

COUNTY	COMPANY	API Number
BROOMFIELD (CO)	CRESTONE PEAK RESOURCES	501420651
WELL NAME	RIG	JOB TYPE
KATS 42-34	Ensign 313	CM-P2A-PERM.
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.010323 -104.986072	Cody Michel	Carl Rayas

EMPLOYEES
<i>James McFarland</i>
<i>Jeff Kopp</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)
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	11.6		0	7870	0	7870
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	7820	0	7820
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):	7472	To Depth (ft):	7870	
	Type: Squeeze				
	Volume (sacks):	120	Volume (bbls):	32.5	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req
100% NCM-914+35.0% NWT-766+0.6%NFL-549+0.2%NRT-210+0.2% NDS-415+0.2% NAC-102			15.8	1.52	6.20

Stage 2:	From Depth (ft):	5453	To Depth (ft):	5585	
	Type: Balance Plug				
	Volume (sacks):	10	Volume (bbls):	2	
Cement & Additives:			Density (ppg)	Yield (ft³/sk)	Water Req.
100% NCM-914			15.8	1.15	5.00

Stage 3:	From Depth (ft):	4786	To Depth (ft):	5050	
	Type: Balance Plug				
	Volume (sacks):	20	Volume (bbls):	4	
	Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req
	100%NCM-914		15.8	1.15	5.00

Stage 4:

Type:

From Depth (ft):

To Depth (ft):

Volume (sacks):

Volume (bbls):

Cement & Additives:

Density (ppg)

Yield (ft³/sk)

Water Req.

SUMMARY

Preflushes:	4 bbls of	Fresh Water	Calculated Displacement (bbl):	21	18.5
	5 bbls of	Fresh Water	Actual Displacement (bbl):	21	18.5
	2 bbls of	Fresh Water			
Total Preflush/Spacer Volume (bbl):	11	Plug Bump (Y/N):	No	Bump Pressure (psi):	
Total Slurry Volume (bbl):	38.5	Lost Returns (Y/N):	No	(if Y, when)	
Total Fluid Pumped	113.8				
Returns to Surface:					

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

7820' of 2.375" 4.7 ppf tubing stung into retainer at @7820' inside 4.5" 11.6ppf casing with holes @ 7870' Injected at 1.5 BPM @ 1900 psi then mixed and pumped 120 sx of nio squeeze cement @ 15.8ppg then displaced 24.8 bbl of fresh water leaving 20 sks on top of the retainer. Shut down and stung out Pressure was 2433psi. Estimated cement coverage 7472'-7870' in casing. Wait on rig to trip out to 5585' then pumped 5 bbl of fresh water followed by 10 sks (2 bbl) of Class G @ 15.8ppg and displace 21 bbl to balance. Wait on rig to trip out 5050' pump 2 bbl of fresh water followed by 20 sks (4 bbl) of Class G @ 15.8ppg and displace 18.5 bbl to balance. Job pumped per customer request

Customer Representative Signature:

