

Submit 1 Copy To Appropriate District
Office
District I - (575) 393-6161
1625 N. French Dr., Hobbs, NM 88240
District II - (575) 748-1283
811 S. First St., Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Rd., Aztec, NM 87410
District IV - (505) 476-3460
1220 S. St. Francis Dr., Santa Fe, NM
87505

State of New Mexico
Energy, Minerals and Natural Resources

Form C-103
Revised July 18, 2013

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

| | | |
|---|--|---|
| SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.) | | WELL API NO. 30-015-36315 |
| 1. Type of Well: Oil Well <input type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> | | 5. Indicate Type of Lease STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/> |
| 2. Name of Operator XTO Energy Inc. | | 6. State Oil & Gas Lease No. |
| 3. Address of Operator 6401 Holiday Hill Road Midland, Texas 79707 | | 7. Lease Name or Unit Agreement Name Tombstone BMB State |
| 4. Well Location Unit Letter D : 660 feet from the NORTH line and 330 feet from the WEST line Section 12 Township 25S Range 29E NMPM EDDY County | | 8. Well Number 1 |
| 11. Elevation (Show whether DR, RKB, RT, GR, etc.) 3085' | | 9. OGRID Number 025575 |
| | | 10. Pool name or Wildcat Cherry Canyon 96464 Delaware NW |

12. Check Appropriate Box to Indicate Nature of Notice, Report or Other Data

| NOTICE OF INTENTION TO: | | SUBSEQUENT REPORT OF: | |
|---|---|--|--|
| PERFORM REMEDIAL WORK <input type="checkbox"/> | PLUG AND ABANDON <input type="checkbox"/> | REMEDIAL WORK <input type="checkbox"/> | ALTERING CASING <input type="checkbox"/> |
| TEMPORARILY ABANDON <input type="checkbox"/> | CHANGE PLANS <input type="checkbox"/> | COMMENCE DRILLING OPNS. <input type="checkbox"/> | P AND A <input type="checkbox"/> |
| PULL OR ALTER CASING <input type="checkbox"/> | MULTIPLE COMPL <input type="checkbox"/> | CASING/CEMENT JOB <input type="checkbox"/> | |
| DOWNHOLE COMMINGLE <input type="checkbox"/> | | | |
| CLOSED-LOOP SYSTEM <input type="checkbox"/> | | | |
| OTHER: RECOMPLETION <input checked="" type="checkbox"/> | | OTHER: <input type="checkbox"/> | |

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 19.15.7.14 NMAC. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

XTO ENERGY INC. SUBMITS SUNDRY TO RECOMPLETE WELL.
ATTACHED YOU WILL FIND:

1. CURRENT WELLBORE DIAGRAM
2. CURRENT WBD.
3. PROPOSED WBD.

NM OIL CONSERVATION
ARTESIA DISTRICT

SEP 19 2018

RECEIVED

If permanently abandoning Brushy Canyon
Perfs: Bone Springs perforations, cap
CTHP @ 5500' with 35' of cement. ag

Spud Date:

06/10/2008

Rig Release Date:

I hereby certify that the information above is true and complete to the best of my knowledge and belief.

SIGNATURE

Patricia Donald

TITLE REGULATORY ANALYST

DATE 09/12/2018

PATRICIA_DONALD@XTOENERGY.COM

Type or print name PATRICIA DONALD

E-mail address:

PHONE: 4325-571-8220

For State Use Only

APPROVED BY:

Raymond K. Polansky

TITLE Geologist

DATE 9-24-18

Conditions of Approval (if any):

WELL NAME: Tombstone BMB State #1 FIELD: Pierce Crossing B. Spr, Nash Draw Delaware
 LOCATION: 330' FNL & 660' FWL of Section 12-25S-29E Eddy Co., NM
 GL: 3,085' ZERO: KB:
 SPUD DATE: 6/10/08 COMPLETION DATE:
 COMMENTS: API No.: 30-015-36315

