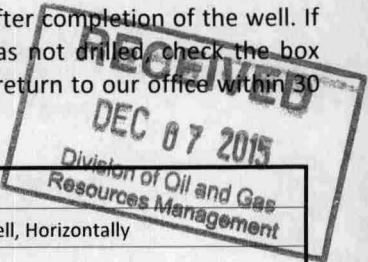


WELL COMPLETION RECORD (Form 8)

Ohio Department of Natural Resources
Division of Oil and Gas Resources Management
2045 Morse Road, Bldg. F-2, Columbus, OH 43229-6693
Telephone: (614) 265-6922; Fax: (614) 265-6910

This report is due in duplicate 60 days after completion of the well. If the permit has expired and the well was not drilled, check the box below, sign on reverse side (Back), and return to our office within 30 days after expiration.

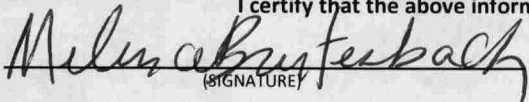


1. Owner #: 8063		3. API #: 34-013-2-0970-00-00				
2. Owner name, address and telephone numbers: XTO ENERGY, INC. 190 THORN HILL ROAD WARRENDALE, PA 15086 Telephone No.: 724-772-3500		4. Type of Permit: Reissue New Well, Horizontally				
8. Type of Well: OIL & GAS		5. County: BELMONT				
9. Tgt X: 2483260 Y: 721271 Surf: X: 2478643 Y: 729226		6. Civil Township: Tgt: Mead Surf: Pultney				
10. Quad: Businessburg		7. Footage: Tgt: 333' SL & 845' WL of SEC 33 (Mead Twp) Surf: 3606' SL & 1298' WL of SEC 4 (Pultney Twp)				
11. Section: 4 12. Lot:		21. Date drilling commenced: 10/5/2015				
13. Fraction: 14. Qtr. Twp:		22. Date drilling completed: 11/13/2015				
15. Tract:		23. Date put into production: N/A				
16. Allot:		24. Date plugged, if dry:				
17. Well #: 5H		25. Producing formation: N/A				
18. Lease Name: Wassmann Unit B 5H		26. Deepest formation: Point Pleasant				
19. PTD: 19520 20. Drilling unit: 227.2119		27. Driller's total depth: 19,888				
		28. Logger's total depth: 19,798				
30. Type of tools: <input type="checkbox"/> Cable <input checked="" type="checkbox"/> Air Rotary <input checked="" type="checkbox"/> Fluid Rotary <input type="checkbox"/> Service Rig		31. Type of completion: <input type="checkbox"/> Open Hole <input type="checkbox"/> Through Casing <input type="checkbox"/> Slotted Liner				
		32. Elevation: Ground Level 1,230 Derrick Floor Kelly Bushing				
33. Perforated intervals and number of shots:						
34. Name of Frac Company:						
35. Method of shot, acid, or fracture treatments, production tests, pressures, etc.: SHOT: Lbs. Qts. Type ACID: Gals. Type FRAC FLUIDS: Water (gals) Water (bbl) CO2 (tons) N2 (mscf) SAND: Lbs. Sks. PRESSURES (psi): Breakdown ATP ISIP 5 min. SIP Avg. Rate METHOD OF FLUID CONTAINMENT FLUIDS: Swab Flowback PIT FRAC TANK DATE TREATED: <input type="checkbox"/> Well Stimulation Additives Report (Form 8B) Attached <input type="checkbox"/> Stimulation Information Reported to FracFocus.						
36. Amount of initial production per day: (MCF) (Bbls) (Bbls) Natural: Gas Oil Brine After Treatment: Gas Oil Brine SERC Data: Number of Tanks: Maximum Storage Capacity of all Tanks (bbls.)						
37. Casing and tubing record: Type Wellbore Diameter Casing Size Feet Installed Amount of Cement (Sacks) Feet Left in Well Number of Centralizers Conductor/Drive Pipe: 36 30 100 275 100 0 Surface: 26 18 5/8 565 4100 565 4 Mine String: <input checked="" type="checkbox"/> Attach Form 8A (Surface Hole Additives Report) Intermediate 1: 17 1/2 13 3/8 2352 1725 2352 20 Intermediate 2: 12.25 9 5/8 9122 1340 9122 30 Production: 8 1/2 5 1/2 17086 2247 17086 150 Tubing: Other:						
38. Name of drilling contractor: First Class Energy, Patterson						
39. Type of electrical and/or wireline logs run: Gamma Ray while drilling (all logs must be submitted)						
40. Name of logging company: MS Energy Services & Baker Hughes						

DIVISION USE ONLY		FRAC DATA SUBMITTED:		Well Class:	
Log Submitted:	Yes/No	Pressure/Rate Graph	<input type="checkbox"/>		
Confidential:	Yes/No	Record	<input type="checkbox"/>		
		Invoice	<input type="checkbox"/>		

FORMATION	TOP	BASE	Shows of oil, gas, fresh water, or brine; indicate depth or interval	REMARKS
Fresh water Strata				None Seen
Glacial Deposits				
Coal Seams	533	545		Unconsolidated Rock
1st Cow Run				
Buell Run				
2nd Cow Run				
Salt Sand				
Maxton Sand				
Keener Sand	1570	1638		
Big Injun Sand	1638			
Squaw Sand				
Mississippian Shale				
Weir Sand				
Berea Sand	2230		Gas	
Bedford Shale				
2 nd Berea				
Ohio Shale				
Gantz				
Thirty Foot				
Gordon				
Cinnamon				
Rhinestreet	5250	5600		
Marcellus	5894	5960	Gas	
Big Lime	5960	6180		
Sylvania				
Oriskany				
Bass Island	6663			
Salina		6800		
Salt Section	6800	7680		
Newburg				
Lockport	7680	8010		
Little Lime				
Packer Shell	8285	8400		
Stray Clinton				
Red Clinton	8400			
White Clinton		8600		
Medina				
Queenston	8600	10436		
Utica	10436	10381 436	Gas	
Point Pleasant	10381		Gas	
Trenton	436			
Black River				
Gull River				
Glenwood Shale				
Knox Unconformity				
Beekmantown				
Rose Run				
Trempealeau/Copper Ridge				
"B" Zone				
Krysik				
Kerbel				
Conasauga				
Rome				
Mt. Simon				
Granite Wash				
Middle Run				
Granite				

I certify that the above information is true and correct, to the best of my knowledge:


(SIGNATURE)

Melissa Breitenbach
(NAME TYPED OR PRINTED)

11/19/2015
(DATE)

Regulatory Coordinator
(TITLE)

XTO ENERGY, INC.
(REPRESENTING)



C&J Energy Services

MEMO

C&J Energy Services

380 Southpointe Blvd., Suite 210

Canonsburg, PA 15317

Phone: 724.746.2414

www.cjes.com

DATE: October 16, 2015

TO: XTO Energy

FROM: Jason Winegarden

RE: Wassmann Unit 5H Mine Casing Post Job Report

Attached are the job log, PRD plot, and field ticket for the above referenced job performed on 10/9/15.
Key job points are detailed below.

Well Details:

100' of 30" conductor previously set
565' of 18 5/8", 87.5 lb/ft casing in 26" open hole

Cement Slurry:

2700 sx Type I + 3% CJ110 Accelerator + 1/4 lb/sk CJ600 LCM
Density: 15.6 lb/gal
Yield: 1.2 ft³/sk
Mix Water: 5.21 gal/sk

200 sx Type I + 3% CJ110 Accelerator + 5% CJ101 Accelerator + 1/4 lb/sk CJ600 LCM
Density 15.6 lb/gal
Yield 1.26 ft³/sk
Mix Water: 5.4 gal/sk

Job Details

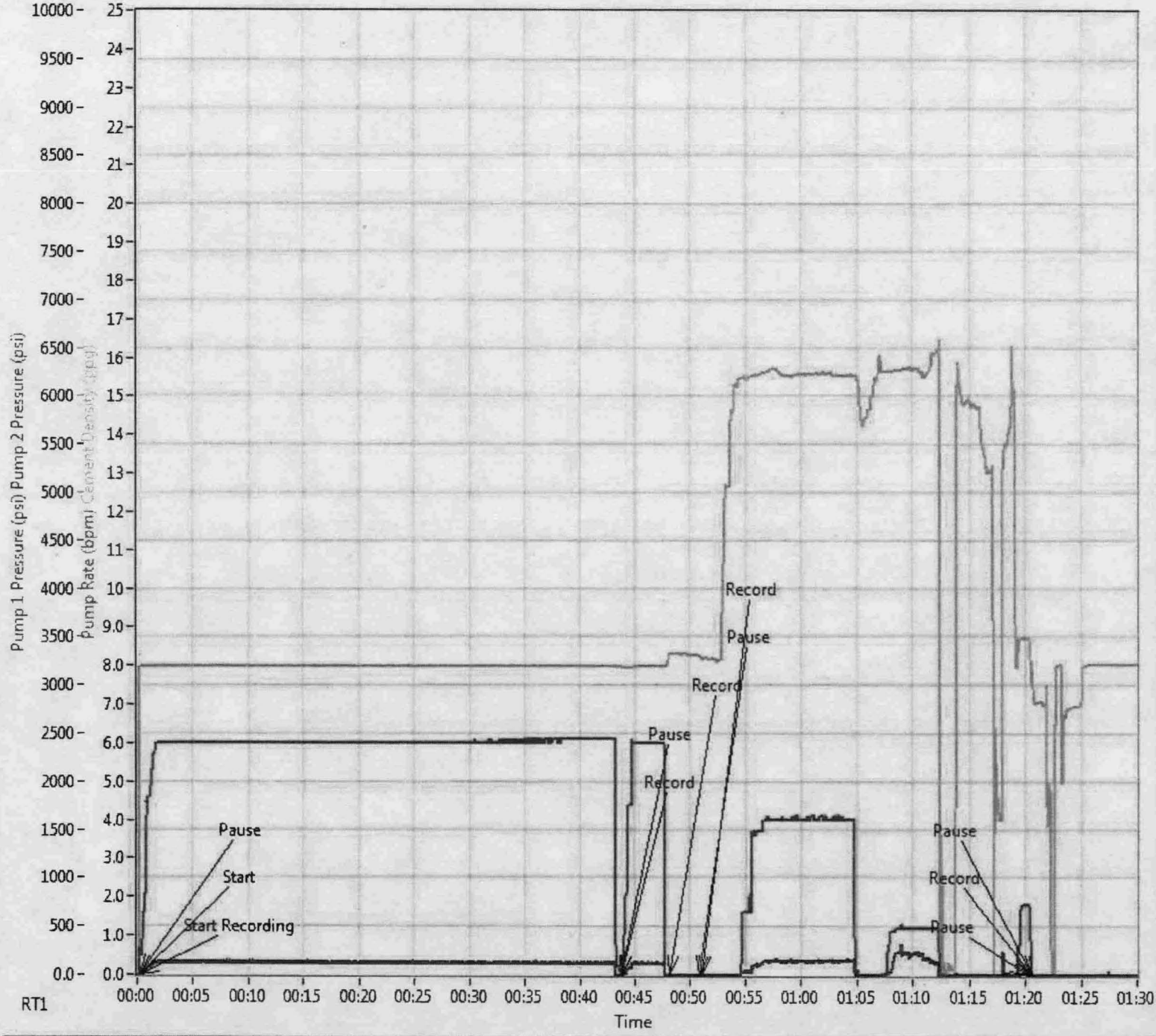
Crew arrived to location at 12:00 PM on 10/9/15
Job began 6:15 AM on 10/10/15
Mine tagged twice at 550' and 549' with slickline
Pumped 38 bbl cement down casing for mine bottom
Pumped 5 bbl of cement down backside on basket
Cement allowed to set
Pumped 363 bbl of cement down backside, no returns to surface
Waited 9 hours for cement to be delivered
Pumped 85.5 bbl of cement down backside, let set for 2 hours
Pumped 45 bbl of cement with CJ101 accelerator down backside, let set for 2 hours
Pumped 43 bbl cement, returns seen at surface
Job complete 10/11/15 at 12:08 AM

