Powell, Brandon, EMNRD

30-045-26173

From: Powell, Brandon, EMNRD
Sent: Tuesday, December 11, 2012 3:46 PM
To: 'Ray_Martin@xtoenergy.com'; bill@apluswell.com; alsuparabians@aol.com
Cc: Paul_Lehrman@xtoenergy.com; Perrin, Charlie, EMNRD; Sherry_Morrow@xtoenergy.com; Kristen_Lynch@xtoenergy.com
Subject: RE: Revised Pollock Gas Com D #1 P&A procedure

You are approved with the proposed changes as discussed in the 11/27/12 meeting.

Thank You
Brandon Powell
I & E Supervisor
New Mexico Oil Conservation
Office: (505) 334-6178 ext. 116

"He who wishes to gain knowledge is wiser than he who thinks he has knowledge (unknown)"

From: Ray_Martin@xtoenergy.com [mailto:Ray_Martin@xtoenergy.com]
Sent: Monday, December 10, 2012 4:11 PM
To: Powell, Brandon, EMNRD; bill@apluswell.com; alsuparabians@aol.com
Cc: Paul_Lehrman@xtoenergy.com; Perrin, Charlie, EMNRD; Sherry_Morrow@xtoenergy.com; Kristen_Lynch@xtoenergy.com
Subject: Revised Pollock Gas Com D #1 P&A procedure

Brandon, Kim & Bill

Attached is the revised P&A procedure & Wellbore Diagrams reflecting the changes agreed to on our meeting on Nov 27, 2012.

Ray Martin
XTO Energy, Inc. an ExxonMobil Subsidiary
San Juan District Office, Western Division
382 CR 3100
Aztec, NM 87410
505-333-3100 (O) / 505-333-3151 (D)
505-320-8550 (C)

PLUG AND ABANDONMENT PROCEDURE

December 2, 2012

Pollock Gas Com D #1

Otero Chacra
1850' FSL & 990' FEL, Section 28, T29N, R10W, San Juan County, New Mexico
API 30-045-26173 / Lat: 36.69397 / N Long: 107.88529 W

AFE #/Acct #:	904401 / 70866
Surf csg:	8-5/8", 24#, K-55 CSG @ 296'. CMT to surf.
Prod Csg:	4-1/2", 10.5#, J-55 csg @ 3,100'. TOC @ 410'.
	Capacity: 0.0159 bpf or 0.0895 CFpf
PBTD:	3,060'
Perfs:	2,796' - 2,818' & 2,886' - 2,908' (Chacra)
Tbg :	90 jts 2-3/8", 4.7#, J-55, EUE tbg. SN @ 2,896'. EOT @ 2,898'.
Rods:	None

Note: All cement volumes use 100% excess outside pipe and 50' excess inside. The stabilizing wellbore fluid will be 8.3 ppg, sufficient to balance all exposed formation pressures. All cement will be Class B, mixed at 15.6 ppg with a 1.18 cf/sx yield.

1. This project requires the Operator to obtain an approved NMOCD C-144 CLEZ Closed-Loop System Permit for the use of an A-Plus steel tank to handle waste fluids circulated from the well and cement wash up.

2. Install and test location rig anchors. Comply with all NMOCD, BLM, and Operator safety regulations. MOL and RU daylight pulling unit. Conduct safety meeting for all personnel on location. Record casing, tubing and bradenhead pressures. NU relief line and blow down well. Kill well with water as necessary and at least pump tubing capacity of water down the tubing. ND wellhead and NU BOP. Function test BOP.

3. Rods: Yes ____, No __X__, Unknown _____
   Tubing: Yes __X__, No ____, Unknown _____, Size __1.25"____, Length __2033'___.
   Packer: Yes ____, No __X__, Unknown _____, Type _____.
   If well has rods or a packer, then modify the work sequence in Step #2 as appropriate. Round trip 4.5" casing scraper to 2750"

4. **Plug #1 (Chacra perforations and top, 2746' to 2596'):** TIH and set 4.5" cement retainer at 2746'. Load 4.5" casing with water and circulate well clean. Pressure test casing to 1000#. *If the casings do not test, then spot or tag subsequent plugs as appropriate.* Mix 16 sxs Class B cement set a plug inside the casing above the CR to isolate the Chacra interval. TOH and LD stetting tool.