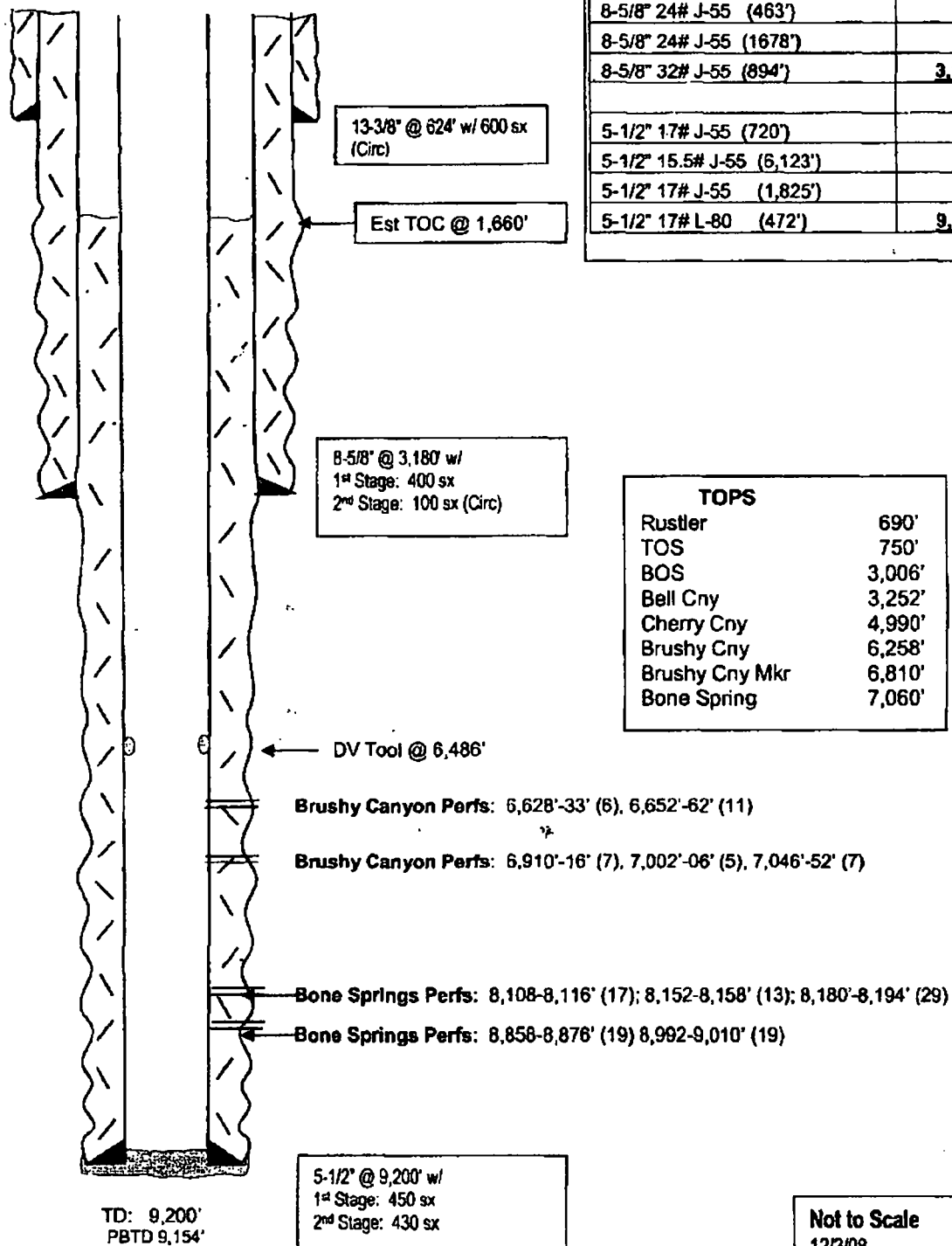
CASING PROGRAM

| | |
|----------------------------|--------|
| 13-3/8" 48# H-40 | 624' |
| 8-5/8" 32# J-55 (125') | |
| 8-5/8" 24# J-55 (463') | |
| 8-5/8" 24# J-55 (1678') | |
| 8-5/8" 32# J-55 (894') | 3,180' |
| 5-1/2" 17# J-55 (720') | |
| 5-1/2" 15.5# J-55 (6,123') | |
| 5-1/2" 17# J-55 (1,825') | |
| 5-1/2" 17# L-80 (472') | 9,200' |

