

COUNTY	COMPANY	API Number
Adams	GREAT WESTERN OIL & GAS CO.	05-123-13474
WELL NAME	RIG	JOB TYPE
Kowitz 27-5	Hurricane 14	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.372035 104.656538	brian Douglass	Ben Ellis

EMPLOYEES		
Garck Williamson		
Rich Devine		
Ben Brews		

WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole					
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

Casing/Tubing/Drill Pipe							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	15.1		0	6760		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7	J55	0	6760		

CEMENT DATA

Stage 1:	From Depth (ft):	6288	To Depth (ft):	6760
Type: Nio Plug	Volume (sacks):	25	Volume (bbbls):	6.7

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% Class G+35% CJ786+ 2% CJ704+ 5% CJ415	15.8	1.52	6.20

Stage 2:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbbls):	

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 3:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbbls):	

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbbls):	

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

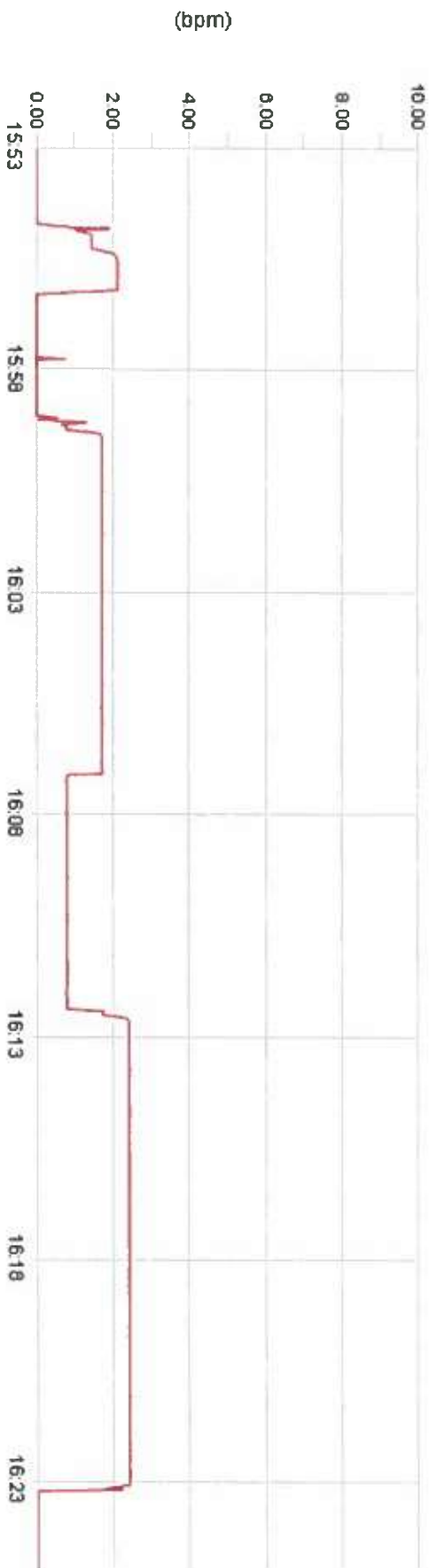
Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	24.7	Stage 1
		Actual Displacement (bbl):	24.5	Stage 2
Total Preflush/Spacer Volume (bbl):	5	Plug Bump (Y/N):		Bump Pressure (psi):
Total Slurry Volume (bbl):	6.7	Lost Returns (Y/N):		(if Y, when)
Total Fluid Pumped	36.2			
Returns to Surface:	Mud	1 bbls		

