



# Job Summary

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

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>Rich Devine</b>	<b>Rick Maxwell</b>

EMPLOYEES		

<b>WELL PROFILE</b>			
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):  To Depth (ft):   
 Type: **Non Latex Cement**  
 Volume (sacks):  Volume (bbls):

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):  To Depth (ft):   
 Type: **Latex Cement**  
 Volume (sacks):  Volume (bbls):

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

### SUMMARY

Preflushes: <u>20</u> bbls of <u>SAPP</u>		Calculated Displacement (bbl): <u>1</u>	<b>Stage 1</b>		
<u>86</u> bbls of <u>Fresh Water</u>			Actual Displacement (bbl): <u>1.2</u>		
Total Preflush/Spacer Volume (bbl):	<u>106</u>	Plug Bump (Y/N):	<u>N/A</u>	Bump Pressure (psi):	<u>N/A</u>
Total Slurry Volume (bbl):	<u>43.8</u>	Lost Returns (Y/N):	<u>No</u> (if Y, when)		
Total Fluid Pumped	<u>151</u>				
Returns to Surface:	<input type="text" value="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. Deaified discription on events in job log.

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

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





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

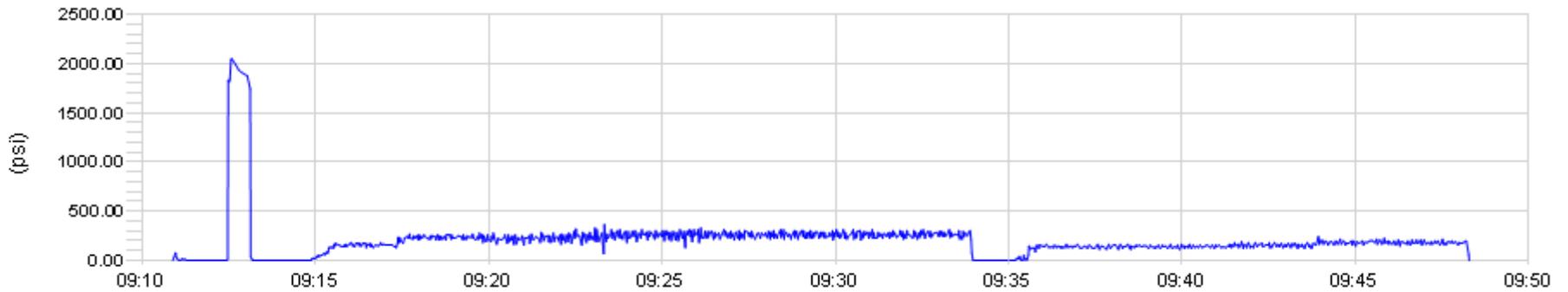
Client Rep Rick Maxwell  
 Well Name OLIN HA 13-9  
 Job Type Plug and Abandment

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

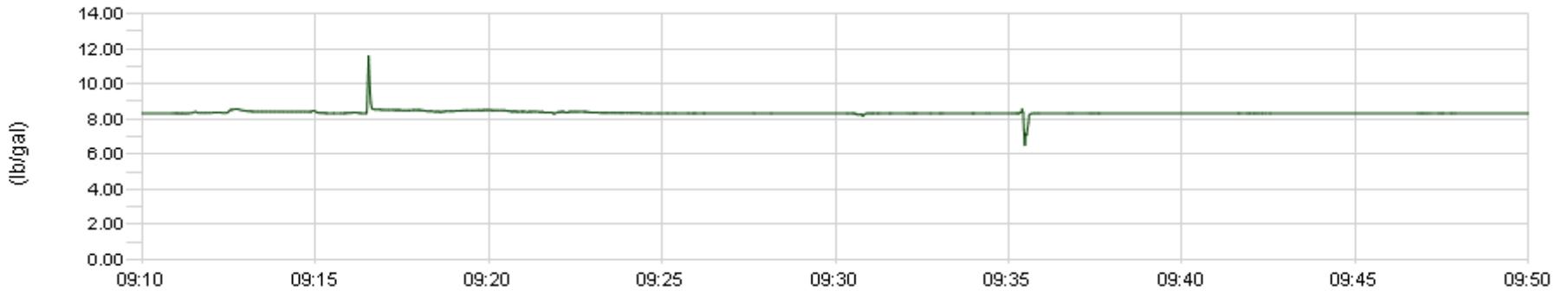
Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density