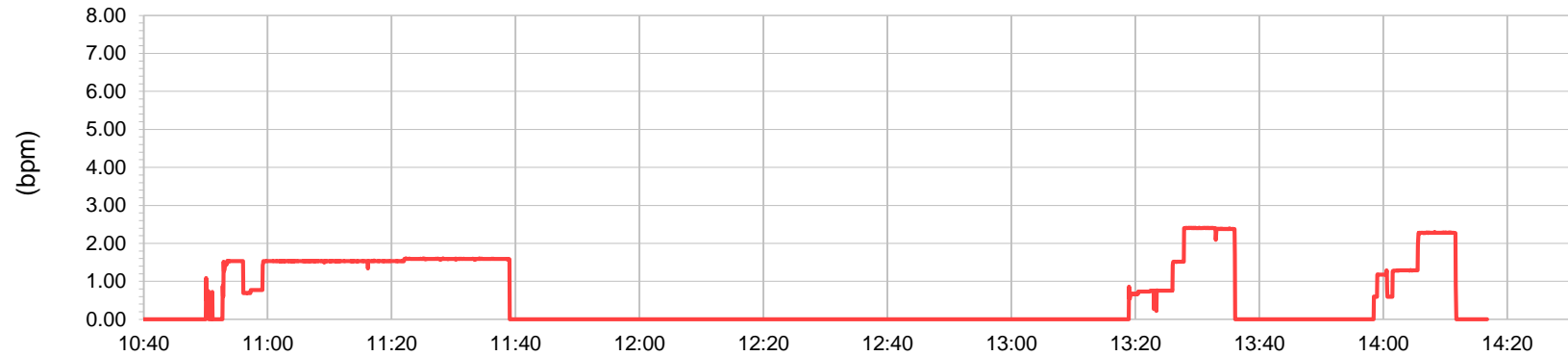
Carl Rayas

NexTier Completion Solutions

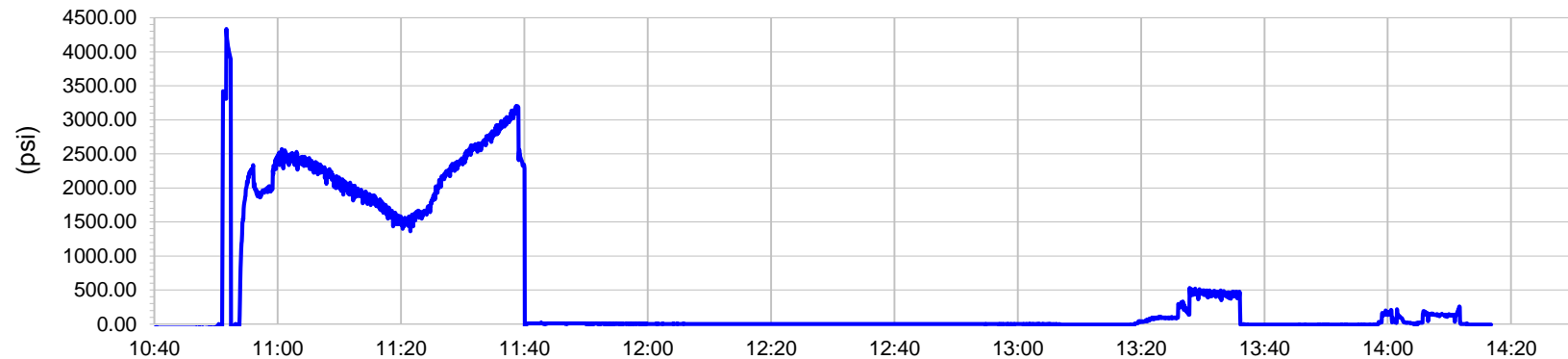


Client	Crestone Peak	Client Rep	Carl Rayas	Supervisor	Cody Michel
Ticket No.	BCO-2012-0020	Well Name	Kate 42-36	Unit No.	
Location		Job Type	P&A	Service District	Brighton, CO
Comments	See Job Log			Job Date	12/5/2020

