

<b>NEXTier</b>		<b>Job Summary</b>		Ticket Number		Ticket Date	
COUNTY		COMPANY		TN#		BCO-2111-0039	
WELD (CO)		OXY USA INC		API Number		512307343	
WELL NAME		RIG		JOB TYPE		CM-P2A-PERM.	
PURDY 1		Ensign 122					
SURFACE WELL LOCATION		CJES Field Supervisor		CUSTOMER REP			
40.324894 -104.976017		Jeff Kopp		Jeremy Duty			
EMPLOYEES							
Tony Y							
Doug G							
Chance B							
WELL PROFILE							
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)		
	7.88	454	3500				
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	454		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Drill Pipe	4 1/2	16.6		0	3500		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)

### CEMENT DATA

<b>Stage 1:</b>		From Depth (ft):	2538	To Depth (ft):	3500		
Type: <b>Sussex Plug</b>		Volume (sacks):	365	Volume (bbls):	76		
		Cement & Additives:	AGM		Density (ppg)	Yield (ft³/sk)	Water Req.
					15.8	1.17	5.04

<b>Stage 2:</b>		From Depth (ft):	1334	To Depth (ft):	1800		
Type: <b>Upper Pierre Plug</b>		Volume (sacks):	355	Volume (bbls):	75.8		
		Cement & Additives:	AGM		Density (ppg)	Yield (ft³/sk)	Water Req.
					15.8	1.20	5.13

<b>Stage 3:</b>		From Depth (ft):	490	To Depth (ft):	575		
Type: <b>Shoe Plug</b>		Volume (sacks):	110	Volume (bbls):	23.5		
		Cement & Additives:	AGM		Density (ppg)	Yield (ft³/sk)	Water Req.
					15.8	1.20	5.13

<b>Stage 4:</b>		From Depth (ft):	342	To Depth (ft):	490		
Type: <b>Shoe Plug</b>		Volume (sacks):	75	Volume (bbls):	16		
		Cement & Additives:	AGM		Density (ppg)	Yield (ft³/sk)	Water Req.
					15.8	1.20	5.13

### SUMMARY

Preflushes:	30 bbls of	SAPP	Calculated Displacement (bbl):	Stage 1	Stage 2
	15 bbls of	Fresh Water	Actual Displacement (bbl):	38.7	12.4
	5 bbls of	Fresh Water		36.2	14
Total Preflush/Spacer Volume (bbl):	50	Plug Bump (Y/N):	N/A	Bump Pressure (psi):	N/A
Total Slurry Volume (bbl):	191.3	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	241.3				
Returns to Surface:	Cement	0 bbls			

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

Filled lines and pressure tested to 3200psi. Plug 1-pumped 10bbls sapp then 5bbls fresh, mix and pump 365sxs @15.8ppg 1.17y 5.04wr. Displace to balance well. Plug 2-pumped 10bbls sapp then 5bbls fresh, mix and pump 355sxs @15.8ppg 1.20y 5.13wr. Displace to balance plug. Plug 3- pumped 10bbls of sapp then 5bbls of fresh, mix and pump 110sxs @15.8ppg 1.20y 5.13wr. Displace to balance plug then pumped surfactant (40gals) (75bbls). Plug 4- pumped fresh then pumped 75sxs @15.8ppg to cover shoe. Displaced to balance well. Continue onto next page for Surface Plug and Top Off.

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

**Thank You For Using**  
**NexTier Completion Solutions**



# Job Summary

Ticket Number  
TN# **BCO-2111-0039** Ticket Date  
**11/23/2021**

COUNTY	COMPANY	API Number
<b>WELD (CO)</b>	<b>OXY USA INC</b>	<b>51230734</b>
WELL NAME	RIG	JOB TYPE
<b>PURDY 1</b>	<b>Ensign 122</b>	<b>CM-P2A-PERM.</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.324894 -104.976017</b>	<b>Jeff Kopp</b>	<b>Jeremy Duty</b>

EMPLOYEES		
<i>Tony Y</i>		
<i>Chance</i>		
<i>Doug G</i>		

WELL PROFILE			
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)
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	454		
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Drill Pipe	4 1/2	16.6		0	260		
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):	260
Type: <b>Surface Plug</b>	Volume (sacks):	87	Volume (bbls):	18.5
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
AGM		15.8	1.20	5.13

