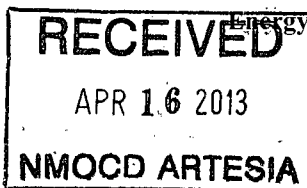


District I  
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Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico

Form C-101  
Revised December 16, 2011



Minerals and Natural Resources  
Oil Conservation Division  
220 South St. Francis Dr.  
Santa Fe, NM 87505

Permit

**APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE**

<sup>1</sup> Operator Name and Address  Lynx Petroleum Consultants, Inc. P.O. Box 1708 Hobbs, NM 88240		<sup>2</sup> OGRID Number  13645
		<sup>3</sup> API Number  30-015-32374
<sup>4</sup> Property Code  312173	<sup>5</sup> Property Name  WALTERTHON FEE	<sup>6</sup> Well No  002

**<sup>7</sup> Surface Location**

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
D	21	22S	27E		855	NORTH	660	WEST	EDDY

**<sup>8</sup> Pool Information**

CARLSBAD;STRAWN,SOUTH(GAS)	74120
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**Additional Well Information**

<sup>9</sup> Work Type PLUGBACK	<sup>10</sup> Well Type GAS	<sup>11</sup> Cable/Rotary ROTARY	<sup>12</sup> Lease Type FEE	<sup>13</sup> Ground Level Elevation 3115' GL
<sup>14</sup> Multiple	<sup>15</sup> Proposed Depth 11395' PBTB	<sup>16</sup> Formation Strawn	<sup>17</sup> Contractor	<sup>18</sup> Spud Date 11/4/2002
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water

**<sup>19</sup> Proposed Casing and Cement Program**

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
	17 1/2	13 3/8	48#	352'	475 sx	Circ Surface
	12 1/4	9 5/8	36#	1772'	700 sx	Circ Surface
	8 3/4	7	23#	9000'	1250 sx	Circ Surface
	6 1/8	4 1/2	11 6#	12030	315 sx	8365' Temp Survey

**Casing/Cement Program: Additional Comments**

--

**Proposed Blowout Prevention Program**

Type	Working Pressure	Test Pressure	Manufacturer
DOUBLE RAM HYDRAULIC	5000	7500	SCHAFER

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

I further certify that the drilling pit will be constructed according to NMOC guidelines ☐, a general permit ☐, or an (attached) alternative OCD-approved plan ☒.

Signature: *Debbie Mckelvey*

Printed name: DEBBIE MCKELVEY

Title: AGENT

E-mail Address: debmckelvey@earthlink.net

Date: 4/15/13

Phone: 575-392-3575

**OIL CONSERVATION DIVISION**

Approved By:

*[Signature]*

Title: *Dr. HS*

Approved Date: *4/24/2013*

Expiration Date:

Conditions of Approval Attached

**Walterthon Fee No. 2**  
**Strawn Recompletion Procedure**

**API No.:** 30-015-32374

**Location:** 855' FNL & 660' FEL Section 21, T-22S, R-27E  
Eddy County, New Mexico

**Elevation:** 3115' GL

**KB:** +17'

**TD:** 12,030'

**PBTD:** 11,415'

**Casing & Cement:**

13-3/8", 48#/ft., ST&C @ 352' cmt. w/475 sx. circulated

9-5/8", 36#/ft., J-55, ST&C @ 1772' cmt. w/700 sx. circulated

7", 23#/ft., P-110&N-80, LT&C @ 9000' cmt. in two stages w/1250 sx. circulated  
both stages

4-1/2", 11.6#/ft., P-110, LT&C @ 12,030' cmt. w/315 sx. TOC @ 8,365' by  
temp survey

**Tubing:**

2-3/8", 4.7#/ft., L-80, EUE w/PLS??? packer @ +/-11,350' KB

**Perforations:**

Morrow: 11670'-72', 11735'-42', 11751'-59', 11819'-22'

**CIBP:** 11,575'

**Perforations:**

Morrow: 11,466'-476'

**Proposed Perfs:**

Strawn: 10270'-75', 10349'-58', 10414'-17'

**Procedure:**

1. MIRU pulling unit. Kill well as required with 2% KCL TFW. ND wellhead. NU BOP.
2. Release 4-1/2" packer. Tally tubing OOH.
3. PU 3-3/4" bit & 4-1/2" casing scraper. TIH to 11,450'. Circulate and load hole w/2% KCL TFW. TOOH.
4. RU E&P wireline. Run and set CIBP @ 11,430'. Spot 35' cement on top of CIBP to abandon Morrow zone.
5. Test casing to 1500 psig for 15 minutes.
6. TIH w/tubing OE to 10,370'. Spot 2 bbls. 15% HCL-NE-FE acid. TOOH.
7. NU full opening 4-1/2", 5000 psig WP valve on top of BOP. RU E&P wireline w/**FULL LUBRICATOR**. Perforate Strawn section w/4 JSPF per the above schedule (80 holes total).

Walterthon Fee No. 2  
Stawn Recompletion Procedure

8. Lubricate in and set 4-1/2" production packer at +/-10,200' set up as follows:
  - Pump out plug
  - Profile Nipple
  - 6' Tailpipe
  - Packer
  - Profile Nipple
  - On/Off Tool
9. ND 4-1/2" valve and test 2-3/8" tubing in hole to 8500 psig.
10. Circulate hole w/clean, corrosion inhibited 2% KCL TFW.
11. ND BOP. Land tubing and NU tree. Test annulus to 1000 psig for 15 minutes.
12. RU kill truck on tubing. Pump out plug and displace spot acid.
13. Flow/Swab well in and return to production. NOTE: Depending on rates and pressures recommendation may be made to reacidize with larger acid volume and/or ballsealers.

