

## 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 BTA Oil Producers 104 S. Pecos Midland, TX 79701		<sup>2</sup> OGRID Number 003002
<sup>3</sup> Property Code 303446		<sup>4</sup> API Number 30 - 015-23514
<sup>5</sup> Property Name State JB Com		<sup>6</sup> Well No. 001
<sup>9</sup> Proposed Pool 1 Cherry Bluff; Bone Spring, 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
E	32	23S	28E		1980	N	660	W	Eddy

<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 PB	<sup>12</sup> Well Type Code Oil	<sup>13</sup> Cable/Rotary	<sup>14</sup> Lease Type Code S	<sup>15</sup> Ground Level Elevation 3113'
<sup>16</sup> Multiple N	<sup>17</sup> Proposed Depth 13058'	<sup>18</sup> Formation Bone Spring	<sup>19</sup> Contractor	<sup>20</sup> Spud Date ASAP
Depth to Groundwater 50'		Distance from nearest fresh water well >1000'		Distance from nearest surface water >1000'
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
20"	16"	65	426'	420	Surf
14-3/4"	10-3/4"	51	2444'	2850	Surf
9-1/2"	7-5/8"	33.7 & 39	9654'	2150	3250' Temn Surf

<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.

BTA proposes to cement squeeze the Brushy Canyon and Upper Bone Spring intervals, to test the Bone Spring Queen Lake interval

See Attached Procedure

There will be no pit on location. There will be a steel tank on location for this purpose.

<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 NMOCD guidelines ☐, a general permit ☐, or an (attached) alternative OGD-approved plan ☐.

Signature:



Printed name: Pam Inskeep

Title: Regulatory Administrator

E-mail Address: pinskeep@btaoil.com

Date: 05/21/07

Phone: 432-682-3753

## OIL CONSERVATION DIVISION

Approved by:

**BRYAN G. ARRANT**  
DISTRICT II GEOLOGIST

Title:

Approval Date:

JUN 06 2007

Expiration Date:

JUN 06 2008

Conditions of Approval Attached ☐

Attachment to C-101  
dated 5/21/2007

BTA Oil Producers  
State 'JB' Com. No.1  
30-015-23514

Program to Isolate Open Perfs With 4 1/2" Liner & Test Bone Spring Queen Lake Interval  
Wildcat (Bone Spring) Field  
Eddy County, New Mexico

BTA proposes to cement squeeze Brushy Canyon and Upper Bone Spring intervals, to test the Bone Spring Queen Lake interval, as follows:

1. MI & RU PU. POH w/rods & pmp. ND WH, NU BOP.
2. POH w/tbg.
3. RIH to 6,015'. Clean out sand and junk and drill out cmt and CIBP @ 6,173'.
4. Continue in hole with bit, possible CIBP at 6400'. Tag up and wash off top CIBP if it is there. POH. RIH w/impression block, tag up on CIBP, POH to confirm it is CIBP. If CIBP is present, drill it out. If CIBP is not at 6400', continue RIH.
5. Drill out cmt and CIBP at 6710'
6. Clean out to PBTD at 9011'. POH.
7. RU WL.. Set 7-5/8" CIBP at +/- 8950'.
8. Load hole with 2% KCl water.
9. Run 4-1/2" 11.6# N-80 LT&C csg w/cmt float equipment and centralizers to PBTD.
10. Cmt 4-1/2" casing in well.
11. Pressure test csg to 1000 psi.
12. Raise EOT to 8,540'. Spot 200 gallons 10% Acetic acid. POH.
13. RU WL. RIH w/CBL/GR/CCL. Correlate to Schlumberger CN-FD log dated 1/19/81. Report bonding to Midland Office.
14. Perf using 3" csg gun with 4 JSPF using premium charges at 8,504 – 8,540'.
15. Pick up pkr for 4-1/2" 11.6# csg. RIH w/pkr - set at 8200'.
16. Break down perfs. Swab to evaluate.
17. Depending on results of swab test, the well will be treated with a frac job.
18. Release pkr and POH.
  - a) If a frac treatment is scheduled. Frac well down tubing using BJ Services with 57,000 gallons of Medallion 3000 (30#) carrying 85,000 pounds 16/30 white sand and 20,000 pounds Super LC 16/30.
19. Flow and swab back to evaluate.
20. POH w/tbg & pkr.
21. RIH w/2-1/2" gas anchor, set EOT 50-80' above the top perf. Run pump and rods.
22. Place well on production.

# Tubing Detail

186 jts 2-7/8" 6.5# EUE  
 2-7/8" x 7-5/8" TAC @ 56825'  
 7 jts 2-7/8" 6.5# EUE  
 2-7/8" SN @ 5895.5'  
 2-7/8" Perf sub  
 2-7/8" EUE MAJ  
 2-7/8" Bull plug

KB = 3138.2 X-Mas Tree Top Conn.  
 GL = 3113  
 Diff = 25.2

@ 426' - 16" 65# Surf. Csg. Cmtd w/ 420 Sx Cmt Circ

@ 2444' - 10 3/4" 51# Interm Csg. Cmtd w/ 2850 Sx

TOC 3250' By Temp Survey

2-7/8" Tubing @ 5926' w/ TAC @ 5682'; SN @ 5895.5'

