

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

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

Form C-103
Revised July 18, 2013

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. 30-025-2919 29610
1. Type of Well: Oil Well ☐ Gas Well ☐ Other ☒ INT NOV 17 2014		5. Indicate Type of Lease STATE ☒ FEE ☐
2. Name of Operator CROSS TIMBERS ENERGY, LLC		6. State Oil & Gas Lease No. 312479
3. Address of Operator 400 WEST 7th STREET, FORT WORTH, TX 76102		7. Lease Name or Unit Agreement Name NVAU
4. Well Location Unit Letter K : 1980 feet from the WS line and 1980 feet from the 8 line Section 10 Township 17S Range 34E NMPM County LEA		8. Well Number 300
		9. OGRID Number 298299
		10. Pool name or Wildcat VACCUUM; ABO, NORTH
11. Elevation (Show whether DR, RKB, RT, GR, etc.)		4072 KB

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.

11/11/14

CONVERTED PRODUCING WELL TO INJECTION WELL
SCHEMATIC ATTACHED FOR DESCRIPTION

MIT TEST: (START PRESSURE 360, END PRESSURE 360)
CHART ATTACHED

Spud Date:

05/14/1986

Rig Release Date:

07/01/1986

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

SIGNATURE _____ TITLE Regulatory Compliance DATE 11/11/2014

Type or print name LAURA STONE E-mail address: rgrigg@mspartners.com PHONE: 817-334-7842
For State Use Only

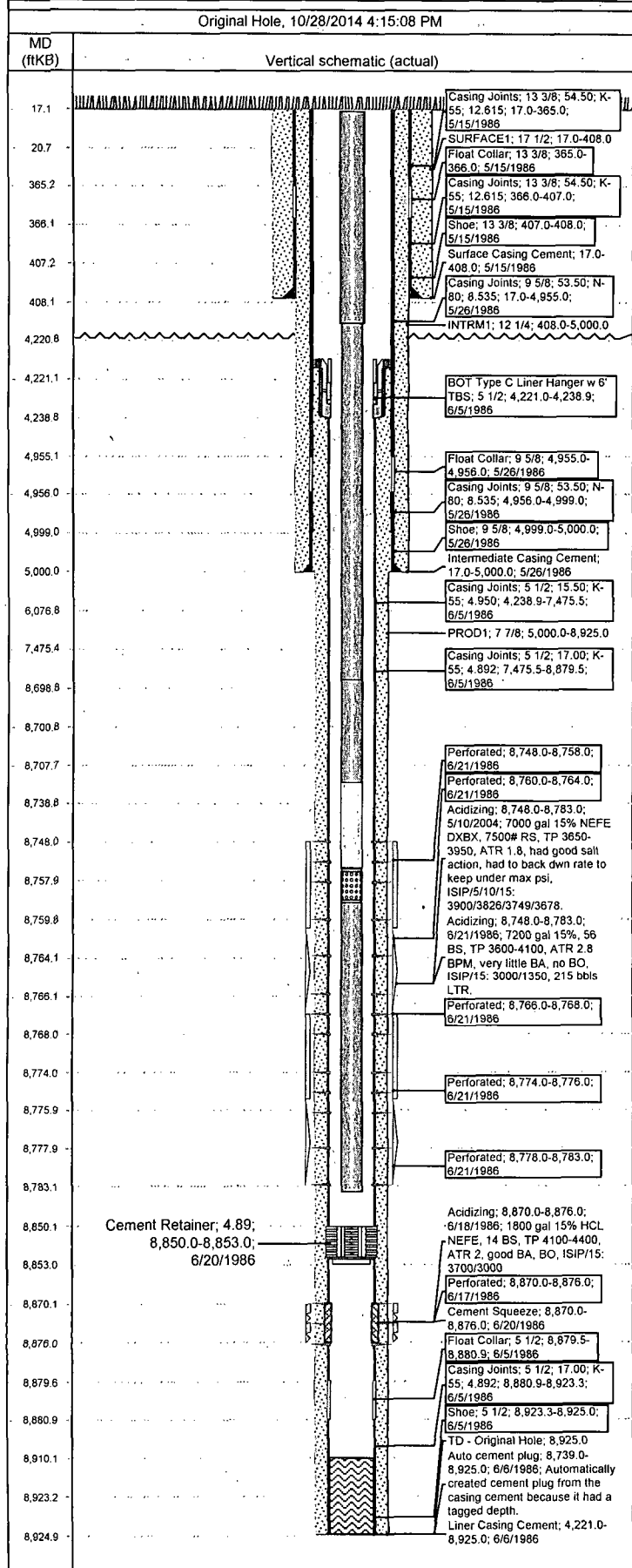
APPROVED BY: Bellamamah TITLE Staff Manager DATE 11/18/2014
Conditions of Approval (if any):