Job Notes (fluids pumped / procedures / tools / etc.):	Pumped Job per program and customers request.
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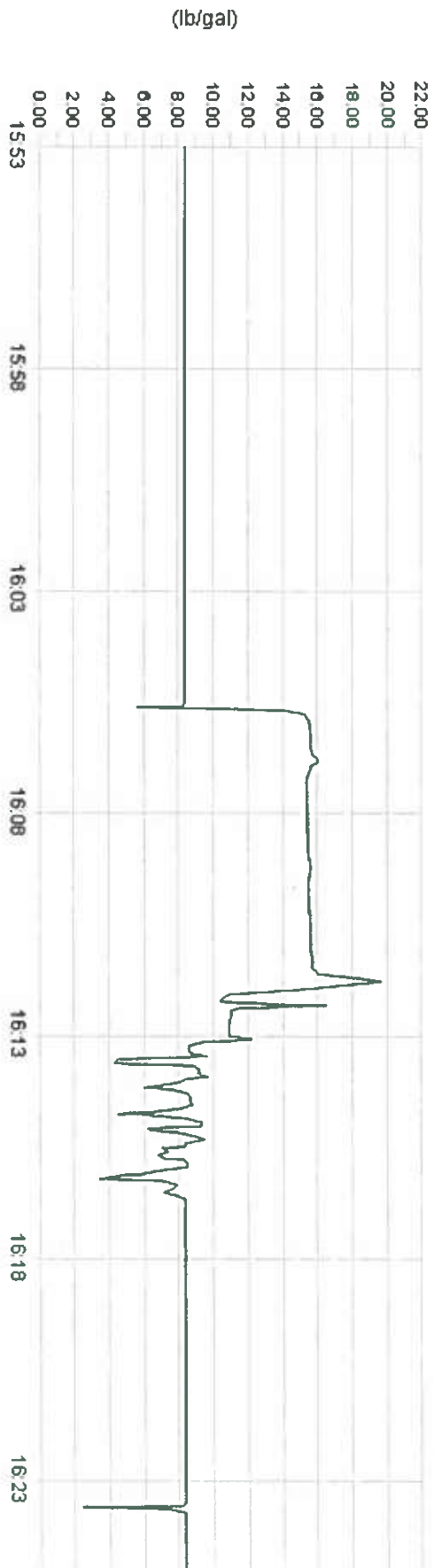
Customer Representative Signature:	Thank You For Using CJES O-TEX Cementing
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Client	GREAT WESTERN OIL AND GAS	Client Rep	MR. BEN ELLIS	Supervisor	BRIAN DOUGLASS
Ticket No.	20	Well Name	KOWITZ 27-5	Unit No.	445052
Location	SW NW SEC. 27-TT5N-R65W	Job Type	Abandonment Plugs	Service District	BRIGHTON.CO
Comments	PLUG 1	Job Date	12/04/2018		

Unit 445052 Rate Total



Unit 445052 Density





Job Summary

Ticket Number
TN# **BCO-1812-0030** Ticket Date
12/5/2018

COUNTY Adams	COMPANY GREAT WESTERN OIL & GAS CO.	API Number 05-123-13474
WELL NAME Kowitz 27-5	RIG Hurricane 14	JOB TYPE Squeeze Job
SURFACE WELL LOCATION 40.371878 -104.656492	CJES Field Supervisor Brian Douglass	CUSTOMER REP Ben Elliss

EMPLOYEES		
<i>Garck Williamson</i>		
<i>Rich Devine</i>		
<i>Joel Apodaca</i>		

WELL PROFILE			
Max Treating Pressure (psi):		Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
	7.88	0	2500		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Production	4.5	15.1		0	2500		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7	J55	0	2410		

CEMENT DATA

Stage 1:
Type: Squeeze
From Depth (ft): 2269 To Depth (ft): 2500
Volume (sacks): 85 Volume (bbbls): 17.4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ914	15.8	1.15	5.00

Stage 2:
Type:
From Depth (ft): To Depth (ft):
Volume (sacks): Volume (bbbls):

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 3:
Type:
From Depth (ft): To Depth (ft):
Volume (sacks): Volume (bbbls):

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 4:
Type:
From Depth (ft): To Depth (ft):
Volume (sacks): Volume (bbbls):

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1 9.3	Stage 2
	bbls of	Actual Displacement (bbl):	7.3	
	bbls of			
Total Preflush/Spacer Volume (bbl):	5	Plug Bump (Y/N):	n/a	Bump Pressure (psi): n/a
Total Slurry Volume (bbl):	17.4	Lost Returns (Y/N):	n (if Y, when)	
Total Fluid Pumped	29.7			
Returns to Surface:	Mud 1 bbls			

Job Notes (fluids pumped / procedures / tools / etc.):