Cement Job Log

Prepared by: William Jones
Black Lick, PA
724-248-1001

Customer XTO			Date: 9/9/2015		Invoice #: 22- 009081		Serv. Supervisor: Bill Jones				
Lease: WASSMANN B UNIT 5H			Permit # 37-013-2-0970			County and State: BELMONT, OH					
District: BELMONT			Rig: FIRST CLASS			Type of Job: 18 5/8 SURFACE JOB					
Employees & Units on Job Site:			Bill Jones 91-4422		MIKE EPPLEY 92-1159		DAN DEYARMIN 92-1677				
DAN TRAVIS 92-0725		MIKE CLAPPER 92-1143		TRAVIS SCOTT 92-0914		BOB LONG 92-1146					
TONY BARBARA 91-2411		BRIAN WERBA 92-1152									
Materials Furnished by NABORS COMPLETION & PRODUCTION SERVICE CO.											
Plugs		Casing Hardware			Physical Slurry Properties						
					Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Bbls	Bbls of Mix Water	
Spacer:											
Lead:		STANDARD CEMENT 3% CALCIUM CHLORIDE, 1/4# FLAKE			200	15.6	1.26	5.4	45	28	
5% W 60 GYPSUM.											
Tail:		STANDARD CEMENT 3% CALCIUM CHLORIDE, 1/4# FLAKE			2700	15.6	1.2	5.21	534.3	310.12	
Acid:											
Displacement Chemicals:											
HOLE			TUBING - CASING - DRILL PIPE						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE	ID	SHOE	FLOAT	STAGE
26	100%	595	18 5/8		casing	565					
LAST CASING			PKR / CMT RET / LINER PKR		PERF DEPTH		TOP CONN		WELL FLUID		
SIZE	ID	DEPTH	BRAND / TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT
30		100						8	Round	H2O	8.33
DISPL VOLUME		DISPL FLUID		CAL PSI	WATER		CEMENT TEMP		MAX PRESSURE		Bbls H2O on Loc.
VOLUME	UOM	TYPE	WGT	BMP PLUG	PH	TEMP	GOING DOWN HOLE		RATED	WORKING	
	BBL	H2O	8.33		7	82	98/105			185	1000
Time Hrs	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard		10AM	Time Left Loc		1:30 AM	
					Time Arrived on Loc		1PM	Time Arrived Yard		5:00 AM	
12PM					Require Time on Loc						
1:15PM					safety hunt						
2PM					spot Trucks & Run Line to Well & Prime up Pumps						
9PM					safety meeting						
9:23PM	6	140	475	H2O	PUMPED CASING IN HOLE IT DIDN'T GO IN, TOOK JOINT OUT PUT PUP JOINT ON						
5:20AM	6	125	255	H2O	PUMPED PUP JOINT IN HOLE						
6:15AM				N/A	TAGED WELL AT 550						
6:20AM	6	34	20	H2O	PUMPED 20 BBL DOWN HOLE						
6:40AM				N/A	RETAGED WELL AGAIN GOT 549'						
6:51AM	4	50	38	CEMT	PUMPED 38 BBL OF CEMENT INSIDE CASING @ 15.6 PPG						
7:07AM	1.2	225	5	CEMT	PUMPED 5 BBL ON BACKSIDE @ 15.6 PPG						
7:15AM				N/A	SHUT DOWN TO LET THAT 5 BBL TO SET UP						
8:25AM	4.5	250	363	CEMT	PUMPED 363 BBL CEMENT @ 15.6 DOWN THE BACK SIDE AND NEVER CAME TO						
10:30AM					SURFACE SHUT DOWN WAITING FOR MORE CEMENT						
7:45 PM	4	115	85.5	CEMT	PUMPED CEMENT @ 15.6 PPG, BACKSIDE						
8:30 PM					SHUT DOWN LET SET.						
10:16 PM	4	170	45	CEMT	PUMPED 200 SAC of 15.6 PPG CEMENT W/ 3% CC, 5% GYPSUM, 1/4# sac FLAKE						
10:31 PM					SHUT DOWN LET SET.						
11:51 PM	4	185	43	CEMT	PUMPED CEMENT @ 15.6 PPG, BACKSIDE						
12:08 AM					SHUT DOWN CEMENT TO SURFACE>						
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface	Total Circulation	Recommended time to wait on cement		Bill Jones Service Supervisor			
NA		NA		0 Bbls		8 Hours					

Surface Casing - Recorded Time Plot 1 - 1 of 3



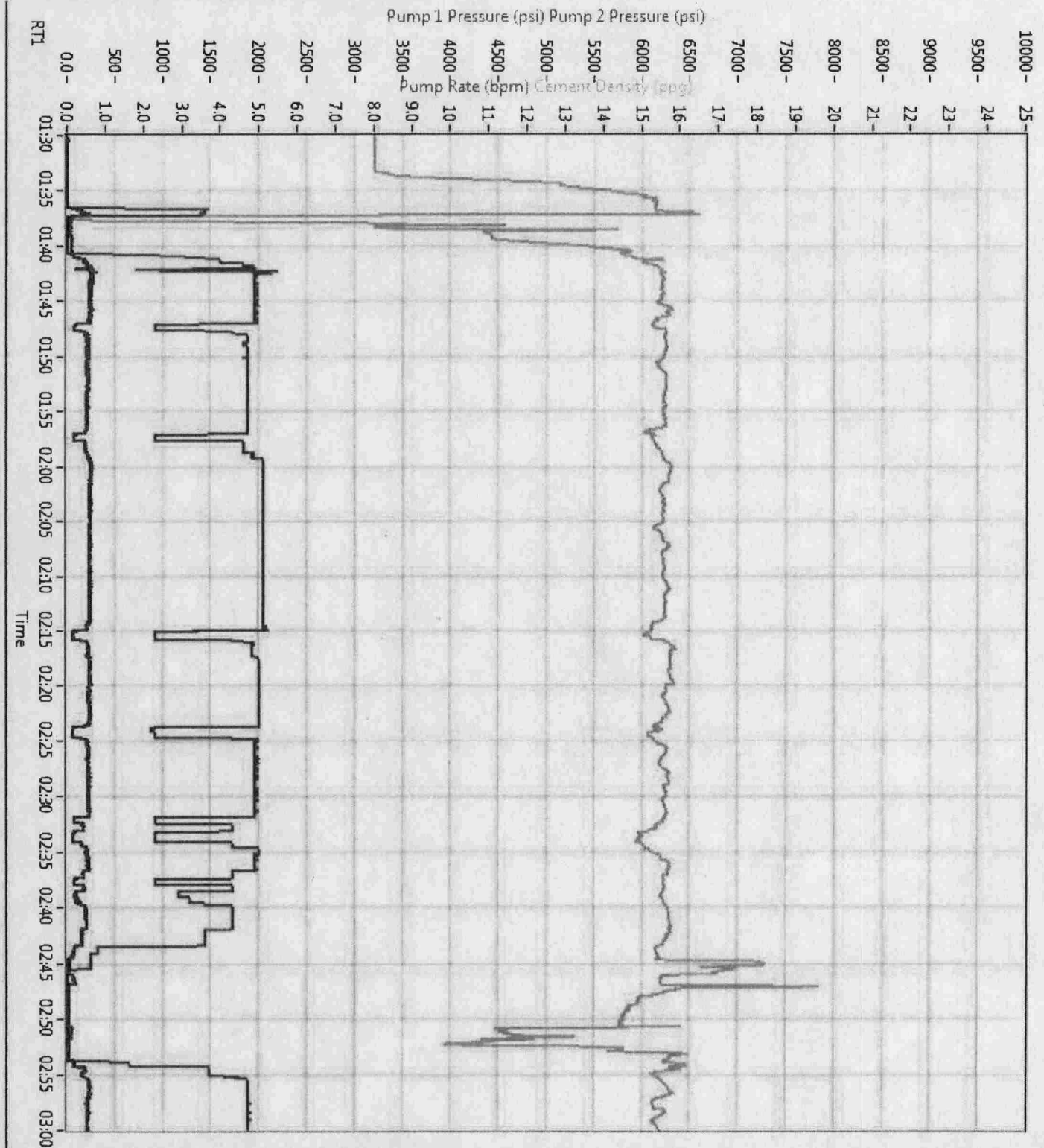
Surface Casing - Recorded Time Plot 1 - 1 of 3

22-000009081-0001 / Sat, Oct 10, 2015

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Cement Report

Surface Casing - Recorded Time Plot 1 - 2 of 3



Surface Casing - Recorded Time Plot 1 - 2 of 3

22-000009081-0001 / Sat, Oct 10, 2015

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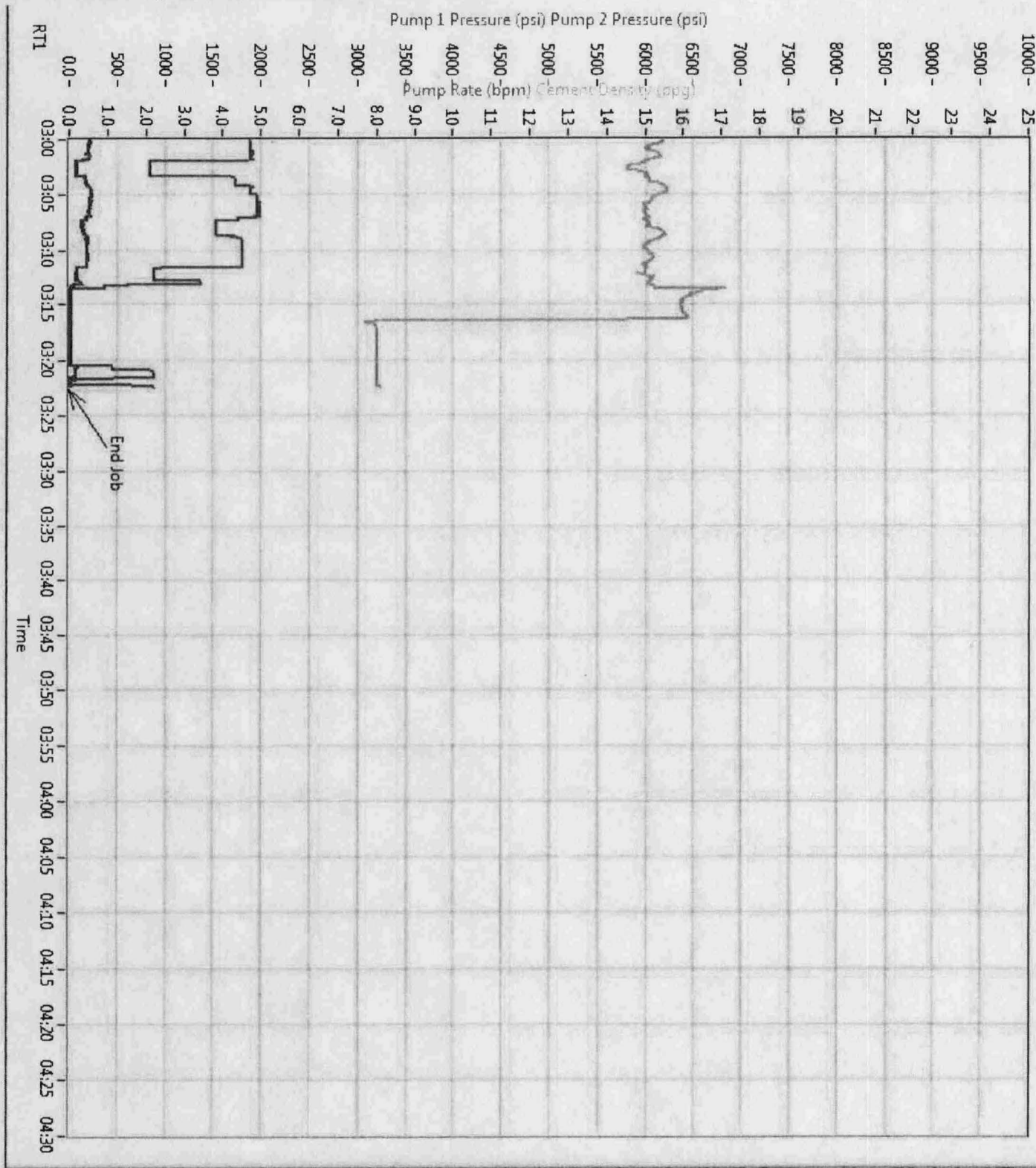


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Cement Report

Surface Casing - Recorded Time Plot 1 - 3 of 3



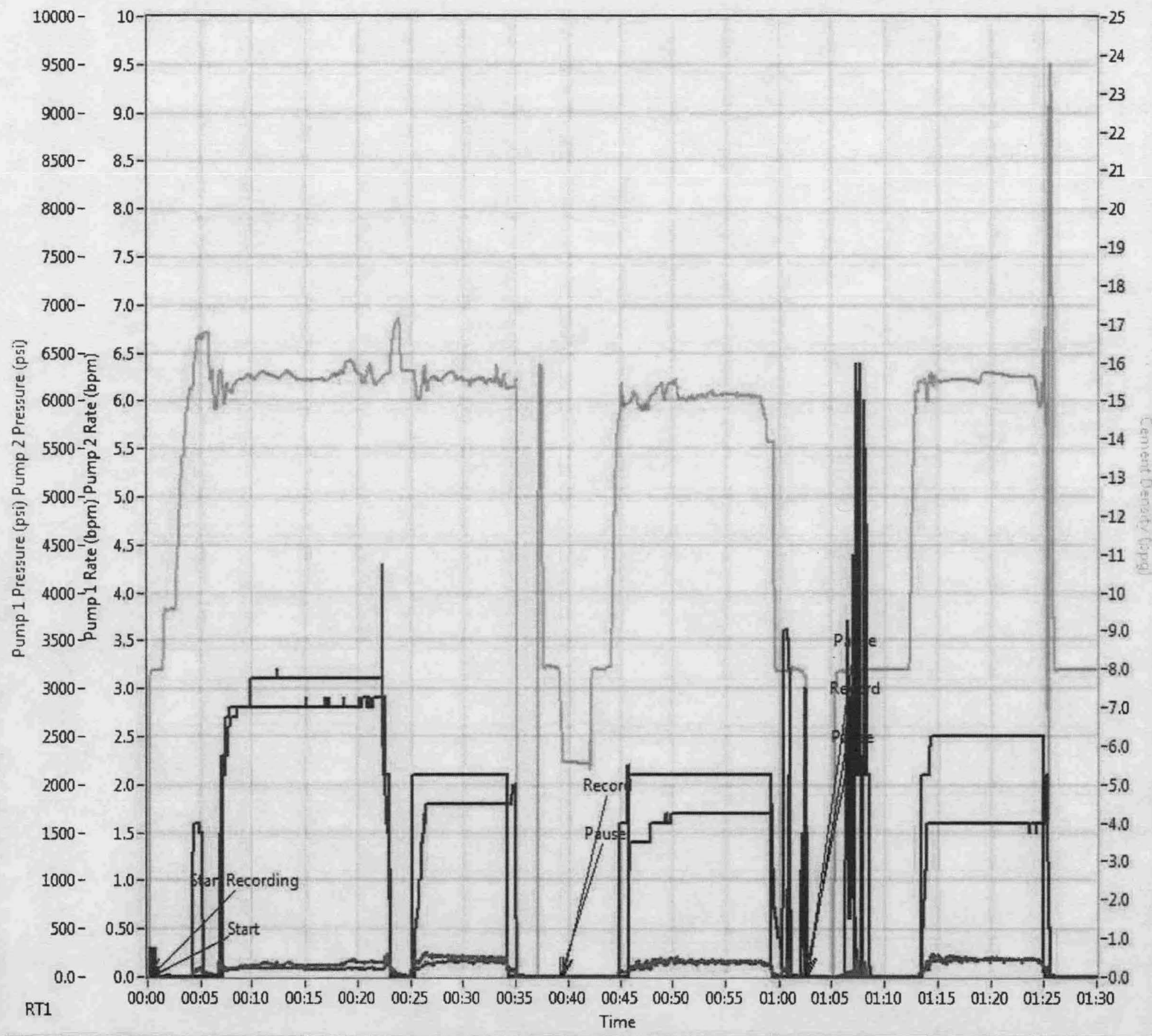
Surface Casing - Recorded Time Plot 1 - 3 of 3

