

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. 30-025-33592
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 711
9. OGRID Number 298299
10. Pool name or Wildcat MALJAMAR; GRAYBURG-SAN ANDRES
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4089

SUNDRY NOTICES AND REPORTS ON WELLS (DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK OR 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 P : 1040 feet from the S line and 330 feet from the E line Section 29 Township 17S Range 33E NMPM County LEA	
11. Elevation (Show whether DR, RKB, RT, GR, etc.) 4089	

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

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
PERFORM REMEDIAL WORK ☒	PLUG AND ABANDON ☐	REMEDIAL WORK ☐	ALTERING CASING ☐
TEMPORARILY ABANDON ☐	CHANGE PLANS ☐	COMMENCE DRILLING OPNS. ☐	P AND A ☐
PULL OR ALTER CASING ☐	MULTIPLE COMPL ☐	CASING/CEMENT JOB ☐	
DOWNHOLE COMMINGLE ☐			
CLOSED-LOOP SYSTEM ☐			
OTHER: ☐		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:

10/25/1996

Rig Release Date:

11/04/1996

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
For State Use Only

Robbie A Grigg

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

APPROVED BY:

[Signature]

TITLE **Petroleum Engineer**

DATE

11/14/14

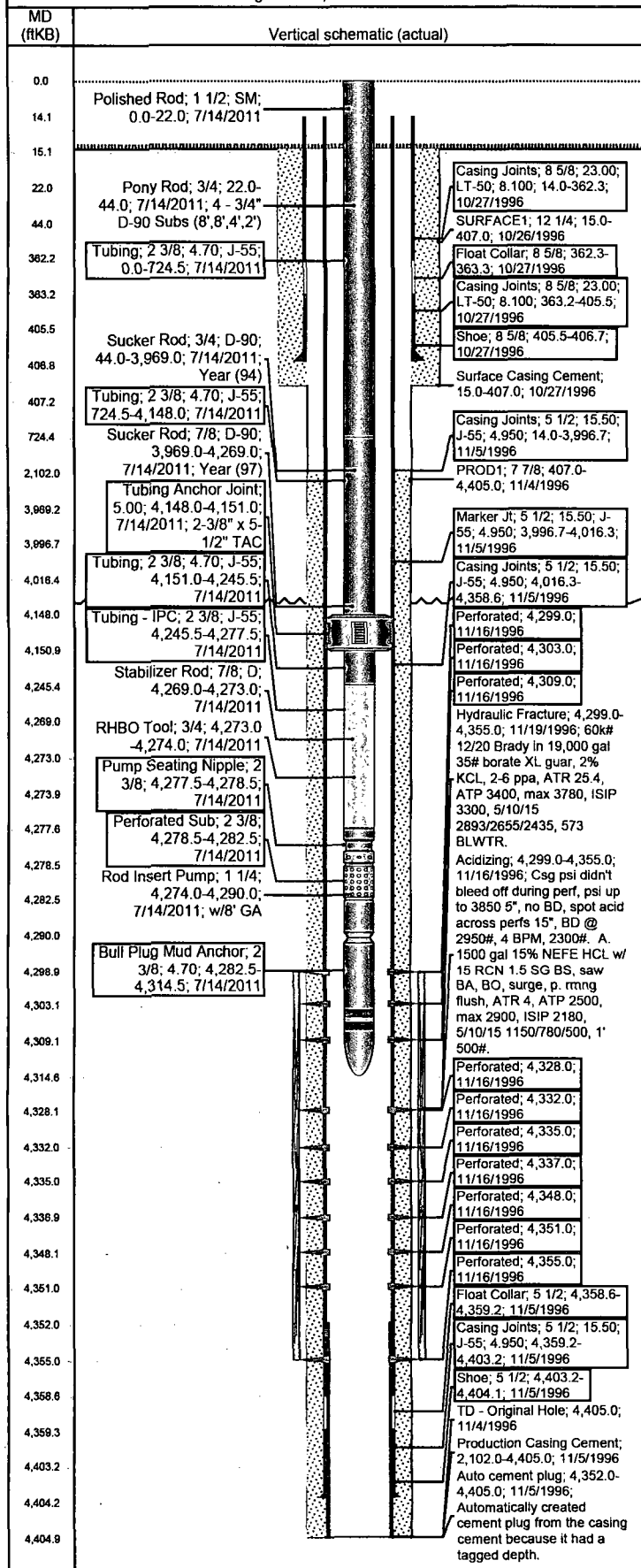
Conditions of Approval (if any):

