



# Job Summary

Ticket Number		Ticket Date
TN#	BCO-1902-0089	2/16/2019

COUNTY	COMPANY	API Number
Weld	EXTRACTION OIL & GAS LLC	05-123-20573
WELL NAME	RIG	JOB TYPE
OLIN HA 13 - 9	Ensign 351	Plug to Abandon
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.41208 -104.67144	Rich Devine	Rick Maxwell

EMPLOYEES		

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 7/8	400	896	400	896
	.	.	.	.	.

## 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 5/8	24	J-55	0	400	0	400
Type	Size (in)	Weight (lb/ft)		TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2 3/8	4.7	.	0	896	0	896

## CEMENT DATA

Stage 1:	From Depth (ft):	181	To Depth (ft):	300
Type: Non Latex Cement	Volume (sacks):	35	Volume (bbls):	7.6

Cement & Additives:	Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
Non Latex Cement	15.4	1.22	5.43

Stage 2:	From Depth (ft):	300	To Depth (ft):	896
Type: Latex Cement	Volume (sacks):	167	Volume (bbls):	36.2

Cement & Additives:	Density (ppg)	Yield (ft <sup>3</sup> /sk)	Water Req.
Latex Cement	15.4	1.22	4.75

## SUMMARY

Stage 1			
Preflushes:	20 bbls of SAPP	Calculated Displacement (bbl):	1
	86 bbls of Fresh Water	Actual Displacement (bbl):	1.2
Total Preflush/Spacer Volume (bbl):	106	Plug Bump (Y/N):	N/A
Total Slurry Volume (bbl):	43.8	Bump Pressure (psi):	N/A
Total Fluid Pumped	151	Lost Returns (Y/N):	No (if Y, when)
Returns to Surface:	Mud		

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

**Latex Balance Plug** - Pumped 20bbls pre-flush (200lbs SAPP), Pumped 86bbls fresh water spacer. Mixed / Pumped 7.6bbls non-latex cement @15.4ppg, Mixed / Pumped 36.2bbls latex cement @15.4ppg, Displaced with fresh water to balance. Estimated cement coverage **300 - 896ft**. Waited for rig to pull 2 3/8 tubing out, squeezed on cement for 1 hour. Pumped job as per program / customers request. Detailed description on events in job log.

**Thank You For Using**  
**CJES O-TEX Cementing**

Customer Representative Signature: \_\_\_\_\_

### Cement Job Log

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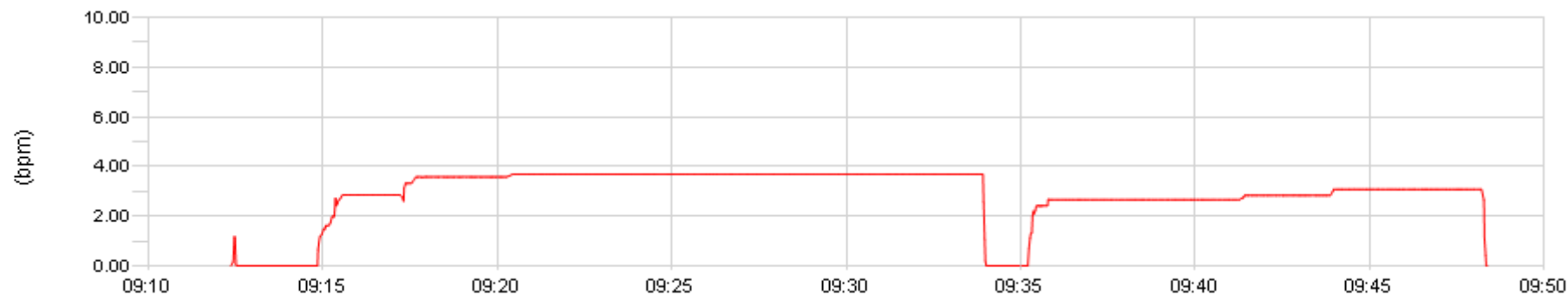