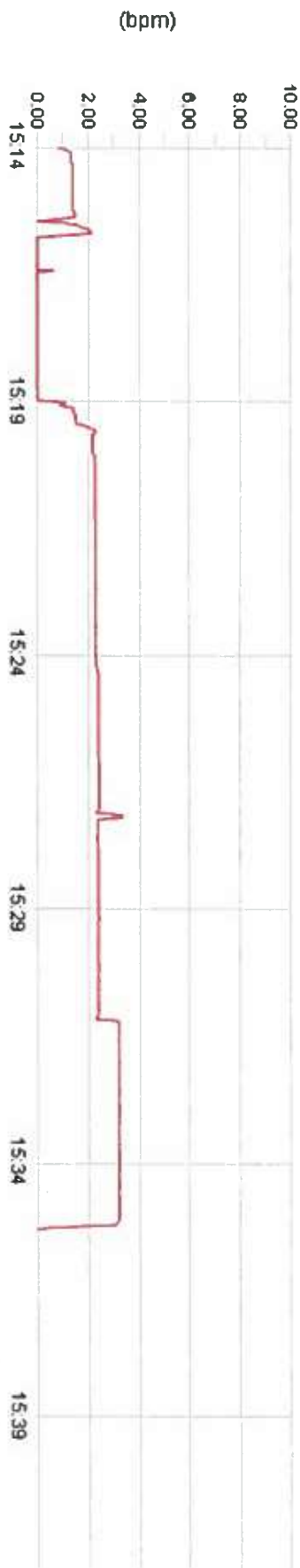
Pumped Job per program and customers request.

Customer Representative Signature:

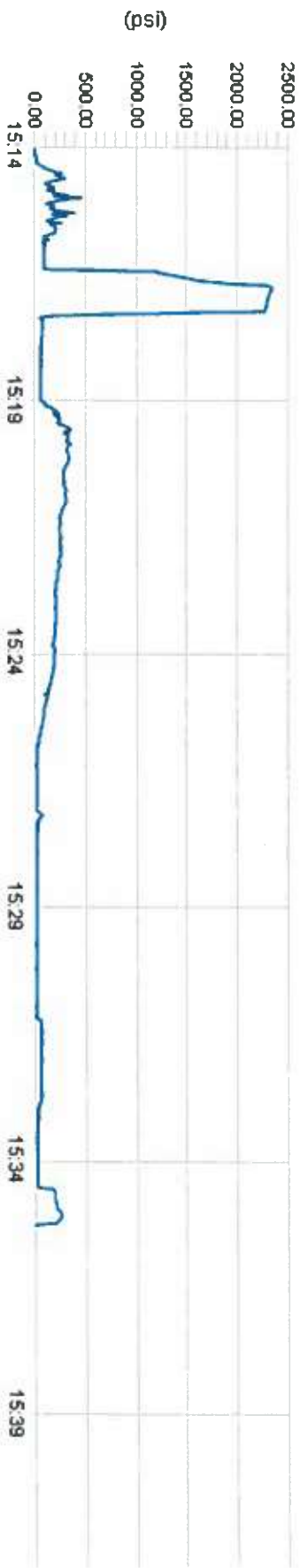
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Client	GREAT WESTERN OIL AND GAS	Client Rep	MR. BEN ELLIS	Supervisor	BRIAN DOUGLASS
Ticket No.	30	Well Name	KOWITZ 27-5	Unit No.	445052
Location	SWNW SEC. 27-T5N-R65W	Job Type	Retainer Squeeze	Service District	BRIGHTON.CO
Comments	SQUEEZE			Job Date	12/05/2018

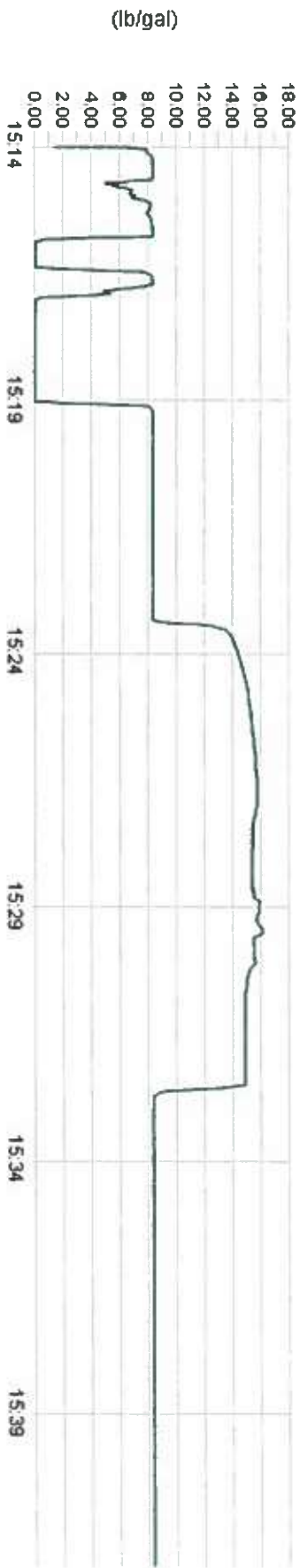
Unit 445052 Rate Total



Unit 445052 Pump Pressure



Unit 445052 Density



Job Summary

Ticket Number: **BCO-1812-0035** Ticket Date: **12/6/2018**

COUNTY	COMPANY	API Number
Adams	GREAT WESTERN OIL & GAS CO.	05-123-13474
WELL NAME	RIG	JOB TYPE
Kowitz 27-5	Hurricane 14	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.371878 -104.656492	Larry Laslie	Ben Ellis