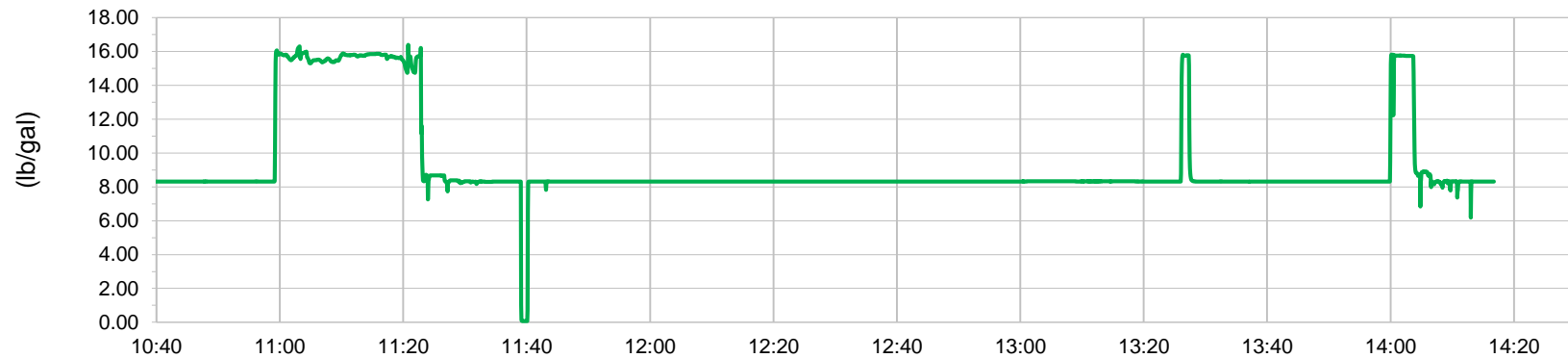
Unit Rate Total



Unit Pump Pressure



Unit Density



				Customer Crestone		Job Number E7RM-00418	
Well Kats 8-2-34		Location (legal)		Schlumberger Location Cheyenne		Job Start Dec/07/2020	
Field DJ		Formation Name/Type		Deviation deg	Bit Size in	Well MD 2800.0 ft	Well TVD 2800.0 ft
County Weld		State/Province Colorado		BHP psi	BHST degF	BHCT degF	Pore Press. Gradient lb/gal
Well Master		API/UWI					
Rig Name	Drilled For Oil & Gas	Service Via Land	Casing/Liner				
			Depth, ft	Size, in	Weight, lb/ft	Grade	Thread
Offshore Zone	Well Class Old	Well Type Other	2800.0	4.5	11.6	N/A	N/A
			0.0	0.0	0.0		
Drilling Fluid Type		Max. Density lb/gal	Plastic Viscosity cP	Tubing/Drill Pipe			
				T/D	Depth, ft	Size, in	Weight, lb/ft
Service Line Cementing		Job Type Plug					
Max. Allowed Tub. Press psi	Max. Allowed Ann. Press psi	WH Connection 2 3/8" 4.7# T/S	Perforations/Open Hole				
			Top, ft	Bottom, ft	shot/ft	No. of Shots	Total Interval ft
			ft	ft			
			ft	ft			Diameter in
			Treat Down Casing	Displacement 37.2 bbl	Packer Type	Packer Depth ft	
			Tubing Vol. bbl	Casing Vol. 43.4 bbl	Annular Vol. bbl	Openhole Vol. bbl	
Casing/Tubing Secured <input checked="" type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input type="checkbox"/>		Casing Tools		Squeeze Job	
Lift Pressure psi				Shoe Type		Squeeze Type	
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>		Shoe Depth ft		Tool Type	
No. Centralizers		Top Plugs	Bottom Plugs	Stage Tool Type		Tool Depth ft	
Cement Head Type			Stage Tool Depth ft		Tail Pipe Size in		
Job Scheduled For Dec/07/2020		Arrived on Location Dec/07/2020	Leave Location Dec/07/2020	Collar Type		Tail Pipe Depth ft	
				Collar Depth ft		Sqz. Total Vol. bbl	
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density LB/G	Volume BBL	Message	
12/07/2020	17:14:58	-38	0.0	0.01	0.0	End Job	
12/07/2020	17:18:06	-33	0.0	8.31	0.0	Start Job	
12/07/2020	17:18:59	59	0.5	8.31	0.0	Start Pumping Water	
12/07/2020	17:19:58	260	3.8	8.30	2.7		
12/07/2020	17:21:20	2750	0.0	8.30	3.4	Pressure Test Lines	
12/07/2020	17:24:58	315	3.8	8.30	13.6		
12/07/2020	17:28:20	114	0.0	8.30	26.1	End Water	
12/07/2020	17:28:24	86	0.0	8.30	26.1	Reset Total, Vol = 30.09 bbl	
12/07/2020	17:29:58	54	0.0	9.30	26.1		
12/07/2020	17:33:25	123	0.9	15.94	26.1	Start Cement Slurry	
12/07/2020	17:34:58	178	2.0	15.73	29.2		
12/07/2020	17:39:58	91	2.0	15.68	39.4		
12/07/2020	17:43:00	86	2.0	15.59	45.6	End Cement Slurry	
12/07/2020	17:43:05	68	2.0	14.34	45.7	Reset Total, Vol =22.12 bbl	
12/07/2020	17:43:09	54	2.0	12.01	45.9	Start Displacement	
12/07/2020	17:44:58	22	2.0	8.31	49.6		
12/07/2020	17:49:58	40	2.0	8.31	59.8		
12/07/2020	17:54:25	603	2.9	8.29	74.1	End Displacement	
12/07/2020	17:54:30	452	0.0	8.29	74.1	Reset Total, Vol = 37.26 bbl	