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Production Casing 5-1/2" - Recorded Time Plot 1 - 1 of 2



Production Casing 5-1/2" - Recorded Time Plot 1 - 1 of 2

XXXXXX-000009081-0000 / Sat, Oct 10, 2015

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C&J Energy Services

MEMO

C&J Energy Services
380 Southpointe Blvd., Suite 210
Canonsburg, PA 15317

Phone: 724.746.2414
www.cjes.com

DATE: October 16, 2015

TO: XTO Energy

FROM: Jason Winegarden

RE: Wassmann Unit 5H Lost Circulation Plug Post Job Report

Attached are the job log, PRD plot, and field ticket for the above referenced job performed on 10/13/15. Key job points are detailed below.

Well Details:

565' of 18 5/8", 87.5 lb/ft casing previously set
26" OH to 595', 17.5" OH to 648'

Cement Slurry:

725 sx Type I + 3% CJ110 Accelerator + 1/4 lb/sk CJ600 LCM
Density: 15.6 lb/gal
Yield: 1.2 ft³/sk
Mix Water: 5.21 gal/sk

Job Details

Crew arrived to location 10/13/15 at 4:43 AM
Job began 10/13/15 at 5:30 AM
Fluid level tagged at 552'
Spot 90 bbl cement plug with drill pipe set at 620'
WOC 2 hours, tag fluid level at 552', tag cement level at 568'
Pump 20 bbl water, tag fluid level at 464', wait 1 hour
Pump 5 bbl water, tag fluid level at 464', wait 1 hour
Pumped 15 bbl water, tag fluid level at 464'
Spot 64.5 bbl cement plug with drill pipe set at 557'
WOC 1 hour
Tag fluid top at 268', cement top at 355'
Crew released 10/13/15 at 9:30 PM



**NABORS COMPLETION &
PRODUCTION SERVICES CO.**

Cement Job Log

Prepared by: Dave Deyarmin
Black Lick, PA
724-248-1001

Customer XTO			Date: 10/13/2015		Invoice #: 22- 00013		Serv. Supervisor: Dave Deyarmin				
Lease: WASSMANN B UNIT 5H			Permit # 37-013-2-0970			County and State: BELMONT O.H					
District:		Rig: FIRST CLASS			Type of Job: Squeeze Job						
Employees & Units on Job Site:			DAVE DEYARMIN 91-3268		LUKE JACK 91-2354		CRAIG ASHBAUGH 92-1154				
TRAVIS SCOTT 92-1680		M LEE 92-1416		M COLES EXTRA							
Materials Furnished by NABORS COMPLETION & PRODUCTION SERVICE CO.											
Plugs		Casing Hardware			Physical Slurry Properties						
		WIRE LINE WITH BOBBER			Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Bbls	Bbls of Mix Water	
Spacer:											
Lead:											
Tail:		STANDARD CEMENT 3% 1/4 # FLAKE			725	15.6	1.2	5.21	160	90	
Acid:											
Displacement Chemicals:											
HOLE			TUBING - CASING - DRILL PIPE						COLLAR DEPTHS		
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE	ID	SHOE	FLOAT	STAGE
17.5	100%	648	NA		OPEN HOLE						
LAST CASING			PKR / CMT RET / LINER PKR		PERF DEPTH		TOP CONN		WELL FLUID		
SIZE	ID	DEPTH	BRAND / TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT
18 5/8		565									
DISPL VOLUME		DISPL FLUID		CAL PSI	WATER		CEMENT TEMP		MAX PRESSURE		Bbls H2O on Loc.
VOLUME	UOM	TYPE	WGT	BMP PLUG	PH	TEMP	GOING DOWN HOLE		RATED	WORKING	
	BBL	H2O	8.33		7	57.3	79.4				11:00
Time Hrs	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard		1:36 AM	Time Left Loc		10:00 PM	
					Time Arrived on Loc		4:43 AM	Time Arrived Yard			
9:35 PM					CALLED IN FOR JOB						
1:29 AM					PRE CONVOY SAFTEY MEETING						
1:36 AM					LEFT YARD						
4:43 AM					ARRIVE ON LOCATION						
4:58 AM					PRE JOB SAFETY MEETING						
5:11 AM					SPOT TRUCKS						
5:17 AM					RUN LINES TO WELL PRIME PUMPS						
5:28 AM					SAFTEY MEETING						
5:57 AM					TAG FLUID @ 552						
7:20 AM	5	150	5	H2O	PUMP H2O						
7:23 AM					PRESSURE TEST						
7:25 AM	0.1	1150	15	H2O	PUMP H2O						
7:31 AM	5	340	90	CEMT	MIX AND PUMP CEMENT @ 15.6						
7:51 AM	3	70	5	H2O	PUMP H2O						
7:53 AM					SHUT DOWN PULL OUT TO 350'						
8:19 AM	3	45	4	H2O	PUMP H2O						
8:23 AM					PULL OUT TO SURFACE						
9:43 AM					TAG FLUID @ 552						
					TAG CEMENT @ 568						
					TAG FLUID @ 552						
11:49 AM	4	75	20	H2O	PUMP H2O						
					TAG FLUID @ 464						
12:37 PM	4	75	5	H2O	PUMP H2O						
					TAG FLUID @ 464						
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface	Total Circulation	Recommended time to wait on cement		Dave Deyarmin			
NA		NA	0		Bbls			Hours		Service Supervisor	

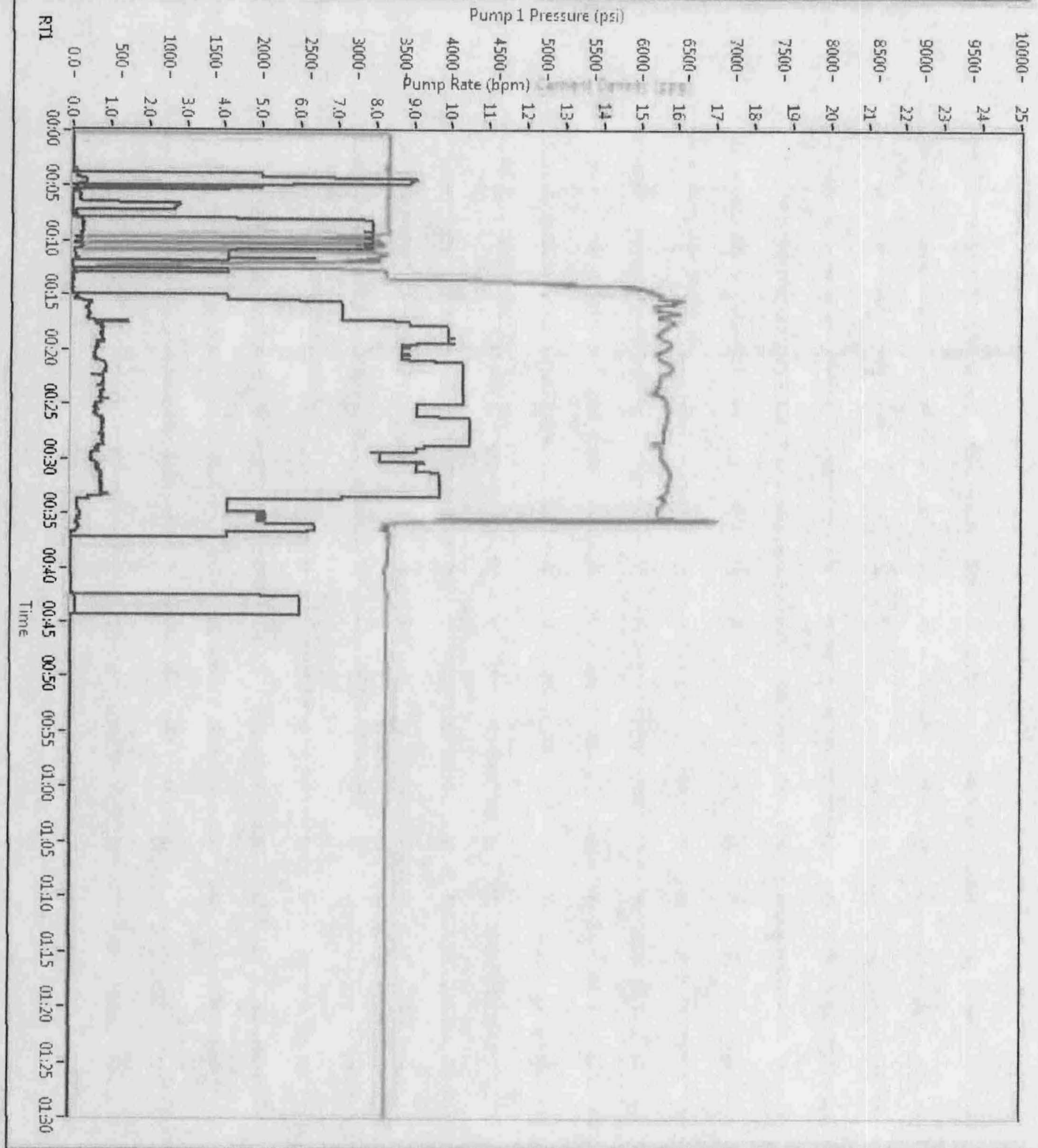


Prepared by: Dave Deyarmin
Black Lick, PA
724-248-1001

**Customer
Signature**

XTO ENERGY / wassmann b 5h / pressure test

Cement Report



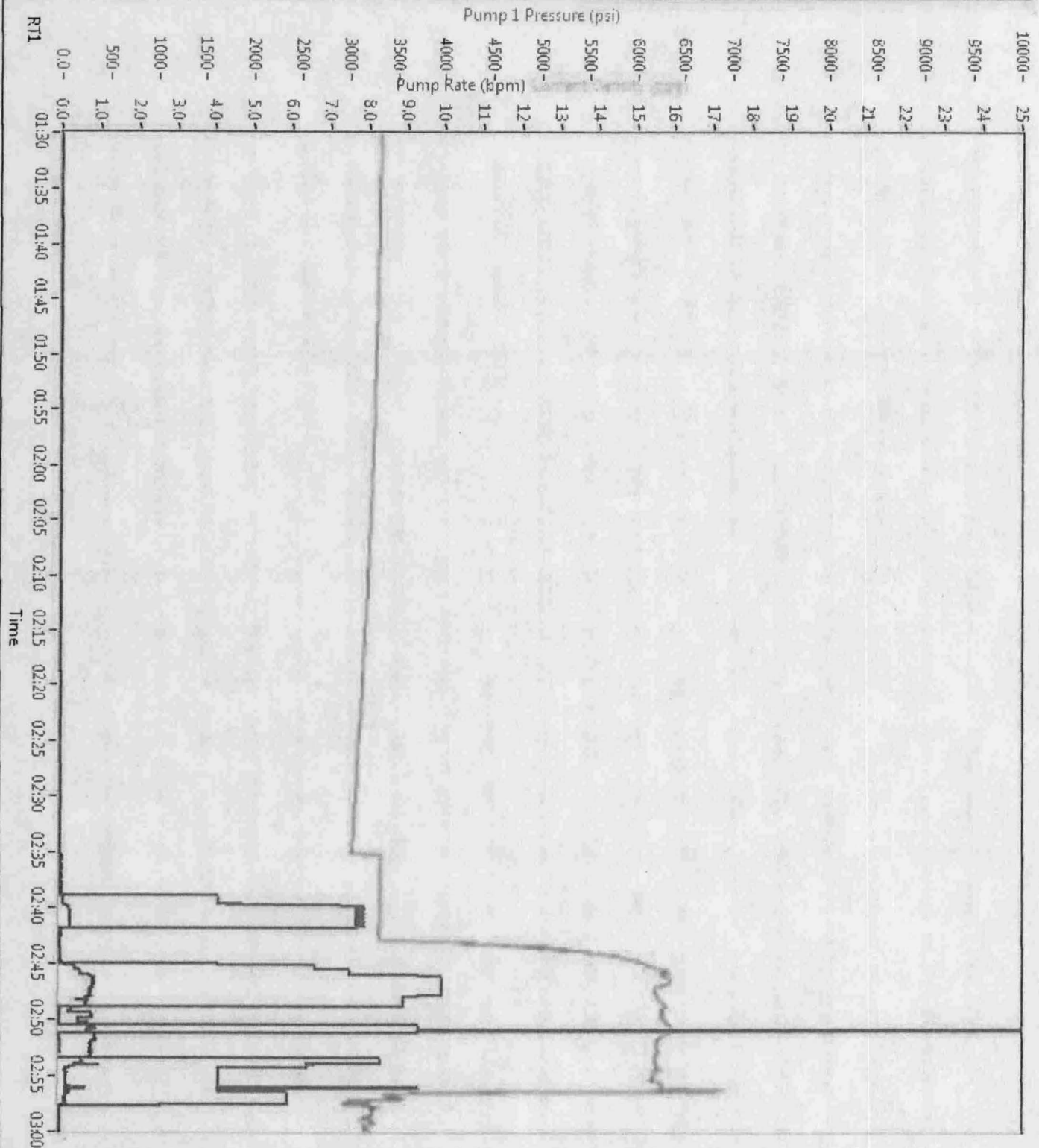
Mine String - Recorded Time Plot 1 - 1 of 3