NOV 14 2014

Schematic & History

Well Name SOUTHEAST MALJAMAR GB/SA UNIT 711		API/UWI 3002533592	County Lea		State/Province New Mexico		Field Name MALJAMAR	
Location 1040 FSL & 330 FEL			Township 17S	Range 33E	Section 29	Latitude (°) 32° 33' 39.677" N		Longitude (°) 103° 40' 38.172" W
Section	Survey				Block		Township	Abstract
Original KB Elevation (ft) 4,103.00		Ground/Corrected Ground Elevation (ft) 4,088.00		KB-Ground Distance (ft) 15.00		Spud Date		

Vertical - Original Hole, 9/17/2014 2:52:24 PM



Jobs

Type	Start Date	Summary
Drilling Original & Initial Completion	10/26/1996	D&C Premier. Fish shank & cone @ 4131' 2 days. Perf, acidize, frac. CO 75' of fill to PBTD, no fill ON, POP, no PA in AM, lwr pmp, test.
Tag Bottom	1/9/1998	Pl rods & tbq, TFF, RTP.
Pumping Unit Repair	2/27/1998	Walking beam twisted, CA bent
Pumping Unit Repair	8/5/1998	Straighten to stop breaking saddle bearing
Pump Exchange	8/19/1999	Pl rods & pump, stuck plunger while unseating, hvy prfn in pump, no fluid in pump, TFF @ 4366', lwr SN 1 jt, RTP.
Parafin - Hot Oil	4/7/2001	HO TCA
Pump Repair	7/5/2001	Pull rods, pl rod prt, rods mod covered in prfn, att. fish pmp, strip out, pmp stuck in SN, MA full of prfn & scl, CO, rplc SN, pmp jt, 1 crimped jt, RTP.
Tubing Change	7/17/2001	Pull rods & pump, btm 5 rods bent, pump holding fluid, POOH tbq, RBlH tbq, tstg, split 120 JFS, RTP.
Chemical Treatment	4/12/2002	Pump soapy wtr dwn TCA, pump sticking, PA OK.
Tubing Change	1/21/2006	POOH 3 rods, hvy prfn, HO tbq, POOH rods, re-seat pmp, psi to 500#, no tst, POOH rods & pmp, POOH tbq, RBlH tstg, HI SN jt, RTP.
Repair Tubing	5/6/2009	Rods hvy prfn, HW, POOH, HIT 133 JFS, RBlH tstg, RTP.
Pump Exchange	5/22/2009	Pmp chg
Tubing Change	7/13/2011	Pull rods & pmp, scan tbq out (110Y, 2B, 23G), GB due to wear, HI IPC jt, RBlH tstg, RTP.
Acid Dump	9/13/2011	300 gal 15% HCL, flush w 20 bbls 1% KCL, SI 4 hrs, RTP.

Wellbore Sections

Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
SURFACE1	Original Hole	12 1/4	15.0	407.0	10/26/1996
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
PROD1	Original Hole	7 7/8	407.0	4,405.0	10/27/1996

Surface 406.7 ftKB 10/27/1996

Comment

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
8 5/8	23.00	LT-50	14.0	362.3	348.25	Casing Joints
8 5/8			362.3	363.3	1.00	Float Collar
8 5/8	23.00	LT-50	363.3	405.5	42.26	Casing Joints
8 5/8			405.5	406.7	1.16	Shoe

Production 4,404.1 ftKB 11/5/1996

Comment

OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/2	15.50	J-55	14.0	3,996.7	3,982.68	Casing Joints
5 1/2	15.50	J-55	3,996.7	4,016.3	19.64	Marker Jt
5 1/2	15.50	J-55	4,016.3	4,358.6	342.27	Casing Joints
5 1/2			4,358.6	4,359.2	0.60	Float Collar
5 1/2	15.50	J-55	4,359.2	4,403.2	44.03	Casing Joints
5 1/2			4,403.2	4,404.1	0.85	Shoe

Cement Stages

Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment
Surface Casing Cement	15.0	407.0	Cement Returns	275 sx Class C + 2% CaCl (14.8 ppg, 1.34 cf/sk), circ. 99 sx.