Stage 2:	From Depth (ft):	0	To Depth (ft):	26
Type: <b>Top Off</b>	Volume (sacks):	10	Volume (bbls):	2
Cement & Additives:		Density (ppg)	Yield (ft³/sk)	Water Req.
AGM		15.8	1.20	5.13

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:	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):			Lost Returns (Y/N):	N	(if Y, when)
Total Fluid Pumped					
Returns to Surface:	Cement	0 bbls			

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

Est. circulation then mixed and pumped sxs @15.8ppg 1.20y 5.13wr. Received bbls of cement back to surface. Shut down and waited for rig to pull drill pipe then topped well off with sxs.

Customer Representative Signature:

Thank You For Using  
NexTier Completion Solutions

## Cement Job Log



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

Customer:	OXY USA INC	Date:	23-Nov-21	Serv. Supervisor:	Jeff Kopp		
Cust. Rep.:	Jeremy Duty	Ticket #:	BCO-2111-0039	Serv. Center	Brighton - 3021		
Well Name:	PURDY 1	API Well #:	512307343	County:	WELD (CO)	State:	COLORADO
Well Type:	Oil	Rig:	Ensign 122	Type of Job:	CM-P2A-PERM.		

## Materials Furnished by NexTier

Plugs	Casing Hardware	Physical Slurry Properties							
N/A	N/A	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 SAPP - MudFlush Ahead of first 3 Plugs	+10.0 PPB NSP-890			0%	(0.01)	(1.20)	30.00	-	
5 bbl Water				0%	-	-	5.00	-	
AGM Plug 3500'-2500' - Sussex AGM Blend 2% Gypsum	100 % NCM-914 +0.4 % NFL-522+2.0 % NAC-101+0.25 % NFL-549+0.3 % NDS-417	365	15.8	25%	1.17	5.04	76.32	428.54	44
75 bbls Heated Water - Surfactant	+0.5 GPB NTC-880			0%	-	-	75.00	-	
AGM Plug 1800'-800' - Upper Pierre Plug 1% Calcium, 4% Gypsum	100 % NCM-914 +0.4 % NFL-522+4.0 % NAC-101+1.0 % NAC-110	355	15.8	25%	1.20	5.13	75.88	426.06	43
AGM Plug 575'-340' - Stub Plug 1% Calcium, 4% Gypsum	100 % NCM-914 +0.4 % NFL-522+4.0 % NAC-101+1.0 % NAC-110	110	15.8	100%	1.20	5.13	23.51	132.02	13
AGM Plug 490'-354' - Stub Plug 1% Calcium, 4% Gypsum	100 % NCM-914 +0.4 % NFL-522+4.0 % NAC-101+1.0 % NAC-110	75	15.8	100%	1.20	5.13	16.03	90.01	9
AGM Plug 260'-0' - Surface Plug 1% Calcium, 4% Gypsum	100 % NCM-914 +0.4 % NFL-522+4.0% NAC-101+1.0 % NAC-110	95	15.8	0%	1.20	5.13	20.30	114.00	12
				0%	-	-		-	
Displacement Chemicals:	N/A								

OPEN HOLE DATA			TUBULAR DATA									
7.88 in. O.H. 454 to 3,500 ft						SIZE WEIGHT	THRD	DEPTH	GRADE	ID	BURST	COLLAPSE
								(ft)		(in)	(psi)	(psi)
Ambient Tmp.	Bulk Tmp.	Slurry 1 Tmp.	Slurry 2 Tmp.	Slurry 3 Tmp.	Slurry 4 Tmp.	N/A		N/A	N/A	N/A	N/A	N/A
27.0 °F	27.0 °F	78.0 °F	80.0 °F	79.0 °F	76.0 °F	N/A		N/A	N/A	N/A	N/A	N/A
PREVIOUS CASING DATA			PERFORATED INTERVAL DATA						CASING EQUIPMENT DEPTHS			
9 5/8 36# (0 to 454ft)			TOP			BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP
			N/A			N/A	N/A	N/A	N/A	N/A	N/A	N/A
			N/A			N/A	N/A	N/A				
WELL FLUID		DISPLACEMENT FLUID				DIFF PRESS	CSG LIFT	MAX PRESS	Mix H2O Chlorides (ppm)	Mix H2O pH	Mix H2O Temp	WATER ON LOC (bbl)
TYPE	DENSITY	VOLUME	TYPE	DENSITY	(psi)	(psi)	(psi)					
WATER BASED	8.3 ppg	5 bbl	H2O	8.3 ppg		N/A	N/A	2500	54	7	70.0 °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)	
				1.00		Yes	2,500.00					