P  
u  
m  
p

Perfs: Delaware 5762'; 66'; 72'; 74'; 95'; 5800'; 13'; 17'; 23'; 27';  
 30'; 446'; 53'; 56'; 60'; 64 (16 Holes)

6107'

Perfs: Bone Spring 6225 - 87';

6400'

Perfs: Bone Spring 6474 - 6690';

6710'


Perfs: Bone Spring 6715 - 6964';

Proposed Bone Spring Perfs: 8504 - 8540'

9011'

@ 9654' - 7 5/8" 33.7 & 39# Prod. Csg. Cmtd w/ 2150 Sx

13058'

Revised		Producing Well		Drawn	TJW
		LEASE: 20509 JV-P State JB Comm # 1		5/9/2007	
		FIELD: Loving (Delaware)			
		LOCATION: 1980' FNL 660' FWL Sec. 32 T23S R28E		Approved	
		COUNTY: Eddy STATE: New Mexico			
		PRODUCING FORMATION: Delaware		Date	
					
		BTA Oil Producers			

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State of New Mexico  
Energy, Minerals & Natural Resources Department  
**OIL CONSERVATION DIVISION**  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

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

<sup>1</sup> API Number 30-015-23514	<sup>2</sup> Pool Code	<sup>3</sup> Pool Name Cherry Bluff Bone Springs, South
<sup>4</sup> Property Code 303446	<sup>5</sup> Property Name State JB Com	<sup>6</sup> Well Number 1
<sup>7</sup> OGRID No. 003002	<sup>8</sup> Operator Name BTA Oil Producers	<sup>9</sup> Elevation 3113'

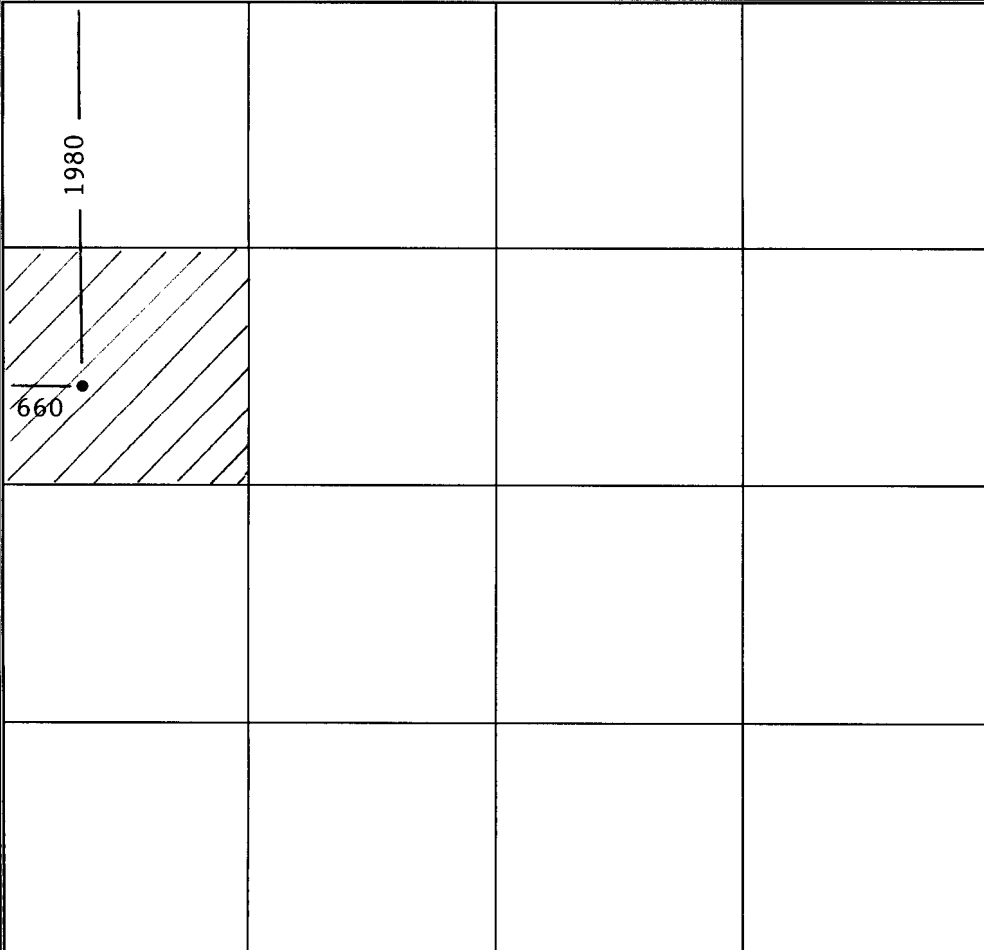
**<sup>10</sup> Surface Location**

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
E	32	23S	28E		1980	N	660	W	Eddy

**<sup>11</sup> 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
<sup>12</sup> Dedicated Acres 40	<sup>13</sup> Joint or Infill	<sup>14</sup> Consolidation Code	<sup>15</sup> Order No.						

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.

	<b><sup>17</sup> OPERATOR CERTIFICATION</b> <i>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.</i> Pam Inskeep 05/21/2007 Signature Date Pam Inskeep, Regulatory Administrator Printed Name
	<b><sup>18</sup> SURVEYOR CERTIFICATION</b> <i>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.</i> 09/27/91 Date of Survey Signature and Seal of Professional Surveyor: John W. West 676, Ronald J. Eidson 3239 Certificate Number