EMPLOYEES		
<i>Frasico Corral-Flores</i>		
<i>Ben Brewer</i>		

WELL PROFILE			
Max Treating Pressure (psi):	1000	Bottom Hole Static Temperature (*F):	
Bottom Hole Circulating Temperature (*F):		Well Type:	

Open Hole					
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
	7.875	334	1200		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

Casing/Tubing/Drill Pipe							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Surface	8.625	24		0	334		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Casing	4.5	11.6		1200	1250		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7		0	1262		

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	1250
Type: Shoe Plugs	Volume (sacks):	450	Volume (bbls):	92.1
Cement & Additives:				
	CJ914	Density (ppg):	15.8	Yield (ft ³ /sk): 1.15
				Water Req. 5.00

Stage 2:	From Depth (ft):		To Depth (ft):	
Type: Surface Plug	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
		Density (ppg):		Yield (ft ³ /sk)
				Water Req.

Stage 3:	From Depth (ft):		To Depth (ft):	
Type: Top Off	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
		Density (ppg):		Yield (ft ³ /sk)
				Water Req.

Stage 4:	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbls):	
Cement & Additives:				
		Density (ppg):		Yield (ft ³ /sk)
				Water Req.

SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
		Actual Displacement (bbl):		
Total Preflush/Spacer Volume (bbl):	5	Plug Bump (Y/N):	n/a	Bump Pressure (psi): n/a
Total Slurry Volume (bbl):	92.1	Lost Returns (Y/N):	n	(if Y, when)
Total Fluid Pumped	97.1			
Returns to Surface:	Cement	0 bbls		

Job Notes (fluids pumped / procedures / tools / etc.):

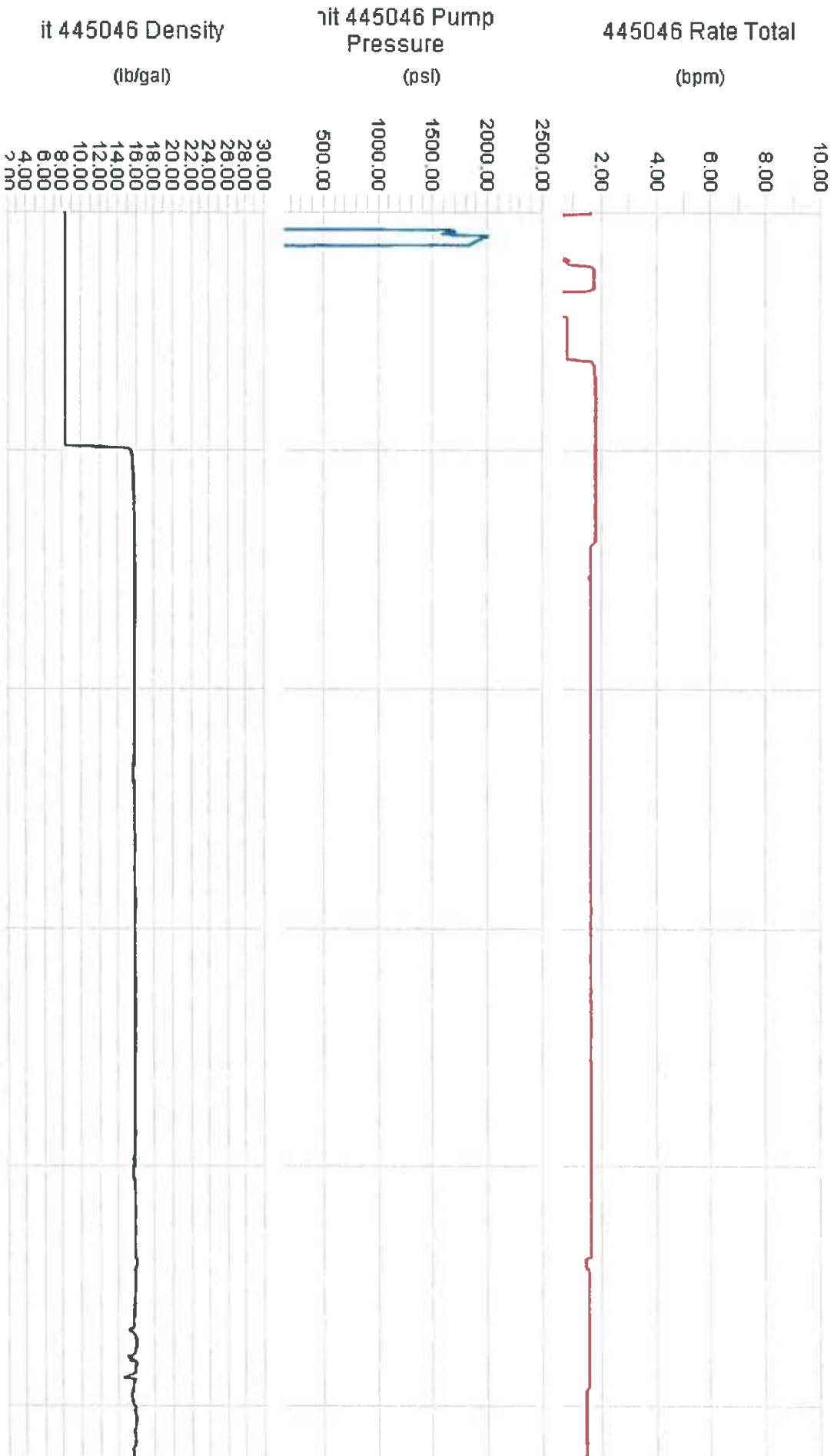
Job notes go here!