17-1/2"
Hole

11" Hole

7-7/8" Hole



TOPS

| | |
|----------------|--------|
| Rustler | 690' |
| TOS | 750' |
| BOS | 3,006' |
| Bell Cny | 3,252' |
| Cherry Cny | 4,990' |
| Brushy Cny | 6,258' |
| Brushy Cny Mkr | 6,810' |
| Bone Spring | 7,060' |

Not to Scale
12/3/08
MMFH

Corral Canyon 96464

WELL NAME: Tombstone BMB State #1 FIELD: Pierce Crossing B. Spr. Nash Draw Delaware

LOCATION: 330' FNL & 660' FWL of Section 12-25S-29E Eddy Co., NM *Delaware NW.*

GL: 3,085' ZERO: _____ KB: _____

SPUD DATE: 6/10/08 COMPLETION DATE: _____

COMMENTS: API No.: 30-015-36315

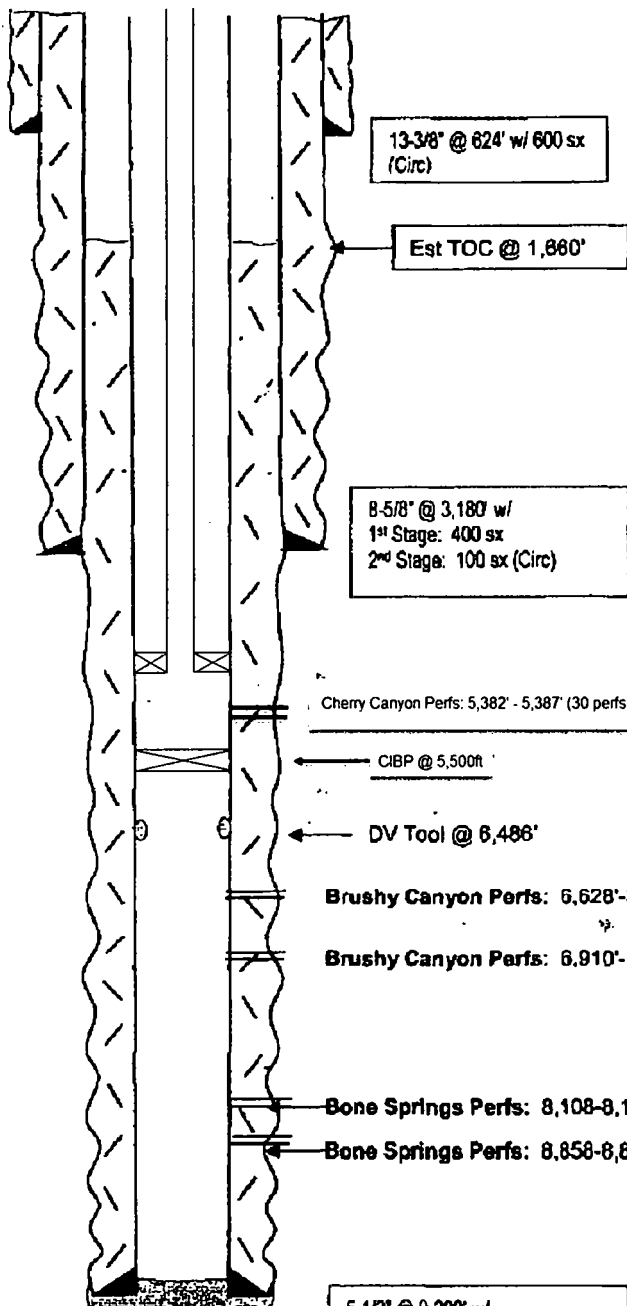
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17-1/2"
Hole

