

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

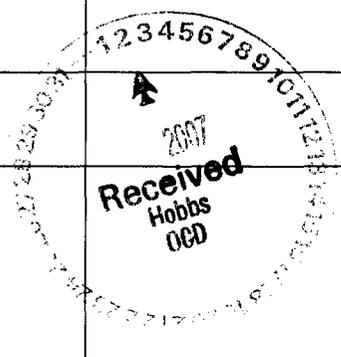
State of New Mexico  
Energy Minerals and Natural Resources  
Oil Conservation Division  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

**RECEIVED**  
Form C-107  
Revised June 10, 2003  
MAR 19 2007  
Filing Instructions  
Bottom of Page

APPLICATION FOR MULTIPLE COMPLETION

Chesapeake Operating, Inc. 2010 Rankin Hiway Midland, TX 79701  
Operator Address  
Sims 13 State 1 L 13 20S 35E Lea  
Lease Well No. Unit Ltr. - Sec - Twp - Rge County

All applicants for multiple completion must complete Items 1 and 2 below.			
1. The following facts are submitted:	Upper Zone	Intermediate Zone	Lower Zone
a. Name of Pool and Formation	Featherstone, Bone Spring, East 24270		Osudo; Morrow, West (Gas) 82240
b. Top and Bottom of Pay Section (Perforations)	9982 - 9998		12788 - -12949
c. Type of production (Oil or Gas)	Oil		Gas
d. Method of Production (Flowing or Artificial Lift)	Pumping		Flowing
e. Daily Production <input checked="" type="checkbox"/> Actual <input type="checkbox"/> Estimated Oil Bbls. Gas MCF Water Bbls.	Oil 252' Gas 443 Water 107		Oil 12 Gas 570 Water 8



2. The following must be attached:
- Diagrammatic Sketch of the Multiple Completion, showing all casing strings, including diameters and setting depths, centralizers and/or turbolizers and location thereof, quantities used and top of cement, perforated intervals, tubing strings, including diameters and setting depth, location and type of packers and side door chokes, and such other information as may be pertinent.
  - Plat showing the location of all wells on applicant's lease, all offset wells on offset leases, and the names and addresses of operators of all leases offsetting applicant's lease.
  - Electrical log of the well or other acceptable log with tops and bottoms of producing zones and intervals of perforation indicated thereon. (If such log is not available at the time application is filed it shall be submitted as provided by Rule 112-A.)

**OPERATOR:**  
I hereby certify above information is true and complete to best of my knowledge, and belief.

Signature Brenda Coffman  
Printed Name & Title Brenda Coffman Sr. Regulatory Comp. Specialist  
E-mail address bcoffman@chkenergy.com  
Date 01/15/2007 Telephone (432)687-2992

**OIL CONSERVATION DIVISION**  
Approved by Chris Williams  
Title OC DISTRICT SUPERVISOR/GENERAL MANAGER  
Date APR 02 2007

NOTE: If the proposed multiple completion will result in an unorthodox well location and/or a non-standard proration unit in one or more of the producing zones, then separate application for approval of the same should be filed simultaneously with this application.

- FILING INSTRUCTIONS:**
- District Approval -- See rule 112-A-B -- Submit 4 copies of Form C-107 with attachments to appropriate district office.
  - Division Director Administrative Approval -- See Rule 112-C -- Submit 2 copies of Form C-107 with attachments to Division office in Santa Fe and 2 copies of Form C-107 with attachments to appropriate district office.
  - Multiple completions not qualifying for District or Division Director approval may be set for hearing as outlined in Rule 112-A-E.