Customer Representative Signature:

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Client	Great Western	Client Rep	Ben Ellis	Supervisor	Larry Laslie
Ticket No.	18120035	Well Name	Kowitz 27-5	Unit No.	445046
Location	SWNW 27 5N 65W	Job Type	Abandonment Plugs	Service District	Brighton
Comments	Pump Per Customer Request			Job Date	12/06/2018



Post Job Log



Service Date:	12/14/2018	Well Name:	Kowitz
Customer:	Great Western	Well Number:	27-5
Address:		County:	Weld
City:		State:	CO
State:	CO	API Number:	05-123-13474
Customer Rep:	Stan Briar	Legals:	
Job Type:	PTA	Ticket Number:	505

Casing Data

Description:	Size (in)	Weight (lb/ft)	Grade	Max PSI	TVD (ft)	MD (ft)	Tools:	MD (ft)
Tubing	2.375	4.6	J-55	2000	1004	1004		
Open Hole	6.75				1000	1000		

Fluid & Cement Data

Description	Sacks	Volume (bbls)	Density (lb/gal)	Yield (ft ³ /sk)	Water (gal/sk)	Returned to Surface	Depth (ft)
Cement	66	15.9	14.5	1.35	6.55	0	1004
Fresh Water			8.33				632

Job Information

Time	Rate (BPM)	Pressure (PSI)	Volume Pumped (BBLs)	Fluid Type	Additional Comments
6:50					Arrive at location, rig was froze had to wait
8:20					Spot equipment
8:25					Pre-rig up safety meeting
8:30					Rig up equipment
9:35					Pre-job safety meeting
					customer notified RHC they wanted cement mixed at 15 ppg rather than the recommended 14.5 ppg
9:49					Pressure test lines to 2000 psi
9:51	2	100	30	Fresh Water	Pump fresh water to break circulation
10:15	4	80	15.9	Cement	66 sacks @ 15.0 ppg, 1.35 yield, 6.55 gal/sack
10:20	2	8	2.5	Fresh Water	Pump displacement
10:22					Shutdown
10:23					Rig down from well, rig stand back out of cement
10:40	2	80	10	Fresh Water	Reverse out cement
10:46					Shutdown
10:49					Pressure up well to 100psi for two hours
14:20					rig run in to tag cement
15:00					RHC had to depart location to clean out cement

COUNTY	COMPANY	API Number
Adams	GREAT WESTERN OIL & GAS CO.	05-123-13474
WELL NAME	RIG	JOB TYPE
Kowitz 27-5	Hurricane 14	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.372035 104.656538	Justin Collin	Stan