Client Extraction Oil & Gas LLC  
Ticket No. 1902-0089  
Location NESW 9 5N65W 6 PM  
Comments See job log for details

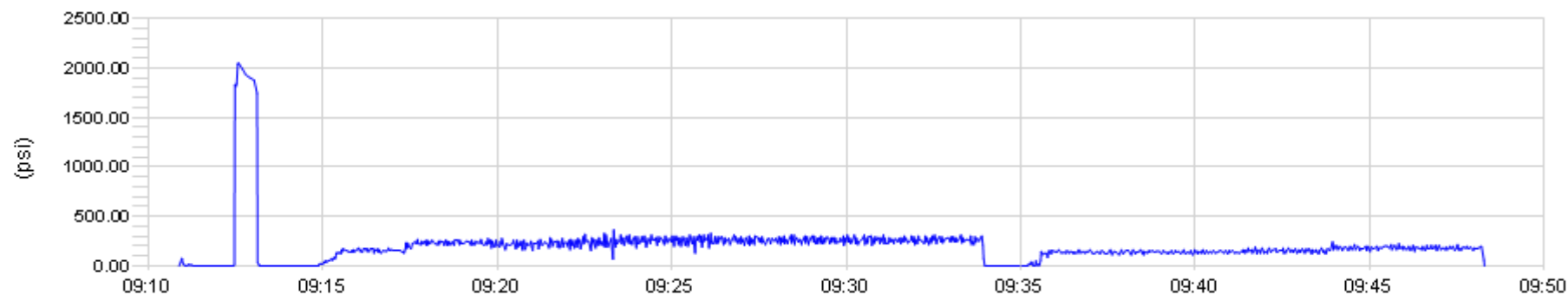
Client Rep Rick Maxwell  
Well Name OLIN HA 13-9  
Job Type Plug and Abandonment

Supervisor Rich Devine  
Unit No. 445047  
Service District Brighton  
Job Date 02/16/2019

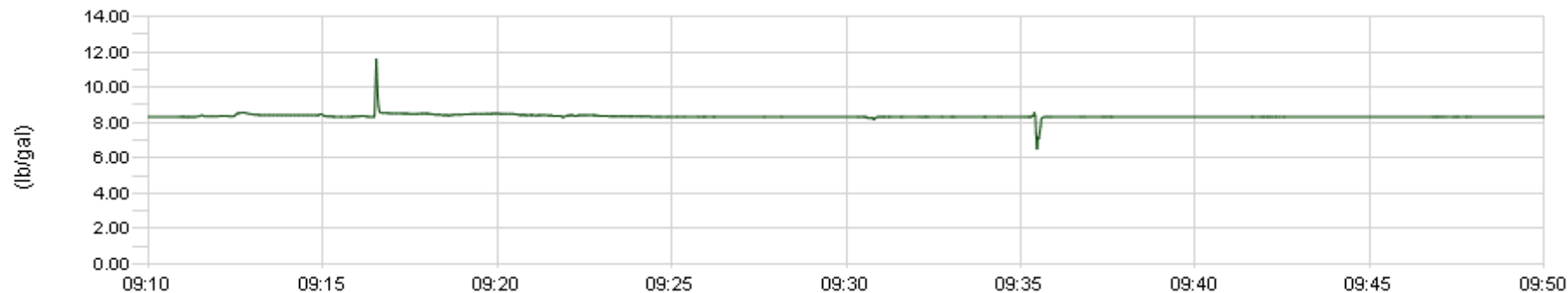
Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density



