

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720

District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720

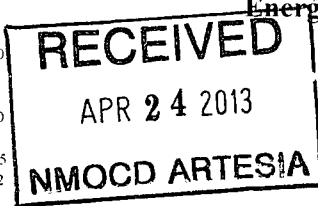
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170

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 November 14, 2012

Energy Minerals and Natural Resources



Oil Conservation Division

1220 South St. Francis Dr.

Santa Fe, NM 87505

☐ AMENDED REPORT

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

<sup>1</sup> Operator Name and Address Mewbourne Oil Company PO Box 5270 Hobbs, NM 88240		<sup>2</sup> OGRID Number 14744
		<sup>3</sup> API Number 30-015-26797
<sup>4</sup> Property Code 8418	<sup>5</sup> Property Name Ruby 30 State	<sup>6</sup> Well No. #1

<sup>7</sup> Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County
O	30	24S	29E		990'	South	1980'	East	Eddy

<sup>8</sup> Proposed Bottom Hole Location

UL - Lot	Section	Township	Range	Lot Idn	Feet from	N/S Line	Feet From	E/W Line	County

<sup>9</sup> Pool Information

Pool Name Pierce Crossing; Bone Spring, South	Pool Code 96671
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Additional Well Information

<sup>11</sup> Work Type <del>Deepen</del> RC	<sup>12</sup> Well Type O	<sup>13</sup> Cable/Rotary NA	<sup>14</sup> Lease Type State	<sup>15</sup> Ground Level Elevation 2917'
<sup>16</sup> Multiple NO	<sup>17</sup> Proposed Depth 8780'	<sup>18</sup> Formation Bone Spring	<sup>19</sup> Contractor TBA	<sup>20</sup> Spud Date ASAP
Depth to Ground water 180'	Distance from nearest fresh water well			Distance to nearest surface water 1.66 miles

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

Type	Hole Size	Casing Size	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
H40	17 1/2"	13 3/8"	48	598'	600	Surface [In Place]
K55	12 1/4"	9 5/8"	36	2760'	1500	Surface [In Place]
N80	8 3/4"	7"	23, 26, 29	10120'	275	1200' [In Place]
S95	4 1/2"	6"	13.5	13400'	770	[In Place]

Casing/Cement Program: Additional Comments

Above casing is in place. See Schematic

<sup>22</sup> Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Double Ram	3000#	3000#	Shaffer

<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 I have complied with 19.15.14.9 (A) NMAC <input type="checkbox"/> and/or 19.15.14.9 (B) NMAC <input checked="" type="checkbox"/> , if applicable. Signature:		OIL CONSERVATION DIVISION	
Printed name: Joe Bryant		Approved By:	
Title: Engineer		Title:	
E-mail Address: jrbryand@mewbourne.com		Approved Date: 4/24/2013 Expiration Date:	
Date: 4/23/2013	Phone: 575-393-5905	Conditions of Approval Attached: submit C104 & C105 upon Completion	

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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

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APR 24 2013

NMOCD ARTESIA

Form C-102  
Revised August 1, 2011  
Submit one copy to appropriate  
District Office

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-015-26797	<sup>2</sup> Pool Code 96671	<sup>3</sup> Pool Name Pierce Crossing; Bone Spring, South
<sup>4</sup> Property Code 8418	<sup>5</sup> Property Name Ruby 30 State	<sup>6</sup> Well Number #1
<sup>7</sup> OGRID No. 14744	<sup>8</sup> Operator Name Mewbourne Oil Company	<sup>9</sup> Elevation 2917

<sup>10</sup> Surface Location

UL or lot no. O	Section 30	Township 24S	Range 29E	Lot Idn	Feet from the 990'	North/South line South	Feet from the 1980'	East/West line East	County Eddy
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<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.