EMPLOYEES		
Garrick Williamson		
David Cicalla		
Joel Apodaca		

WELL PROFILE			
Max Treating Pressure (psi)	1000	Bottom Hole Static Temperature (°F)	
Bottom Hole Circulating Temperature (°F)		Well Type	

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
	6.75	0	606		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Surface	8.625	24		0	606		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)
Tubing	2.375	4.7		0	606		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (ft)	TVD to (ft)

CEMENT DATA

Stage 1: From Depth (ft) 167 To Depth (ft) 606
Type: Stub Plug
Volume (sacks) 80 Volume (bbls) 19.3

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% CJ914 + 5.0% CJ101 + 2.0% CJ110	15	1.38	6.29

Stage 2: From Depth (ft) To Depth (ft)
Type: Surface Plug
Volume (sacks) Volume (bbls)

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 3: From Depth (ft) To Depth (ft)
Type: Top Off
Volume (sacks) Volume (bbls)

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 4: From Depth (ft) To Depth (ft)
Type:
Volume (sacks) Volume (bbls)

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

SUMMARY

Preflushes:	10 bbls of Fresh Water	Calculated Displacement (bbl)	Stage 1 0.6	Stage 2
	bbls of	Actual Displacement (bbl)	0.6	
	bbls of			
Total Preflush/Spacer Volume (bbl)	10	Plug Bump (Y/N)	N/A	Bump Pressure (psi)
Total Slurry Volume (bbl)	19.3	Lost Returns (Y/N)	N (if Y, when)	
Total Fluid Pumped	29.9			
Returns to Surface				

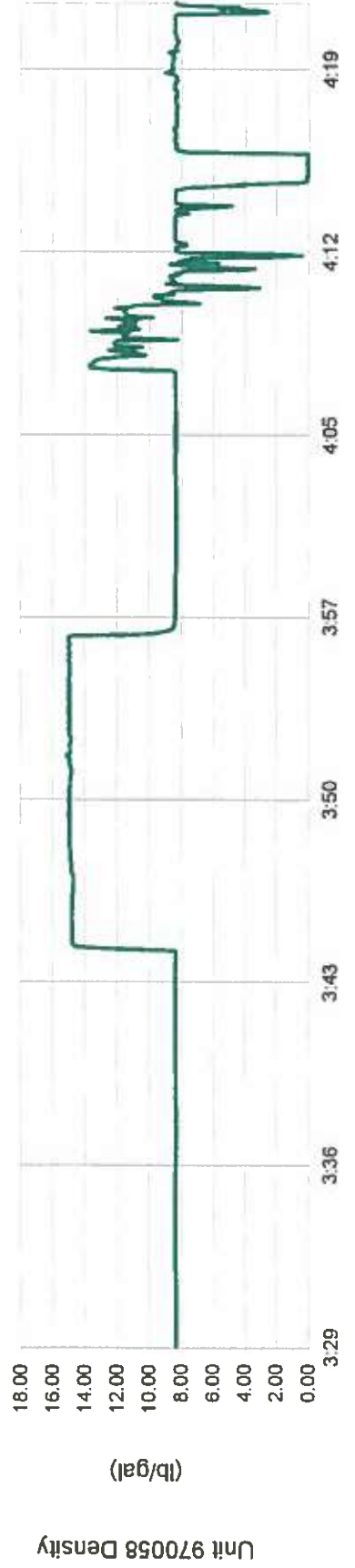
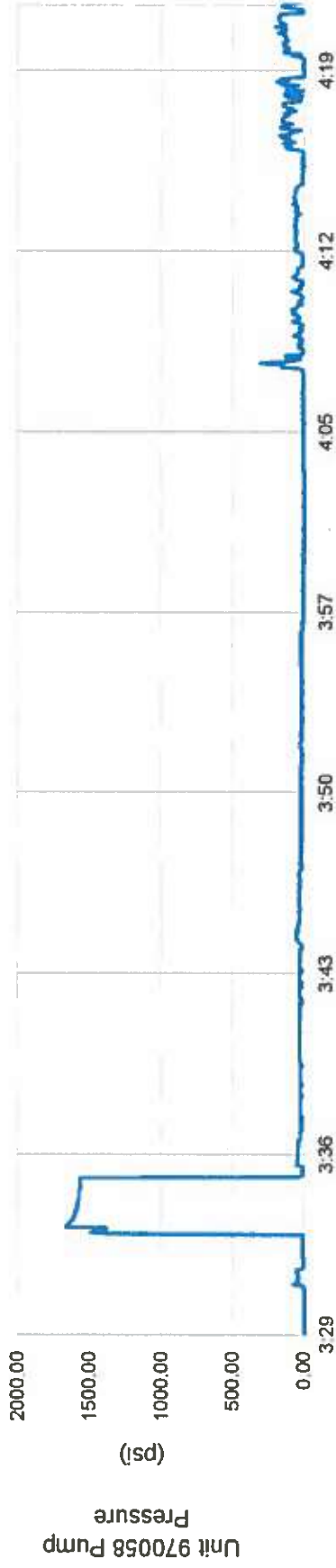
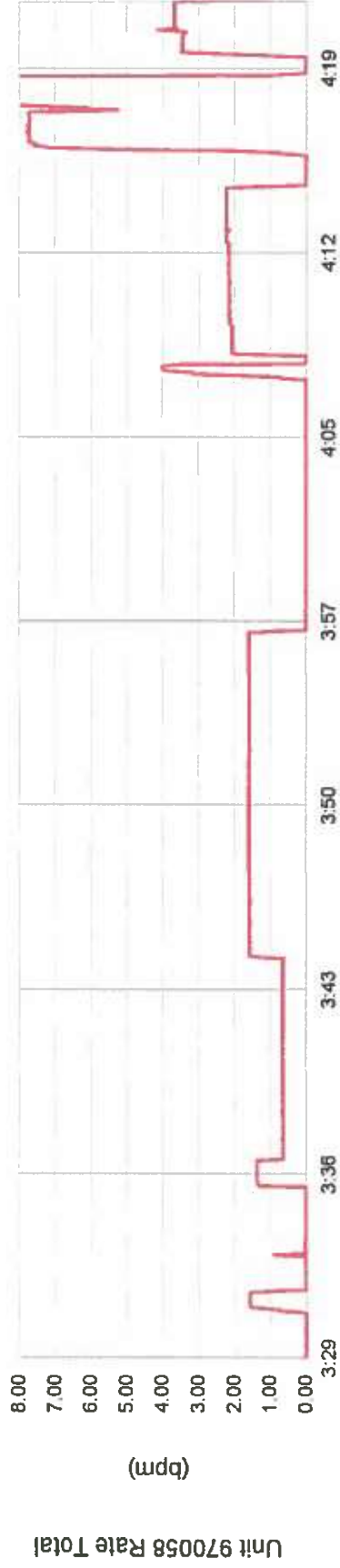
Job Notes (fluids pumped / procedures / tools / etc.)