Comments/Additional Details:

Plug 1- displacement= 36.2. Plug 2- displacement= 14bbls. Plug 3- displacement= 4.8bbls. Plug 4- displacement= 5bbls

						<div>Jeff Kopp</div> <div>Service Supervisor</div>						<div>23-Nov-21</div> <div>Date</div>
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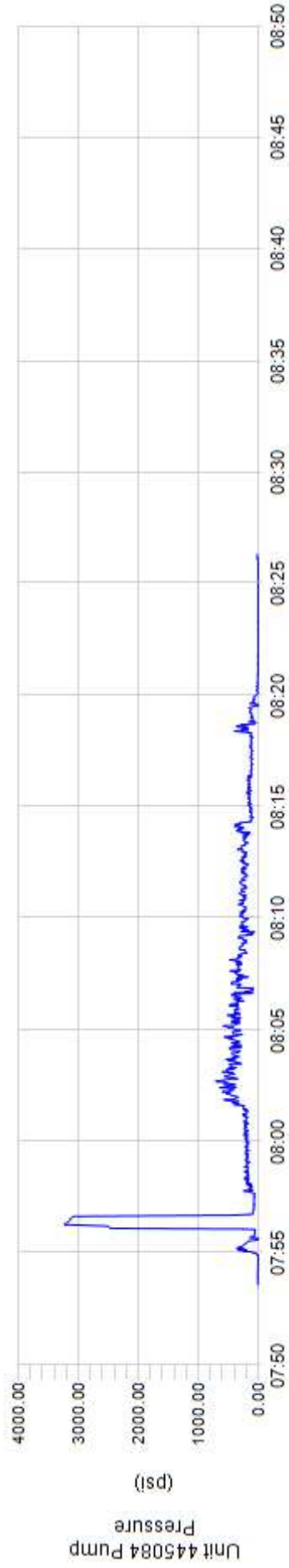
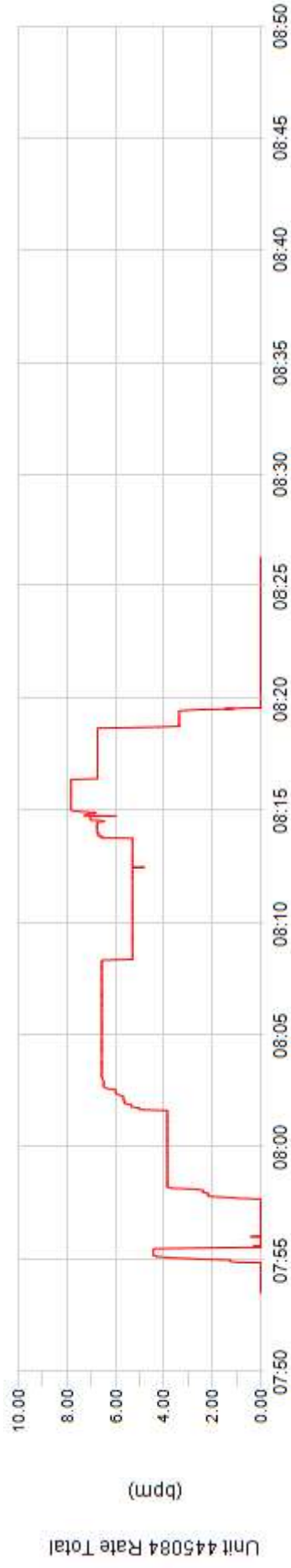




