

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  
June 16, 2008

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FEB 28 2011

HOBBSCOCD

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 Chesapeake Operating, Inc. P.O. Box 18496 Oklahoma City, OK 73154-0496		<sup>2</sup> OGRID Number 147179
		<sup>3</sup> API Number 30 - 025-29138
<sup>3</sup> Property Code 38288	<sup>5</sup> Property Name Carter-Shipp Strawn Unit	<sup>6</sup> Well No. 3
<sup>9</sup> Proposed Pool 1 Lovington; Upper Penn., Northeast		<sup>10</sup> Proposed Pool 2

**Surface Location**

UL or lot no A.	Section 28	Township 16S	Range 37E	Lot Idn	Feet from the 810'	North/South North	Feet from the 660'	East/West line East	County Lea
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**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
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**Additional Well Information**

<sup>11</sup> Work Type Code E	<sup>12</sup> Well Type Code O	<sup>13</sup> Cable/Rotary R	<sup>14</sup> Lease Type Code P	<sup>15</sup> Ground Level Elevation 3788' GR
<sup>16</sup> Multiple No	<sup>17</sup> Proposed Depth PBSD-11,700'	<sup>18</sup> Formation Strawn	<sup>19</sup> Contractor TBD	<sup>20</sup> Spud Date ASAP

**Current Casing and Cementing of Well-bore**

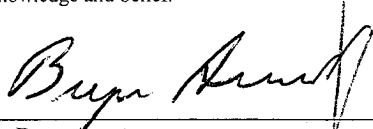
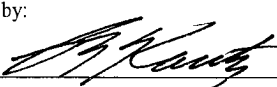
Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	54.5 # & 60#	358'	360 sxs	0'
11"	8 5/8"	24# & 32 #	4200'	2175 sxs	0'
7 7/8"	5 1/2"	17 # & 20#	11592'	300 sxs	10550'

<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.

Please find our procedure to re-enter and convert this well to production; current and proposed well bore diagram, NMOCD's C-102, and C-144(CLEZ) pit permit. (R-13196)

Chesapeake Operating, Inc. will provide to the NMOCD's District I office 24 hours notice prior to spud.  
Please note that the well's current status: "Plugged, Site Released".

Permit Expires 2 Years From Approval  
Date Unless Drilling Underway  
Re-Entry

<sup>23</sup> I hereby certify that the information given above is true and complete to the best of my knowledge and belief.		OIL CONSERVATION DIVISION	
Signature: 	Approved by: 		
Printed name: Bryan Arrant	Title: PETROLEUM ENGINEER		
Title: Sr. Regulatory Compliance Specialist	Approval Date: MAR 01 2011	Expiration Date:	
E-mail Address: bryan.arrant@chk.com			
Date: 02/25/2011	Phone: 405.935.3782	Conditions of Approval Attached <input type="checkbox"/>	

CoA

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State of New Mexico  
Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505  
**RECEIVED**  
FEB 28 2011  
HOBBSOCD

Form C-102  
Revised July 16, 2010  
Submit one copy to appropriate  
District Office  
☐ AMENDED REPORT

### WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-025-29138	<sup>2</sup> Pool Code 40760	<sup>3</sup> Pool Name Lovington; Upper Penn., Northeast
<sup>4</sup> Property Code 38288	<sup>5</sup> Property Name Carter- Shipp Strawn Unit	<sup>6</sup> Well Number 3
<sup>7</sup> OGRID No. 147179	<sup>8</sup> Operator Name Chesapeake Operating, Inc.	<sup>9</sup> Elevation 3788' GR

#### <sup>10</sup> Surface Location

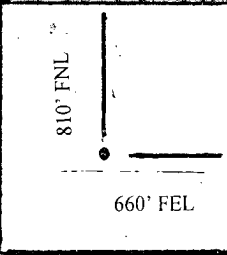
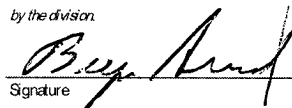
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	28	16S	37E		810'	North	660'	East	Lea