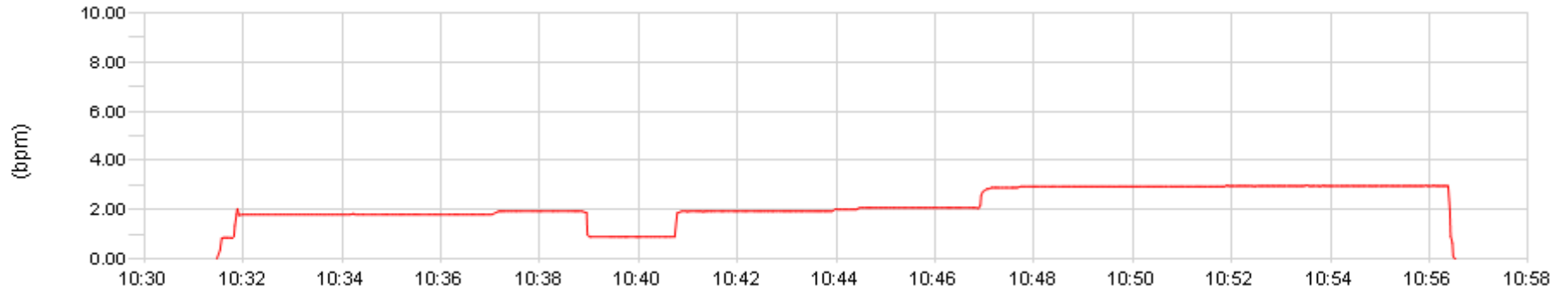


Client Extraction Oil & Gas LLC  
Ticket No. 1902-0089  
Location NESW 9 5N65W 6 PM  
Comments See job log for details

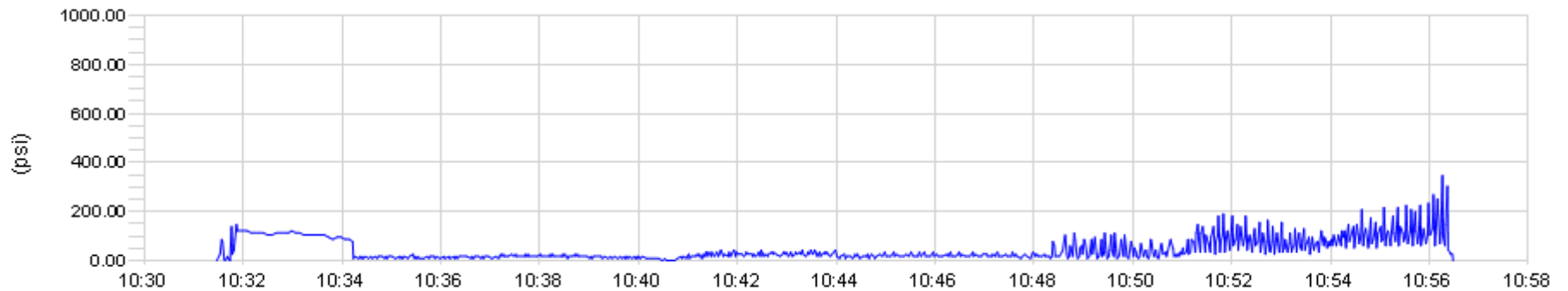
Client Rep Rick Maxwell  
Well Name OLIN HA 13-9  
Job Type Latex Cement

Supervisor Rich Devine  
Unit No. 445047  
Service District Brighton  
Job Date 02/16/2019