Client OXY  
Ticket No. 21110039  
Location  
Comments PLUG 1

Client Rep Jeremy  
Well Name PURDY 1  
Job Type Abandonment Plugs

Supervisor Jeff Kopp  
Unit No. 445084  
Service District Brighton Co  
Job Date 11/23/2021

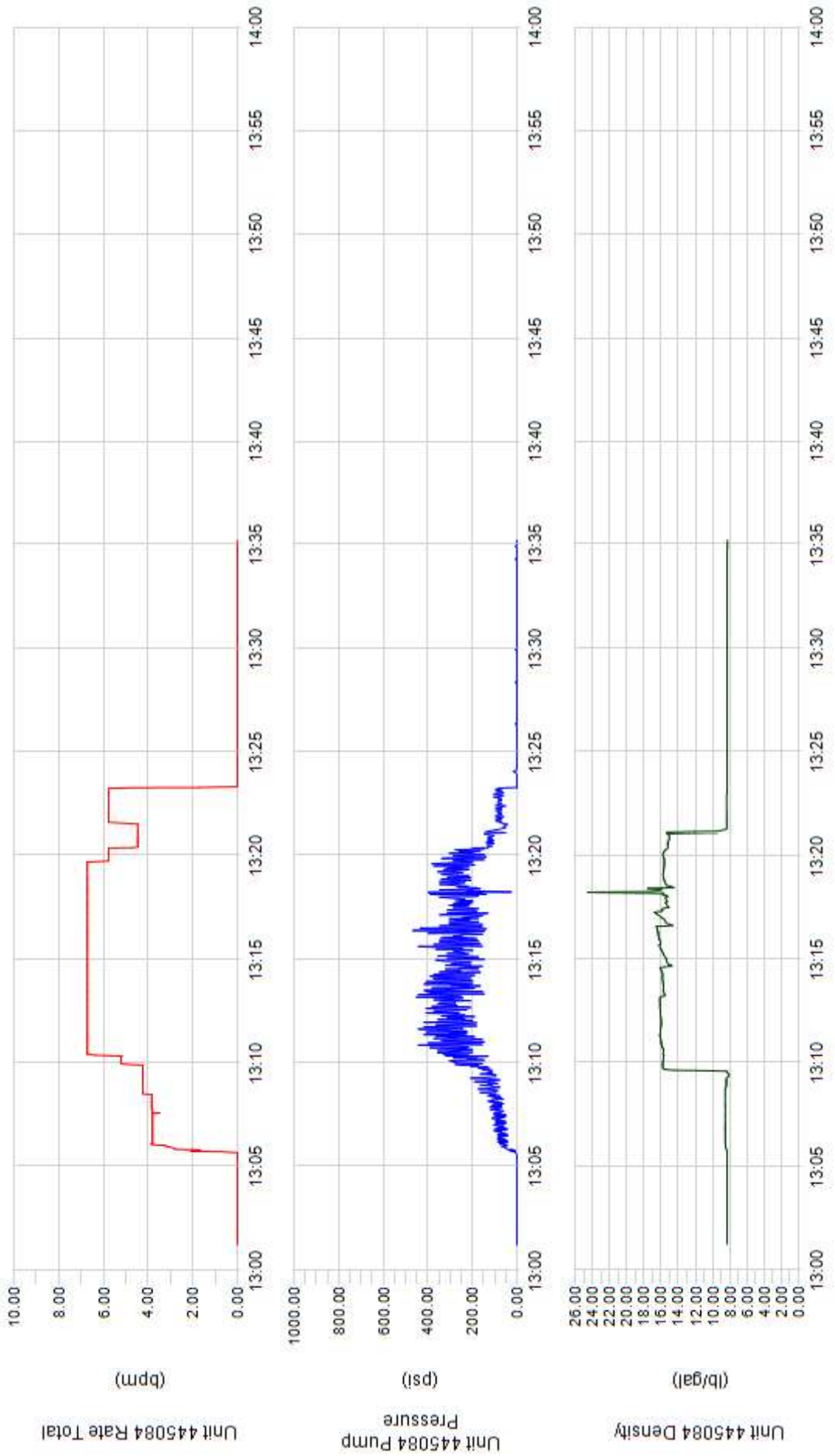




Client OXY  
Ticket No. 21110039  
Location  
Comments PLUG 2

Client Rep Jeremy  
Well Name PURDY  
Job Type Abandonment Plugs

Supervisor Jeff Kopp  
Unit No. 445084  
Service District Brighton Co  
Job Date 11/23/2021

