

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

WELL API NO. 30-025-33408
5. Indicate Type of Lease STATE ☒ FEE ☐
6. State Oil & Gas Lease No. 312471
7. Lease Name or Unit Agreement Name SOUTHEAST MALJAMAR GB/SA UNIT
8. Well Number 108
9. OGRID Number 298299
10. Pool name or Wildcat MALJAMAR; GRAYBURG-SAN ANDRES

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.)

1. Type of Well: Oil Well ☒ Gas Well ☐ Other ☐

2. Name of Operator
CROSS TIMBERS ENERGY, LLC

3. Address of Operator
400 WEST 7th STREET, FORT WORTH, TX 76102

4. Well Location
Unit Letter **I** : **1900** feet from the **S** line and **104** feet from the **E** line
Section **30** Township **17S** Range **33E** NMPM County **LEA**

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

4049

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

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☒ PLUG AND ABANDON ☐
TEMPORARILY ABANDON ☐ CHANGE PLANS ☐
PULL OR ALTER CASING ☐ MULTIPLE COMPL ☐
DOWNHOLE COMMINGLE ☐
CLOSED-LOOP SYSTEM ☐
OTHER: ☐

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐
COMMENCE DRILLING OPNS. ☐ P AND A ☐
CASING/CEMENT JOB ☐
OTHER: ☐

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.

RE-FRAC EXISTING PAY

Pull rods, pump and tubing
Verify casing integrity
Re-frac Premier sands
Return to production.

See attached wellbore schematic and procedure details.

Spud Date:

05/03/1996

Rig Release Date:

06/07/1996

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

SIGNATURE

Robbie A. Grigg

TITLE **Regulatory Compliance**

DATE **11/12/2014**

Type or print name **Robbie A Grigg**

E-mail address: **rgrigg@mspartners.com** PHONE: **817-334-7842**

For State Use Only

APPROVED BY:

[Signature]