S-0000000015188-00 / Tue, Oct 13, 2015

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XTO ENERGY / wassmann b 5h / pressure test

Cement Report



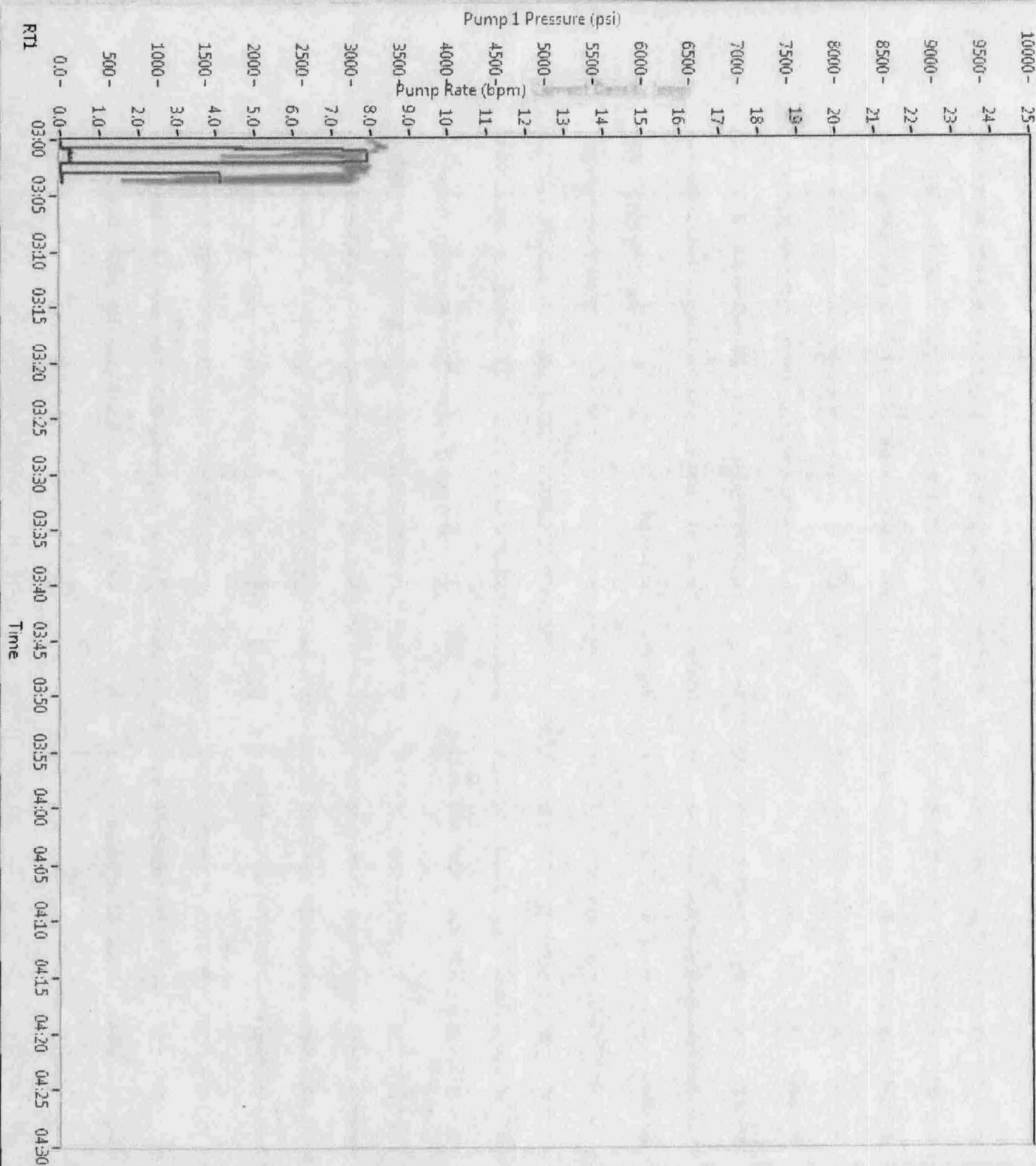
Mine String - Recorded Time Plot 1 - 2 of 3

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XTO ENERGY / wassmann b 5h / pressure test

Cement Report



Mine String - Recorded Time Plot 1 - 3 of 3

S-0000000015188-00 / Tue, Oct 13, 2015

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C&J Energy Services

MEMO

C&J Energy Services
380 Southpointe Blvd., Suite 210
Canonsburg, PA 15317

Phone: 724.746.2414
www.cjes.com

DATE: November 06, 2015

TO: XTO Energy

FROM: Jason Winegarden

RE: Wassmann B Unit 5H 1st Intermediate Casing Job Report

Attached are the job log, PRD plot, and field ticket for the above referenced job performed on 10/29/15. Key job points are detailed below.

Well Details:

2355' of 13 3/8" casing inside 17 1/2" OH
620' of 18 5/8" casing previously set

Spacer:

1000 lb Bentonite in 50 bbl water

Tail Cement Slurry:

1725 sx Type I + 1/4 lb/sk CJ600 LCM
Density: 15.2 lb/gal
Yield: 1.25 ft³/sk
Mix Water: 5.7 gal/sk

Job Details

Crew arrived to location 10/29/15 at 12:00 PM
Job began at 6:10 PM
Average Mixing Rate: 4.8 bbl/min
While mixing cement, hydraulic line on pump truck ruptured. Crew switched to backup pump and continued mixing. 15 minutes downtime for truck swap.
Average Displacement Rate: 5.2 bbl/min (rig pumped displacement)
Amount of Cement Circulated to Surface: 81 bbl
Bump plug to 1580 psi, float equipment held
Job complete 10/29/15 at 9:05 PM

[illegible]

wellPORT

CEMENT REPORT



Title Page

Field Ticket

XXXXXX-999999999-
0011

Date

Thu, Oct 29, 2015

Black Lick (22)
Nabors Completion &

Mark Blystone

Route 119 N
Black Lick PA 15716
724-248-1001
724-248-1005

Job Type

Inner String Cement Job - 13 3/8

Lease Project

WASSMANN

Number / ID

BELMONT

OH

Physical Location

Country

Customer

XTO ENERGY INC (XTO1)