PMX-273

DEC 15 2014

Schematic & History

Well Name NORTH VACUUM ABO UNIT 300		API/UWI 3002529610	County Lea		State/Province New Mexico		Field Name VACUUM N	
Location 1980 FSL & 1980 FWL			Township 17S	Range 34E	Section 10	Latitude (°) 32° 35' 18.606" N		Longitude (°) 103° 33' 0.936" W
Section	Survey				Block		Township	Abstract
Original KB Elevation (ft) 4,072.00		Ground/Corrected Ground Elevation (ft) 4,055.00		KB-Ground Distance (ft) 17.00		Spud Date		



Jobs	Type	Start Date	Summary
Workover		1/1/1900	No pull records in FW nor BKE well files for 1986 to 2000
Drilling Original & Initial Completion		5/15/1986	D&C in Abo. Perf, acidize, swab 100% wtr, no gas, sqz perfs, add new perfs, acidize, swab, 90% OC, PTA w bombs, sqz scale inhibitor, POP.
Pump Repair		2/2/2000	Pl rds, pl rd prt, attempt fish, pl tbq, chg pmp, RTP.
Acidize		5/4/2004	Pl rds, pmp, & tbq, tbq clr prtd @ 5933', fishd, split clr, hydrotest tbq BIH w bit & DC, 5 bad jts, tag 8852', circ well, POOH, RIH w TP & pkr, tst bkds to 500 psi, good, set pkr @ 8503', acidize, RTP.
Rod Part		8/5/2004	Pl rds, box brk?, rplc pmp, pl tbq, RTP.
Pump Exchange		4/19/2006	Pl pmp, chg pmp, RTP.
Pump Exchange		4/19/2006	Pl pmp, chg pmp, RTP.
Pump Exchange		11/6/2007	Pl pmp, chg pmp, RTP.
Change Rod Pump		7/1/2010	
Change Rod Pump		8/11/2010	Attempt pl rds, BO, pl rds. Strip out, RIH tbq & rds, re-torquing every break, RTP.
Convert To Injection		10/22/2014	

Wellbore Sections					
Section Des	Wellbore Name	Size (in)	Act Top (ftKB)	Act Btm (ftKB)	Start Date
SURFACE1	Original Hole	17 1/2	17.0	408.0	5/15/1986
INTRM1	Original Hole	12 1/4	408.0	5,000.0	5/16/1986
PROD1	Original Hole	7 7/8	5,000.0	8,925.0	5/28/1986

Surface 408.0 ftKB 5/15/1986						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
13 3/8	54.50	K-55	17.0	365.0	348.00	Casing Joints
13 3/8			365.0	366.0	1.00	Float Collar
13 3/8	54.50	K-55	366.0	407.0	41.00	Casing Joints
13 3/8			407.0	408.0	1.00	Shoe

Intermediate 5,000.0 ftKB 5/26/1986						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
9 5/8	53.50	N-80	17.0	4,955.0	4,938.00	Casing Joints
9 5/8			4,955.0	4,956.0	1.00	Float Collar
9 5/8	53.50	N-80	4,956.0	4,999.0	43.00	Casing Joints
9 5/8			4,999.0	5,000.0	1.00	Shoe

Liner 8,925.0 ftKB 6/5/1986						
Comment						
OD (in)	Wt (lb/ft)	Grade	Top (ftKB)	Btm (ftKB)	Len (ft)	Item Des
5 1/2			4,221.0	4,238.9	17.96	BOT Type C Liner Hanger w 6' TBS
5 1/2	15.50	K-55	4,238.9	7,475.5	3,236.56	Casing Joints
5 1/2	17.00	K-55	7,475.5	8,879.5	1,404.04	Casing Joints
5 1/2			8,879.5	8,880.9	1.38	Float Collar
5 1/2	17.00	K-55	8,880.9	8,923.3	42.35	Casing Joints
5 1/2			8,923.3	8,925.0	1.75	Shoe