11" Hole

7-7/8" Hole



13-3/8" @ 624' w/ 600 sx
(Circ)

Est TOC @ 1,860'

8-5/8" @ 3,180' w/
1st Stage: 400 sx
2nd Stage: 100 sx (Circ)

Cherry Canyon Perfs: 5,382' - 5,387' (30 perfs)

CIBP @ 5,500ft

DV Tool @ 6,486'

Brushy Canyon Perfs: 6,628'-33' (6), 6,652'-62' (11)

Brushy Canyon Perfs: 6,910'-16' (7), 7,002'-06' (5), 7,046'-52' (7)

Bone Springs Perfs: 8,108-8,116' (17); 8,152-8,158' (13); 8,180'-8,194' (28)

Bone Springs Perfs: 8,858-8,876' (19) 8,992-9,010' (19)

TD: 9,200'
PBTD 9,154'

5-1/2" @ 9,200' w/
1st Stage: 450 sx
2nd Stage: 430 sx

After

TOPS

| | |
|----------------|--------|
| Rustler | 690' |
| TOS | 750' |
| BOS | 3,008' |
| Bell Cny | 3,252' |
| Cherry Cny | 4,990' |
| Brushy Cny | 6,258' |
| Brushy Cny Mkr | 6,810' |
| Bone Spring | 7,060' |

Corral Canyon Delaware, NW

Pierce Crossing BSEast

*Completed
3/2009*

Not to Scale
12/3/08
MMFH



**Tombstone BMB State #1
CO, Acidize, & Frac Well
Eddy County, NM
August 31, 2018
AFE #:**

CURRENT STATUS: Cased Hole producer (Rod Pump-currently no mechanical issues)

OBJECTIVE: Pull rods & pump, scan tubing OOH, cleanout well with 4 3/4" bit to 9,154', isolate existing perms, and acidize/frac wellbore. Cleanout well, hydrotest production tubing, return well to production via pumping unit.

WELL DATA:

API: 30-015-36315
Elevation: GL—3,085' KB—3,103'
Depth: PBTD—9,154' (Float Collar) TD—9,200'

| CASING DETAIL | Diameter | Weight | Grade | MD | TOC | ID | Drift | Collapse | Burst | Capacity |
|------------------|----------|---------|-------|--------------|---------|--------|--------|----------|-------|----------|
| | (in) | (lb/ft) | - | (ft) | (ft) | (in) | (in) | (psi) | (psi) | (bbl/ft) |
| Surface | 13-3/8" | 48# | H-40 | Surf – 624 | surface | 12.715 | 12.559 | 770 | 1,730 | 0.1571 |
| Intermediate | 8-5/8" | 32# | J-55 | Surf – 3,180 | Surface | 7.921 | 7.796 | 2,530 | 3,930 | 0.0609 |
| Production | 5-1/2" | 17# | J-55 | Surf – 9,200 | 1,660 | 4.892 | 4.767 | 4,910 | 5,320 | 0.0232 |
| Tubing | 2-7/8" | 6.5# | J-55 | Surf – 8,658 | | 2.441 | 2.347 | 7,680 | 7,260 | 0.0058 |

ACTIVE PERFS:

Delaware: 6,628'-6,633'; 6,652'-6,662'; 6,910'-6,916'; 7,002'-7,006'; 7,046'-7,052'

Bone Spring: 8,108'-8,116', 8,152'-8,158'; 8,180'-8,194'; 8,858'-8,876'; 8,992'-9,010'

PROPOSED PERFS:

Cherry Canyon: 5,382' – 5,387'

PROCEDURE:

Prior to MIRU, verify that location is cleared for the workover rig. Check anchors, power lines, any other safety hazards, and notify all personnel involved in any work on the location.