Division / District

Mailing Address

PO BOX 197

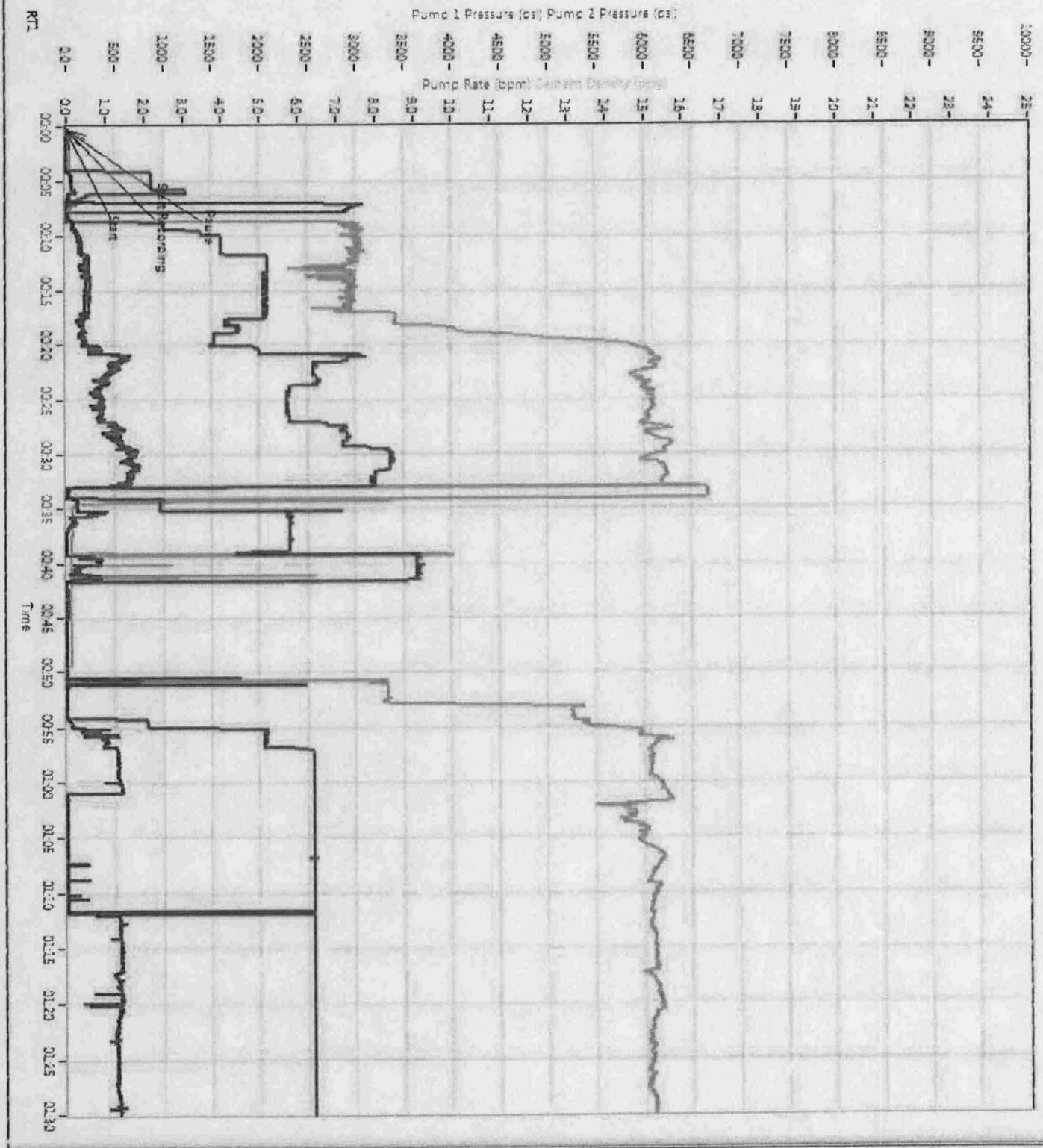
RINGWOOD OK 73768

TOM

PO/RFQ/AFE Code

Cement Report

Intermediate Casing - Recorded Time Plot 1 - 1 of 3

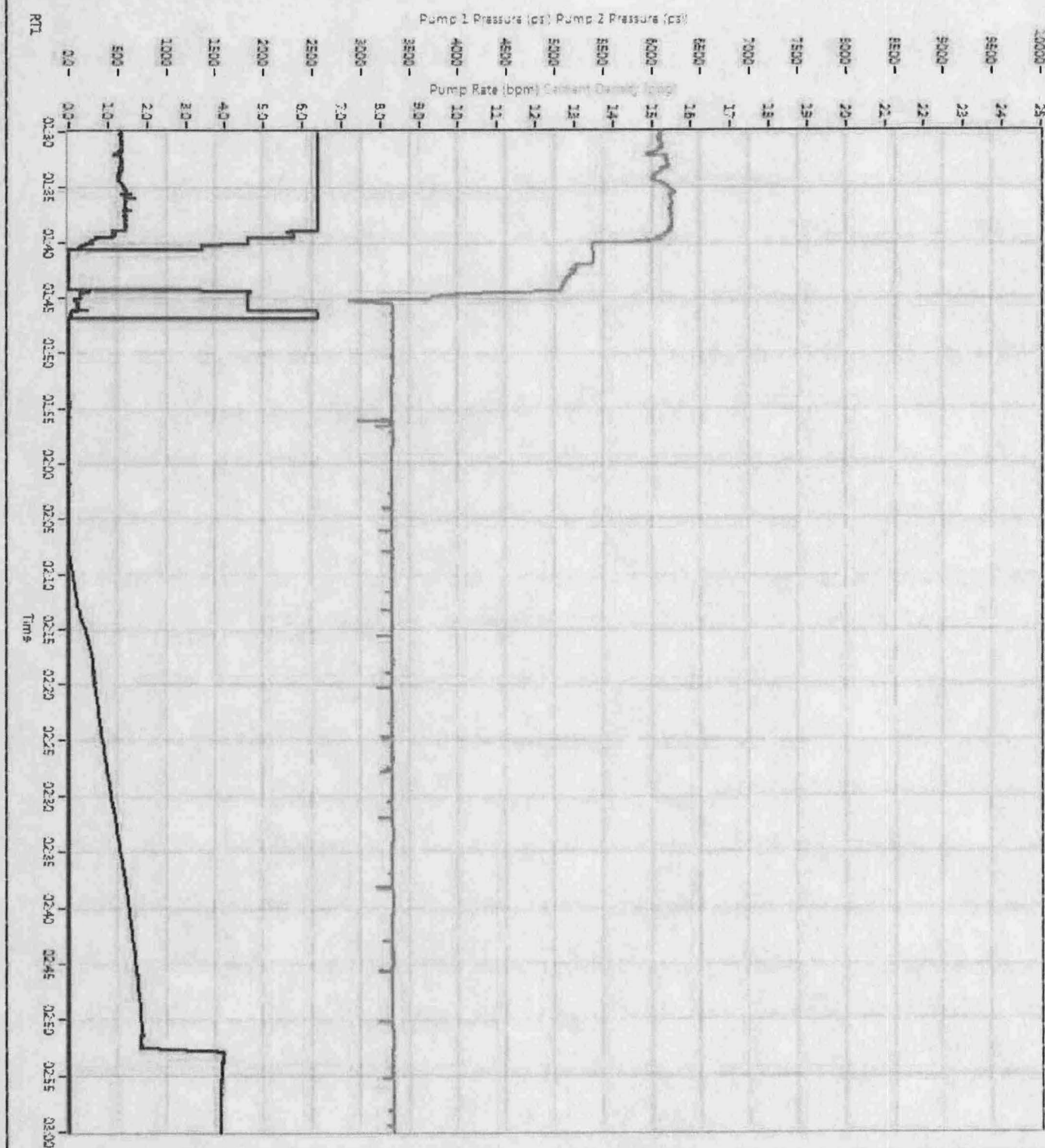


Intermediate Casing - Recorded Time Plot 1 - 1 of 3

XXXXX-999999999-0011 / Thu. Oct 29. 2015

Cement Report

Intermediate Casing - Recorded Time Plot 1 - 2 of 3



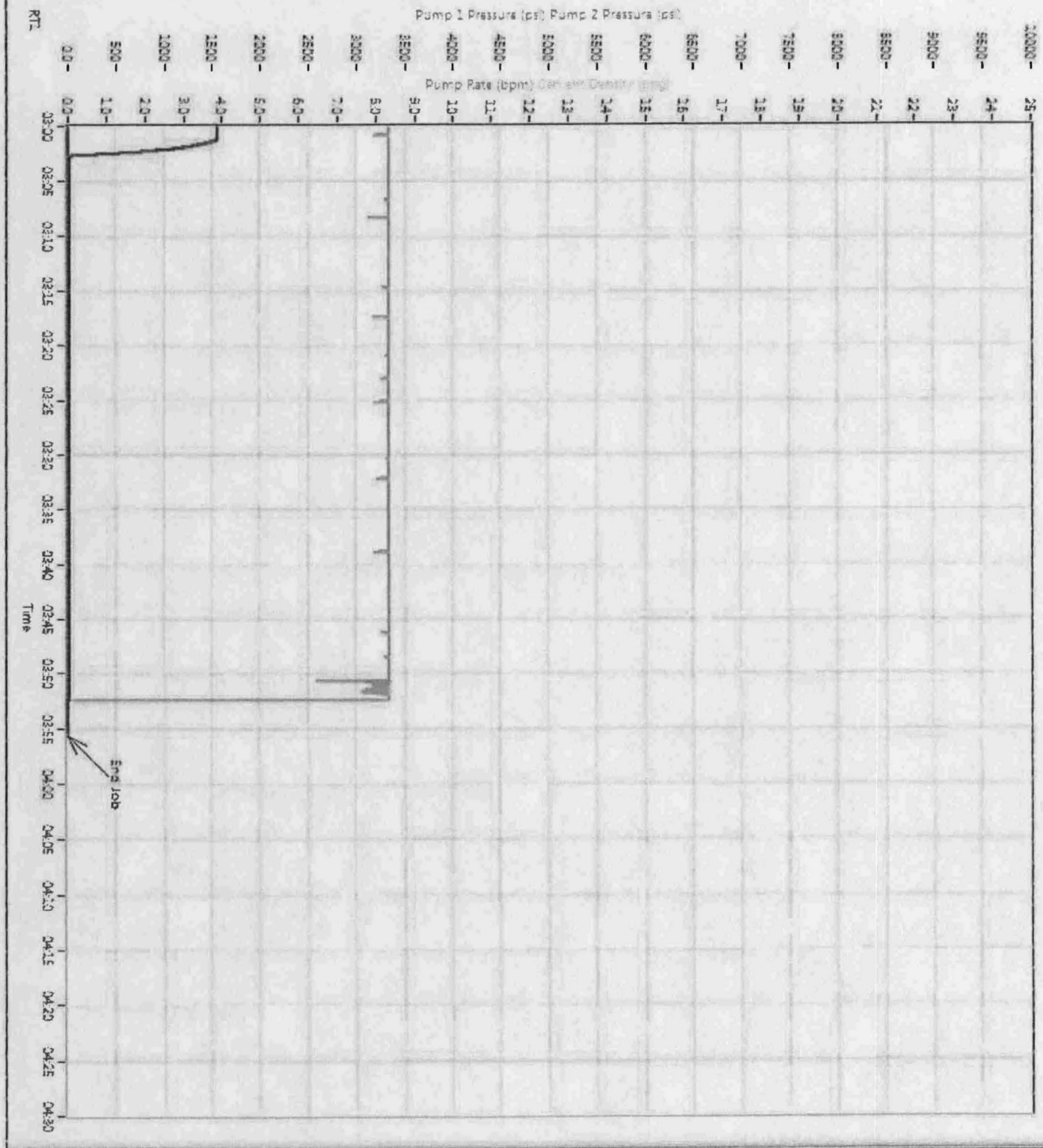
Intermediate Casing - Recorded Time Plot 1 - 2 of 3

XXXXX-999999999-0011 / Thu. Oct 29, 2015

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Cement Report

Intermediate Casing - Recorded Time Plot 1 - 3 of 3



Intermediate Casing - Recorded Time Plot 1 - 3 of 3

XXXXX-999999999-0011 / Thu. Oct 29. 2015

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C&J Energy Services

MEMO

C&J Energy Services
380 Southpointe Blvd., Suite 210
Canonsburg, PA 15317

Phone: 724.746.2414
www.cjes.com

DATE: November 10, 2015

TO: XTO Energy

FROM: Jason Winegarden

RE: Wassmann B 5H 2nd Intermediate Post Job Report

Attached are the job log, PRD plot, field blend lab report, and field ticket for the above referenced job performed on 11/06/15. Key job points are detailed below.

Well Details:

9125' of 9 5/8" casing inside 12 1/4" OH
2352' of 13 3/8" casing previously set

Spacer:

263 bbl PureScrub Spacer (25 gallons CJ880 Surfactant added to first 50 bbl)

Lead Cement Slurry:

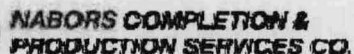
715 sx 35:65 Poz:H + 10% NaCl (BWOW) + 0.2% CJ402 Dispersant + 0.2% CJ710 Defoamer + 0.2% CJ500 Fluid Loss
Density: 15.2 lb/gal
Yield: 1.16 ft³/sk
Mix Water: 4.90 gal/sk
Thickening Time: 6hr 18min

Tail Cement Slurry:

625 sx Class H, 0.2% CJ402 Dispersant, 0.2% CJ500 Fluid Loss, 0.2% CJ710 Defoamer
Density: 15.6 lb/gal
Yield: 1.18 ft³/sk
Mix Water: 5.18 gal/sk
Thickening Time: 5hr 06min

Job Details

Crew arrived to location 11/06/15 at 11:30 PM
Job began 11/07/15 at 4:10 AM
Average Mixing Rate: 6.2 bpm
Average Displacement Rate: 6.0 bpm (rig pumped displacement)
Amount of Cement Circulated to Surface: 0 bbl
Plug bumped to 2096 psi, float equipment held
Job complete 11/07/15 at 7:45 AM



Prepared by: Luke Jack
Black Lick, PA
724-248-1001

Customer XTO						Date:	11/6/2015	Invoice #:	22-	Serv. Supervisor:	Luke Jack	
Lease: Wassmann B Unit # 5 H						Permit #	34-013-2-0970-00-00				County and State:	Belmont OH
District:						Rig:				Type of Job:	9 5/8 Intermediate	
Employees & Units on Job Site:						Luke Jack	91-2354	Craig Ashbaugh	92-1005	Dan Travis	92-1409	
Iraivis Scott	92-1002	Matt Lee	92-1412	Bob Long	92-1152	Brain Werba						
Materials Furnished by NABORS COMPLEATION & PRODUCTION SERVICE CO.												
Plugs		Casing Hardware				Physical Slurry Properties						
						Sacks of Cement	Slurry Wt PPG	Slurry Yield CuFt	Water GPS	Bbls	Bbls of Mix Water	
Spacer:	CJ810 PureScrub Spacer (Super Surf W2)					902	13.5			263		
Lead:	35/65 Flyash/Class H 10% Salt .2% Sec-10 .2% CD-20 .2% Air-out					715	15.2	1.16	4.9	147.7	83.4	
Tail:	Class H .2% Sec-10 .2% CD-20 .2% Air-out					625	15.6	1.18	5.18	131.3	77	
Acid:												
Displacement Chemicals:												
HOLE			TUBING - CASING - DRILL PIPE						COLLAR DEPTHS			
SIZE	% EXCESS	DEPTH	SIZE	WGT	TYPE	DEPTH	GRADE	ID	SHOE	FLOAT	STAGE	
12 1/4	15%	9171	9 5/8	43.5	Casing	9125		8.755	9125	9079		
LAST CASING			PKR / CMT RET / LINER PKR			PERF DEPTH		TOP CONN		WELL FLUID		
SIZE	ID	DEPTH	BRAND / TYPE		DEPTH	TOP	BTM	SIZE	THREAD	TYPE	WGT	
13 3/8		2352						8	Round			
DISPL VOLUME		DISPL FLUID		CAL PSI	WATER		CEMENT TEMP		MAX PRESSURE		Bbls H2O on Loc.	
VOLUME	UOM	TYPE	WGT	BMP PLUG	PH	TEMP	GOING DOWN HOLE		RATED	WORKING		
	BBL				7	61					1000	
Time Hrs	Rate	Pressure	Bbls Pumped	Fluid Type	Time Left Yard		6:30 PM	Time Left Loc				
11:30 PM					Time Arrived on Loc		10:20 PM	Time Arrived Yard				
2:00 AM					Require Time on Loc.							
3:30 AM					Spot Trucks And Run Line to well & Prime up Pumps							
4:07 AM	0-5	0-305	5	H2O	Load Line							
4:10 AM	.5	4860	0.2	H2O	Pressure Test Line							
4:15 AM	2-6	345	50	CJ810 Space	Mix Pump CJ810 PureScub Spacer # 1 @ 13.5 PPG							
4:25 AM	3-7	680	213	CJ810 Space	Mix Pump CJ810 PureScub Spacer # 2 @ 13.5 PPG							
5:09 AM	3-9	1110-1120	148	CEMT	Mix Pump Lead Cement @ 15.2 PPG							
5:30 AM	6-9-3	768-1076	132	CEMT	Mix Pump Tail Cement @ 15.6 PPG							
5:43 AM					Shut Down Drop Plug							
5:44 AM	3-6	50	10	H2O	Pump H2O Clean out Line							
5:47 AM					Turn it over to Rig Crew to Finish Pumping Displacement							
7:37 AM		1440-2096			Rig Crew Shut Down Plug Landed							
7:45 AM					Released Off PSI (5 bbls Back)							
8:00 AM					Wash & Rack up Trucks							
9:00 AM					Job Complete							
Bumped Plug	Final Lift Pressure	Floats Held	PSI Left on Casing	Cement to Surface	Total Circulation	Recommended time to wait on cement		Luke Jack Service Supervisor				
	4761			Bbls		Hours						

wellPORT

CEMENT REPORT



Title Page

Field Ticket

S-0000001510003-00

Date

Sat, Nov 07, 2015

Service Center

**Black Lick (22)
C&J Energy Service
Route 119 N
Black Lick PA 15716
724-248-1001
724-248-1005**

Service Representative(s)

Luke Jack

Job Type

Casing Cement Job - 9 5/8

Lease Project

Wassmann B Unit # 5 H

Number / ID

Township

County

BELMONT

State

OH

Physical Location

Country

Customer

XTO ENERGY (XTO2)