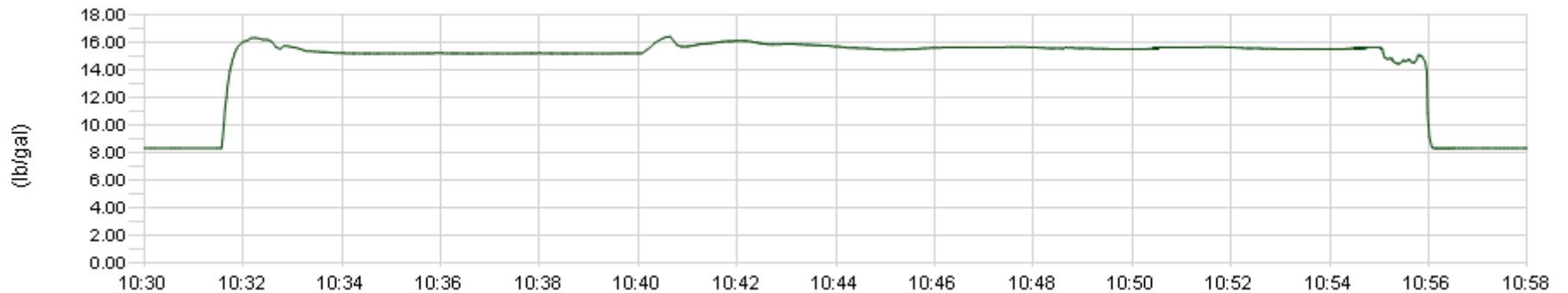
Unit 445047 Rate Total




Unit 445047 Pump Pressure



Unit 445047 Density



		<h1>Job Summary</h1>		Ticket Number <b>TN# BCO-1902-0054</b>		Ticket Date <b>2/19/2019</b>	
COUNTY		COMPANY		API Number			
<b>Weld</b>		<b>EXTRACTION OIL &amp; GAS LLC</b>		<b>05-123-20573</b>			
WELL NAME		RIG		JOB TYPE			
<b>OLIN HA 13 - 9</b>		<b>Ensign 351</b>		<b>Plug to Abandon</b>			
SURFACE WELL LOCATION		CJES Field Supervisor		CUSTOMER REP			
<b>40.41208 -104.67144</b>		<b>Jeff Kopp</b>		<b>Rick Maxwell</b>			
EMPLOYEES							
<b>WELL PROFILE</b>							
Max Treating Pressure (psi):		2500		Bottom Hole Static Temperature (°F):			
Bottom Hole Circulating Temperature (°F):				Well Type:			
<b>Open Hole</b>							
1	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)		
	8 3/4	400	450				
2	Size (in)	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)		
<b>Casing/Tubing/Drill Pipe</b>							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9 5/8	36		0	400		
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	500	0	482
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
<b>CEMENT DATA</b>							
<b>Stage 1:</b>		From Depth (ft):		450	To Depth (ft):		370
Type: Acid		Volume (sacks):		N/A	Volume (bbls):		6
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
<b>Stage 2:</b>		From Depth (ft):		500	To Depth (ft):		484
Type: RSP		Volume (sacks):		25	Volume (bbls):		5.4
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
				14.5	1.19	5.13	
<b>Stage 3:</b>		From Depth (ft):		484	To Depth (ft):		338
Type: RSP		Volume (sacks):		65	Volume (bbls):		13.8
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
				14.5	1.19	5.13	
<b>Stage 4:</b>		From Depth (ft):			To Depth (ft):		
Type:		Volume (sacks):			Volume (bbls):		
Cement & Additives:				Density (ppg)	Yield (ft³/sk)	Water Req.	
<b>SUMMARY</b>							
Preflushes:		10 bbls of	SMS	Calculated Displacement (bbl):		1.6	1.3
		5 bbls of	Fresh Water	Actual Displacement (bbl):		1.9	1.4
		10 bbls of	Fresh Water				
Total Preflush/Spacer Volume (bbl):		25		Plug Bump (Y/N):		N/A	Bump Pressure (psi):
Total Slurry Volume (bbl):		19.2		Lost Returns (Y/N):		N	(if Y, when)
Total Fluid Pumped		44.2					
Returns to Surface:		Cement	0 bbls				
Job Notes (fluids pumped / procedures / tools / etc.):							
RSP number one set up in 48 minutes. The second RSP set up in 47 minutes.							
<div> <div>Thank You For Using</div> <div>CJES O-TEX Cementing</div> </div>							
Customer Representative Signature: _____							