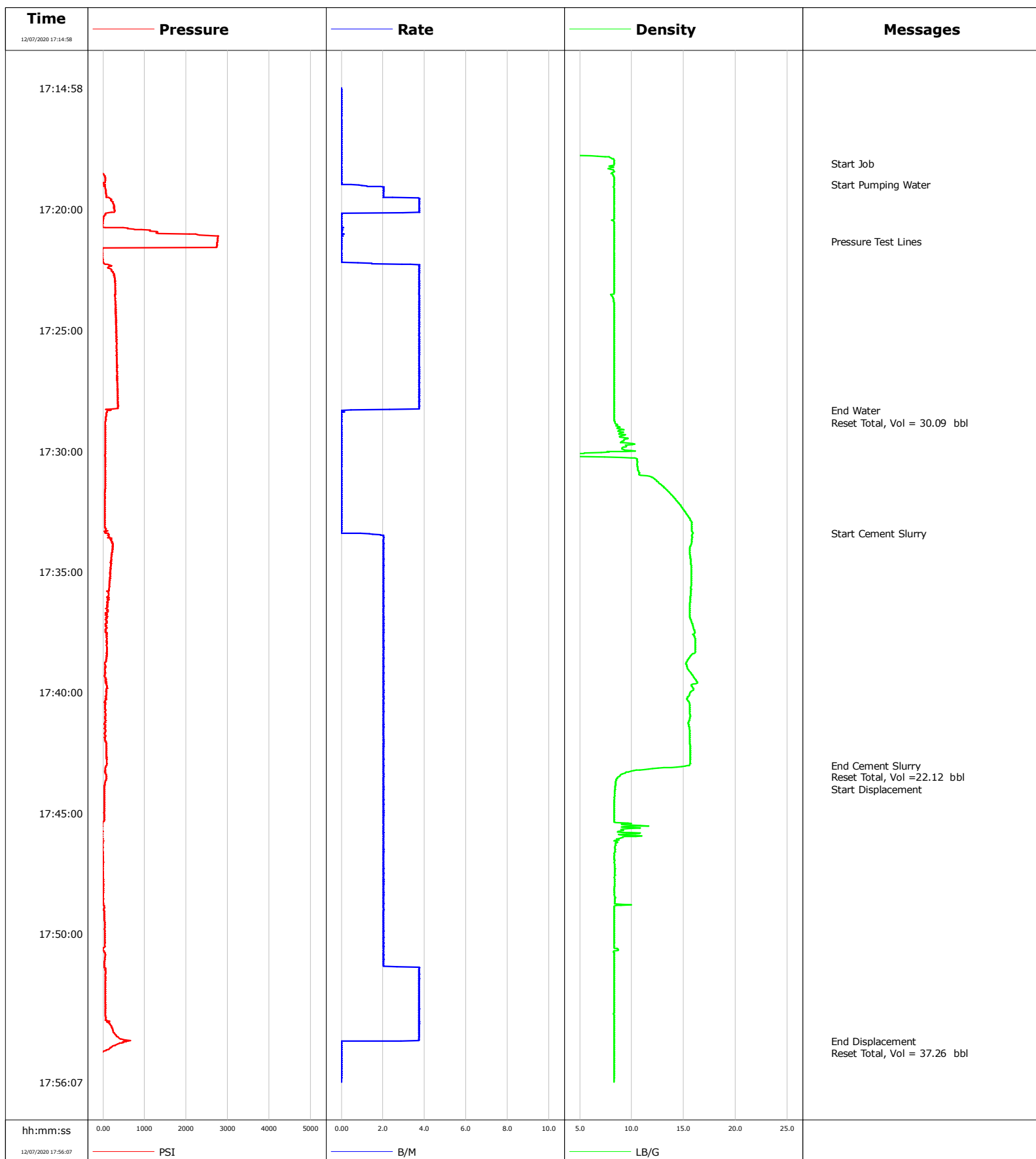
Well	Kats 8-2-34	Field	DJ	Job Start	Dec/07/2020	Customer	Crestone	Job Number	E7RM-00418
------	-------------	-------	----	-----------	-------------	----------	----------	------------	------------

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl				
Slurry 2.6	N2		Mud	Maximum Rate 3.8	Total Slurry 22.1	Mud 0.0		Spacer 30.0	N2
Treating Pressure Summary, psi					Breakdown Fluid				
Maximum 2773	Final -33	Average 176	Bump Plug to	Breakdown	Type		Volume bbl		Density lb/gal
Avg. N2 Percent %		Designed Slurry Volume 22.1 bbl		Displacement 37.2 bbl	Mix Water Temp 60 degF		Cement Circulated to Surface? <input type="checkbox"/>	Volume bbl	
							Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative				Schlumberger Supervisor			Circulation Lost <input type="checkbox"/>	Job Completed <input type="checkbox"/>	
Carl Rayas				R Pippin			-		-

