

AFE #	DC-003134	PO:	
LEASE NAME / NUMBER			
STATE-FERGUSON 1			
API WELL NUMBER		COUNTY, STATE	
500107238		ADAMS (CO), COLORADO	
WELL PERMIT NUMBER			
JOB TYPE		CM-SQUEEZE JOB	
Vehicle Type		Single	

TICKET	BCO-2308-0011	
DATE	8/2/2023	
CREW INFORMATION		
SUPERVISOR	Jason Ahlin	
PUMP UNIT	97-0061	
NUMBERS		
ARRIVAL (D&T)	8/2/23 3:30 PM	
DEPARTURE (D&T)	8/2/23 6:45 PM	

441-JLPjob 5

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8-3-23

PD-900073-0022
8030.013



Job Summary

Ticket Number

TN#

BCO-2308-0011

Ticket Date

8/2/2023

COUNTY	COMPANY	API Number
ADAMS (CO)	PDC ENERGY	500107238
WELL NAME	RIG	JOB TYPE
STATE-FERGUSON 1		CM-SQUEEZE JOB
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
39.91705 -104.84312	Jason Ahlin	Bud Holman

EMPLOYEES

LUIS MORALES	ISRAEL CALDERON
JASON AHLIN	MIKE
OSCAR QUEJALES	MARTIN VASQUEZ

WELL PROFILE

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

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)
Surface	8 5/8	24	J55	0	67		
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):	52	To Depth (ft):	67
Type: SQUEEZE	Volume (sacks):	100	Volume (bbls):	21.5
Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.	
	15.8	1.21	5.13	

Stage 2:	From Depth (ft):	To Depth (ft):	
Type:	Volume (sacks):	Volume (bbls):	
Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.

Stage 3:	From Depth (ft):	To Depth (ft):	
Type:	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 CaCl2	Stage 1	Stage 2
	2 bbls of Fresh Water	3.5	
	10 bbls of SMS	2.5	
Total Preflush/Spacer Volume (bbl):	5	Plug Bump (Y/N):	N/A
Total Slurry Volume (bbl):	21.5	Lost Returns (Y/N):	N/A (if Y, when)
Total Fluid Pumped	48.5	Bump Pressure (psi):	
Returns to Surface:	N/A		

