,975.62	
9,600.00	2.90	180.00	9,596.46	9,596.46	-141.64	0.00	141.64	0.00	596,889.57	653,975.62	
9,700.00	2.90	180.00	9,696.33	9,696.33	-146.70	0.00	146.70	0.00	596,884.52	653,975.62	
9,800.00	2.90	180.00	9,796.21	9,796.21	-151.75	0.00	151.75	0.00	596,879.47	653,975.62	
9,900.00	2.90	180.00	9,896.08	9,896.08	-156.80	0.00	156.80	0.00	596,874.41	653,975.62	
10,000.00	2.90	180.00	9,995.95	9,995.95	-161.85	0.00	161.85	0.00	596,869.36	653,975.62	
10,100.00	2.90	180.00	10,095.82	10,095.82	-166.91	0.00	166.91	0.00	596,864.31	653,975.62	
10,200.00	2.90	180.00	10,195.69	10,195.69	-171.96	0.00	171.96	0.00	596,859.26	653,975.62	
10,300.00	2.90	180.00	10,295.57	10,295.57	-177.01	0.00	177.01	0.00	596,854.20	653,975.62	
10,400.00	2.90	180.00	10,395.44	10,395.44	-182.06	0.00	182.06	0.00	596,849.15	653,975.62	
10,500.00	2.90	180.00	10,495.31	10,495.31	-187.12	0.00	187.12	0.00	596,844.10	653,975.62	
10,600.00	2.90	180.00	10,595.18	10,595.18	-192.17	0.00	192.17	0.00	596,839.05	653,975.62	

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Pathfinder X & Y Planning Report



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Project:	Eddy County	TVD Reference:	WELL @ 0.00ft (Original Well Elev)
Site:	Jones Fed B	MD Reference:	WELL @ 0.00ft (Original Well Elev)
Well:	#3	North Reference:	Grid
Wellbore:	Oil	Survey Calculation Method:	Minimum Curvature
Design:	Plan #1	Database:	Midland Database

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	TVDSS (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Northing (ft)	Easting (ft)
10,700.00	2.90	180.00	10,695.06	10,695.06	-197.22	0.00	197.22	0.00	596,833.99	653,975.62
10,755.01	2.90	180.00	10,750.00	10,750.00	-200.00	0.00	200.00	0.00	596,831.21	653,975.62

PBHL(#3)

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
PBHL(#3)	0.00	0.00	10,750.00	-200.00	0.00	596,831.215	653,975.618	32° 38' 23.262 N	103° 49' 59.259 W
- hit/miss target									
- Shape									
- Point									

Plan Annotations				
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
6,700.00	6,700.00	0.00	0.00	KOP-6700 00'MD,0 00°INC,0 00°AZI,6700 00'TVD
6,893.07	6,892.99	-4.88	0.00	Build to 6893.07 'MD,2.90° INC,180 00°AZI,6892.99'TVD, 1.50° DLS
10,755.01	10,750.00	-200.00	0.00	BHL-10755 01'MD,2.90°INC,180 00°AZI, 10750 00'TVD, 200 00'VS, -2'