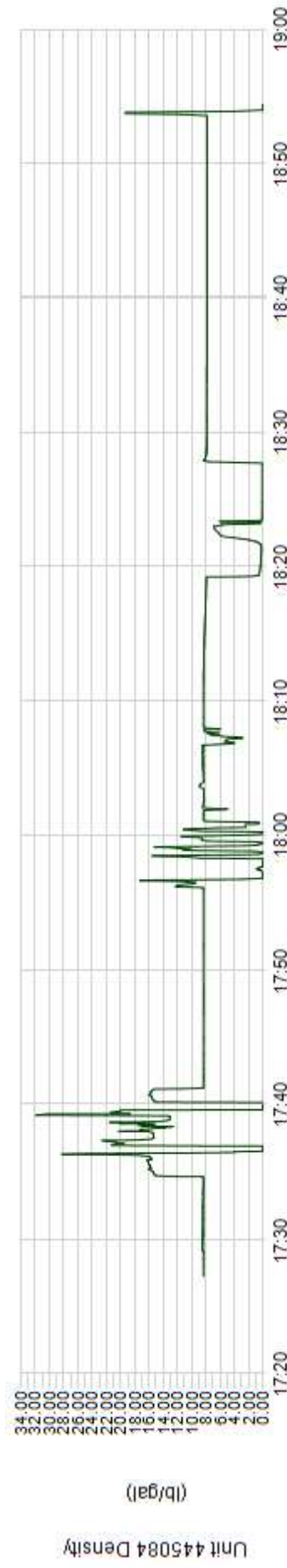
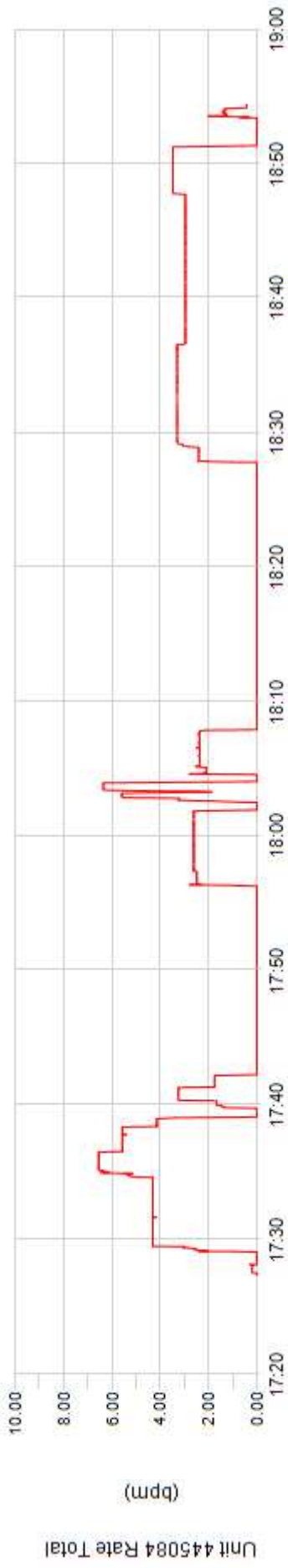




Client OXY  
Ticket No. 21110039  
Location  
Comments PLUG 3

Client Rep Jeremy  
Well Name PURDY 1  
Job Type Abandonment Plugs

Supervisor Jeff Kopp  
Unit No. 445084  
Service District Brighton, Co.  
Job Date 11/23/2021