Schematic & History

Original Hole, 10/28/2014 4:15:08 PM									
MD (ftKB)	Vertical schematic (actual)								
17.1	Casing Joints; 13 3/8; 54.50; K-55; 12.615; 17.0-365.0; 5/15/1986								
20.7	SURFACE1; 17 1/2; 17.0-408.0								
365.2	Float Collar; 13 3/8; 365.0-366.0; 5/15/1986								
366.1	Casing Joints; 13 3/8; 54.50; K-55; 12.615; 366.0-407.0; 5/15/1986								
407.2	Shoe; 13 3/8; 407.0-408.0; 5/15/1986								
408.1	Surface Casing Cement; 17.0-408.0; 5/15/1986								
4,220.8	Casing Joints; 9 5/8; 53.50; N-80; 8.535; 17.0-4,955.0; 5/26/1986								
4,221.1	INTRM1; 12 1/4; 408.0-5,000.0								
4,238.8	BOT Type C Liner Hanger w 6" TBS; 5 1/2; 4,221.0-4,238.9; 6/5/1986								
4,955.1	Float Collar; 9 5/8; 4,955.0-4,956.0; 5/26/1986								
4,956.0	Casing Joints; 9 5/8; 53.50; N-80; 8.535; 4,956.0-4,999.0; 5/26/1986								
4,999.0	Shoe; 9 5/8; 4,999.0-5,000.0; 5/26/1986								
5,000.0	Intermediate Casing Cement; 17.0-5,000.0; 5/26/1986								
6,076.8	Casing Joints; 5 1/2; 15.50; K-55; 4.950; 4,238.9-7,475.5; 6/5/1986								
7,475.4	PROD1; 7 7/8; 5,000.0-8,925.0								
8,698.8	Casing Joints; 5 1/2; 17.00; K-55; 4.892; 7,475.5-8,879.5; 6/5/1986								
8,700.8									
8,707.7	Perforated; 8,748.0-8,758.0; 6/21/1986								
8,738.8	Perforated; 8,760.0-8,764.0; 6/21/1986								
8,748.0	Acidizing; 8,748.0-8,783.0; 5/10/2004; 7000 gal 15% NEFE DXBX, 7500# RS, TP 3650-3950, ATR 1.8, had good salt action, had to back down rate to keep under max psi, ISIP/5/10/15: 3900/3826/3749/3678								
8,757.9									
8,759.8	Acidizing; 8,748.0-8,783.0; 6/21/1986; 7200 gal 15%, 56 BS, TP 3600-4100, ATR 2.8 BPM, very little BA, no BO, ISIP/15: 3000/1350, 215 bbls LTR								
8,764.1									
8,766.1	Perforated; 8,766.0-8,768.0; 6/21/1986								
8,768.0									
8,774.0	Perforated; 8,774.0-8,776.0; 6/21/1986								
8,775.9									
8,777.9	Perforated; 8,778.0-8,783.0; 6/21/1986								
8,783.1									
8,850.1	Acidizing; 8,870.0-8,876.0; 6/18/1986; 1800 gal 15% HCL NEFE, 14 BS, TP 4100-4400, ATR 2, good BA, BO, ISIP/15: 3700/3000								
8,853.0	Perforated; 8,870.0-8,876.0; 6/17/1986								
8,870.1	Cement Squeeze; 8,870.0-8,876.0; 6/20/1986								
8,876.0	Float Collar; 5 1/2; 8,879.5-8,880.9; 6/5/1986								
8,879.6	Casing Joints; 5 1/2; 17.00; K-55; 4.892; 8,880.9-8,923.3; 6/5/1986								
8,880.9	Shoe; 5 1/2; 8,923.3-8,925.0; 6/5/1986								
8,910.1	TD - Original Hole; 8,925.0								
8,923.2	Auto cement plug; 8,739.0-8,925.0; 6/6/1986; Automatically created cement plug from the casing cement because it had a tagged depth.								
8,924.9	Liner Casing Cement; 4,221.0-8,925.0; 6/6/1986								