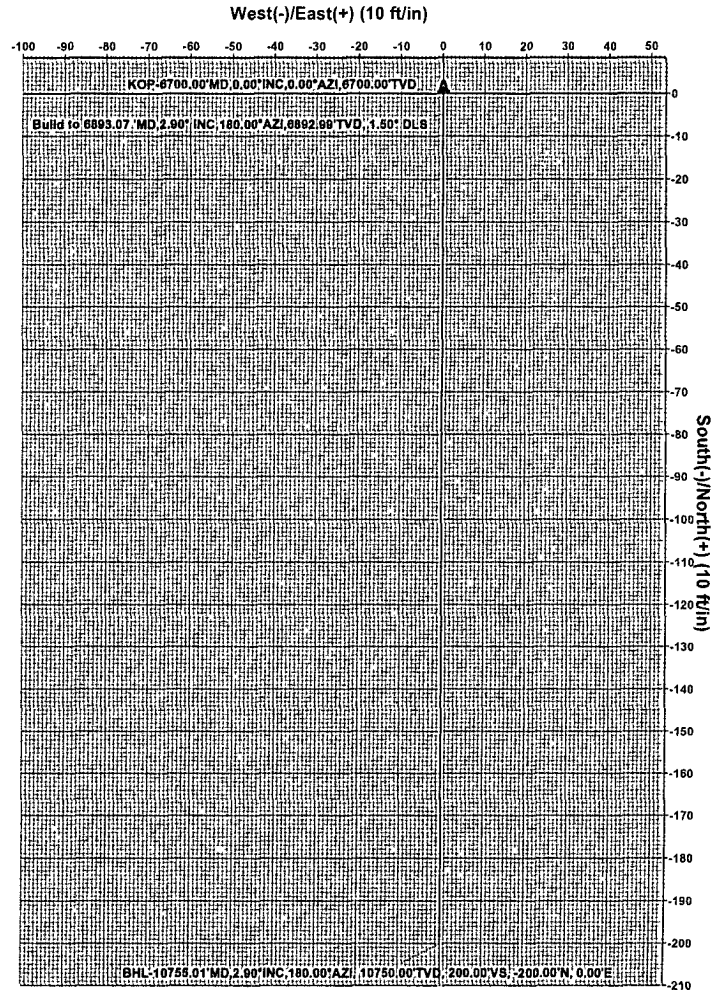
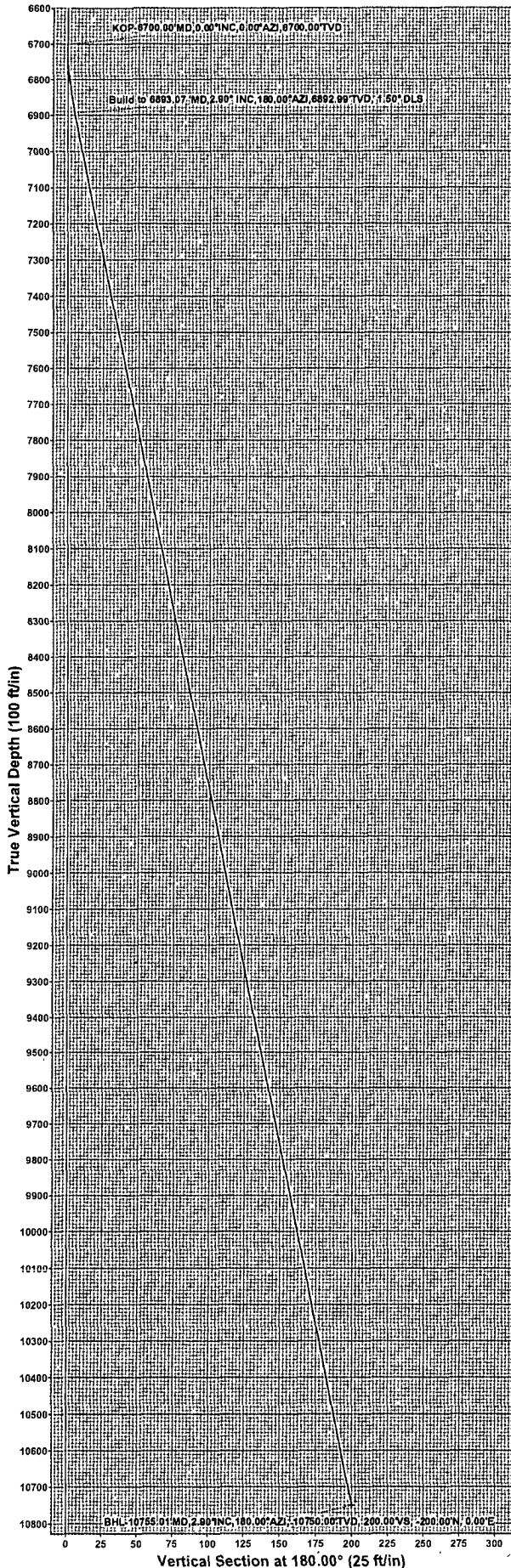
Checked By: \_\_\_\_\_ Approved By: \_\_\_\_\_ Date: \_\_\_\_\_

# LYNX PETROLEUM



A2

# PATHFINDER



WELL DETAILS: #3							
Ground Elevation		0.00					
RKB Elevation		WELL @ 0.00ft (Original Well Elev)					
Rig Name		Original Well Elev					
+N/-S	+E/-W	Northing	Eastng	Latitude	Longitude	Slot	
0.00	0.00	597031.215	653975.618	32° 38' 25.241 N	103° 49' 59.248 W		

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
2	6700.00	0.00	0.00	6700.00	0.00	0.00	0.00	0.00	0.00	0.00
3	6893.07	2.90	180.00	6892.99	-4.88	0.00	1.50	180.00	4.88	
4	10755.01	2.90	180.00	10750.00	-200.00	0.00	0.00	0.00	200.00	PBHL(#3)