******Operate Using OIMS guidelines during workover******

Well Classification: Class II (>300 to 1,500 psig)

MASIP: 1,000 PSIG

MAOP: 1,500 PSIG

1. MIRU WSU. Check well pressures, bleed off & kill well as necessary, and unhang horse head.
2. POOH & LD rods & pump. ND WH. NU Class II BOP with 2-7/8" rams. Function & pressure test BOP equipment.
3. Scan tubing OOH discarding of any GB or RB tubing. Stand back the rest of the production tubing to be used for CO.
4. RIH w/ 4-3/4" bit and scraper to CO well to 9,154' (FC). Report tag depth prior to CO (last CO to 9,154' in 2009). **Note: contact Midland if casing issues are encountered**
5. Circulate a minimum of two bottoms up. Contact Nalco Champion to collect sample and perform analysis (notify Midland of samples found). Will adjust acid job as necessary depending on solids seen in returns.
6. POOH standing back 2-7/8" tbg. LD 4 3/4" bit.
7. PU RBP, RIH and set @ ~6,600ft. Pressure test production casing to surface to 5,000 psi for 10 min. **Note: contact Midland if casing test fails.** POOH laying down 2-7/8" tbg and RBP.
8. MIRU WL. Load well with treated FW and NU lubricator. RIH with CCL/CBL and log from 6,000 ft to 500 ft above TOC. **Notify Midland if poor cement quality is observed.**
9. RIH with CIBP, set @ 5,500ft to isolate active perms. POOH.
10. Pressure test CIBP to 5,000 psi for 5 min. Record pressures.
11. RIH with 3-1/8" slick perforating guns, perforate 5,382ft to 5,387ft with 6 spf @ 60° phasing for a total of 30 perforations. POOH. RDMO WL.
12. MI and rack ~5,300' 3-1/2" 9.2# L-80 WS (company owned) with turndown collars. Change BOP rams from 2-7/8" to 3-1/2".

13. MIRU tubing hydrotesters. PU 5-1/2" frac packer (for 17# J-55 casing) and 3-1/2" WS. RIH hydrotesting 3-1/2" WS to 8000 psig (EOT should be at +/- 5,250', but do not set packer).
14. MIRU acid company. Pump 500 gallons of 15% HCl acid to pickle tubing. Leave backside open to circulate tail of acid to EOT. Reverse circulate any remaining acid to tank. RDMO acid company.
15. Set frac packer at +/- 5,250' (subject to change depending on CIL results). Pump down tubing at greatest rate and pressure possible. **Monitor backside for any pressure increase, notify Midland if observed.**
16. NU 10k frac valve and goat head (NU directly to 3-1/2" tubing). Use tubing hydrotesters to test frac stack. RDMO tubing hydrotesters.
17. Space out frac tanks on location (5 recommended). XTO to provide at least **1,500 bbls of FW**. Contact Nalco Champion to test tanks for bacteria and treat with biocide and scale inhibitor prior to frac.
18. SWI. RDMO WSU. Wait on frac.
19. MIRU Frac Company. RU pressure transducer to backside to monitor pressure throughout job. RU pump truck to load backside, maintain 250-500 psig in the TCA for the duration of the frac. **Have pop-off valve plumbed into backside (set pop-off pressure to 1000 psig, and test prior to frac to ensure proper operation).** Verify the bleed off line is staked down.
20. Test lines to 5000 psig (set treating line pop-off at 4800 psig, pump kickoff at 4500 psig).

Max Treating Pressure: 5000 psig

Max Casing Pressure: 1000 psig

Planned Pump Rate: 40 bpm

| Well & Configuration | | | Total Fluid & Sand | | Max Pressures / Rate | |
|----------------------|------------------------|--------------|---------------------|-----------------|----------------------|----------|
| Well Name | Tombstone BMB State #1 | | Fresh Water (bbl) | 1200 | Test Lines | 8000 psi |
| County | Eddy, NM | | Frac Tanks | 5 (25 bbl btms) | Max TP | 5000 psi |
| Formation | Cherry Canyon | | RC Proppant (lb) | 10,000 | TP Popoff | 4800 psi |
| Res Temp | 110-125 deg F | | UC Proppant (lb) | 20,000 | Pump Kickouts | 4500 psi |
| Top Perf | 5382 ft | 5 ft gross | Total Proppant (lb) | 23,000 | Max CP | 1000 psi |
| Btm Perf | 5387 ft | 5 ft net | 15% Acid (gal) | 1,000 | CP Popoff | 1000 psi |
| PBTD | 5500 ft | Total Stages | Frac Time | 25 min | Max Diff Press | 5000 psi |
| Packer at | 5250 ft | 1 | Min Break Time | 0 | | |
| # Perfs | 30 shots | | Shut in time | 16 hrs | Pump Rate | 40 bpm |