Cement Stages

Description	Top (ftKB)	Btm (ftKB)	Top Meas Meth	Comment
Surface Casing Cement	17.0	408.0	Cement Returns	500 sx Class C + 2% CaCl, 1/4 pps FC, 14.8 ppg, 1.32 cuft/sk, circ 180 sx
Intermediate Casing Cement	17.0	5,000.0	Cement Returns	2000 sx Class C neat + 75 scf/bbl N2, 13.2 ppg, 1.32 cuft/sk, circ 160 sx. Cap 9 -5/8x13-3/8 annulus w 100 sx Class C + 2% CaCl, 14.8 ppg, 1.32 cuft/sk.
Liner Casing Cement	4,221.0	8,925.0	Top Meas Meth Bit Tag	Comment Lead: 700 sx Class C + 18 -1/2 pps FDP 375, 18-1/2 pps poz, 12.0 ppg, 1.94 cuft/sk; Tail: 300 sx Class H + 1/4 pps FC, 15.6 ppg, 1.18 cuft/sk.
Cement Squeeze	8,870.0	8,876.0	Top Meas Meth	Sqz perms under ret w 40 sx Class H neat, 15.6 ppg, 1.18 cuft/sk, TP 4200,

Perforations

Top (ftKB)	Btm (ftKB)	Shot Dens (shot s/ft)	Date	Zone	Calculated Shot Total
8,870.0	8,876.0	1.0	6/17/1986	ABO, <idrecwellbore>	7
8,748.0	8,758.0	1.0	6/21/1986	ABO, <idrecwellbore>	11
8,760.0	8,764.0	1.0	6/21/1986	ABO, <idrecwellbore>	5
8,766.0	8,768.0	1.0	6/21/1986	ABO, <idrecwellbore>	3
8,774.0	8,776.0	1.0	6/21/1986	ABO, <idrecwellbore>	3
8,778.0	8,783.0	1.0	6/21/1986	ABO, <idrecwellbore>	6

Stim/Treat Stages

Type	Start Date	Top (ftKB)	Btm (ftKB)	Com
Acidizing	6/18/1986	8,870.0	8,876.0	1800 gal 15% HCL NEFE, 14 BS, TP 4100-4400, ATR 2, good BA, BO, ISIP/15: 3700/3000
Acidizing	6/21/1986	8,748.0	8,783.0	7200 gal 15%, 56 BS, TP 3600-4100, ATR 2.8 BPM, very little BA, no BO, ISIP/15: 3000/1350, 215 bbls LTR.
Acidizing	5/10/2004	8,748.0	8,783.0	7000 gal 15% NEFE DXBX, 7500# RS, TP 3650-3950, ATR 1.8, had good salt action, had to back down rate to keep under max psi, ISIP/5/10/15: 3900/3826/3749/3678.

