

District I

1625 N. French Dr., Hobbs, NM 88240

District II

1301 W. Grand Avenue, Artesia, NM 88210

District III

1000 Rio Brazos Road, Aztec, NM 87410

District IV

1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico  
Energy Minerals and Natural Resources

Form C-101

May 27, 2004

## Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

Submit to appropriate District Office

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

<sup>1</sup> Operator Name and Address Devon Louisiana Corporation 20 North Broadway Oklahoma City, Oklahoma 73102-8260		<sup>2</sup> OGRID Number 169355
<sup>3</sup> Property Code 23826 24874		<sup>4</sup> API Number 30-025-34519
<sup>5</sup> Property Name Townsend "2" State Corn		<sup>6</sup> Well No. 1
<sup>9</sup> Proposed Pool 1 Strawn South		<sup>10</sup> Proposed Pool 2

<sup>7</sup> Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
O	2	16S	35E	15	2970	South	1980	East	Lea

<sup>8</sup> Proposed Bottom Hole Location If Different From Surface

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

## Additional Well Information

<sup>11</sup> Work Type Code E P	<sup>12</sup> Well Type Code G	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3990'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 12814'	<sup>18</sup> Formation ShoeBar Atoka, North	<sup>19</sup> Contractor	<sup>20</sup> Spud Date 11/1/98
Depth to Groundwater		Distance from nearest fresh water well		Distance from nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

<sup>21</sup> Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48#	436'	415	
11"	8 5/8"	32#	4740'	1625	
7 7/8"	4 1/2"	11.6#	12798'	800	

<sup>22</sup> Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

**Devon Energy Production Company, LP respectfully requests approval to recomplete to the Strawn as outlined in the attached procedure:**

Please see attached.

Permit Expires 1 Year From Approval  
Date Unless Drilling Underway  
Plugback

<sup>23</sup> 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 <input type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Norvella Adams		Approved by:	
Title: Sr. Staff Engineering Technician		Title: PETROLEUM ENGINEER	
E-mail Address: norvella.adams@devn.com		Approval Date: AUG 01 2005 Expiration Date:	
Date: 7/20/05	Phone: (405) 552-8198	Conditions of Approval Attached <input type="checkbox"/>	

AUG 01 2005

Fee Lease - 3 Copies

☐ AMENDED REPORT

OPERATOR CERTIFICATION			
<p>I hereby certify the information contained herein is true and complete to the best of my knowledge and belief.</p>			
<p><i>[Signature]</i></p>			
<p>Signature _____</p>			
<p>Norvella Adams</p>			
<p>Printed Name _____</p>			
<p>Sr. Staff Eng. Tech.</p>			
<p>Title _____</p>			
<p>July 25, 2005</p>			
<p>Date _____</p>			
SURVEYOR CERTIFICATION			
<p>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.</p>			
<p>October 12, 1998</p>			
<p>Date Surveyed _____</p>			
<p>Signature of _____</p>			
<p>Professional Surveyor _____</p>			
<p><i>[Circular Seal: GARY L. JONES, PROFESSIONAL SURVEYOR, No. 84629, 7977]</i></p>			
<p>Certificate No. _____</p>			
<p>7977</p>			

  

LOT 12      LOT 11      LOT 10      LOT 9

LOT 13      LOT 14      LOT 15      LOT 16

LAT. 32°57'07.03"N  
LONG. 103°25'34.13"W

3990.4'      3989.3'

3990.5'      3989.2'

1980'

1/4 COR

2970'

1/4 COR



**Townsend 2 State Com 1**

T16S, R35E, Sec. 2  
2970' FSL, 1980' FEL  
Lea County, NM

Elevation- 3990'

Casing- 13-3/8" 38# H-40 @ 436', circ  
8-5/8" 32# J-55 @ 4740', circ  
4-1/2" 11.6# S-95, N-80 @ 12,798', TOC @ 9300'

Atoka Perfs- 11,881' – 11,898'  
Cisco-Canyon perfs- 11,004' – 11,020', 11,100' – 11,116'  
Proposed Strawn perfs- 11,624' – 11,637', 11,641' – 11,649'

**Procedure to Open Strawn Sand**

1. MIRUPU. ND WH. NU 10,000# hydraulic BOP. Load tubing w/ 2% KCl water until fluid level stabilizes at surface. Release Arrowset packer @ 10,941'. POOH w/ 2-3/8" tubing and packer.
2. MIRU reverse unit. RIH w. bit on 2-3/8" tubing. Drill out cement and CIBP @ 11,270'. POOH w. PU gauge ring and RIH on wireline. POOH w/ gauge ring. PU 4-1/2" CIBP and RIH on wireline. Set CIBP @ +/- 11,830'. Blow down casing to test plug integrity. RIH w/ dump bailer and dump 35' of cement on top of CIBP.
3. RIH w/ strip gun loaded w/ 3 spf, 120° phasing. Perf Strawn at 11,624'-637', and 11,641'-649'. POOH w/ perf gun and monitor surface pressure response.
4. PU Arrowset packer and RIH on 2-3/8" tubing. Set packer @ 11,540'. Swab down tubing.
5. MIRU BJ services. Acidize Strawn perforations according to BJ recommendations. Swab back acid load.
6. Continue swabbing back acid load.

***If there is a good show of hydrocarbon and pressure from formation:***

7. Kill well w/ 2% KCl water. Unset packer and POOH w/ tubing and packer. RIH w. Arrow Pak retrievable seal bore packers and 5 jts of 2-7/8" 6.5# N80 tubing. Set bottom packer at 11,135' and top liner packer at 10,985' to straddle Cisco-canyon perfs at 11,004'-116'.
8. Frac strawn down casing according to BJ recommendations. Swab back frac load.
9. Continue swabbing back frac load.
10. Kill well w/ 2% KCl. Unset Arrow Pak retrievable seal bore packers and POOH. PU RBP and RIH on wireline. Set at 11,160'. Blow down casing to test plug integrity. Dump bail 20' of sand on RBP.
11. PU 2-3/8" tubing and cement retainer. RIH and set cement retainer at 10,984'. Squeeze Cisco-canyon perfs at 11,004'-116'. POOH w/ 2-3/8" tubing.
12. MIRU reverse unit. RIH w/ bit on 2-3/8" tubing and drill out cement retainer and cement plug. Clean out casing to RBP. Test squeeze integrity to 700 psi. POOH w/ tubing and bit.
13. Release RBP and POOH. RIH w/ 2-3/8" production string and packer. Set packer at 11,540'. ND BOP. ND WH. Put well on line.