PROJECT DETAILS: Eddy County  
Geodetic System: US State Plane 1927 (Exact solution)  
Datum: NAD 1927 (NADCON CONUS)  
Ellipsoid: Clarke 1866  
Zone: New Mexico East 3001  
System Datum: Mean Sea Level  
Local North: Grid

Project: Eddy County  
Site: Jones Fed B  
Well: #3  
Wellbore: OH  
Plan: Plan #1 (#3/OH)

Plan Plan #1 (#3/OH)			
Created By:	Nate Bingham	Date:	9/36, July 08 2009
Checked:		Date:	



**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

FORM C-12B  
Revised 5-1-57

SEE INSTRUCTIONS FOR COMPLETING THIS FORM ON THE REVERSE SIDE

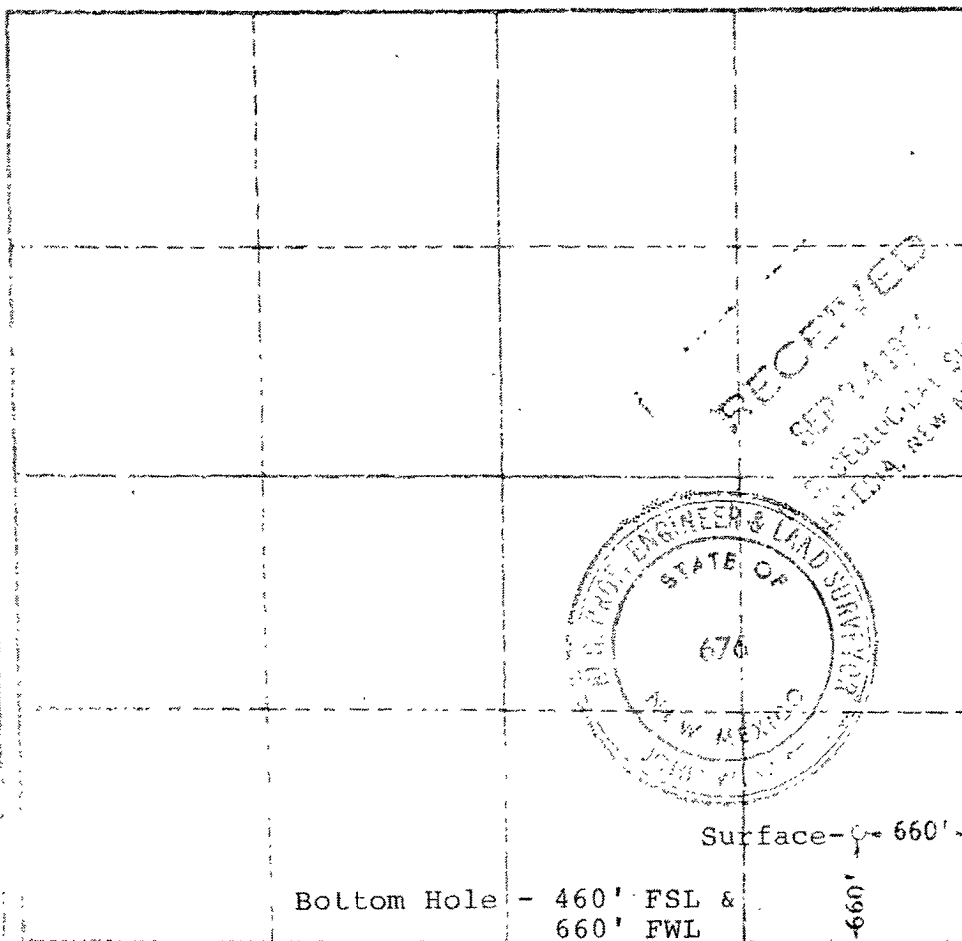
**SECTION A**

Operator <b>TENNECO OIL COMPANY</b>			Lease <b>JONES FEDERAL "B"</b>		Well No. <b>3</b>
Unit Letter <b>P</b>	Section <b>23</b>	Township <b>19 SOUTH</b>	Range <b>31 EAST</b>	County <b>EDDY</b>	
Actual Footage Location of Well <b>Surface 660</b> feet from the <b>SOUTH</b> line and <b>660</b> feet from the <b>EAST</b> line			BOTTOM HOLE LOCATION: <b>460' FSL &amp; 660' FWL</b>		
Ground Level Elev. <b>3540 Est</b>	Producing Formation <b>Strawn</b>	Pool <b>Undesignated</b>		Dedicated Acreage <b>40</b> Acres	