Mailing Address

Division / District

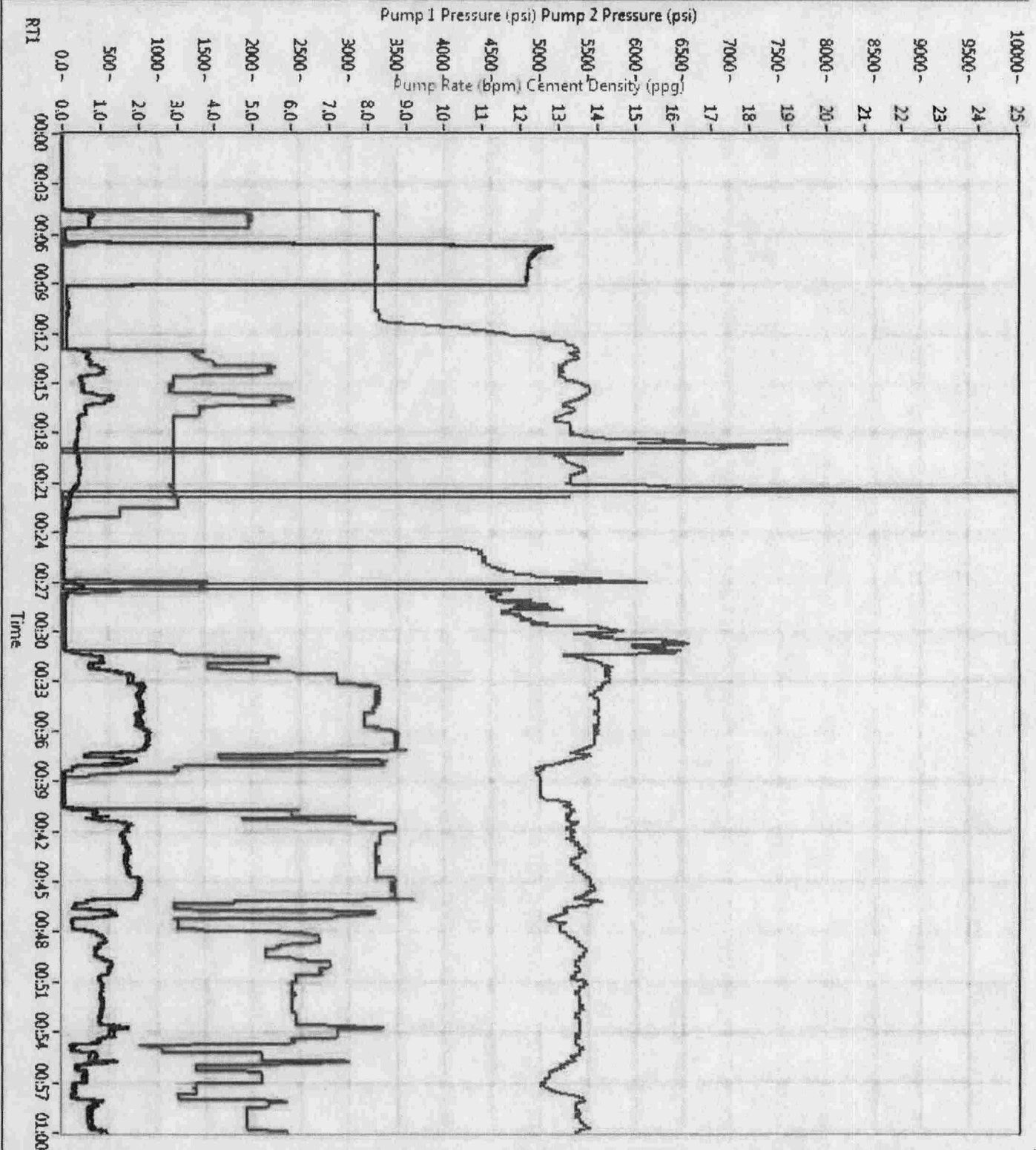
Customer Representative(s)

Shane

PO/RFQ/AFE Code

XTO ENERGY / Wassmann B Unit # 5 H / Casing Cement Job - 9 5/8

Cement Report



Intermediate Casing - Recorded Time Plot 1 - 1 of 4

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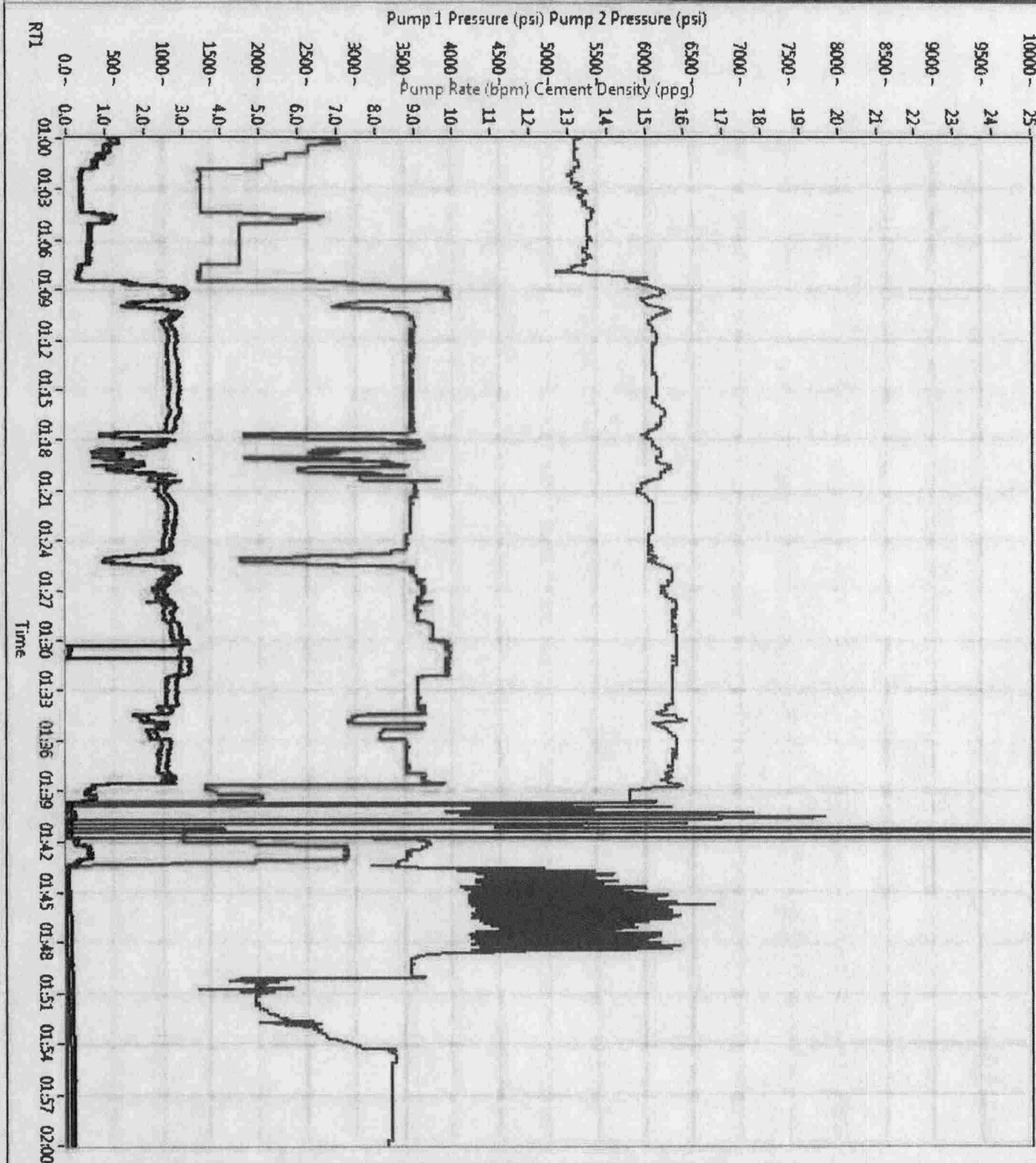


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Cement Report



Intermediate Casing - Recorded Time Plot 1 - 2 of 4

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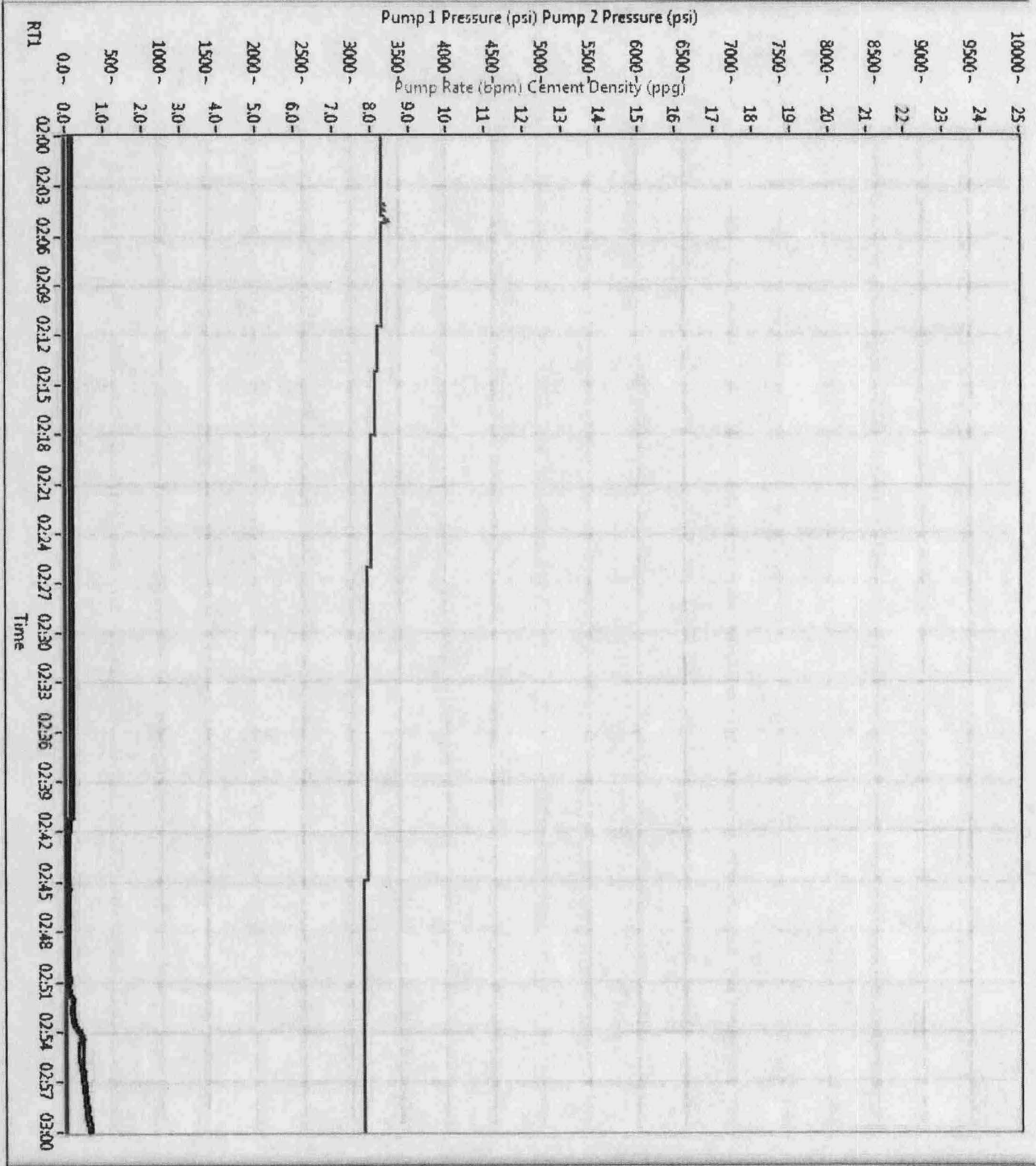


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Cement Report



Intermediate Casing - Recorded Time Plot 1 - 3 of 4

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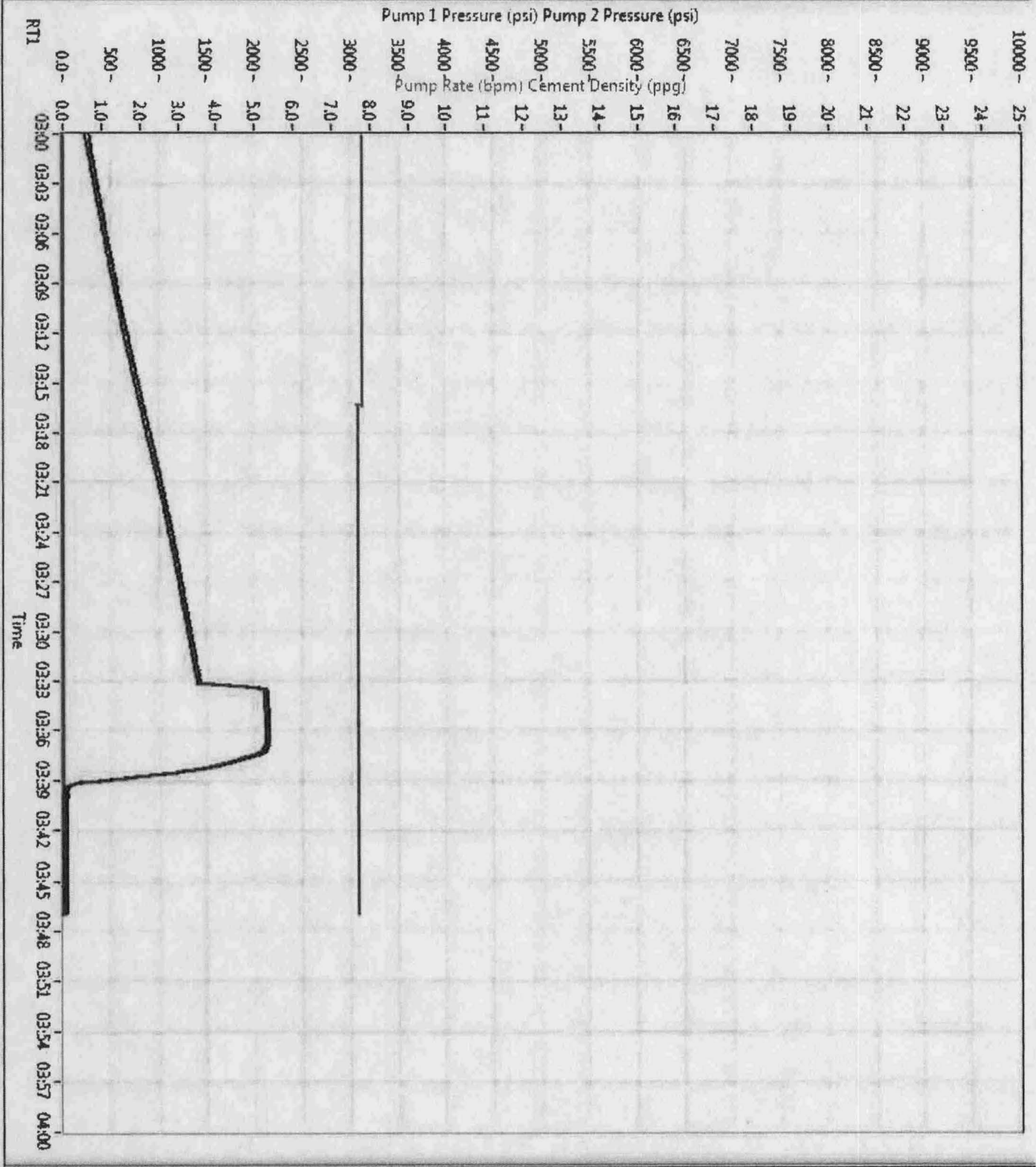