#### <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. R-13196
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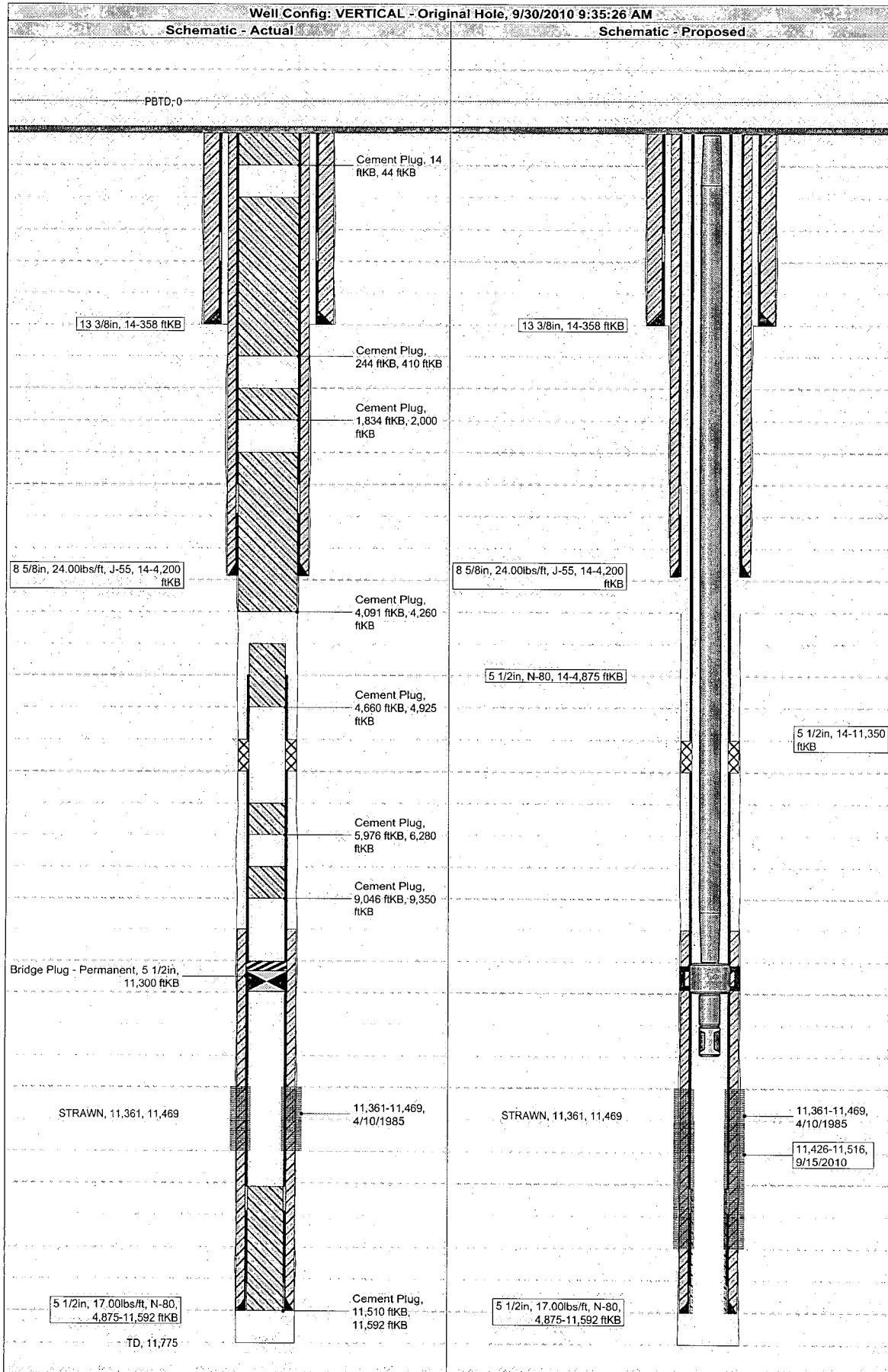
No allowable will be assigned to this completion until all interests have been consolidated or a non-standard unit has been approved by the division.

<sup>16</sup>		<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 Bryan Arrant Printed Name bryan.arrant@chk.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:  Please Refer to Original Plat  Certificate Number



# Proposal Schematic

## CARTER-SHIPPI STRAWN UNIT 3



**Carter-Shipp Strawn Unit 3 (Carter 1)**  
**Sec. 28-T16S-R37E, 810' FNL & 660' FEL**  
**Lea County, NM**  
**API #3002529138**



**Re-enter and Convert to Producer**

**Well Data**

Casing: 8-5/8" 24# & 32# J-55 @ 4,200'  
5-1/2" 17# & 20# N-80 @ 4,875' - 11,592'  
TD: 11,775'  
PBSD: Surface  
Elevation: 3,802' KB 3,788' GL  
Tools: 5-1/2" CIBP set @ 11,300' w/ 6 sx of cmt on top  
Plugged: October 1997

Current Perforations:  
Strawn 11,361' – 469' w/ 1 SPF (4/10/85)

Proposed Perforations:  
Strawn 11,426' – 516' (90')

**Tubular Specifications**

SIZE	WEIGHT	GRADE	BURST	COLLAPSE	YIELD	DRIFT (ID/OD)	CAPACITY (FT./GAL)	CAPACITY (FT./BBL)
2-7/8"	6.5#	L-80	10570 psi	11160 psi	145K	2.347" / 3.094"	4.1135	172.76
5.5"	17# & 20#	N-80	7740 psi	6280 psi	348K	4.653" / 6.050"	1.0242	43.01
8-5/8"	24# & 32#	J-55	2950 psi	1370 psi	244K	7.796" / 9.625"	0.3738	15.70

**Procedure**

1. Dig out casing and secure casing stub. MIRU PU. NU BOP. Unload, rack and tally 2 7/8" L-80 workstring.
2. RIH w/ 7 5/8" bit and drill collars on tbg. Drill out cement plugs to top of 5.5" casing stub @ 4,875'. TOH. LD bit & collars.
3. TIH. Dress top of 5.5" csg @ 4,875'. TOH. PU cmt bowl and 5.5" N-80 csg. TIH. Land and set at 4,875'. Pressure test 5.5" csg.
4. PU 4 5/8" bit and drill collars. Drill out cement plugs. Tag CIBP & 100' cmt @ +/- 11,300'. Pressure test 5.5" csg.
5. Drill out CIBP & 100' cmt @ +/-11,300'. Clean out to PBSD of +/- 11,700'. TOH. LD bit & collars.
6. RU wireline company. Correlate and perforate Strawn from 11,426 – 516'. Total of 90' @ 3 SPF with 3-1/8" guns, 60 degree phasing, 0.42" holes, and 22.7 grams per shot. RD wireline company.
7. PU 5.5" packer. TIH. Set packer within 100' of top Strawn perforation @ 11,361'.
8. RU acid company. Acidize Strawn w/ 7,500 gal of 15% HCL. Pump @ 5-6 BPM staging 400 balls evenly throughout job. Displace acid to the EOT & overflush w/ a tbg volume (Approximately 65 BBLS). RD acid company. Swab back balls. Release packer. TOH. LD packer & workstring.
9. Unload, rack and tally 2-7/8" L-80 production string. PU mud anchor, perforated sub, SN, and TAC. TIH. Set TAC @ +/- 11,300'. Set SN @ +/- 11,550'. Run pump & rods. RD PU.