5. **Plug # 2 (Pictured Cliffs and Fruitland tops, 1830' to 1520'):** TIH with tubing to 1830' and spot 28 sxs Class B cement inside the casing to cover the Pictured Cliffs and Fruitland tops. TOH to 820'.

6. **Plug #3 (Kirtland Ojo Alamo tops, 820' to 410'):** Mix and spot 35 sxs Class B cement, inside the casing to cover the Kirtland and Ojo Alamo interval. PUH to 380' and reverse circulate the well clean. TOH with tubing.

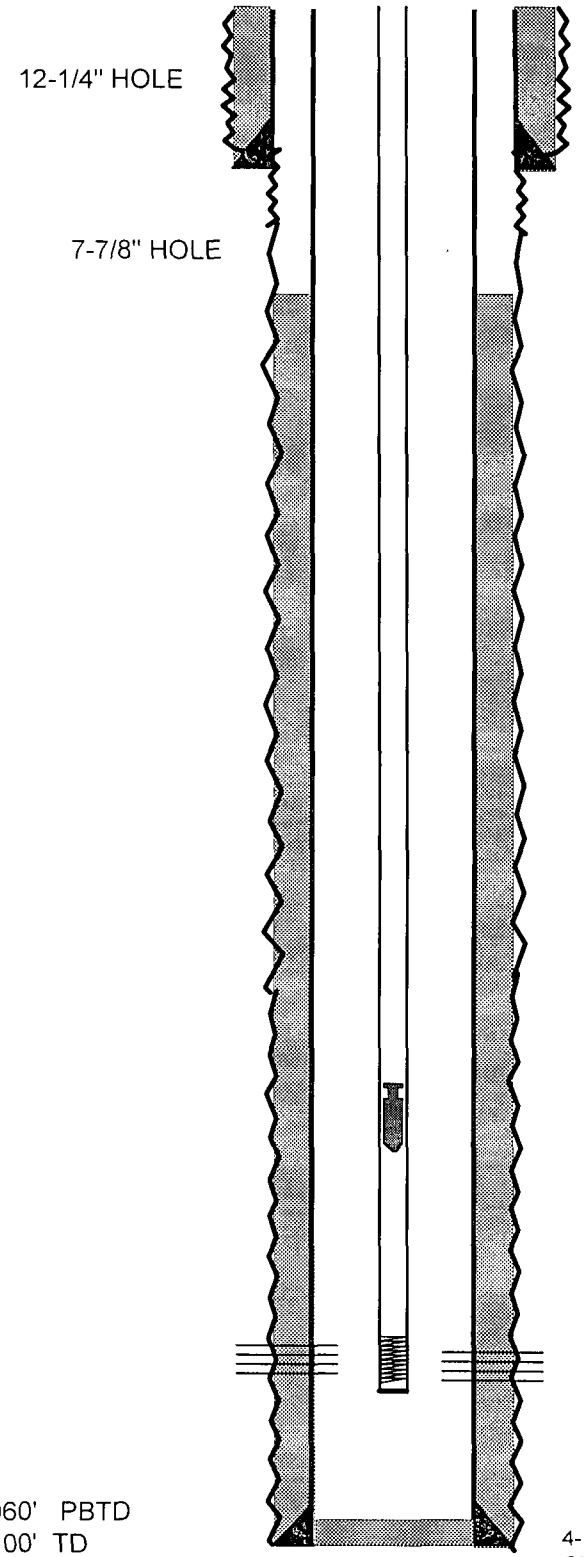
   Note: there is a spring feeding the nearby pond and the following surface plugs are designed to protect the ground water.

7. **Plug #4 (Surface casing shoe, 346' to 240'):** Perforate 3 squeeze holes at 346'. Attempt to establish rate into squeeze holes if the casing pressure tested. Set a 4.5" cement retainer at 240'. Establish rate into squeeze holes. Mix and pump 53 sxs Class B cement, squeeze all the cement below the CR with 44 sxs into the 4.5" x 7.875" and bradenhead annuli and 8 sxs filling the 4.5" casing. Sting out of the cement retainer and reverse circulate the casing clean at 240'. WOC this plug overnight.

8. **Plug #5 (Surface plug, 100' to Surface)**: Pressure test the 4.5" casing to 500 PSI and the bradenhead annuls to 300 PSI. If these tests are not positive, then modify the plugging procedure as appropriate. If both tests are good, then perforate 3 HSC holes at 100'. Mix and pump approximately 35 sxs cement down the 4.5" casing until good cement returns out the bradenhead. Shut in well and WOC.