TITLE

Petroleum Engineer

DATE

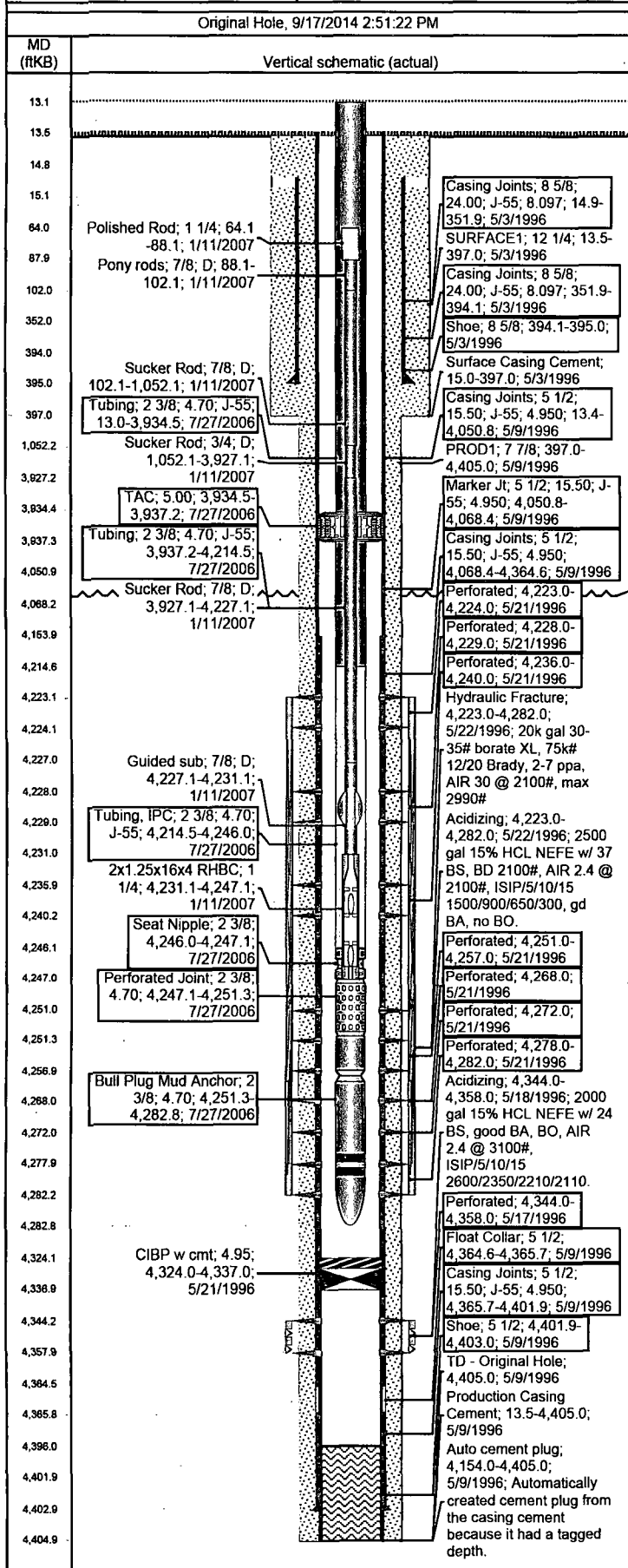
11/14/14

Conditions of Approval (if any):

NOV 14 2014

Schematic & History

Well Name SOUTHEAST MALJAMAR GB/SA UNIT 108			API/UWI 3002533408		County Lea			State/Province New Mexico			Field Name MALJAMAR		
Location 1900 FSL & 104 FEL					Township 17S	Range 33E	Section 30	Latitude (°) 32° 26' 27.384" N			Longitude (°) 103° 41' 37.464" W		
Section	Survey							Block		Township		Abstract	
Original KB Elevation (ft) 4,063.00		Ground/Corrected Ground Elevation (ft) 4,049.50			KB-Ground Distance (ft) 13.50			Spud Date 5/3/1996					



Jobs						
Type	Start Date	Summary				
Drilling Original & Initial Completion	5/3/1996	D&C SA/GB producer. Perf & acidize SA, flowed 84 BF, up to 30% OC. Swb 175 BF up to 4% OC. Set CIBP, perf Premier, dump cmt. A. swb 20 BLW. Frac Premier, tag 6&7 ppa stgs prop. TFF 138' fill, rvs out to 4324', log, swb up to 50% OC vry gassy, POP.				
Cleanout	6/5/1996	PI rods, pmp, TFF (59'), rvs out frac sd, no fill came in ON, RTP.				
Artificial Lift Upgrade	5/1/1997	Slow dwn 10.5 to 8.75 SPM.				
Parafin - Hot Oil	10/21/1997	HW				
Cleanout	12/22/1998	PI rod prt, TFF (26'), bail frac sd to 4324', RBIH prod. equip, wouldn't tst, POOH tbg, RBIH tstg, pinhole in 5 JFS, RTP.				
Tubing Change	10/8/1999	POOH rods & tbg, RBIH tstg, pinhole 2 jts above SN, RTP.				
Cleanout	4/28/2004	PI rods & pump, TFF (20'), bail fill to 4330', RTP.				
Pump Exchange	7/25/2006	Unseat pmp, hvy prfn on rods, HO tbg, RBIH new pmp, no PA, POOH rods & tbg, RBIH tstg, RBIH pmp & rods, RTP.				
Pump Exchange	1/7/2007	Pump chg				
Artificial Lift Upgrade	3/22/2007	slow from 11.8 to 8.5 SPM				
Wellbore Sections						
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	
SURFACE1	Original Hole	12 1/4	13.5	397.0	5/3/1996	
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date	
PROD1	Original Hole	7 7/8	397.0	4,405.0	5/4/1996	
Surface 395.0 ftKB 5/3/1996						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
8 5/8	24.00	J-55	14.9	351.9	337.05	Casing Joints
8 5/8			351.9	351.9	0.00	Insert Float Collar
8 5/8	24.00	J-55	351.9	394.1	42.18	Casing Joints
8 5/8			394.1	395.0	0.89	Shoe
Production 4,403.0 ftKB 5/9/1996						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/2	15.50	J-55	13.4	4,050.8	4,037.40	Casing Joints
5 1/2	15.50	J-55	4,050.8	4,068.4	17.55	Marker Jt
5 1/2	15.50	J-55	4,068.4	4,364.6	296.25	Casing Joints
5 1/2			4,364.6	4,365.7	1.12	Float Collar
5 1/2	15.50	J-55	4,365.7	4,401.9	36.18	Casing Joints
5 1/2			4,401.9	4,403.0	1.08	Shoe
Cement Stages						
Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment		
Surface Casing Cement	15.0	397.0	Cement Returns	250 sx Class C + 2% CaCl (14.8 ppg, 1.34 cf/sk), circ. 94 sx to surf, flt hld.		