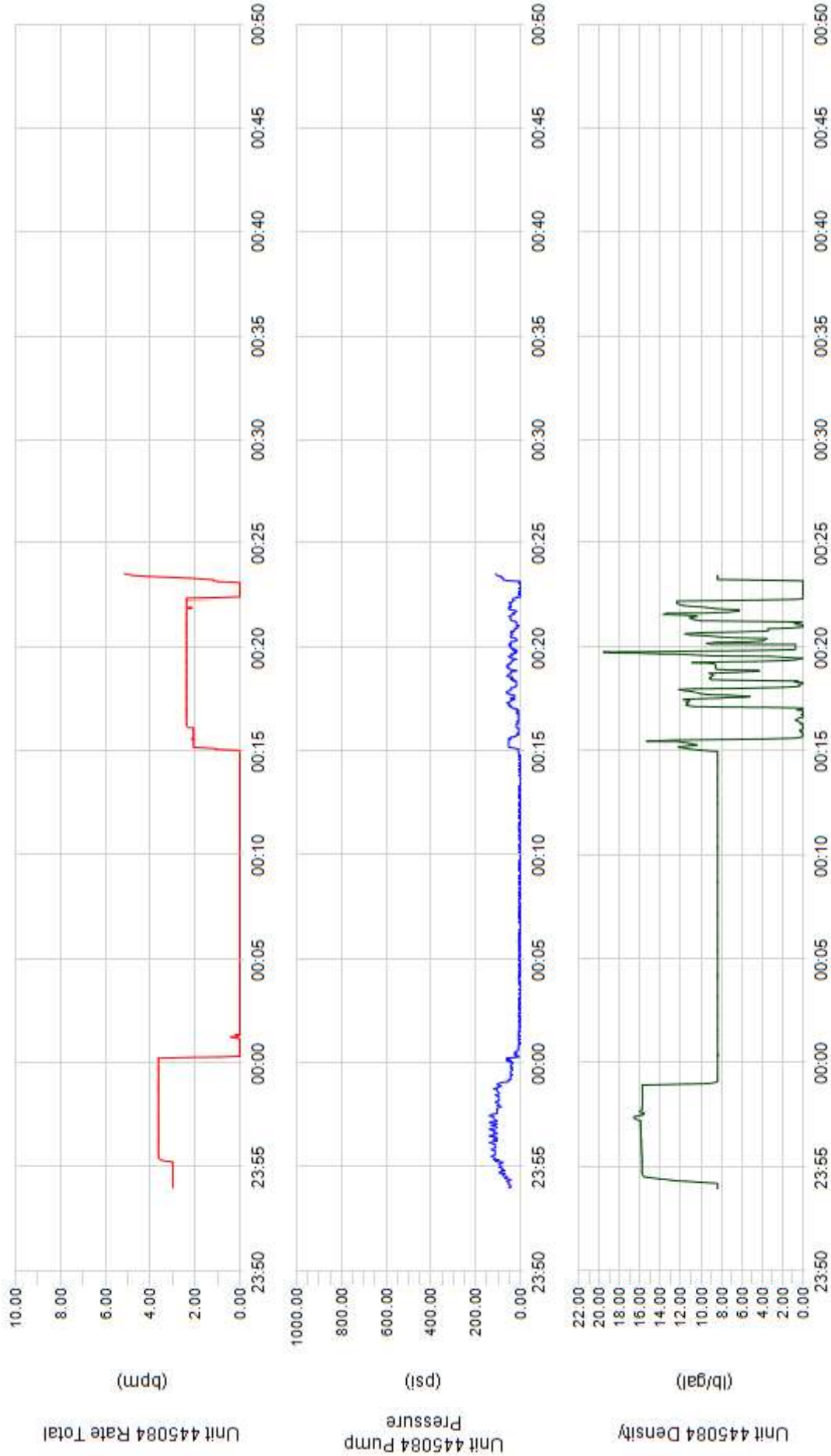




Client OXY  
Ticket No. 21110039  
Location  
Comments PLUG 4

Client Rep Nick Lang  
Well Name PURDY 1  
Job Type Abandonment Plugs

Supervisor Jeff Kopp  
Unit No. 445084  
Service District Brighton Co  
Job Date 11/23/2021







Client OXY  
Ticket No. 21110039  
Location  
Comments PLUG 5

Client Rep Nick Lang  
Well Name PURDY 1  
Job Type Abandonment Plugs

Supervisor Jeff Kopp  
Unit No. 445084  
Service District Brighton Co  
Job Date 11/24/2021