<sup>16</sup> 	<sup>17</sup> OPERATOR CERTIFICATION 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 Date 4/23/2013 Joe Bryand Printed Name jrbryand@mewbourne.com E-mail Address	
	<sup>18</sup> SURVEYOR CERTIFICATION 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. Date of Survey Signature and Seal of Professional Surveyor:	
	Certificate Number	

## WORKOVER PROCEDURE

Submitted By: J. Bryand

Wellname: **Ruby 30 St Com #1**

Location: 990' FSL & 1980' FEL  
Sec. 30, T24S, R29E  
Eddy County, NM

Date: 4/22/2013

Surface Csg

Size: 13 3/8" 48# H40

Intermediate

Csg Size: 9 5/8" 36# K55

Production Csg

Size: 7" 23# N80

PBTD: 5065'

Surface Csg

Set: 598' TOC @ Surface

Intermediate

Csg Set: 2760' TOC @ Surface

Production

Csg Set: 10120' TOC @ 1200'

Packer Depth:

Delaware: 3312'-14', 3351'-53', 3469'-72'  
Avalon BS: 6560'-6638', 7104'-07' (Squeezed)  
2<sup>nd</sup> BS: 8866'-8910'  
Atoka: 12148'-55' (Squeezed)  
Morrow: 12766'-13093'

Tbg Size: 2 7/8" L-80 6.5# tbg

Existing Perfs:

DV Tool: N/A

New Perfs:

BS: 7457'-7468'

### Procedure:

- 1) Test Anchors.
- 2) MIRU WS rig & rental equipment.
- 3) ND wellhead & NU 3k manual BOP.
- 4) POOH w/tbg
- 5) RIH w/7" csg scraper & tbg to 3300'. POOH w/tbg
- 6) RIH w/7" cmt retainer & tbg to 3250'.
- 7) Set retainer @ 3250'. Pressure up annulus to 500#.
- 8) Establish injection rate into perfs. MIRU cmt pump.
- 9) Squeeze perfs from 3312'-3472' w/100 sks Class C cmt w/Additives & 100 sks Class C Neat cmt.
- 10) POOH w/tbg & stinger.
- 11) RIH w/6 1/8" bit, bit sub, DC's, & tbg.
- 12) Tag TOC. Drill cmt retainer & cmt.
- 13) Circulate hole clean & test squeezed perfs to 500# for 30 mins.
- 14) If squeeze holds. RIH & Drill 35' cmt & CIBP @ 5100'.
- 15) RIH & tag cmt & 6475'. Circulate hole clean & test to 500# for 30 mins.
- 16) Drill 35' cmt & CIBP @ 6510'. Circulate hole clean. POOH w/tbg.
- 17) RIH w/7" csg scraper & tbg to 6525'. POOH w/tbg
- 18) RIH w/7" cmt retainer & tbg to 6500'.
- 19) Set retainer @ 6500'. Pressure up annulus to 500#.
- 20) Establish injection rate into perfs. MIRU cmt pump.
- 21) Squeeze perfs from 6560'-6638' w/100 sks Class H cmt
- 22) POOH w/tbg & stinger.
- 23) RIH w/6 1/8" bit, bit sub, DC's, & tbg.
- 24) Tag TOC. Drill cmt retainer & cmt. Test squeezed holes to 500# for 30 mins.
- 25) If squeeze holds, RIH & Tag TOC @ 6967'
- 26) Drill cmt down to TOC @ 8780' (PBTD).
- 27) Circulate hole clean & test to 500# for 30 mins
- 28) POOH & LD bit, bit sub, & DC's.
- 29) MIRU WL truck. RIH w/3 1/8" slick guns & perforate **1<sup>st</sup> Bone Spring Sand @ 7457'-68' (13', 2 SPF, 26 holes)**. Guns loaded w/.38" EHD, 120° phasing, 23 GC, & 36" penetration.
- 30) RDMO WL truck.
- 31) RIH w/3 1/2" x 7" pkr, 3 1/2" rental tbg to 7350'.
- 32) MIRU Frac Company. **Frac 1st Bone Spring Sand @ 7457'-68' w/5000 gals Slickwater, 10000 gals 20# Linear, & 60000 gals 20# X-Link carrying 90000# 20/40 White Sand & 40000# SB Excel Sand into formation.** Flush to perfs w/slickwater. RDMO Frac Company. SWI for 24 hrs for resin coated sand to cure. Flow well back.
- 33) Evaluate Artificial Lift