## Cement Job Log



Customer:	EXTRACTION OIL & GAS LLC	Date:	2/19/2019	Serv. Supervisor:	Jeff Kopp			
Cust. Rep.:	Rick Maxwell	Ticket #:	BCO-1902-0054	Serv. Center	Brighton - 3021			
Lease:	OLIN HA 13 - 9	API Well #:	05-123-20573	County:	Weld State: CO			
Well Type:	Oil	Rig:	Ensign 351	Type of Job:	Plug to Abandon			
Materials Furnished by C&J ENERGY SERVICES								
Plugs	Casing Hardware	Physical Slurry Properties						
		Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbbls)	Mix Water (bbbls)
10 bbbls SMS Water	+40.0 PPB CJ030						-	
7 Bbl Fresh Water - Displace to End of Tu							-	
RSP #1		25	14.5		1.19	5.13	5.29	3
5 bbbls Fresh Water							-	
RSP #2		65	14.5		1.19	5.13	13.75	8
Displacement Chemicals:								

## Cement Job Log



Customer:	EXTRACTION OIL & GAS LLC				Date: 2/19/2019				Serv. Supervisor: Jeff Kopp			
Cust. Rep.:	Rick Maxwell				Ticket #: BCO-1902-0054				Serv. Center Brighton - 3021			
Lease:	OLIN HA 13 - 9				API Well #: 05-123-20573				County: Weld		State: CO	
Well Type:	Oil				Rig: Ensign 351				Type of Job: Plug to Abandon			
OPEN HOLE DATA				TUBULAR DATA								
8 3/4 in O.H. (400ft to 450ft)				SIZE WEIGHT		THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)	
				2.375			500					
				2.375			482					
PREVIOUS CASING DATA				PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS				
9.625 in. 36# ( 0 to 400 ft)				TOP		BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
WELL FLUID		DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)				WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY			2500				130	
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details					
11:50 AM						0	ARRIVE ON LOCATION					
11:52 AM						0	PRE JOB SAFETY MEETING					
11:55 AM						0	SAFETY MEETING					
12:15 PM						0	SPOT EQUIPMENT					
12:20 PM						0	RIG UP IRON AND HOSES					
1:19 PM	2		20		4	4	FILL LINES					
1:25 PM			4300			4	PRESSURE TEST					
1:27 PM	2		70		1	5	EST. CIRCULATION					
1:28 PM	2		70		6	11	PUMP ACID					
1:31 PM	2		50		1.5	12.5	DISPLACE ACID WITH FRESH					
1:32 PM						12.5	SHUT DOWN					
1:33 PM						12.5	WAIT 30 MINUTES					
2:12 PM	2		60		10	22.5	PUMP MAG OX					
2:20 PM						22.5	SHUT DOWN					
2:21 PM						22.5	WAIT ON RIG TO CIRCULATE ACID OUT					
3:08 PM	2		70		10	32.5	SMS					
3:12 PM	2		70		5	37.5	FRESH					
3:18 PM	2		24		5.4	42.9	MIX AND PUMP 25SXS @14.5PPG 1.19Y 5.13WR					
3:22 PM	2		20		1.9	44.8	DISPLACE					
3:24 PM						44.8	WASH UP PUMPS AND LINES					
3:37 PM						44.8	SHUT DOWN AND WAIT FOR CEMENT TO SET UP					
4:32 PM	1.2		43		10	54.8	EST. CIRCULATION					
4:39 PM	2.3		61		13.8	68.6	MIX AND PUMP 65SXS @14.5PPG 1.19Y 5.13WR					
4:46 PM	1.7		59		1.4	70	DISPLACE					
Left Yard			Left Loc.		Start Pump							
Arrived Loc.			Returned Yd.		End Pump							
Bumped Plug (psi)	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Standby Charged (hrs)	Casing Reciprocation		
			0	0	338	Yes	2500		0			
							Jeff Kopp					
							Service Supervisor					