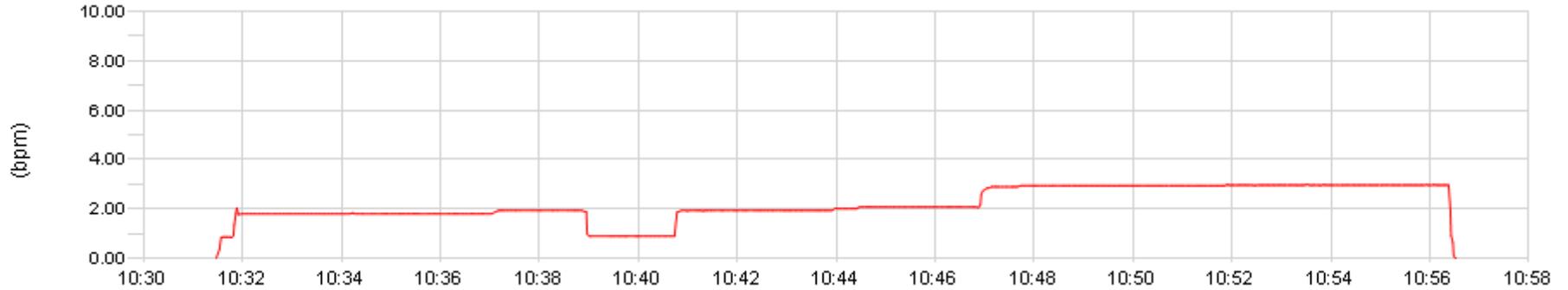


Client Extraction Oil & Gas LLC  
Ticket No. 1902-0089  
Location NESW 9 5N65W 6 PM  
Comments See job log for details

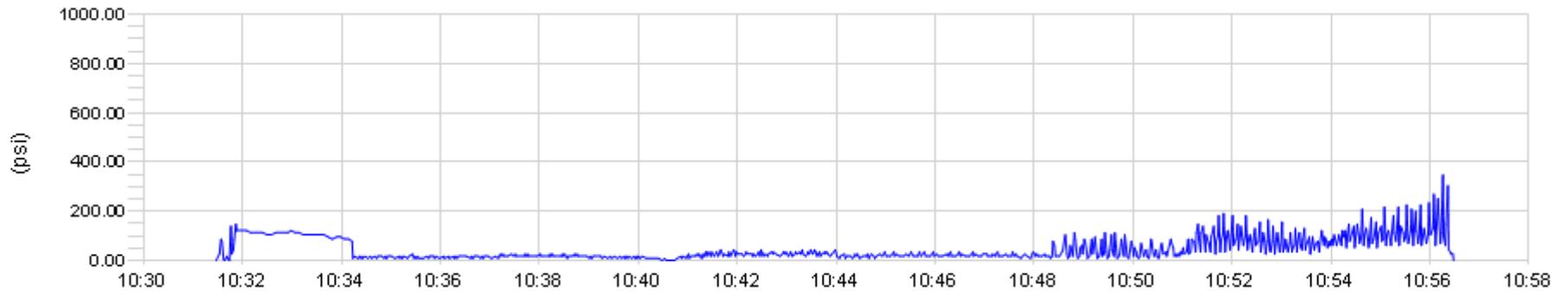
Client Rep Rick Maxwell  
Well Name OLIN HA 13-9  
Job Type Latex Cement

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

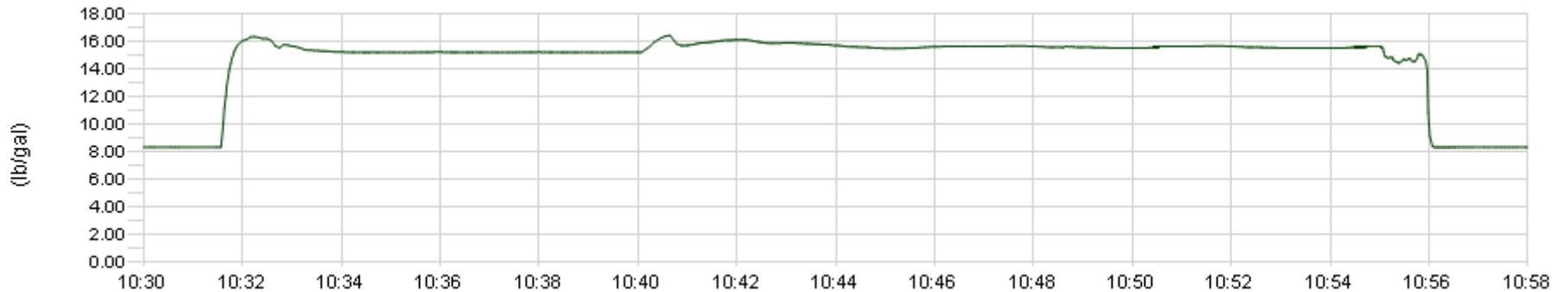
Unit 445047 Rate Total



Unit 445047 Pump Pressure



Unit 445047 Density





# Job Summary

Ticket Number	Ticket Date
TN# BCO-1902-0054	2/19/2019

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	Jeff Kopp	Rick Maxwell

EMPLOYEES		

<b>WELL PROFILE</b>			
Max Treating Pressure (psi):	2500	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)
	8 3/4	400	450		
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	9 5/8	36		0	400		
Tubing	2 3/8	4.7		0	500	0	482

### CEMENT DATA

<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 (ft <sup>3</sup> /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 (ft <sup>3</sup> /sk)				
Water Req.				