1. Is the Operator the only owner in the dedicated acreage outlined on the plat below? YES ☒ NO ☐ (Owner means the person who has the right to drill into and to produce from any pool and to appropriate the production either for himself or for himself and another (65-3-29 (e) NMSA 1955 Comp.)
2. If the answer to question one is "no," have the interests of all the owners been consolidated by communitization agreement or otherwise? YES ☐ NO ☐ If answer is "yes," Type of Consolidation \_\_\_\_\_
3. If the answer to question two is "no," list all the owners and their respective interests below \_\_\_\_\_

Owner	Land Description

**SECTION B**



**CERTIFICATION**

I hereby certify that the information in SECTION A above is true and complete to the best of my knowledge and belief.

Name *Carl Lang*  
Position *W. M. Lang*  
Dist. Prod. Superintendent  
Company *Tenneco Oil Company*  
Date *9-21-64*

I hereby certify that the well location shown on the plat in SECTION B 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 knowledge and belief.

Date Surveyed *SEPT. 17, 1964*  
Registered Professional Engineer  
and/or Land Surveyor, *JAMES W. WEST*  
Signature *James W. West*  
Licentiate No. *MM - P.E. & L.S. NO 670*

350 640 990 1320 1660 1980 2300 2640 2980 3320 3660 4000 4340 4680 5020

## PECOS DISTRICT CONDITIONS OF APPROVAL

<b>OPERATOR'S NAME:</b>	<b>Lynx Petroleum Consultants, Inc.</b>
<b>LEASE NO.:</b>	<b>NMNM 0107697</b>
<b>WELL NAME &amp; NO.:</b>	<b>Jones Federal "B" No. 3</b>
<b>SURFACE HOLE FOOTAGE:</b>	<b>660' FSL &amp; 660' FEL</b>
<b>BOTTOM HOLE FOOTAGE</b>	<b>460' FSL &amp; 660' FEL</b>
<b>LOCATION:</b>	<b>Section 23, T. 19 S., R 31 E., NMPM</b>
<b>COUNTY:</b>	<b>Eddy County, New Mexico</b>

### I. PULLING UNIT

1. Surface disturbance beyond the existing pad must have prior approval.
2. Closed loop system required.
3. Operator to have H2S monitoring equipment on location as H2S has been reported in this section.
4. 3M BOP is required and must be tested prior to drilling out CIBP.
5. Contact BLM 575-361-2822 a minimum of 4 hours prior to setting plugs.
6. Subsequent sundry and completion report required.

### II. DRILLING RIG

#### A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

☒ **Eddy County**

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220,  
(575) 361-2822

1. **Hydrogen Sulfide has been reported as a hazard in this section, but no measurements have been recorded. It is recommended that monitoring equipment be onsite for potential Hydrogen Sulfide. If Hydrogen Sulfide is encountered, please report measurements and formations to the BLM.**
2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works are located, this does not include the dog house or stairway area.

## **B. CASING**

**Changes to the approved Sundry casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.**

**Centralizers required on surface casing per Onshore Order 2.III.B.1.f.**

**Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.**

**No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.**

1. Surface casing exists to 602' cemented to surface.
2. Intermediate casing exists to 3,949' cemented back to 350'.

**Centralizers required on Directional segment, must be type for directional service and minimum of one every other joint.**

3. The minimum required fill of cement behind the 5-1/2 inch production casing is:

☒ Cement should tie-back at least 200 feet into previous casing string. Operator shall provide method of verification.

4. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

### C. PRESSURE CONTROL

1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
2. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below cement plug @ 6700' shall be **5000 psi. 5M system requires an HCR valve, remote kill line and annular to match. The remote kill line is to be installed prior to testing the system and tested to stack pressure.**
3. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
  - a. The tests shall be done by an independent service company.
  - b. The results of the test shall be reported to the appropriate BLM office.
  - c. All tests are required to be recorded on a calibrated test chart. **A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.**
  - d. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.
  - e. BOP/BOPE must be tested by an independent service company within 500 feet of the top of the **Wolfcamp** formation if the time between the setting of the intermediate casing and reaching this depth exceeds 20 days. This test does not exclude the test prior to drilling out the casing shoe as per Onshore Order No. 2.

### D. DRILLING MUD

Mud system monitoring equipment, with derrick floor indicators and visual and audio alarms, shall be operating before drilling into the **Wolfcamp** formation, and shall be used until production casing is run and cemented.

**Proposed mud weight may not be adequate for drilling through Wolfcamp.**

**E. DRILL STEM TEST**

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

**MAK 102609**