Schematic & History

Original Hole, 9/17/2014 2:51:22 PM									
MD (ftKB)	Vertical schematic (actual)								
13.1									
13.5									
14.8									
15.1									
64.0									
87.9									
102.0									
352.0									
394.0									
395.0									
397.0									
1,052.2									
3,827.2									
3,834.4									
3,837.3									
4,060.9									
4,068.2									
4,153.9									
4,214.6									
4,223.1									
4,224.1									
4,227.0									
4,228.0									
4,229.0									
4,231.0									
4,235.9									
4,240.2									
4,246.1									
4,247.0									
4,251.0									
4,251.3									
4,256.9									
4,268.0									
4,272.0									
4,277.9									
4,282.2									
4,282.8									
4,324.1									
4,338.9									
4,344.2									
4,357.9									
4,364.5									
4,385.8									
4,396.0									
4,401.9									
4,402.9									
4,404.9									

Cement Stages

Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment
Production Casing Cement	13.5	4,405.0	Cement Returns	Lead: 650 sx 65:35 Pozmix C + 6% gel, 5 pps salt (12.4 ppg, 2.09 cf/sk); Tail: 200 sx Class C + 1.1% FL-62, 0.3% CD-32 (14.8 ppg, 1.34 cf/sk). Recip pipe while mixing. Did not bump, pumped 2 bbls over displacement, float held, well dead, circ. 278 sx to surf.

Perforations

Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot Total
4,344.0	4,358.0	1.0	5/17/1996	San Andres, Original Hole	15
4,223.0	4,224.0	1.0	5/21/1996	Premier, Original Hole	2
4,228.0	4,229.0	1.0	5/21/1996	Premier, Original Hole	2
4,236.0	4,240.0	1.0	5/21/1996	Premier, Original Hole	5
4,251.0	4,257.0	1.0	5/21/1996	Premier, Original Hole	7
4,268.0	4,268.0	1.0	5/21/1996	Premier, Original Hole	1
4,272.0	4,272.0	1.0	5/21/1996	Premier, Original Hole	1
4,278.0	4,282.0	1.0	5/21/1996	Premier, Original Hole	5

Stim/Treat Stages

Type	Start Date	Top (ftKB)	Btm (ftKB)	Com
Acidizing	5/18/1996	4,344.0	4,358.0	2000 gal 15% HCL NEFE w/ 24 BS, good BA, BO, AIR 2.4 @ 3100#, ISIP/5/10/15 2600/2350/2210/2110.
Acidizing	5/22/1996	4,223.0	4,282.0	2500 gal 15% HCL NEFE w/ 37 BS, BD 2100#, AIR 2.4 @ 2100#, ISIP/5/10/15 1500/900/650/300, gd BA, no BO.
Hydraulic Fracture	5/22/1996	4,223.0	4,282.0	20k gal 30-35# borate XL, 75k# 12/20 Brady, 2-7 ppa, AIR 30 @ 2100#, max 2990#