<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 (ft <sup>3</sup> /sk)				
Water Req.				

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

### SUMMARY

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): N/A
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.

Customer Representative Signature: \_\_\_\_\_ Thank You For Using CJES O-TEX Cementing

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		Date
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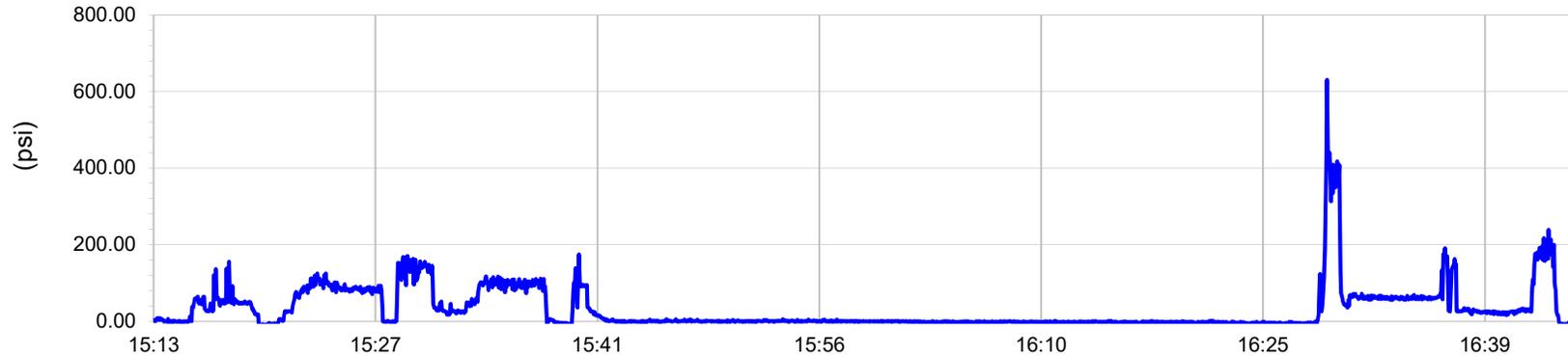


Client	Extraction O.G.	Client Rep	Rick Maxwell	Supervisor	Jeff Kopp
Ticket No.	19020091	Well Name	Olin HA 13-9	Unit No.	445067
Location		Job Type	Abandonment Plugs	Service District	Brighton, CO
Comments	25sx RSP @ 14.5ppg and 65sx RSP @ 14.5ppg			Job Date	2/19/2019

Unit 445067 Rate Total



Unit 445067 Pump Pressure



Unit 445067 Density





# Job Summary

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

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>Squeeze Job</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.41208 -104.67144</b>	<b>Sam Cheal</b>	<b>Rick Maxwell</b>

EMPLOYEES		

<b>WELL PROFILE</b>			
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:**  
 Type: **Smart Set**  
 From Depth (ft):  To Depth (ft):   
 Volume (sacks):  Volume (bbls):

Cement & Additives:	Density (ppg)
Smart Set	13.5

### SUMMARY

_____	_____	Calculated Displacement (bbl):	<u>6.3</u>	_____
_____	_____	Actual Displacement (bbl):	<u>6.3</u>	_____
Total Preflush/Spacer Volume (bbl):	<u>1</u>	Plug Bump (Y/N):	<u>N/A</u>	Bump Pressure (psi): <u>N/A</u>
Total Slurry Volume (bbl):	<u>17.25</u>	Lost Returns (Y/N):	<u>Yes</u> (if Y, when)	<u>Never had returns</u>
Total Fluid Pumped	<u>24.55</u>			
Returns to Surface:	<input type="text"/>			

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.

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

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

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 (bbbls)
Establish Injection - 5bbbls Water						5.00	
Spacer - 1bbbls Water + 10lbs MS Spacer						1.00	
Squeeze Plug - SmartSet, using 14" OH a						17.25	
Visc Spacer - 9bbbls Water + 90lbs MS Sp							
Displacement Chemicals:							

**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

OPEN HOLE DATA		TUBULAR DATA						
14 in. O.H. (400 to 450 ft)	2.375 in. 4.7#, ( 0 to 230 ft)	SIZE WEIGHT	THREAD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
	9.625 in. 36#, (230 to 300 ft)							

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				
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

Sam Cheal Service Supervisor		Date
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