**Midland Field Office**

SIMS 13 STATE #1  
SECTION 13, T20S, R35E  
LEA COUNTY, NEW MEXICO

APPLICATION FOR DUAL COMPLETION  
ATTACHMENT TO C107

**LIST OF OFFSET OPERATORS**

POGO PRODUCING CO.  
300 N. MARIENFELD ST.  
MIDLAND, TX 79701

BTA OIL PRODUCERS  
104 S. PECOS  
MIDLAND, TX 79701

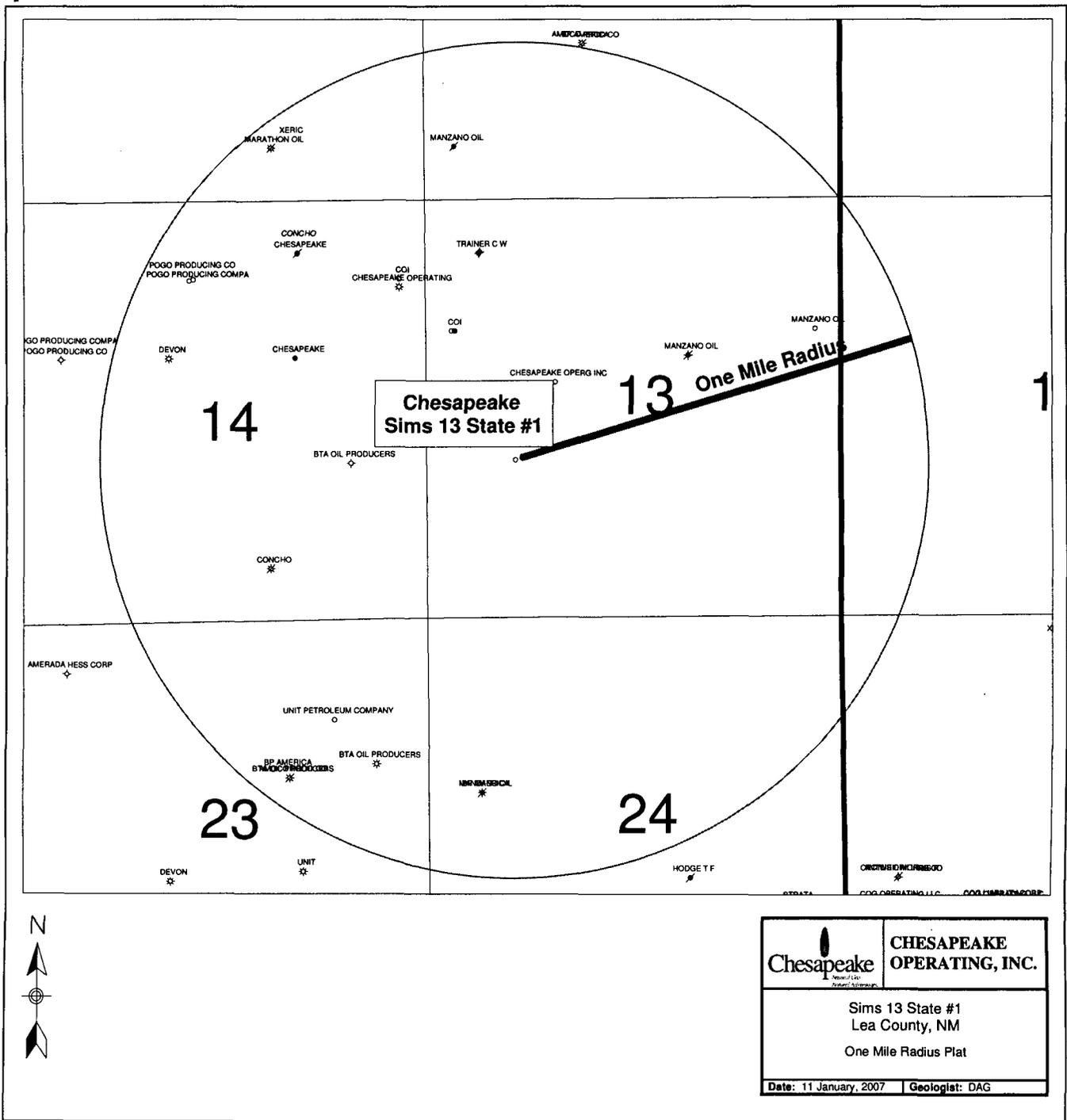
UNIT PETROLEUM COMPANY  
P O BOX 2107  
407 N. BIG SPRING  
MIDLAND, TX 79701

BP AMERICA PRODUCTION COMPANY  
600 N. MARIENFELD  
MIDLAND, TX 79701

DEVON ENERGY CORPORATION  
20 N. BROADWAY  
OKLAHOMA CITY, OK 73102-8260

XERIC OIL & GAS CORP.  
P O BOX 352  
MIDLAND, TX 79702

MANZANO LLC  
P O BOX 2107  
ROSWELL, NM 88203



# CURRENT WELLBORE SCHEMATIC

CHESAPEAKE OPERATING, INC



WELL : SIMS 13 STATE 1  
 FIELD : OSUDO W. (MORROW) FIELD  
 COUNTY : LEA STATE : NM  
 LOCATION : 1,980' FSL & 1,140' FWL Sec 13, T20S, R35E  
 ELEVATION : GL 3,660' KB 3,680'

API #: 30-025-37294  
 SPUD DATE: 6/13/06  
 RIG RELEASE: 8/05/06  
 FIRST SALES: (Morrow) 8/31/06  
 FIRST SALES:(Bone Sp)9/17/06  
 CHK #: 819652

HOLE SIZE



**13-3/8" 48# H-40 STC Surf Csg @ 448'**  
 Cmt: Lead w/ 300 sx Class "C" + 4% Bentonight = 2% CaCl<sub>2</sub>, 13.50 ppg & 1.74 yld.  
 Tail w/ 100 sx Class "C" = 2% CaCl<sub>2</sub>, 14.80 ppg & 1.35 yld. Circ 141 sx to surface.

TOC @ 900' (CBL)

**Tubing detail as of 10/01/06:**  
 1 2-1/16" Tub Sub  