Other In Hole

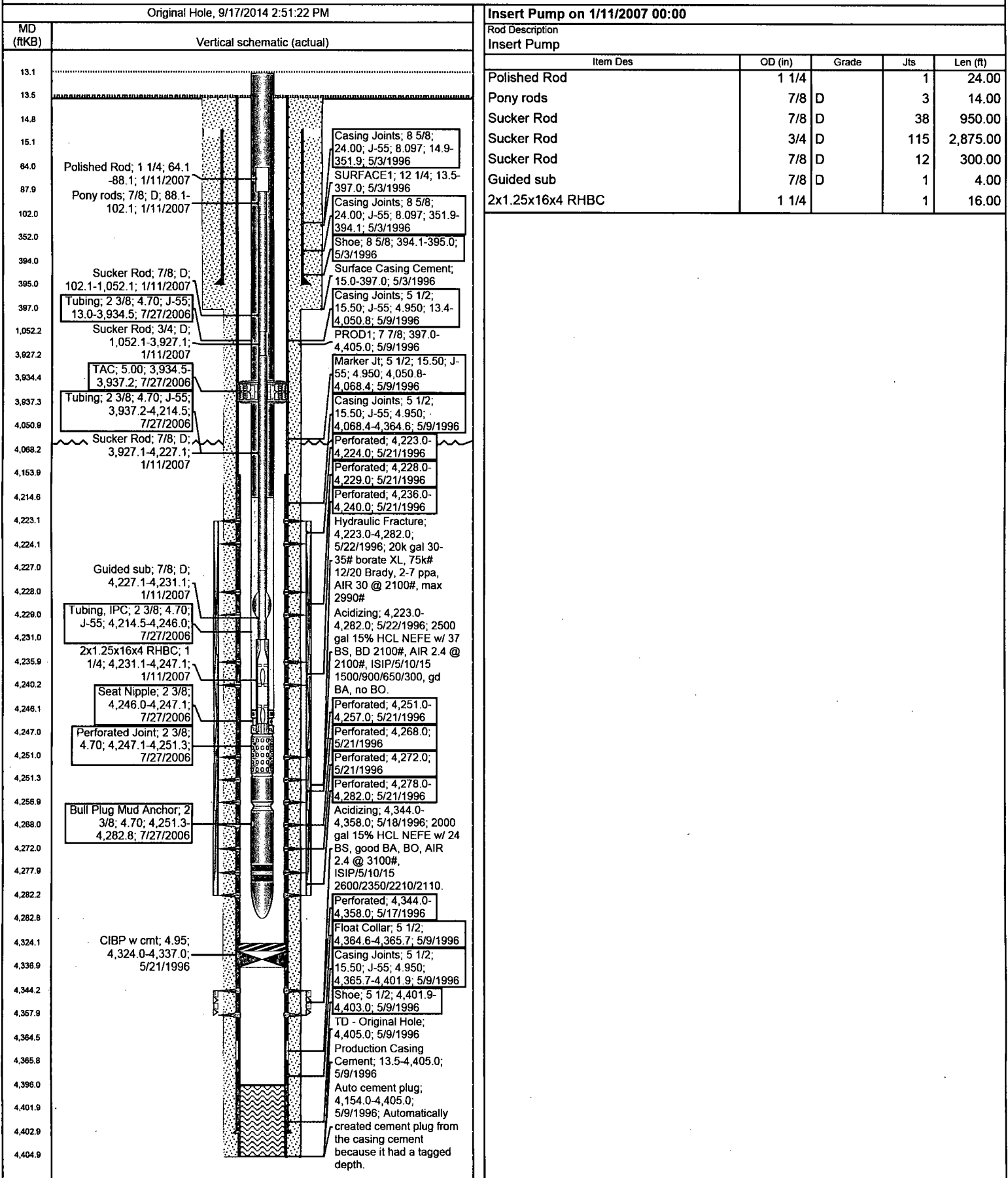
Des	Com	OD (in)	Run Date	Top (ftKB)	Btm (ftKB)
CIBP w cmt		4.95	5/21/1996	4,324.0	4,337.0

Tubing - Production set at 4,282.8ftKB on 7/27/2006 00:00

Set Depth (ftKB)	Comment	Run Date	Pull Date
4,282.8		7/27/2006	

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.70	J-55	3,921.48	125	13.0	3,934.5
TAC	4.995			2.70	1	3,934.5	3,937.2
Tubing	2 3/8	4.70	J-55	277.29	9	3,937.2	4,214.5
Tubing, IPC	2 3/8	4.70	J-55	31.52	1	4,214.5	4,246.0
Seat Nipple	2 3/8			1.10	1	4,246.0	4,247.1
Perforated Joint	2 3/8	4.70		4.17	1	4,247.1	4,251.3
Bull Plug Mud Anchor	2 3/8	4.70		31.52	1	4,251.3	4,282.8