Mewbourne Oil Company

Well Name: Ruby 30 State Com #1 - Current Schematic

Updated by: J. Bryand

Spud Date: 8/08/1991

Date Updated: 4/22/2013

**Surface**  
13 ½" 48#  
Set @ 598'  
400 sks "Lite C" +  
200 sks "C" (88 sks to pit)  
**Intermediate**  
9 ¾" 36# K-55  
Set @ 2,760'  
1300 sks 65/35 Poz Mix + 200 sks "C"  
(276 sks to pit)

Top of Delaware @ 2770'

**Production**  
7" 23#, 26#, 29#, 32# N-80 & S-95  
Set @ 10,120'  
275 sks 50/50 Poz Mix "H"  
TOC @ 1200'

CIBP Set @ 5100' (capped w/35' cmt)

Top of Bone Spring @ 6491'

CIBP Set @ 6,510' (capped w/35' cmt)

CIBP Set @ 8,800' (capped w/35' cmt)

CIBP Set @ 9200' (capped w/35' cmt)

**Liner**  
4 ½" 13.5# S-95  
Set @ 13,400'  
TOL @ 9,716'  
400 sks Premium H,  
Squeezed w/370 sks Premium H  
CIBP Set @ 12,216' (capped w/35' cmt)

TD @ 13,400'

Delaware Perfs

3,312' - 3,314'  
(2')  
3,351' - 3,353'  
(2')  
3,469' - 3,472'  
(3')

Avalon Bone Springs Perfs

6,560' - 6,638'  
(78')  
7,104' - 7,107' (Perf Squeezed)  
(3') TOC inside 7" @ 6976'

2nd Bone Springs Perfs

8,866'-8910'  
(44') 45 holes

Atoka Perfs (Squeezed cmt)

12,148' - 12,155'  
(7') 29 holes

Morrow Perfs

12,766' - 13,093'  
(327')

8/9/1991	Drilled 17 ½" hole to 598'. Ran 14 jts of 13 ½", 48# casing set at 598'.
	Cemented with 400 sks Lite C, tailed in with 200 sks Class C. Circulated 88 sks to pit
8/16/1991	Drilled 12 ¼" hole to 2,760'. Ran 64 jts 9 ¾", 36#, K-55 casing set at 2,760'. Cemented with 1300 sks 65/35 Poz Mix, tailed in with 200 sks Class C. Circulated 276 sks to pit.
9/1/1991	Drilled 8 ¾" hole to 10,120'. Ran 241 jts 7", 23#, 26#, 29#, and 32#, N-80 and S-95 casing set at 10, 120'. Cemented with 275 sks 50/50 Poz Mix 'H'.
10/10/1991	Drilled 6" hole to 13,400'. Ran 83 jts of 4 ½", 13.5#, S-95 liner set @ 13,400'. Cemented with 400 sks Premium 'H'. Set retainer at 9,540' and squeezed top of liner with 370 sks Premium 'H'. Reversed out 14 sks.
11/5/1991	Perforated Atoka with 1-11/16" thru tubing gun from 12,148' - 12,155', 4SPF, 29 holes.
2/1/1996	Squeeze cement existing Atoka perfs 12, 148' - 12, 155'. Perforate Morrow formation 12, 766' - 13,093'.
11/20/1996	Set CIBP with 35' cement at 12, 216'. Set CIBP at 9,200' with 35' cement. Perf Bone Spring from 8,866' - 8,910' with 1 SPF with 4" csg gun (45 holes). Frac Bone Spring perfs 8,866' - 8,910'.
11/19/2003	Set CIBP with 10' cement 8,800'. Perf squeeze holes at 7,104' - 7,107'. TOC in 7" at 6,976'. TOC between 7" and 9 ¾" at 1,200'.
12/1/2003	Perf the Avalon Bone Spring formation from 6,560' - 6,638'.
12/3/2003	Treat perfs with 3000 gal 15% HCL.
12/11-16/2003	Frac Avalon Bone Spring perfs.
	Missing paperwork on drill out of CIBP at 8,800'
2/1/2011	Set CIBP with 35' cement at 8,816'. Set CIBP with 35' cement at 6,510'. Set CIBP with 35' cement at 5,100'. Perf at 3,312' - 3,314'; 3,351' - 3,353'; 3,469' - 3,472'. 4 SPF (40 holes). Acidize perfs with 3000 gal 15% HCL. Frac perfs with 145,000# sand and 105,000 gal gel.
3/1/2011	PU and RIH with 109 jts 2 ¼" 6.5# J-55 Tbg (3,340').