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

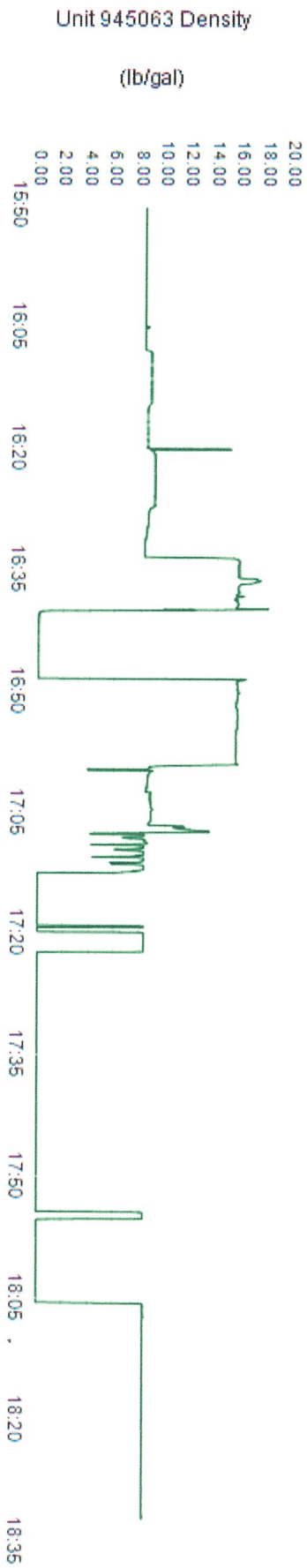
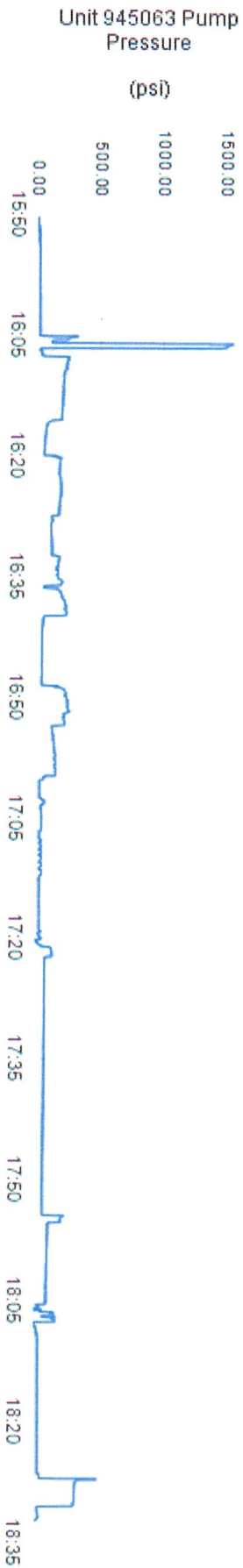
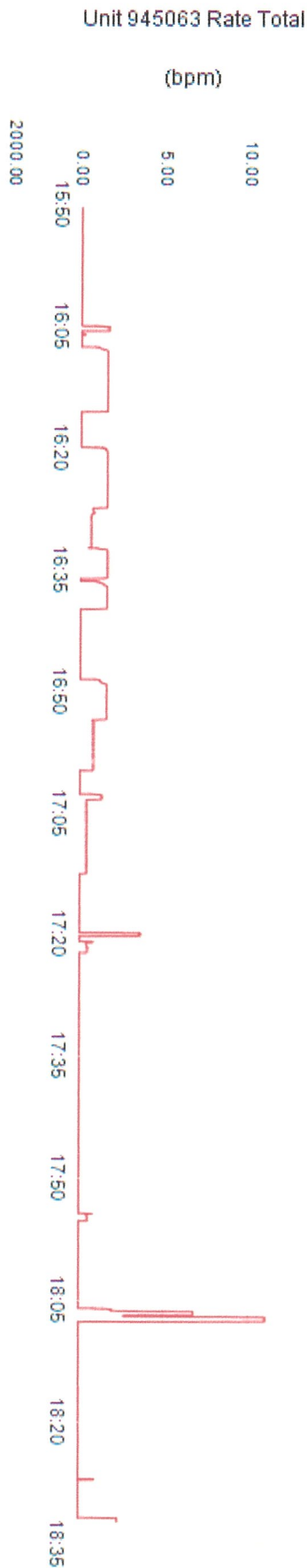
FILLED LINES. PRESSURE TESTED TO 1500 PSI. PUMPED 10 BBLS OF CALCIUM CHLORIDE. PUMPED 2 BBLS OF FRESH WATER. PUMPED 10 BBLS OF SMS. PUMPED 5 BBLS OF FRESH WATER. BATCHED UP CEMENT TO 15.8. VERIFIED WITH MUD SCALE. YIELD: 1.21 WATER REQ: 5.13. PUMPED 8.5 BBLS THEN HESITATED FOR 10 MINS. PUMPED THE REST OF CEMENT. DISPLACED .5 BBLS. WASHED PUMPED WHILE HESITAING 20 MINS. PUMPED .5

Customer Representative Signature:

Thank You For Using
NexTier Completion Solutions



PDC	Client Rep	BUD	Supervisor	LUIS
	Client Ticket No.	23080011	Well Name	STATE-FERGUSON 1
	Location	ADAMS COUNTY	Job Type	Bradenhead Squeeze
	Comments		Unit No.	945063
			Service District	
			Job Date	08/02/2023



Cement Job Log



NexTier Completion Solutions
3990 Rogerdale Rd., Houston, TX 77042
(713)325-6000

Customer:	PDC ENERGY	Date:	2-Aug-23	Serv. Supervisor:	Jason Ahlin		
Cust. Rep.:	Bud Holman	Ticket #:	BCO-2308-0011	Serv. Center	Brighton - 3021		
Well Name:	STATE-FERGUSON 1	API Well #:	500107238	County:	ADAMS (CO)	State:	COLORADO
Well Type:	Oil	Rig:		Type of Job:	CM-SQUEEZE JOB		

Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
		Sacks of Cement	Fluid Density (lb/gal)	Excess	Yield (cuft/sk)	Mix Water (gal/sk)	Fluid Volume (bbls)	Fluid Volume (cuft)	Mix Water (bbls)
10 bbls H2O + 350# Calcium - Calcium Spacer	+35.0 PPB NAC-110				(0.27)	(4.20)	10.00	-	
2 bbl Water - Spacer						-	2.00	-	
10 bbls H2O + 400# SMS - SMS Spacer	+40.0 PPB NAC-102				(0.40)	(4.80)	10.00	-	
2 bbls Water - Spacer						-	2.00	-	
Slurry - Surface AGM Blend	100 % NCM-914 +0.4 % NFL-551+4.0 % NAC-101+2.0 % NAC-110	100	15.8		1.21	5.13	21.52	120.84	12
						-		-	
						-		-	
						-		-	
						-		-	