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Cement Report



Intermediate Casing - Recorded Time Plot 1 - 4 of 4

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C & J Energy Services

Cementing Services



C&J Energy Services

CEMENT LABORATORY REPORT

Submitted for:

XTO Energy

Utica

Belmont, OH

BHST: 149

BHCT: 115

ITC15261

Submitted by:

Joseph Cieslinski

1380 Route 286 Hwy East #121

Indiana

Joseph.Cieslinski@cjes.com

Mgr.Direct:

724.859.0110

Office No.:

724.403.9114



C&J Energy Services

C & J Energy Services, Ltd.Indiana Laboratory
1380 Route 286 East • Indiana, PA 15701

Phone: (724) 403-9114 • Fax: (724) 403-9100

Cement Test ReportFile: ITC15261
Date: November 3, 2015
District: Blacklick, PA
Lab Tech: APClient: XTO Energy
Well: Wassmann B Unit 5H Intermediate Lea
Rig:
County: Belmont**Field Blend****Well Conditions**Job Type: Production Casing
Total MD: 8900 ft
TVD: 8900 ft
BHCT: 115 F
BHST: 149 F**Slurry Specs**Cement Class: CJ916
Cement Vendor: Lafarge
Density: 15.2 PPG
Yield: 1.16 cuft/sk
Total Mix Fluid: 4.89 gal/sk**Slurry Composition**

35:65 POZ:CJ916 + 10% CJ111 (BWOW) + 0.2% CJ402 + 0.2% CJ500 + 0.2% CJ710

Code	Lot Number	Concentration	Function
CJ916		61.1 LB/SK	Cement
POZ		25.9 LB/SK	Extender
CJ111		10 %BWOW	Salt
CJ402	55049	0.2 %BWOB	Dispersant
CJ500	D683ECPCP2	0.2 %BWOB	Fluid Loss
CJ710	LD08171505	0.2 %BWOB	Antifoam
Water		4.89 GAL/SK	

Fluid Loss

--

Thickening Time

Consistency (Bc)	Time*
30 Bc	6 hr 01 min
50 Bc	6 hr 09 min
70 Bc	6 hr 18 min

Compressive Strength

Time	Strength	Temp
8hr	N/A	149
12hr	N/A	149
24hr	N/A	149

Rheology

(rpm)	80°F	115°F
300	240	210
200	175	109
100	102.5	101.5
60	73	76
30	48.5	57
6	26	22.5
3	18.5	12.5
Model Bingham Plastic		
	PV=220.4[cP], YP=25.7 [lb/100ft ²]	PV=170.6[cP], YP=28.9 [lb/100ft ²]

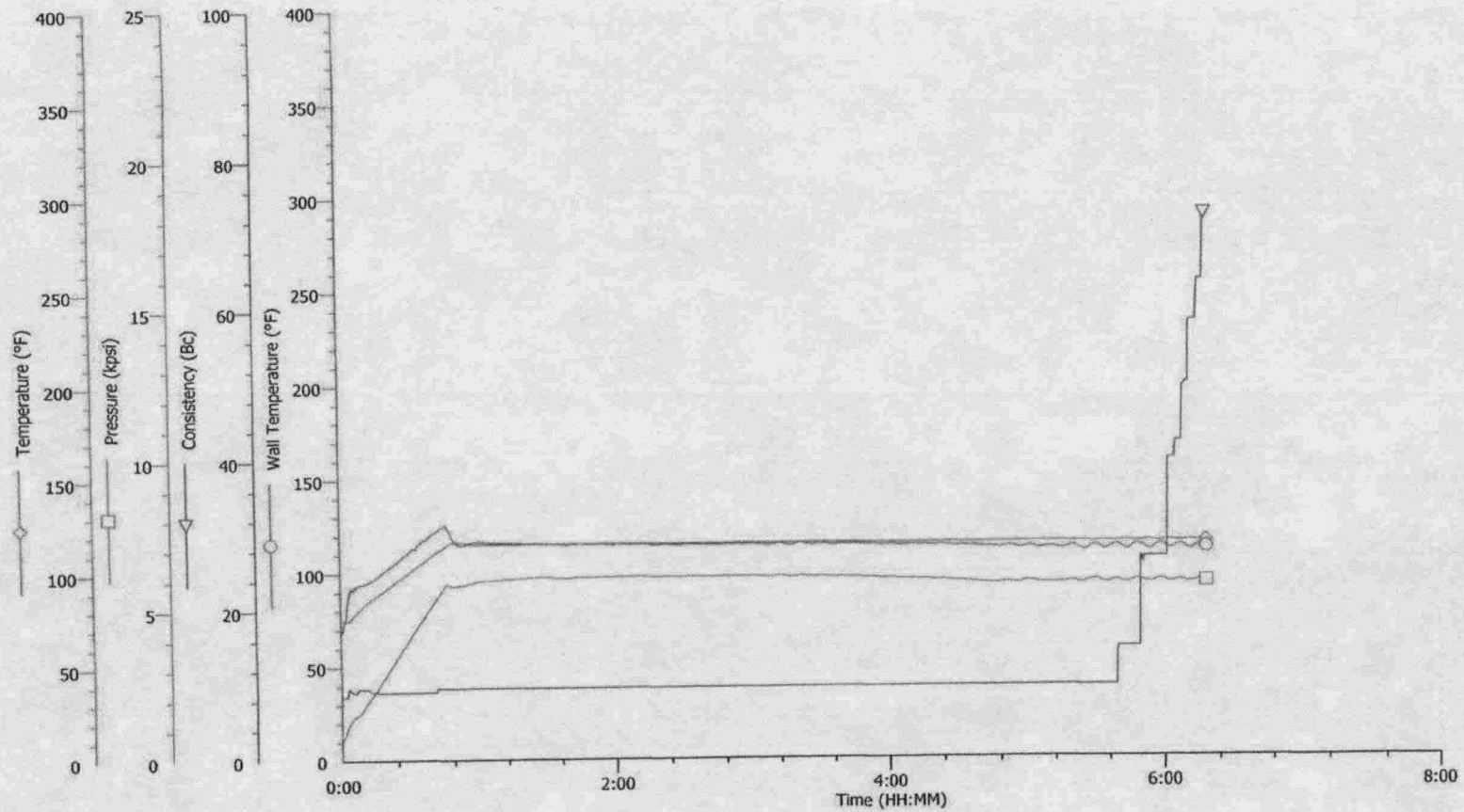
Free Water

0 [mL/250mL] in 2 hrs at 115 [F] at 90 inclination

Instrument: 7322-527 7322-527
Comments:

Test Start: 11/3/2015 10:28:56 AM

Test Stop: 11/3/2015 4:47:26 PM
30 Bc: 6:02:00
70 Bc: 6:18:00



C & J Energy Services

Cementing Services



C&J Energy Services

CEMENT LABORATORY REPORT

Submitted for:

XTO Energy

Utica

Belmont, OH

BHST: 149

BHCT: 115

ITC15261

Submitted by:

Joseph Cieslinski

1380 Route 286 Hwy East #121

Indiana

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C&J Energy Services

C & J Energy Services, Ltd.Indiana Laboratory
1380 Route 286 East • Indiana, PA 15701

Phone: (724) 403-9114 • Fax: (724) 403-9100

Cement Test ReportFile: ITC15261
Date: November 3, 2015
District: Blacklick, PA
Lab Tech: APClient: XTO Energy
Well: Wassmann B Unit 5H Intermediate Tail
Rig:
County: Belmont**Field Blend****Well Conditions**Job Type: Production Casing
Total MD: 8900 ft
TVD: 8900 ft
BHCT: 115 F
BHST: 149 F**Slurry Specs**Cement Class: CJ916
Cement Vendor: Lafarge
Density: 15.6 PPG
Yield: 1.18 cuft/sk
Total Mix Fluid: 5.18 gal/sk**Slurry Composition****CJ916 + 0.2% CJ402 + 0.2% CJ500 + 0.2% CJ710**

Code	Lot Number	Concentration	Function
CJ916		94 LB/SK	Cement
CJ402	55049	0.2 %BWOC	Dispersant
CJ500	D683ECPCP2	0.2 %BWOC	Fluid Loss
CJ710	LD08171505	0.2 %BWOC	Antifoam
Water		5.18 GAL/SK	

Fluid Loss**Thickening Time**

Consistency (Bc)	Time*
30 Bc	4hr 38 mins
50 Bc	4hr 51 mins
70 Bc	5hr 06 mins

Compressive Strength

Time	Strength	Temp
8hr	N/A	149
12hr	N/A	149
24hr	N/A	149

Rheology

(rpm)	80 °F	115 °F
300	280	225
200	223	177.5
100	155.5	117.5
60	120	88.5
30	82	58.5
6	28.5	21
3	20.5	13.5
Model		
Bingham Plastic		
	PV=253.1[cP], YP=48.4 [lb/100ft ²]	PV=207.9[cP], YP=32.8 [lb/100ft ²]

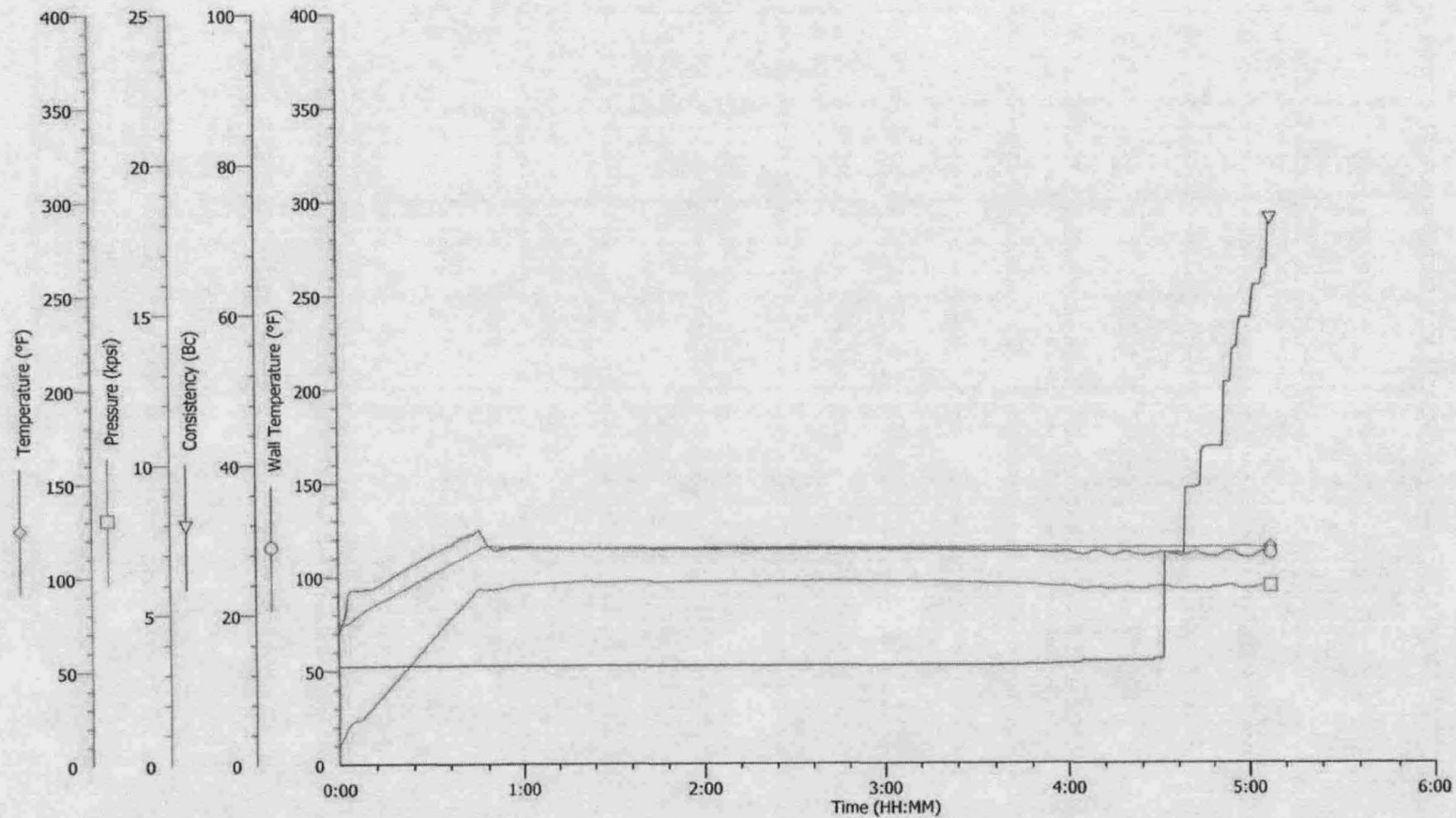
Free Water

0 [mL/250mL] in 2 hrs at 115 [F] at 90 inclination

Instrument: 7322-527 7322-527
Comments:

Test Start: 11/2/2015 11:12:19 PM

Test Stop: 11/3/2015 4:19:19 AM
30 Bc: 4:38:30
70 Bc: 5:06:30



CEMENT JOB REPORT



CUSTOMER XTO ENERGY XML		DATE 18-NOV-15	F.R.# 1001118466	SERV. SUPV. Charles G Langley	
LEASE & WELL NAME WASSMANN UNIT B4EH - AP134013209700000		LOCATION PULTNEY4		COUNTY-PARISH-BLOCK Belmont Ohio	
DISTRICT Massillon		DRILLING CONTRACTOR RIG# PATTERSON 294		TYPE OF JOB Long String	
SIZE & TYPE OF PLUGS		LIST-CSG-HARDWARE		MECHANICAL BARRIERS	
5-1/2" Bot Cem Plug, Nitrile cvr, Phe		Guide Shoe, Cement Nose, 5-1/2 i			
5-1/2" Top Cem Plug, Nitrile cvr, Phe		Float Collar, AI Flap, 5-1/2 - 8rd			
PHYSICAL SLURRY PROPERTIES					
MATERIALS FURNISHED BY BJ		LAB REPORT NO.	SACKS OF CEMENT	SLURRY WGT PPG	SLURRY YLD FT ³
35-65H+.175%R3+.35%MPA250+.05% STATIC FRE			707	15	1.15
Fresh Water				8.34	
ClassH+.225%R3+.4%MPA250+.05%STATIC FREE			1,458	15.6	1.18
MultiBond				13.5	
Ultra Flush II				13.5	
Available Mix Water 1500 Bbl.		Available Displ. Fluid 1500 Bbl.	TOTAL 1050.08 265.06		
HOLE SIZE 8.5		TBG-CSG-D.P.		COLLAR DEPTHS	
% EXCESS 15		ID OD WGT. TYPE MD TVD GRADE		SHOE FLOAT STAGE	
DEPTH 16507		4.67 5.5 23 CSG 16507 10575 P-110		19840 19793.6 1	
LAST CASING		PKR-CMT RET-BR PL-LINER		PERF. DEPTH	
ID OD WGT TYPE MD TVD BRAND & TYPE DEPTH TOP RTM SIZE THREAD TYPE WGT.					
8.8 9.63 43.5 CSG 9122 9122 NO PACKER 0 16497 16507 5.5 BTC OIL BASED MU 12.5					
DISPL. VOLUME		DISPL. FLUID		CAL. PSI	
VOLUME UOM TYPE WGT. BUMP PLUG TO REV. SQ. PSI					
345.3 BBLs Fresh Water 8.34 3337 0 0 0 0					
				MAX TBG PSI MAX CSG PSI MIX WATER	
				13580 10864 RIG TANKS	
Circulation Prior to Job					
Circulated Well: Rig <input checked="" type="checkbox"/> BJ <input type="checkbox"/>		Circulation Time: 20		Circulation Rate: 9.5 BPM	
Mud Density In: 12.5 LBS/G		Mud Density Out: 12.5 LBS/GAL		PV & YP Mud In:	
Gas Present: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>		Units:		Solids Present at End of Circulation: NO <input checked="" type="checkbox"/> YES <input type="checkbox"/>	
Displacement And Mud Removal					
Displaced By: Rig <input type="checkbox"/> BJ <input checked="" type="checkbox"/>		Amount Bled Back After Job: 0 BBLs			
Returns During Job: NONE <input type="checkbox"/> PARTIAL <input checked="" type="checkbox"/> FULL <input type="checkbox"/>		Method Used to Verify Returns: VISUAL			
Cement Returns at Surface: YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>		Were Returns Planned at Surface: X NO <input type="checkbox"/> YES <input type="checkbox"/>			
Pipe Movement: ROTATION <input type="checkbox"/> RECIPROCATION <input type="checkbox"/> NONE <input type="checkbox"/> UNABLE DUE TO STUCK PIPE					
Centralizers: X NO <input type="checkbox"/> YES <input type="checkbox"/>		Quantity:		Type: BOW <input type="checkbox"/> RIGID <input type="checkbox"/>	
Job Pumped Through: CHOKE MANIFOLD <input type="checkbox"/> SQUEEZE MANIFOLD <input checked="" type="checkbox"/> MANIFOLD <input type="checkbox"/> NO MANIFOLD <input type="checkbox"/>					
Plugs					
Number of Attempts by BJ:		Competition:		Wiper Balls Used: X NO <input type="checkbox"/> YES <input type="checkbox"/> Quantity:	
Plug Catcher Used: X NO <input type="checkbox"/> YES <input type="checkbox"/>				Parabow Used: X NO <input type="checkbox"/> YES <input type="checkbox"/>	
Was There a Bottom: X NO <input type="checkbox"/> YES <input type="checkbox"/>				Top of Plug: FT Bottom of Plug: FT	
Squeezes (Update Original Treatment Report for Primary Job)					
BLOCK SQUEEZE		SHOE SQUEEZE		TOP OF LINER SQUEEZE	
Liner Packer: X NO <input type="checkbox"/> YES <input type="checkbox"/>		Bond Log: X NO <input type="checkbox"/> YES <input type="checkbox"/>		PSI Applied: Fluid Weight: LBS/GAL	
Casing Test (Update Original Treatment Report for Primary Job)					
Casing Test Pressure: PSI		With LBS/GAL Mud		Time Held: Hours Minutes	
EXPLANATION: TROUBLE SETTING TOOL, RUNNING CSG, ETC. PRIOR TO CEMENTING: RIG WAS HUNG UP IN HOLE WITH CASING UPON ARRIVAL ON LOC/ PERFS IN CASING AND REGAINED CIRCULATION					

CEMENT JOB REPORT



Shoe Test (Update Original Treatment Report for Primary Job)

Depth Drilled out of Shoe: FT Target EMW: LBS/GAL Actual EMW: LBS/GAL

Number of Times Tests Conducted: Mud Weight When Test was Conducted: LBS/GAL

Problems Before Job (I.E. Running Casing, Circulating Well, ETC)

Problems During Job (I.E. Lost Returns, Equipment Failure, Bulk Delivery, Foaming, ETC)

Problems After Job (I.E. Gas at Surface, Float Equipment Failed, ETC)

PRESSURE/RATE DETAIL

EXPLANATION

TIME HR:MIN.	PRESSURE - PSI		RATE BPM	Bbl FLUID PUMPED	FLUID TYPE	SAFETY MEETING: BJ CREW X		CO. REP. X	
	PIPE	ANNULUS				TEST LINES	7500 PSI		
						CIRCULATING WELL - RIG	X	BJ	
08:10	0	0	0	0 0		ARRIVE ON LOCATION, RIG STUCK IN HOLE, STANDBY			
08:40	0	0	0	0 0		PRE RIG UP SAFETY MEETING			
10:50	0	0	0	0 0		PRE JOB SAFETY MEETING			
11:30	0	0	0	0 0		STAB CEMENT HEAD			
11:50	0	0	0	0 0		TEST LINES TO 7500 PSI			
11:52	1000	0	6	50 H2O		ULTRA FLUSH II @ 13.5 LB			
12:03	890	0	5.5	200 H2O		MULTIBOND SPACER @ 13.5 LB			
12:44	950	0	5.5	144.8 CEMENT		707 sks LEAD SLURRY @ 15 LB			
13:14	600	0	5.5	310.4 CEMENT		1458 sks TAIL SLURRY @ 15.6 LB			
14:16	0	0	0	0 0		SHUT DOWN DROP PLUG			
14:17	1300	0	7	100 H2O		FRESH WATER DISPLACEMENT			
14:34	2600	0	4.3	100 H2O		FRESH WATER DISPLACEMENT			
15:01	3600	0	4.3	100 H2O		FRESH WATER DISPLACEMENT			
15:30	3700	0	4.3	45.3 H2O		FRESH WATER DISPLACEMENT			
15:41	3700	0	0	0 0		SHUT DOWN, SHUT IN WELL			
15:50	0	0	0	0 0		PRE RIG DOWN SAFETY MEETING			
16:20	0	0	0	0 0		TURN WELL OVER TO RIG			
00:00	0	0	0	0 0		45 BBLs SPACER TO SURFACE			
00:00	0	0	0	0 0		CALCULATED TOP OF LEAD @ 6675 FT			
00:00	0	0	0	0 0		CALCULATED TOP OF TAIL @ 9968 FT			

BUMPED PLUG	PSI TO BUMP PLUG	TEST FLOAT EQUIP.	BBL CMT RETURNS/ REVERSED	TOTAL BBL. PUMPED	PSI LEFT ON CSG	SPOT TOP OUT CEMENT	Service Supervisor Signature:
Y N 0		Y N 0		1050	3700	Y [N]	Gawn CW

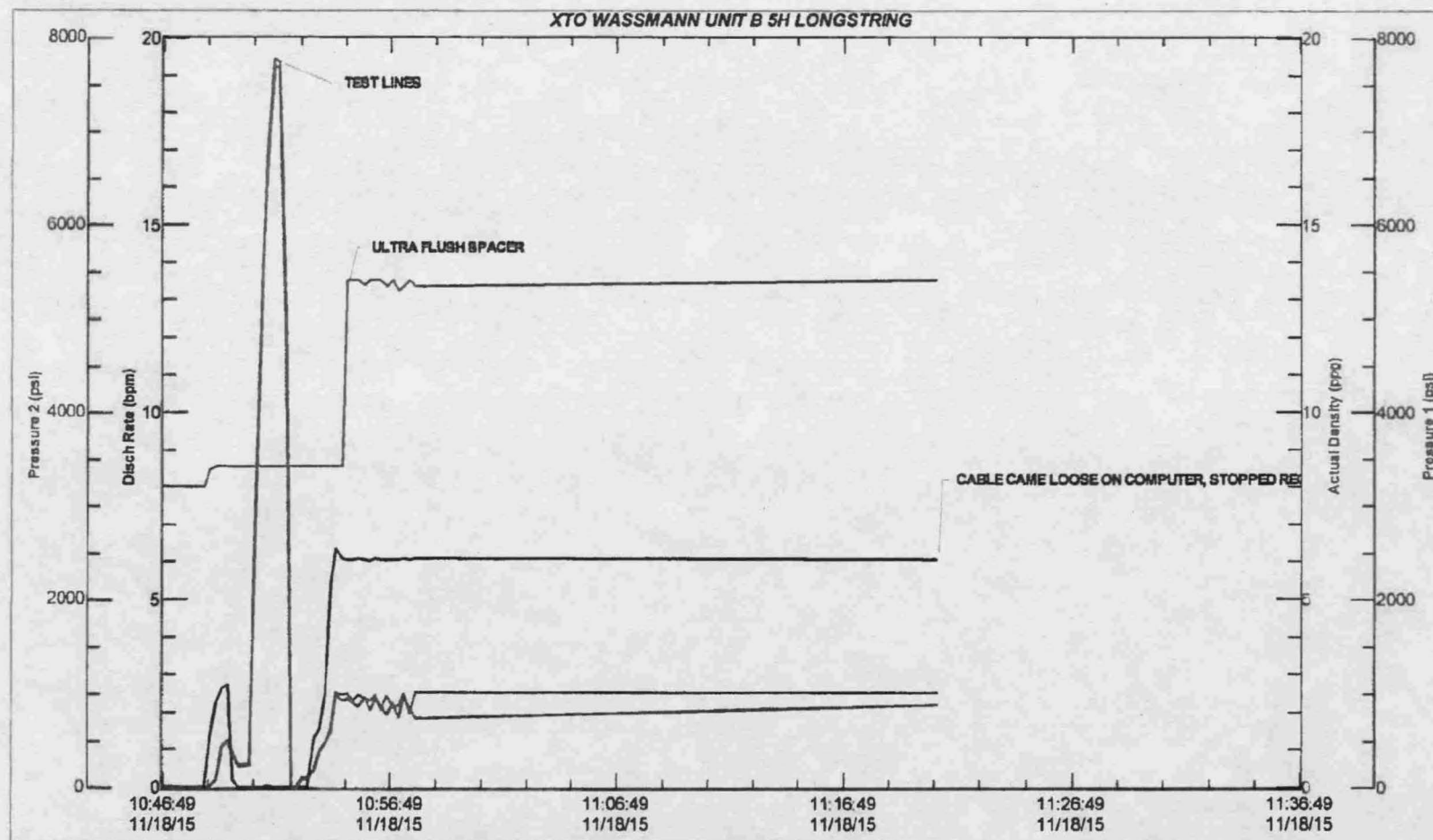


Baker Hughes JobMaster Program Version 4.02

Job Number: 10011184666

Customer: XTO

Well Name: WASSMANN UNIT B 5H





Baker Hughes JobMaster Program Version 4.02

Job Number: 10011184666

Customer: XTO

Well Name: WASSMANN UNIT B 5H