**C&J ENERGY SERVICES**

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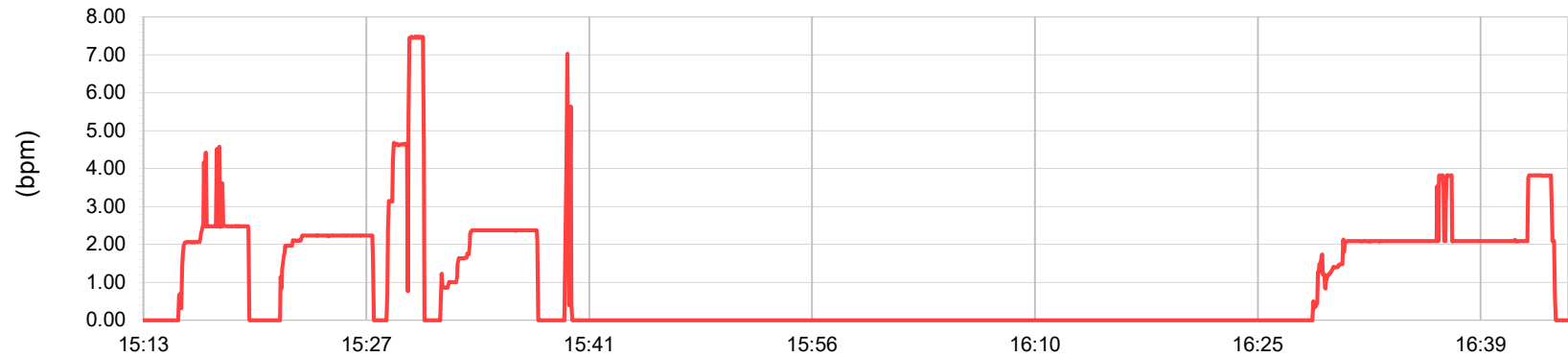
Comments/Special Customer Instructions



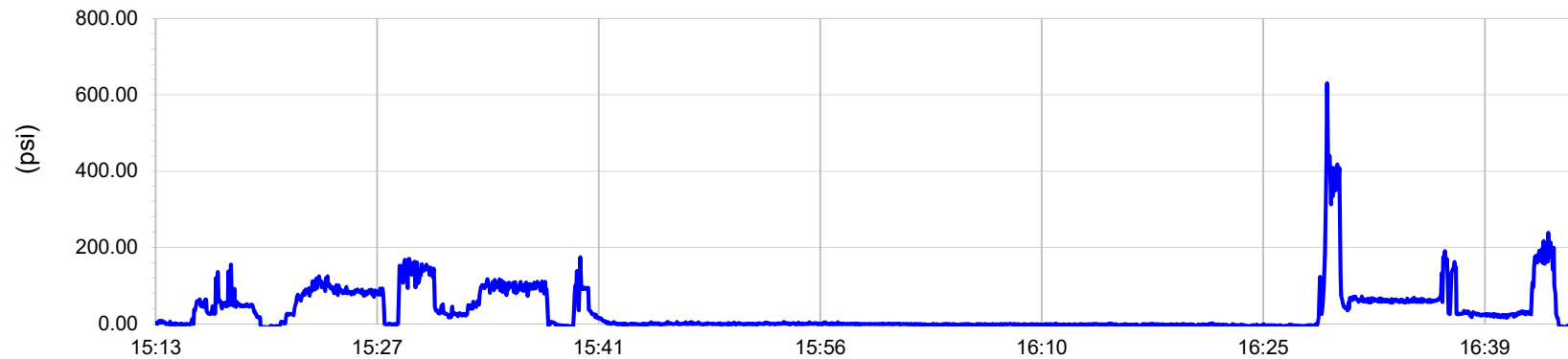


Client	Extraction O.G.	Client Rep	Rick Maxwell	Supervisor	Jeff Kopp
Ticket No.	19020091	Well Name	Olin HA 13-9	Unit No.	445067
Location		Job Type	Abandonment Plugs	Service District	Brighton, CO
Comments	25sx RSP @ 14.5ppg and 65sx RSP @ 14.5ppg			Job Date	2/19/2019