LYNX PETROLEUM CONSULTANTS, INC.  
WOLFCAMP RECOMPLETION H<sub>2</sub>S PRECAUTIONS  
Walterthon Fee No. 2

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 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.

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

1. Well Control Equipment :
  - A. A 5000 psig WP Blowout preventer with blind rams and pipe rams to accommodate all pipe sizes with properly sized closing unit will be furnished.
2. 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.

## WOLFCAMP RECOMPLETION H<sub>2</sub>S PRECAUTIONS

Walterthon Fee No. 1

Page 2

3. Visual warning systems :
  - A. A wind direction indicator will be in place on the pulling unit doghouse.
4. Mud program :
  - A. The working fluid for this recompletion will be 2% KCL treated fresh water.
5. Metallurgy :
  - A. Tubing, wellhead, and blowout preventers 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.
6. 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. No drill stem tests are being contemplated during this operation.

Existing Wellbore  
04//11/13

Elevation: 3115'GL KB: +17'

17-1/2" Hole  
352' - 13-3/8", ST&C Casing  
Cemented w/475 sxs. Circulated to Surf.

12-1/4" Hole  
1772' - 9-5/8, J-55, 36#, ST&C Casing.  
Cemented w/700 sxs. Circulated to Surface

8-3/4" Hole  
9000' - 7", P-110 & N-80, 23#, LT&C Casing.  
Cemented w/1250 sxs. Circulated to Surface

TOC by Tmp Svy 8365'  
6-1/8" Hole

Perfs/Morrow 11466'-76'

C.I.B.P. @ 11575'

Perfs/Morrow 11670'-72', 11735'-42', 11751'-59',  
11819'-22'

12030' - 4 1/2", 11.6#, P-110  
Cement w/315 sxs. Class 'H'

T.D. @ 12030'

Lynx Petroleum Cons.
Walterthon Fee No. 2
855' FNL & 660' FWL
Sec. 21, T-22S, R-27E
Eddy County, N.M.

Proposed Strawn Recompletion  
04//11/13

Elevation: 3115'GL KB: +17'

17-1/2" Hole  
352' - 13-3/8", ST&C Casing  
Cemented w/475 sxs. Circulated to Surf.

12-1/4" Hole  
1772' - 9-5/8, J-55, 36#, ST&C Casing.  
Cemented w/700 sxs. Circulated to Surface

8-3/4" Hole  
9000' - 7", P-110 & N-80, 23#, LT&C Casing.  
Cemented w/1250 sxs. Circulated to Surface

TOC by Tmp Svy 8365'  
6-1/8" Hole

Perfs/Strawn 10270'-75', 10349'-58', 11414'-17'

C.I.B.P. @ 11430' capped w/35' cement  
Perfs/Morrow 11466'-76'

C.I.B.P. @ 11575'

Perfs/Morrow 11670'-72', 11735'-42', 11751'-59',  
11819'-22'

12030' - 4 1/2", 11.6#, P-110  
Cement w/315 sxs. Class 'H'

T.D. @ 12030'

Lynx Petroleum Cons.
Walterthon Fee No. 2
855' FNL & 660' FWL
Sec. 21, T-22S, R-27E
Eddy County, N.M.

**RECEIVED**

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APR 16 2013

State of New Mexico

Energy, Minerals &amp; Natural Resources Department

Form C-102

Revised August 1, 2011

Submit one copy to appropriate

District Office

**NMOC D ARTESIA**

OIL CONSERVATION DIVISION

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT**WELL LOCATION AND ACREAGE DEDICATION PLAT**

<sup>1</sup> API Number <b>30-015-32374</b>	<sup>2</sup> Pool Code <b>74120</b>	<sup>3</sup> Pool Name <b>CARLSBAD;STRAWN,SOUTH (GAS)</b>
<sup>4</sup> Property Code <b>312173</b>	<sup>5</sup> Property Name <b>WALTERTHON FEE</b>	<sup>6</sup> Well Number <b>002</b>
<sup>7</sup> OGRID No. <b>13645</b>	<sup>8</sup> Operator Name <b>LYNX PETROLEUM CONSULTANTS, INC.</b>	<sup>9</sup> Elevation <b>3115' GL</b>

<sup>10</sup> Surface Location

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<b>D</b>	<b>21</b>	<b>22S</b>	<b>27E</b>		<b>855</b>	<b>NORTH</b>	<b>660</b>	<b>WEST</b>	<b>EDDY</b>

<sup>11</sup> Bottom Hole Location If Different From Surface

U/L or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

<sup>12</sup> Dedicated Acres <b>320</b>	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.
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No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup> -660'-0 -855'-0				<sup>17</sup> <b>OPERATOR CERTIFICATION</b> I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature <u>Debbie McKelvey</u> Date <u>4/15/13</u>  DEBBIE MCKELVEY, AGENT Printed Name  debmkcelvey@earthlink.net E-mail Address
				<sup>18</sup> <b>SURVEYOR CERTIFICATION</b> I hereby certify that the well location shown on this plat 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 belief. 7/2/2002 Date of Survey Signature and Seal of Professional Surveyor: RONALD J. EIDSON ON FILE 32-11-0494 Certificate Number