Vertical - Original Hole, 9/17/2014 2:52:25 PM	
MD (ftKB)	Vertical schematic (actual)
0.0	Polished Rod; 1 1/2; SM; 0.0-22.0; 7/14/2011
14.1	
15.1	
22.0	Pony Rod; 3/4; 22.0-44.0; 7/14/2011; 4 - 3/4" D-90 Subs (8', 8', 4', 2')
44.0	
382.2	Tubing; 2 3/8; 4.70; J-55; 0.0-724.5; 7/14/2011
383.2	
405.5	Sucker Rod; 3/4; D-90; 44.0-3,969.0; 7/14/2011; Year (94)
406.8	
407.2	Tubing; 2 3/8; 4.70; J-55; 724.5-4,148.0; 7/14/2011
724.4	Sucker Rod; 7/8; D-90; 3,969.0-4,269.0; 7/14/2011; Year (97)
2,102.0	
3,969.2	Tubing Anchor Joint; 5.00; 4,148.0-4,151.0; 7/14/2011; 2-3/8" x 5-1/2" TAC
3,969.7	
4,016.4	Tubing; 2 3/8; 4.70; J-55; 4,151.0-4,245.5; 7/14/2011
4,148.0	
4,150.9	Tubing - IPC; 2 3/8; J-55; 4,245.5-4,277.5; 7/14/2011
4,245.4	Stabilizer Rod; 7/8; D; 4,269.0-4,273.0; 7/14/2011
4,269.0	RHBO Tool; 3/4; 4,273.0-4,274.0; 7/14/2011
4,273.0	Pump Seating Nipple; 2 3/8; 4,277.5-4,278.5; 7/14/2011
4,279.9	Perforated Sub; 2 3/8; 4,278.5-4,282.5; 7/14/2011
4,277.8	
4,278.5	Rod Insert Pump; 1 1/4; 4,274.0-4,290.0; 7/14/2011; w/8 GA
4,282.5	
4,280.0	Bull Plug Mud Anchor; 2 3/8; 4.70; 4,282.5-4,314.5; 7/14/2011
4,298.9	
4,303.1	
4,309.1	
4,314.8	
4,328.1	
4,332.0	
4,335.0	
4,338.9	
4,348.1	
4,351.0	
4,352.0	
4,355.0	
4,358.6	
4,359.3	
4,403.2	
4,404.2	
4,404.9	

Cement Stages	
Description	Top (ftKB)
Production Casing Cement	2,102.0
	4,405.0
Top Meas Meth	Temperature Survey
Comment	Lead: 600 sx Light Prem. Plus (35:65 poz:C) + 6% gel, 5 pps salt (12.4 ppg, 2.08 cuft/sk); Tail: 200 sx Prem. Plus (C) + 0.3% CFR-3, 0.25% D-air (14.8 ppg, 1.32 cuft/sk), did not circ. cmt, ft hld.

Perforations	
Top (ftKB)	Bottom (ftKB)
4,299.0	4,299.0
4,303.0	4,303.0
4,309.0	4,309.0
4,328.0	4,328.0
4,332.0	4,332.0
4,335.0	4,335.0
4,337.0	4,337.0
4,348.0	4,348.0
4,351.0	4,351.0
4,355.0	4,355.0