9. ND BOP and cut off wellhead below surface casing flange. Install P&A marker with cement to comply with regulations. RD, MOL and cut off anchors. Restore location per BLM stipulations.

Pollock GC D #1
Current Wellbore Diagram



12-1/4" HOLE

7-7/8" HOLE

GL: 5,517'
KB: 5,533'
KB CORR: 16'

8-5/8", 24#, K-55 CSG SET @ 296'
CMT'D W/250 SX (385 CU FT)
CIRC 5 BBLS CMT TO SURF

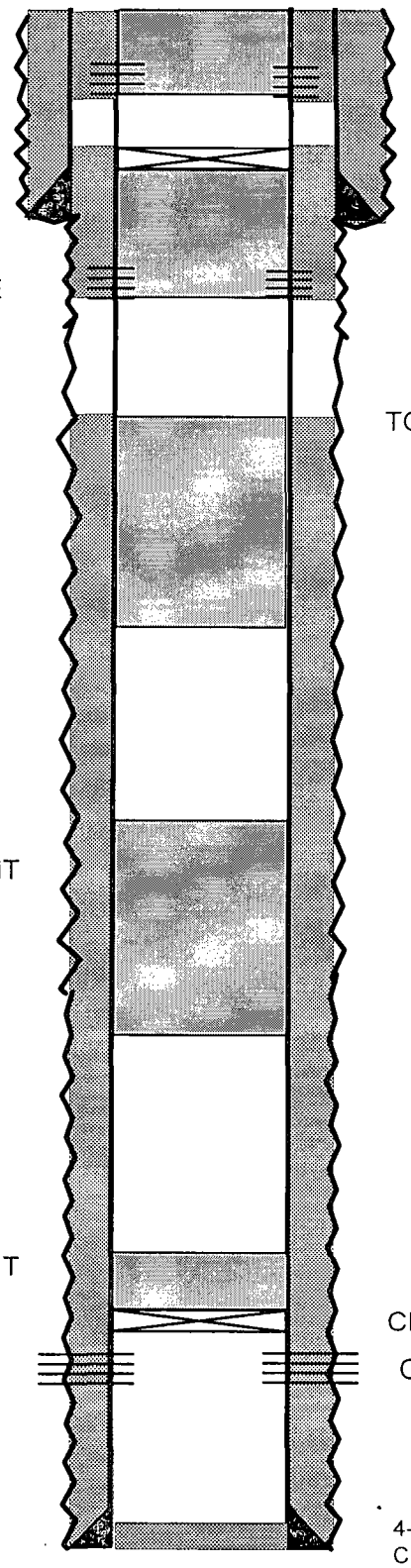
TOC @ 410'

2,796' - 2,908' CH

3,060' PBTD
3,100' TD

4-1/2", 10.5#, J-55 STC CSG @ 3,100'
CMT'D W/500 SX (770 CU FT) LEAD &100 SX
(154 CU FT) TAIL
TOC 410' by CBL

Pollock GC D #1
Proposed P&A Wellbore Diagram



GL: 5,517'
KB: 5,533'
KB CORR: 16'

12-1/4" HOLE

PLUG #5: 35 SX CMT
100' - SURFACE

SQZ HOLES @ 100'

CMT RETAINER SET @ 240'

PLUG #4: 53 SX CMT
346' - 240'

8-5/8", 24#, K-55 CSG SET @ 296'
CMT'D W/250 SX (385 CU FT)
CIRC 5 BBLS CMT TO SURF

7-7/8" HOLE

SQZ HOLES @ 346'

TOC @ 410'

OJO ALAMO TOP @ 470'

PLUG #3: 35 SX CMT
820' - 410'

KIRKLAND TOP @ 770'

PLUG #2: 28 SX CMT
1,830' - 1,520'

FRUITLAND TOP @ 1,570'

PICTURED CLIFFS TOP @ 1,780'

PLUG #1: 16 SX CMT
2,746' - 2,596'

CMT RETAINER SET @ 2,746'

CHACRA PERFS 2,796' - 2,908'

3,060' PBTD
3,100' TD

4-1/2", 10.5#, J-55 STC CSG @ 3,100'
CMT'D W/500 SX (770 CU FT) LEAD &100 SX
(154 CU FT) TAIL
TOC 410' by CBL.