 314 2-1/16" N-80  
 1' 2-3/8" N-80 Tub Sub  
 1' 2-1/16" Parallel Anchor 8 rd  
 82 2-1/16" N-80  
 2-3/8" Baker On-Off w/ 1.50 F  
 1 2-3/8" Baker Hornet  
 1 2-3/8" Tub Sub  
 1 2-3/8" SN @ 12,711'  
 1 2-3/8" Tub Sub EOT @ 12,715'

**9-5/8" 40# J-55 LTC Inter Csg @ 4,024'**  
 Cmt: Lead w/ 1,200 sx Class "C" w/50/50/10, 12.50 ppg & 2.0 yld.  
 Tail w/ 200 sx Class "C", + 1% CCl<sub>2</sub>, 14.8 ppg & 1.34 yld. Circ 500 sx to surf.

**Tubing detail as of 10/06/06:**  
 1 2-3/8" L-80 8 RD  
 317 2-3/8" L-80 8 RD  
 2-3/8" SN @ 10,057'  
 2-3/8" PS  
 2-3/8" Tub Sub  
 2-3/8" Baker J-latch EOT @ 10,070'

**Rod string detail as of 10/25/06:**  
 1-1/2" x 26' SM polish rod  
 7/8" x 8' rod sub  
 1' lift sub  
 14 1-1/2" x 25' K-bars  
 250 3/4" N97 rods  
 136 7/8" N97 rods  
 2" x 1-1/2" x 30' RHBM pmp

DV Tool @ 8,992'

Perf Bone Springs @9,982-998' w/ 4 spf (65 holes)

TOL @ 11,008'

**7" 26# P-110 LTC Prod. Csg @ 11,200'**

Cmt: 1<sup>st</sup> Stage w/ 255 sx 15/61/11 (Fly Ash) Class "C" +4%bwoc Sodium Chloride + 0.5% bwoc FL-25 + 0.6%bwocFL-52+0.1% bwocSodium Metasilicate + 0.1% bwoc R-21 + 79.4% Fresh wtr., 13.20 ppg & 1.62 yld.  
 2nd Stage Lead w/ 700 sx 50/50 Class "H" + 10%bwoc Bentonite + 0.5% bwocFL-25 + 0.08% bwocASA-301+0.3%bwoc R-21+125.6% Fresh wtr., 11.90 ppg & 2.23 yld.  
 Tail w/ 200 sx Class "H", 15.6 ppg & 1.18 yld.