Displacement Chemicals:

OPEN HOLE DATA						TUBULAR DATA							
14.75 in. O.H. 74 to 74 ft						SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)	
Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.	8.625		67	j55				
PREVIOUS CASING DATA						PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
8.625 in. 24# (0 to 74 ft)						TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
						67							
WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS (psi)	CSG LIFT (psi)	MAX PRESS (psi)	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY									
H2O	8.3 ppg	3 bbl	H2O	8.3 ppg					500	7	71.0 °F	500	
Bumped Plug	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	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)		
							228.00		-				

Comments/Additional Details:

Jason Ahlin
Service Supervisor

2-Aug-23
Date

Cement Job Log

NEXTier									
Customer:	PDC ENERGY				Date:	2-Aug-23		Serv. Supervisor:	Jason Ahlin
Cust. Rep.:	Bud Holman				Ticket #:	BCO-2308-0011		Serv. Center:	Brighton - 3021
Well Name:	STATE-FERGUSON 1	RTS Date:	02-Aug-2023		API Well #:	500107238		County:	ADAMS (CO)
Well Type:	Oil	RTS Time:	3:30 PM		Rig:			Type of Job:	CM-SQUEEZE JOB
	Date	Time		Date	Time		Date	Time	
Left Yard:	02-Aug-23	2:30 PM	Left Loc.:	02-Aug-23	6:45 PM	Start Pump:	02-Aug-23	3:38 PM	
Arrived Loc.:	02-Aug-23	3:30 PM	Returned Yd.:	02-Aug-23	7:00 PM	End Pump:	02-Aug-23	6:25 PM	
TIME	Rate	Csg. Press.	Tbg. Press.	Ann. Press.	Stg. Vol.	Cum. Vol.	Stage Num.	Stage Details	
	(bbl/min)	(psi)	(psi)	(psi)	(bbl)	(bbl)	Stage #		
2:30 PM								Left Yard or Current Location	
3:30 PM								ARRIVE ON LOCATION	
3:30 PM							1	SPOT EQUIPMENT/ RIG UP	
3:55 PM							1	SAFETY MEETING WITH CUSTOMER	
3:58 PM	1	255			1.0 bbl	1.0 bbl	1	FILL LINES	
3:59 PM							1	PRESURE TEST TO 1500 PSI	
4:01 PM	3.5	293			10.0 bbl	11.0 bbl	1	PUMP 10 BBLS OF H2O WITH CALCIUM CHLORIDE	
4:07 PM	1.5	197			2.0 bbl	13.0 bbl	1	2 BBLS OF FRESH WATER	
4:13 PM	1.5	183			10.0 bbl	23.0 bbl	1	10 BBLS OF H2O WITH SMS	
4:20 PM	1.5	178			5.0 bbl	28.0 bbl	1	5 BBLS OF FRSH WATER	
4:28 PM	1.5	228			8.5 bbl	36.5 bbl	1	CEMENT SQUEEZE	
4:33 PM		70					1	HESITATE AFTER 8.5 BBLS GONE	
4:41 PM	3.5	228			13.5 bbl	50.0 bbl	1	PUMP THE REST OF CEMENT	
4:51 PM	1.5	228			0.5 bbl	50.5 bbl	1	DISPLACE .5 BBLS	
4:55 PM		65					1	WASH UP PUMP HESITATE FOR 20 MINS	
5:16 PM	1.5	230			0.5 bbl	51.0 bbl	1	PUMP .5 BBLS MORE	
5:20 PM							1	HESITATE 30 MINS	
5:43 PM	.5	233			0.5 bbl	51.5 bbl	1	PUMP OTHER .5 BBLS	
5:44 PM							1	HESITATE 30 MINS	
6:20 PM	.5	330			0.5 bbl	52.0 bbl	1	PUMPED .1 AND IT HELD PRESSURE TO 320 PSI	
6:25 PM							1	RIG DOWN	
6:45 PM							1	END OF JOB	
← This entry is coming from Job Log (2)									
6:45 PM								LEFT LOCATION	
7:00 PM								ARRIVED BACK AT YARD OR NEXT LOCATION	
Comments:									