Customer Representative Signature:

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Client	Great West	Client Rep	Stan	Supervisor	Justin Collin
Ticket No.	BCO-1812-0094	Well Name	Kowitz 27-5	Unit No.	970058
Location	SWNW 27 5N 65W	Job Type	Balance Plug	Service District	Brighton, CO
Comments	See Job Log. P1			Job Date	12/15/2018



Job Summary

Ticket Number

TN#

BCO-1812-0100

Ticket Date

12/16/2018

COUNTY	COMPANY	API Number
Adams	GREAT WESTERN OIL & GAS CO.	05-123-13474
WELL NAME	RIG	JOB TYPE
Kowitz 27-5	Hurricane 14	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.372035 104.656538	Barlen Joyner	Stan Brinar

EMPLOYEES

Garnick Williamson		
Ben Brewer		

WELL PROFILE

Max Treating Pressure (psi):	500	Bottom Hole Static Temperature (°F):	
Bottom Hole Circulating Temperature (°F):		Well Type:	

Open Hole

1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
	6 3/4	0	310		
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2 3/8	4.7		0	310		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

CEMENT DATA

Stage 1:	From Depth (ft):	0	To Depth (ft):	310
Type: Surface plug	Volume (sacks):	87	Volume (bbls):	21.1

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% G + ads	15	1.36	6.29

Stage 2:	From Depth (ft):	0	To Depth (ft):	11
Type: Top-out	Volume (sacks):	2	Volume (bbls):	0.5

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% G + ads	15	1.36	6.29

SUMMARY

Preflushes:	5 bbls of	Fresh Water	Calculated Displacement (bbl):	Stage 1	Stage 2
	bbls of		Actual Displacement (bbl):		
	bbls of				
Total Preflush/Spacer Volume (bbl):	5		Plug Bump (Y/N):	N/A	Bump Pressure (psi): N/A
Total Slurry Volume (bbl):	21.6		Lost Returns (Y/N):	N (if Y, when)	N/A
Total Fluid Pumped	26.6				
Returns to Surface:	Cement	1 bbls			

Job Notes (fluids pumped / procedures / tools / etc.):

See job log.