Perf Morrow @12,788-949' OA w/ 2 spf (39 holes)

**4-1/2" 15.1# P-110 LTC Liner @ 13,980'**

Cmt: w/ 200 61/15/11 Class "C" POZ (Fly Ash) CSE-2 + 0.7% FL-25 + 0.1% Sodium Metasilicate + 0.7% FL-52 + 5.0% Salt (3.48 pps + 0.2% R-21, 13.20 ppg & 1.64 yld.

TD 13,080'  
 PBSD 12,991'

**Well History:**  
 Completion

**8/16/06:** Pickle tbg w/ 500 gals 15% HCL, rev out, @ 1 BPM, dsplace hole w/ 440 bbbs 7% KCL wtr w/ additives.  
**8/23/06:** Perf Morrow @ 12,788-794, 849-853, 906 909, 924-926 & 947-949', w/ 2 spf & 39 shots. Acdz perms w/ 2500 gals 7-1/2% HCL w/ additives + 60 7/8" ball sealers to divert.  
**8/29/06:** Frac Morrow w/ 40# 70Q foam in 7 stages, 25# - 2#, 18/40 Ultraprop 36,000# proppant, 154 tons CO<sub>2</sub> & 420 BW, ISDP 5715#, 5 min 5553#, 10 min 5510#, 15 min 5483#, avg rate 37 BPM, avg PSI 10,000#, 1.5 hrs SICP 5350#, flow 148 BW & 0 BO in 9.5 hrs on 20/64", FCP 680#, est rate 1,661 MCFPD, 75% CO<sub>2</sub>.  
**8/31/06:** est rate 1,661 MCFPD, 75% CO<sub>2</sub>.  
**9/15/2006:** Run GR/CBL/CCL TOC @ 900'. Perf Bone Springs @ 9982'-9998' w/ 4 jspf, 65 shots.  
**9/16/06:** Acdz Bone Springs w/ 2,300 gals 15% NeFe HCL in 1 stage + 100 - 7/8" ball sealers to divert 5 BPM, 5 BPM, 5 BPM @ 5038#, 4650#, 5800#, ball off, surge off balls, finish flush. First Sales on 9/17/06.  
**9/23/06:** Flow 24 hrs on 21/64", 88 BO, 25 BW, rate 1205 MCFPD, FTP 650#.  
**10/01/06:** RIH w/ 2-1/16" tbg. POOH w/ tbg & on-off took, found pieces of rubber in on-off tool.  
**10/04/06:** RIH w/ 2-1/16" tbg & parallel anchor to 12,694'. Set plug in pkr and finished running tbg.  
**10/06/06:** RIH w/ 2-3/8" tbg to 9,980'. ND BOP, latch into parallel anchor, land short side hanger.  
 10/10/06: Build wellhead on Morrow side. Swab Bone Springs side, swab 0 BO & 60 BW in 6.5 hrs. FI 7,500' & steady, last hr, 0 BO, 11 BW, SIW.  
**10/11/06:** Flow Morrow 16 BW & 6 BO in 2.5 hrs dwn sales line & to tank battery, tbg loaded up w/wtr, open to test tank on wide open choke, FTP 50#, flow 36 BW & 0 BO in 6 hrs, swab Bone Springs 93 BW & 0 BO in 10 hrs, FL 7,500' and steady, last hr, 9 BW & 0 BO, SIW.  
**10/22/06:** Set Darco/LS C640-365-168 pmp unit. Set stub pole & control panel, hook up elec.  
**10/25/06:** RIH w/ pmp & rods place to flow line.  
**10/31/06:** Morrow 24 hrs on 18/64", 13 BO 8 BW, 583 MCFG, TP 400#, CP 0#. Bone Springs 24 hrs, 22 BO, 138 BW, 315 MCFG, TP 280#, CP 70#.

PREPARED BY: Renee Thomas  
 UPDATED BY:

DATE: 8/08/06 / 9/08/06  
 DATE: JGF