Well Kats 8-2-34
Field DJ
Engineer R Pippin
Country United States

Client Crestone
SIR No. E7RM-00418
Job Type Plug
Job Date 12-07-2020



				Customer Crestone				Job Number ELK3-00012			
Well Kats 42-34			Location (legal) CWy			Schlumberger Location Cheyenne			Job Start Dec/30/2020		
Field DJ		Formation Name/Type			Deviation deg		Bit Size in		Well MD 634.0 ft		Well TVD 634.0 ft
County Weld		State/Province Colorado			BHP psi		BHST 90 degF		BHCT 80 degF		Pore Press. Gradient lb/gal
Well Master 1234		API/UWI									
Rig Name Workover		Drilled For Oil and Gas		Service Via Land		Casing/Liner					
						Depth, ft		Size, in		Weight, lb/ft	
										Grade	
										Thread	
Offshore Zone		Well Class Old		Well Type Other		634.0		8.6		24.0	
						0.0		0.0		0.0	
Drilling Fluid Type Other		Max. Density 8.40 lb/gal		Plastic Viscosity cP		Tubing/Drill Pipe					
						T/D		Depth, ft		Size, in	
										Weight, lb/ft	
										Grade	
										Thread	
Service Line Cementing		Job Type P & A Surface Plug				T		634.0		2.4	
										4.7	
										n/a	
										n/a	
Max. Allowed Tub. Press psi		Max. Allowed Ann. Press psi		WH Connection 2 3/8" 4.7# T/S		Perforations/Open Hole					
						Top, ft		Bottom, ft		shot/ft	
										No. of Shots	
										Total Interval ft	
						ft		ft			
						ft		ft		Diameter in	
						ft		ft			
						Treat Down Tubing		Displacement bbl		Packer Type	
										Packer Depth ft	
						Tubing Vol. bbl		Casing Vol. bbl		Annular Vol. bbl	
										Openhole Vol. bbl	
Casing/Tubing Secured <input type="checkbox"/>		1 Hole Vol. Circulated prior to Cement <input checked="" type="checkbox"/>				Casing Tools			Squeeze Job		
Lift Pressure psi						Shoe Type			Squeeze Type		
Pipe Rotated <input type="checkbox"/>		Pipe Reciprocated <input type="checkbox"/>				Shoe Depth ft			Tool Type		
No. Centralizers		Top Plugs		Bottom Plugs		Stage Tool Type			Tool Depth ft		
Cement Head Type						Stage Tool Depth ft			Tail Pipe Size in		
Job Scheduled For Dec/30/2020		Arrived on Location Dec/30/2020		Leave Location Dec/30/2020		Collar Type			Tail Pipe Depth ft		
						Collar Depth ft			Sqz. Total Vol. bbl		
Date	Time 24-hr clock	Treating Pressure PSI	Flow Rate B/M	Density PSI	Volume BBL	Message					
12/30/2020	11:36:33	0	0.0	0	0.0	Started Acquisition					
12/30/2020	11:41:33	0	0.0	0	0.0						
12/30/2020	11:41:40	0	0.0	0	0.0	Start cmt					
12/30/2020	11:46:33	78	2.0	0	0.0						
12/30/2020	11:51:33	87	2.0	0	0.0						
12/30/2020	11:56:33	151	2.0	0	0.0						
12/30/2020	12:01:33	0	0.0	0	0.0						
12/30/2020	12:05:37	14	0.9	0	0.0	Reset Total, Vol = 41.53 bbl end cmt					

Post Job Summary

Average Pump Rates, bbl/min					Volume of Fluid Injected, bbl			
Slurry 1.9	N2	Mud	Maximum Rate 3.4	Total Slurry 41.6	Mud 0.0	Spacer 0.0	N2	
Treating Pressure Summary, psi					Breakdown Fluid			
Maximum 375	Final 9	Average 95	Bump Plug to	Breakdown	Type	Volume bbl	Density lb/gal	
Avg. N2 Percent %		Designed Slurry Volume 0.0 bbl		Displacement 0.0 bbl	Mix Water Temp degF	Cement Circulated to Surface? <input checked="" type="checkbox"/>	Volume bbl	
						Washed Thru Perfs <input type="checkbox"/>	To ft	
Customer or Authorized Representative Carl R.				Schlumberger Supervisor Richard White		Circulation Lost <input type="checkbox"/>	Job Completed <input checked="" type="checkbox"/>	
						-	-	

Well Kats 42-34
Field DJ
Engineer Richard White
Country United States

Client Crestone
SIR No. ELK3-00012
Job Type P A Surface Plug
Job Date 12-30-2020