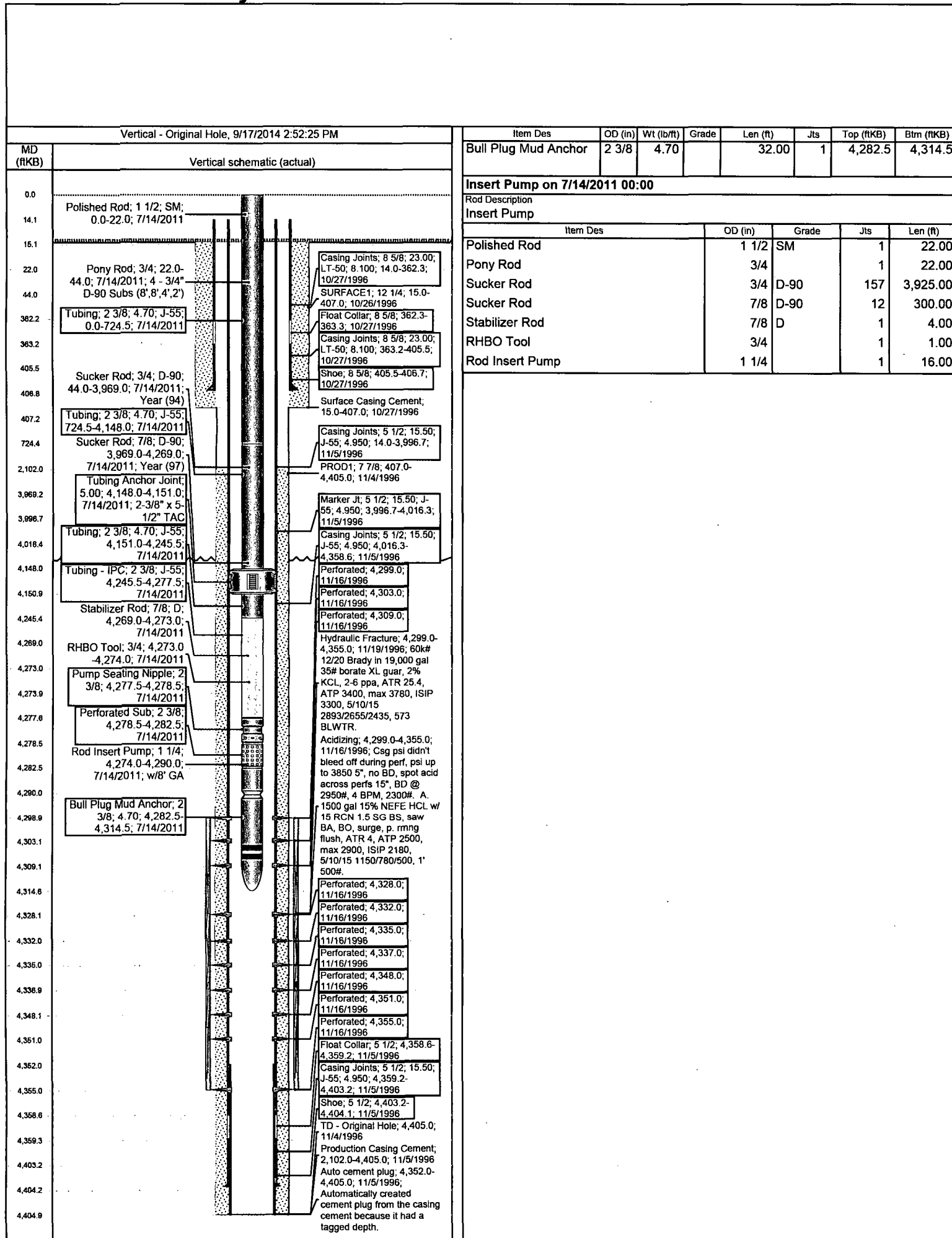
Type	Start Date	Top (ftKB)	Bottom (ftKB)	Com
Acidizing	11/16/1996	4,299.0	4,355.0	Csg psi didn't bleed off during perf, psi up to 3850 5", no BD, spot acid across perfs 15", BD @ 2950#, 4 BPM, 2300#. A. 1500 gal 15% NEFE HCL w/ 15 RCN 1.5 SG BS, saw BA, BO, surge, p. rmng flush, ATR 4, ATP 2500, max 2900, ISIP 2180, 5/10/15 1150/780/500, 1' 500#.
Hydraulic Fracture	11/19/1996	4,299.0	4,355.0	60k# 12/20 Brady in 19,000 gal 35# borate XL guar, 2% KCL, 2-6 ppa, ATR 25.4, ATP 3400, max 3780, ISIP 3300, 5/10/15 2893/2655/2435, 573 BLWTR.

Other In Hole	
Des	Com

Tubing - Production set at 4,314.5ftKB on 7/14/2011 00:00	
Set Depth (ftKB)	Comment
4,314.5	7/14/2011

Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Bottom (ftKB)
Tubing	2 3/8	4.70	J-55	724.50	23	0.0	724.5
Tubing	2 3/8	4.70	J-55	3,423.50	109	724.5	4,148.0
Tubing Anchor Joint	4.99	5		3.00	1	4,148.0	4,151.0
Tubing	2 3/8	4.70	J-55	94.50	3	4,151.0	4,245.5
Tubing - IPC	2 3/8		J-55	32.00	1	4,245.5	4,277.5
Pump Seating Nipple	2 3/8			1.00	1	4,277.5	4,278.5
Perforated Sub	2 3/8			4.00	1	4,278.5	4,282.5

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 3 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.
- 3) ND WH, rls TAC, TFF. Report depth. POOH production tbg standing back, send TAC to shop for redress. If fill covering perfs, cleanout to PBTD.
- 4) RIH w/ bit & scrpr on production tbg to top perf, 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 $\pm 4249'$ 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 @ $\pm 4249'$, NU frac stack, and tst TCA to 500#. Clean location, RDMO pulling unit.
- 6) 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. 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) MIRU PU, kill trk. ND frac stack, rls pkr, NU BOP. Circ. 10# brine if need to kill well. POOH, LD & rls frac strg.
- 10) Chg pipe rams to 2-3/8", MI, rack, and tally prod. tbg, RIH bit & tbg and circulate fill out to PBTD. POOH.
- 11) RIH same production equip. as before except: a) swap the BPMA for an OPMA, b) swap the perf sub out with a Cavins de-sander and c) add 2 jts to tbg tally at surface. 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. Rebalance unit.

- 13) Clean location, RDMO. If FL stays high, speed up to 11.5 SPM (130 BFPD). Report fluid levels and well tests at least once a week until well pumped off and production stabilized.