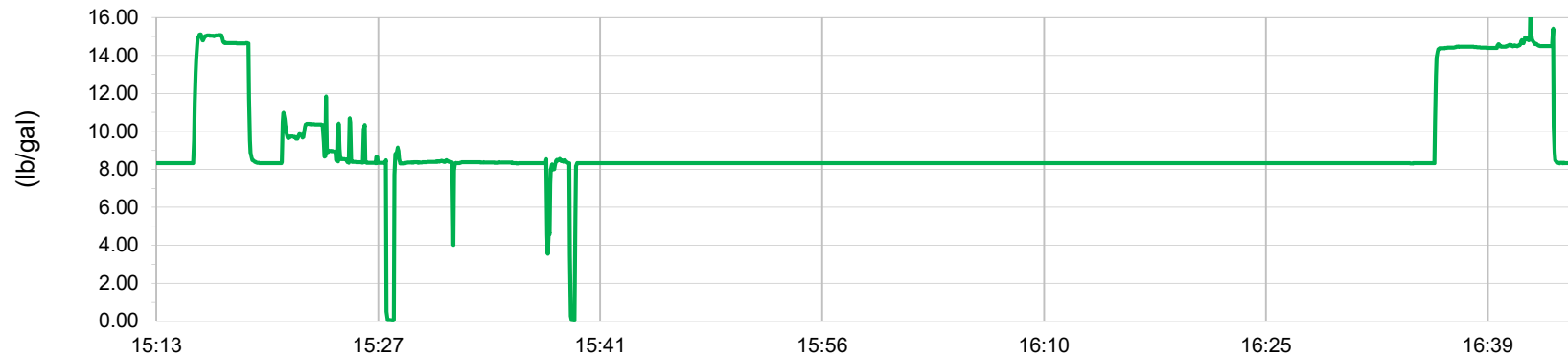
Unit 445067 Rate Total



Unit 445067 Pump Pressure



Unit 445067 Density





# Job Summary

Ticket Number	Ticket Date
TN# BCO-1903-0145	3/29/2019

COUNTY	COMPANY	API Number
Weld	EXTRACTION OIL & GAS LLC	05-123-20573
WELL NAME	RIG	JOB TYPE
Olin Ha 13-9	Ensign 351	Squeeze Job
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.41208 -104.67144	Sam Cheal	Rick Maxwell

EMPLOYEES
.
.
.

## WELL PROFILE

Max Treating Pressure (psi):	1500	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)
	14	400	450	400	450
	.	.	.	.	.

### Casing/Tubing/Drill Pipe

Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	9 5/8	36	J-55	0	400	0	400
Type	Size (in)	Weight (lb/ft)		TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	3/8	4.7	.	0	230	0	230

## CEMENT DATA

Stage 1:	From Depth (ft):	300	To Depth (ft):	450
Type: Smart Set	Volume (sacks):	137	Volume (bbls):	17.25

### Cement & Additives:

### Density (ppg)

Smart Set	13.5		
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## SUMMARY

			Stage 1
		Calculated Displacement (bbl):	6.3
		Actual Displacement (bbl):	6.3
Total Preflush/Spacer Volume (bbl):	1	Plug Bump (Y/N):	N/A
Total Slurry Volume (bbl):	17.25	Lost Returns (Y/N):	Yes (if Y, when) Never had returns
Total Fluid Pumped	24.55		
Returns to Surface:			

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

**Smart Set Squeeze** - Pressured up backside to 700psi. Pumped 5bbls fresh water for injection test, Mixed / Pumped Smart Set blend @1bbl/min. into formation. Displaced with 6.3bbls MS Spacer. Squeezed Smart Set into formation. Estimated coverage **300 - 450ft**. Pumped job as per preprogram / customers request. Detailed discription of events in job log.