21. Frac the Cherry Canyon perfs (from 5,382'-5,387') down 3-1/2" tubing with 50,000 gals Slick Water & 13,000 lbs 20/40 NWS + 10,000 lbs 20/40 curable resin-coated sand (CryoSet, Coolset, Garnet, or InnoProp) good for 110° F @ 40-45 BPM. Treat according to the following schedule. **Flush 1 bbl shy of top perf and call flush at 2.5# inline proppant concentration.** Do not overflush RCS. Record ISIP, 5 min, 10 min and 15 min SITP.

| STG | Fluid | PPA | Clean Vol (Gal) | Clean Vol (BBL) | RATE BPM | Sand Stg (lbs) | Slurry (BBL) | CUM Slurry (BBL) | Time |
|----------------|---------|--------|-----------------|-----------------|----------|-----------------------------|--------------|------------------|-------------|
| 1 | Acid | | 1000 | 0 | 10 | | 0 | 0 | 0.0 |
| 2 | FW | Spacer | 0 | 0 | 10 | | 0 | 0 | 0.0 |
| 3 | Slk Wtr | PAD | 15,000 | 357 | 40 | | 357 | 357 | 7.9 |
| 4 | Slk Wtr | 0.25 | 5,000 | 117 | 40 | 1,250 | 119 | 429 | 1.6 |
| 5 | Slk Wtr | 0.50 | 7,000 | 165 | 40 | 3,500 | 167 | 527 | 2.2 |
| 6 | Slk Wtr | 0.75 | 11,000 | 245 | 40 | 8,250 | 262 | 773 | 5.5 |
| 7 | Slk Wtr | 1.00 | 10,000 | 238 | 40 | 10,000 | 249 | 1,022 | 5.5 |
| 8 | Slk Wtr | Flush | 1,932 | 46 | 40 | | 46 | 1,100 | 1.7 |
| TOTALS: | | | 49,932 | 1,168 | | 23,000 | 1,200 | | 24.4 |
| | | | | | | * 10,000# NWS + 10,000# RCS | | | |

22. Shut frac valve. RDMO frac company. Leave well SI for at least 12 hours.
23. Run steel lines to frac tank to begin flowback. Gradually flowback Cherry Canyon perforations to tank. Begin flowback with an 8/64" choke in order to reduce proppant flowback. Ramp flowback up to 50 bbl/hr. Once pressure is controlled under 200 psig and no sand in returns, notify production foreman to turn over flowback operations.
24. MIRU PU. ND frac valve. NU BOP with 3-1/2" rams. Unset packer, POOH & LD 3-1/2" WS & pkr.
25. MI and rack ~5,750' of 2-7/8" 6.5# J-55 production tubing (enough to CO to PBTD (CIBP)). This should include YB & BB from the initial scan, plus new tbg to replace any GB and RB. If casing issues were encountered during initial CO, perform post frac CO with WS.
26. Change BOP rams to 2-7/8".
27. RIH with 4-3/4" bit on 2-7/8" production tubing and cleanout to 5,500' (CIBP). DO NOT drill out CIBP. Circulate the well clean. POOH standing back production tubing. Lay down bit.
28. RIH w/ agreed pumping equipment.
29. RDMO WSU, clean location. Notify operations and Nalco Champion to put well in test and treat with necessary chemical.

Prepared by:

Approved by:

Ruslan Filyukov

Date

Rob Heinle

Date

Wes McSpadden

Date