Thank You For Using

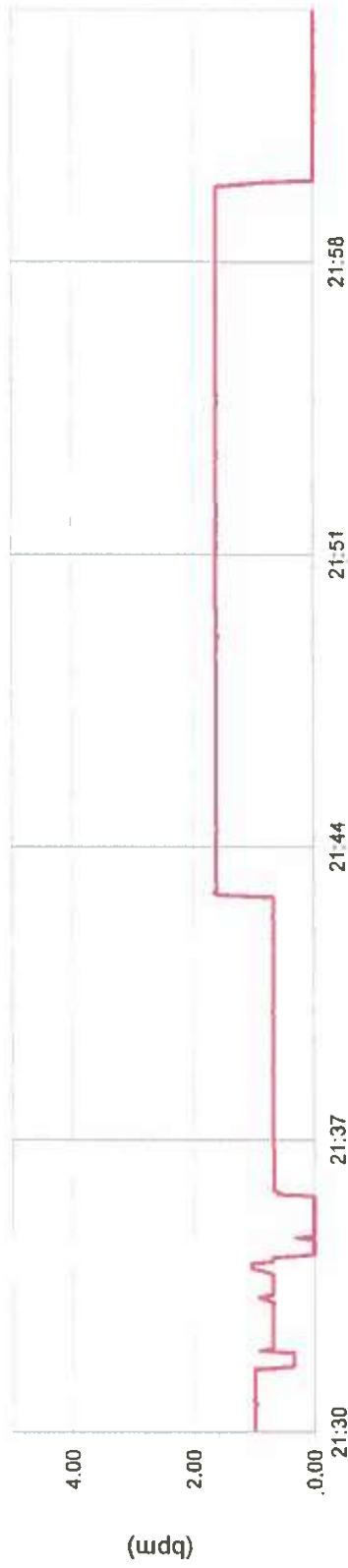
CJES O-TEX Cementing

Customer Representative Signature:

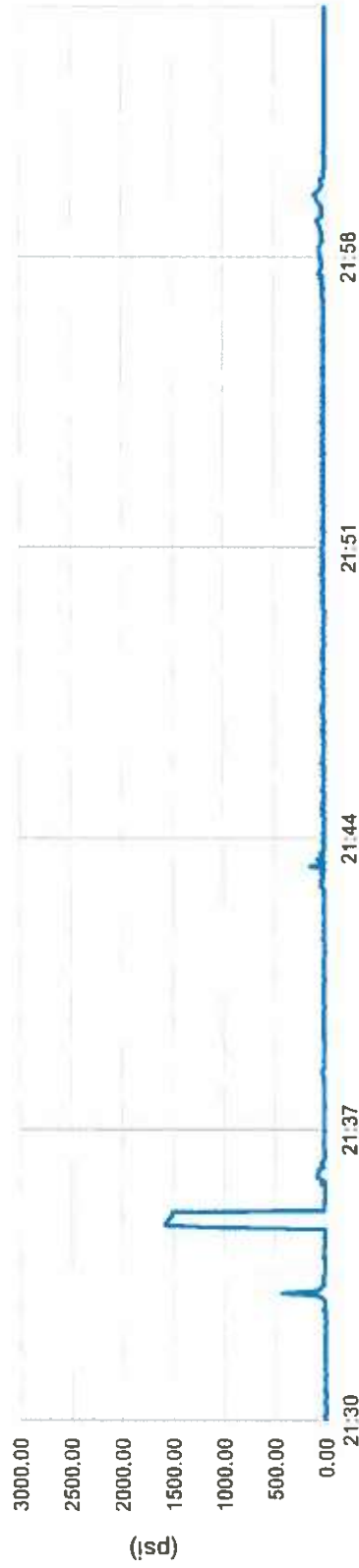


Client	Great Western	Client Rep	Stan Brinar	Supervisor	Joyner
Ticket No.	1812-0100	Well Name	Kowitz 27-5	Unit No.	445046
Location	SW NW 27:5N:65W	Job Type	Surface plug	Service District	Brighton
Comments	87bx G + ads @ 15ppg				
				Job Date	12/16/2018

Unit 445046 Rate Total



Unit 445046 Pump Pressure



Unit 445046 Density