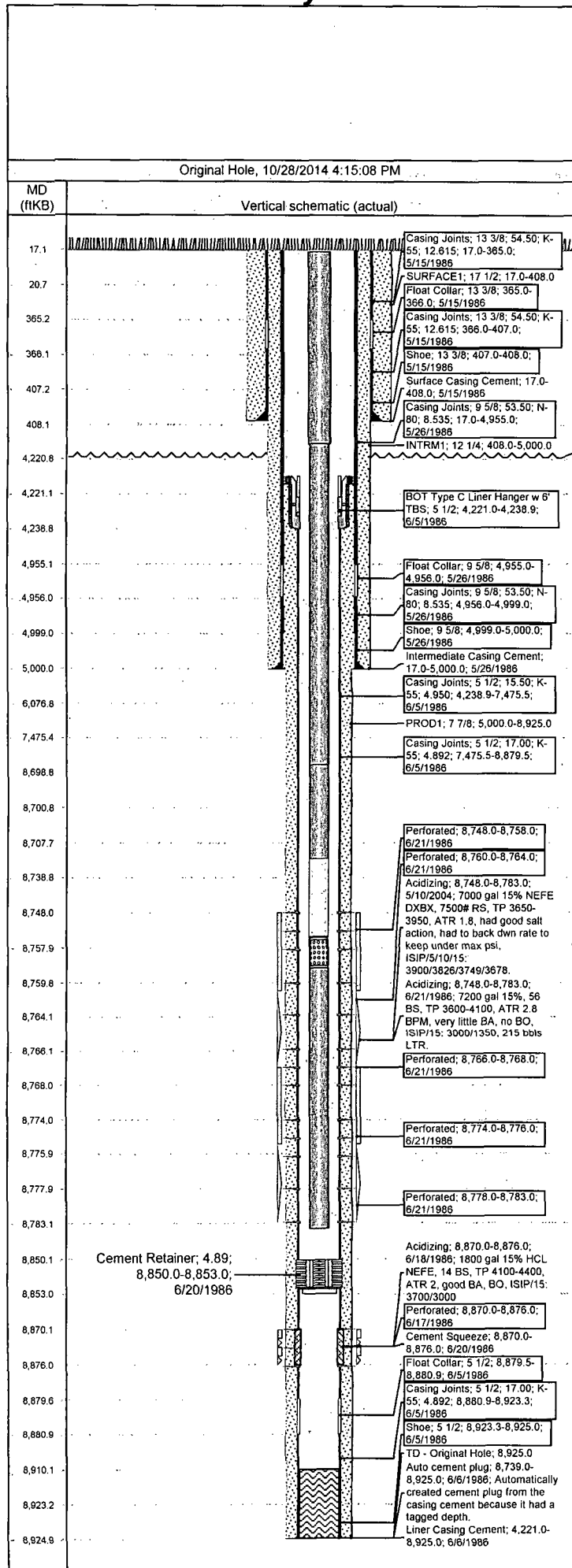
Other In Hole

Des	Com	OD (in)	Run Date	Top (ftKB)	Btm (ftKB)
Cement Retainer		4.892	6/20/1986	8,850.0	8,853.0

Tubing - Production set at 8,792.0ftKB on 8/13/2010 00:00

Set Depth (ftKB)	Comment			Run Date	Pull Date		
8,792.0				8/13/2010	4/30/2014		
Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 7/8	6.50	J-55	2,566.00	83	17.2	2,583.2
Cross Over	2 7/8	4.70		0.50	1	2,583.2	2,583.7

Schematic & History



Item Des	OD (in)	Wt (lb/ft)	Grade	Len (ft)	Jts	Top (ftKB)	Btm (ftKB)
Tubing	2 3/8	4.60	J-55	5,851.00	186	2,583.7	8,434.7
Anchor/catcher	4.89		J-55	3.00	1	8,434.7	8,437.7
Tubing	2 3/8	4.60	J-55	285.00	7	8,437.7	8,722.7
Tubing, YB IPC	2 3/8	4.60	J-55	32.00	1	8,722.7	8,754.7
Seat Nipple	2 3/8			0.30	1	8,754.7	8,755.0
Perforated Joint	2 3/8	4.70		4.00	1	8,755.0	8,759.0
MA	2 3/8	4.60	J-55	32.00	1	8,759.0	8,791.0
BP	2 3/8			1.00	1	8,791.0	8,792.0

Insert Pump on 8/13/2010 00:00

Rod Description

Insert Pump

Item Des	OD (in)	Grade	Jts	Len (ft)
Polished Rod & 1-3/4"x16' Liner	1 1/2	SM	1	22.00
Subs	1	D	6	24.00
Sucker Rod	1	D	88	2,200.00
Sucker Rod	7/8	D	87	2,175.00
Sucker Rod	3/4	D	171	4,275.00
Rod Guide	7/8	D	1	4.00
Rod Insert Pump	1 1/4		1	24.00
Gas Anchor	1 1/4		1	8.00

PRINTED IN U.S.A.

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MIDNIGHT

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Graphic Controls

DATE
BR 2221

Operator Cross Timbers Energy, LLC
Title AVN 360
Last Test 30-025-29610
Reason for Test POST WORK OVER
Start Press 360 PS26
End Press 360 PS26
Time / Date 8-43 AM
Supervisor JERRY PARKER
Inspector Bill McManis
Date 8/20/14

10004
10007
Aug 2014

Jerry Parker