Schematic & History



SPECIFICS OF OPERATION:

- 1) Safety is the highest priority. Hold tailgate safety meetings prior to each significant stage of the operation. Ensure all personnel understand the procedure, its objectives, and the precautions to be followed at all points.
- 2) MIRU PU, rod seals, and 2 extra tbg jts (2-3/8"). Have hot oiler on standby. POOH rods & pump, HW tbg & rods if needed, LD rods and pump. Move rods off location (corner of 609? Leave room for frac trucks to turn around).
- 3) ND WH, rls TAC, PU 2 extra jts, TFF. Report depth. POOH production tbg standing back, send TAC to shop for redress. If fill covering perms, cleanout to PBTD.
- 4) RIH w/ bit & scrpr on production tbg to PBTD, POOH, LD prod. tbg. Report any solids build up on scrpr and tight spots in the csg. Move tbg off location.
- 5) Chg pipe rams to 3-1/2". MI, rack, and tally $\pm 4173'$ of 3-1/2" 9.3# J-55 or L-80 frac string. MIRU hydrotstr, RIH 6k or better trtg pkr on frac strg, tstg to 6k below the slips. ND BOP, set pkr @ $\pm 4173'$, NU frac stack, and tst TCA to 500#. Clean location, RDMO pulling unit.
- 6) Meet w frac svc coordinator to decide on location of equipment. MI one flow back tank, seven frac tanks, add biocide to FT's, then fill FT's w/ FW. Take water sample from tanks and chemical sample from Catalyst for lab tst of gel, breakers, and chemicals. MIRU flow back manifold w/ dual adjustable chokes to goat head and flow back tank. Trench flow back line so trucks can drive over during frac.
- 7) MIRU T&T trailer, frac svc, and flow back crew. Perform breaker and bucket tests. NU psi transducer to TCA, tst surf. equip. to 6,000 psi. Set & test pop-off at 5900 psi. Set kick-outs @ 5700 psi. Pump frac.
- 8) Clean location, RDMO frac svc. Open well through manifold to smallest chk to avoid sand-plugging (8/64's typically). As sand clears up, increase choke size in 2/64's increments every hour. If sand is observed, reduce choke size in 4/64's increments every hour until sand stops flowing. If sand does not flow for 4 consecutive hours begin opening choke again in 2/64's increments. Report chk size, pressures, volumes, oil cut, gas blow, sand production, and equip. chgs hourly. Drain and rel FT's as needed. When well stabilizes release flow back crew. When pressures and volumes are low enough for battery to handle, tie WH into battery and put well into test at least once a week.
- 9) When well dies, MIRU PU, kill trk, and production tbg. ND frac stack, rls pkr, NU BOP. POOH, LD & rls frac strg.
- 10) Chg pipe rams to 2-3/8", MI, rack, and tally prod. tbg, RIH bit & tbg to TFF. If fill is close to planned BP depth, attempt to circulate out w/ kill trk to PBTD. POOH.
- 11) RIH same production equip. as before except swap the perf sub out with a Cavins de-sander and the BPMA for an OPMA. ND BOP, set TAC, NU WH.
- 12) MI rod racks, 2.0x1.5 pump, nine 1-1/4" sinker bars, 3/4" Grade D grade sucker rods, subs, and polished rod. Prime pump w diesel, RIH pump and rods per rod model. Make up

each connection twice and card every ten connections. Notify pumper, space out, NU pumping tee and manifold, stuffing box, L&T, hang unit on, verify good pumping action, open well to battery, turn to production.

- 13) Clean location, RDMO. If FL stays high, speed up to 11.5 SPM (185 BFPD). If needed, an 1-3/4" tbg pump may be installed with changes to rod string to achieve 245 BFPD. Rebalance unit w/ pump size chg. Report fluid levels and well tests at least once a month. Optimize as needed.