Tubing Detail:

109	2 ¼" 6.5# J-55 Tbg	3,440'
	Tubing Set @	3,440'

Mewbourne Oil Company

Well Name: Ruby 30 State Com #1 - Proposed Schematic  
Updated by: J. Bryant

Spud Date: 8/08/1991

Date Updated: 4/22/2013

**Surface**  
13 3/4" 48#  
Set @ 598'  
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**Intermediate**  
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Top of Delaware @ 2770'

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TOC @ 1200'

Top of Bone Spring @ 6491'

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**Liner**  
4 1/2" 13.5# S-95  
Set @ 13,400'  
TOL @ 9,716'  
400 sks Premium H,  
Squeezed w/370 sks Premium H  
CIBP Set @ 12,216' (capped w/35' cmt)

TD @ 13,400'

<b>Delaware Perfs</b>		
3,312' - 3,314'	Squeezed	(2')
3,351' - 3,353'		
3,469' - 3,472'	Squeezed	(3')

<b>Bone Springs Perfs</b>		
6,560' - 6,638'	Squeezed	(78')
7,104' - 7,107'		
7,457' - 7,468'	Squeezed	(13')

<b>2nd Bone Springs Perfs</b>		
8,866' - 8910'	Squeezed	(44) 45 holes

<b>Atoka Perfs (Squeezed cmt)</b>		
12,148' - 12,155'	Squeezed	(7') 29 holes

<b>Morrow Perfs</b>		
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	at 5,100'. Perf at 3,312' - 3,314'; 3,351' - 3,353'; 3,469' - 3,472'. 4 SPF (40 holes). Acidize perfs
	with 3000 gal 15% HCL. Frac perfs with 145,000# sand and 105,000 gal gel.
3/1/2011	PU and RIH with 109 jts 2 7/8" 6.5# J-55 Tbg (3,340').

<b>Proposed TBG Detail:</b>		
1	2 7/8" MJ w/BP	32.00
1	2 7/8" Sand Screen	24.00
1	2 7/8" SN	1.10
1	2 7/8" 6.5# L80 Tbg	32.52
1	7" x 2 7/8" TAC (30k Shear)	2.50
238	2 7/8" 6.5# L80 Tbg	7497.00
Total Tbg		7589.12
KB Corr		19.00
EOT @		7608.12

<b>Proposed Rod Detail:</b>		
1	2 1/2" x 1" x 24' RHBC pump w/41' GA	24.00
28	3/4" T-66 Steel Rods	700.00
182	3/4" T-66 Steel Rods	4550.00
93	3/4" T-66 Steel Rods	2325.00
1	1 1/2" x 26' PR w/1 3/4" x 16' PRL	16.00
Total Rods		7615.00