Thank You For Using

CJES O-TEX Cementing

Customer Representative Signature: \_\_\_\_\_

## Cement Job Log



Customer:	EXTRACTION OIL & GAS LLC	Date:	3/29/2019	Serv. Supervisor:	Sam Cheal			
Cust. Rep.:	Rick Maxwell	Ticket #:	BCO-1903-0145	Serv. Center	Brighton - 3021			
Lease:	Olin Ha 13-9	API Well #:	05-123-20573	County:	Weld State: CO			
Well Type:	Oil	Rig:	Ensign 351	Type of Job:	Squeeze Job			
Materials Furnished by C&J ENERGY SERVICES								
Plugs	Casing Hardware	Physical Slurry Properties						
		Sacks of Cement	Fluid Dens (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Mix Water (bbls)
Establish Injection - 5bbls Water							5.00	
Spacer - 1bbls Water + 10lbs MS Spacer							1.00	
Squeeze Plug - SmartSet, using 14" OH a							17.25	
Visc Spacer - 9bbls Water + 90lbs MS Sp								
Displacement Chemicals:								

**Cement Job Log**



Customer: <b>EXTRACTION OIL &amp; GAS LLC</b>		Date: <b>3/29/2019</b>		Serv. Supervisor: <b>Sam Cheal</b>							
Cust. Rep.: <b>Rick Maxwell</b>		Ticket #: <b>BCO-1903-0145</b>		Serv. Center <b>Brighton - 3021</b>							
Lease: <b>Olin Ha 13-9</b>		API Well #: <b>05-123-20573</b>		County: <b>Weld</b>	State: <b>CO</b>						
Well Type: <b>Oil</b>		Rig: <b>Ensign 351</b>		Type of Job: <b>Squeeze Job</b>							
<b>OPEN HOLE DATA</b>			<b>TUBULAR DATA</b>								
<b>14 in. O.H. (400 to 450 ft)</b>		<b>2.375 in. 4.7#, ( 0 to 230 ft)</b>		SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)	
		<b>9.625 in. 36#, (230 to 300 ft)</b>									
<b>PREVIOUS CASING DATA</b>			<b>PERFORATED INTERVAL DATA</b>			<b>CASING EQUIPMENT DEPTHS</b>					
<b>9.625 in. 36# ( 0 to 400 ft)</b>			TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP	
<b>WELL FLUID</b>		<b>DISPLACEMENT FLUID</b>		DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)				WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE								DENSITY
Mud	8.5 ppg	6.3 bbl	MS Spacer	9.0 ppg							
Time	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Details				
2:00 PM						0	ARRIVE ON LOCATION				
2:05 PM						0	SPOT EQUIPMENT				
2:10 PM						0	RIG UP IRON AND HOSES				
3:00 PM						0	PRE JOB SAFETY MEETING				
3:28 PM				700		0	LOAD AND PRESSURE UP BACKSIDE				
3:32 PM	1	500			5	5	INJECTION TEST				
3:37 PM		2600				5	PRESSURE TEST				
3:42 PM						5	MIX 65 SACKS OF C-SET				
4:04 PM						5	MIX MS SPACER				
4:20 PM						5	MIX 72 SACKS OF LT				
4:43 PM	1	550			1	6	MS SPACER				
4:44 PM						6	ISSUES WITH PUMP KICKOUTS AND PRIME				
4:57 PM	1	530			17.25	23.25	SMARTSET				
5:10 PM	1	700			6.3	29.55	MS SPACER DISPLACEMENT				
5:16 PM		500				29.55	SHUT IN				
5:17 PM							WASH PUMP UNIT				
5:30 PM							RIG OUT				
5:50 PM							AAR / DISCUSS LEAVEING LOCATION				
6:00 PM							LEAVE LOCATION				
Left Yard	N/A		Left Loc.	3/29/19 6:00 PM		Start Pump	3/29/19 3:28 PM				
Arrived Loc.	3/29/19 2:00 PM		Returned Yd.	3/29/19 7:00 PM		End Pump	3/29/19 5:16 PM				
						<div align="center">Sam Cheal</div> <div align="center">Service Supervisor <span style="float:right">Date</span></div>					