



Job Summary

Ticket Number	Ticket Date
TN# BCO-2009-0031	9/18/2020

COUNTY	COMPANY	API Number
WELD (CO)	ENSIGN	0512312903
WELL NAME	RIG	JOB TYPE
PAULINE 5	Ensign 312	CM-P2A-PERM.
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
40.415025 -104.577101	DANIEL MUNIZ	Matt McGraw

EMPLOYEES		

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)
	10	307	3000		
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	J-55	0	307		

CEMENT DATA

Stage 1:

Type: **Shoe Plugs**

From Depth (ft): 3000 To Depth (ft): 2670

Volume (sacks): 100 Volume (bbls): 20.4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% G NEAT	15.8	1.15	5.00

Stage 2:

Type: **Surface Plug**

From Depth (ft): 1445 To Depth (ft): 1245

Volume (sacks): 90 Volume (bbls): 18.4

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% G NEAT	15.8	1.15	5.00

Stage 3:

Type: **Top Off**

From Depth (ft): 1260 To Depth (ft): SURFACE

Volume (sacks): 103 Volume (bbls): 21

Cement & Additives:	Density (ppg)	Yield (ft³/sk)	Water Req.
100% G NEAT	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: _____ bbls of _____	Calculated Displacement (bbl): _____	Stage 1	Stage 2
_____ bbls of _____	Actual Displacement (bbl): _____		
_____ bbls of _____			
Total Preflush/Spacer Volume (bbl): _____	Plug Bump (Y/N): _____ Bump Pressure (psi): _____		
Total Slurry Volume (bbl): _____	Lost Returns (Y/N): _____ (if Y, when) _____		
Total Fluid Pumped _____			
Returns to Surface: _____ bbls			

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

Job notes go here!

Customer Representative Signature: _____

Thank You For Using
NexTier Completion Solutions

Cement Job Log



Customer:	ENSIGN	Date:	18-Sep-20	Serv. Supervisor:	DANIEL MUNIZ
Cust. Rep.:	Matt McGraw	Ticket #:	BCO-2009-0031	Serv. Center:	Brighton - 3021
Well Name:	PAULINE 5	RTS Date:	18-Sep-2020	API Well #:	0012312903
Well Type:	Oil	RTS Time:	11:00 AM	Rig:	Ensign 312
				Type of Job:	CM-P2A-PERM.

Left Yard:	18-Sep-20	Time	10:00 AM	Left Loc.:	18-Sep-20	Time	4:45 PM	Start Pump:	18-Sep-20	Time	12:27 PM
Arrived Loc.:	18-Sep-20	Time	11:00 AM	Returned Yd.:	18-Sep-20	Time		End Pump:	18-Sep-20	Time	4:15 PM

TIME	Stage Details							Stage #	Left Yard or Current Location
	Rate (bbl/min)	Csg. Press. (psi)	Tbg. Press. (psi)	Ann. Press. (psi)	Stg. Vol. (bbl)	Cum. Vol. (bbl)	Stage Num.		
10:00 AM								Left Yard or Current Location	
11:00 AM								ARRIVE ON LOCATION	
11:00 AM							1	SHOW UP ON LOCATION	
11:55 AM							1	SPOT IN EQUIPMENT, WE HAD ISSUES ENTERING INTO LOCATION	
12:15 PM							1	RIG UP	
12:23 PM							1	SAFETY MEETING	
12:27 PM							1	PRESSURE TEST 2,000 PSI	
12:30 PM	1.5	140					1	BRAKE CIRCULATION WITH 2 BBL H2O	
12:34 PM	3	500					1	SWITCH OVER TO CEMENT CLASS G @ 15.8 PPG	
12:41 PM	3	350					1	20.5 BBL TOTAL PUMPED = 100 SKS	
12:42 PM	3	10					1	DISPLACEMENT 8.8 BBL H2O	
12:47 PM							1	SHUT DOWN,	
12:50 PM							1	TURN OVER TO RIG.	
2:45 PM							1	2ND SQUEEZE PLUG	
2:47 PM	3	160					1	BRAKE CIRCULATION WITH 2 BBL H2O	
2:52 PM	3	250					1	STARTED PUMPING CEMENT CLASS G 15.8 PPG	
2:59 PM							1	SHUT DOWN AT 23.4 BBL OF CMT	
3:00 PM							1	STING OUT FROM RETAINER	
3:01 PM	3	80					1	START PUMPOING FOR TOP OUT TO SURFACE	
3:12 PM							1	SHUT DOWN AT 12.5 BBL (CMT BACK TO SURFACE)	
3:15 PM							1	TURN OVER TO RIG TO PULL TUBING	
3:50 PM	1	20					1	TOP OUT	
4:00 PM							1	WAITR FOR 10 MIN. FOR CMT DROP	
4:01 PM	1	20					1	TOP OUT	
4:15 PM							1	SHUT DOWN 21 BBL TOTAL PUMPED	
4:20 PM							1	WASH PUMPS AND LINES	
5:00 PM							1	RIG DOWN LEAVE LOCATION	
4:45 PM								LEFT LOCATION	
12:00 AM								ARRIVED BACK AT YARD OR NEXT LOCATION	

Comments/Special Customer Instructions

Cement Job Log



Customer: ENSIGN	Date: 18-Sep-20	Serv. Supervisor: DANIEL MUNIZ
Cust. Rep.: Matt McGraw	Ticket #: BCO-2009-0031	Serv. Center: Brighton - 3021
Well Name: PAULINE 5	API Well #: 0512312903	County: WELD (CO) State: COLORADO
Well Type: Oil	Rig: Ensign 312	Type of Job: CM-P2A-PERM.

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)	Mix Water (bbls)
Spacer - 5 bbl Fresh Water					-	-	-	
Squeeze 1 - Perfs @ 3,000' and 2,800'. L	100 % NCM-914	85	15.8		1.15	5.00	17.38	10
Squeeze 2 - Perfs @ 1,445' and 1,245'. L	100 % NCM-914	85	15.8		1.15	5.00	17.38	10
Surface Plug 1/2 - Recommend Splitting i	100 % NCM-914	50	15.8		1.15	5.00	10.22	6
Surface Plug 2/2 - Recommend Splitting i	100 % NCM-914	50	15.8		1.15	5.00	10.22	6
Extra Cement	100 % NCM-914	50	15.8		1.15	5.00	10.22	6
					-	-		
					-	-		
					-	-		

Displacement Chemicals:

OPEN HOLE DATA				TUBULAR DATA								
10 in. O.H. 0 to 3,000 ft				4.5 in. 12.6#, (0 to 3,000 ft)		SIZE WEIGHT	THRD	DEPTH (ft)	GRADE	ID (in)	BURST (psi)	COLLAPSE (psi)
Mix Cemt. Temperature °F	Lead Temp.	Middle Temp.	Tail Temp.									

PREVIOUS CASING DATA			PERFORATED INTERVAL DATA				CASING EQUIPMENT DEPTHS			
			TOP	BTM	SPF	SIZE	SHOE	FLOAT	STAGE	ACP

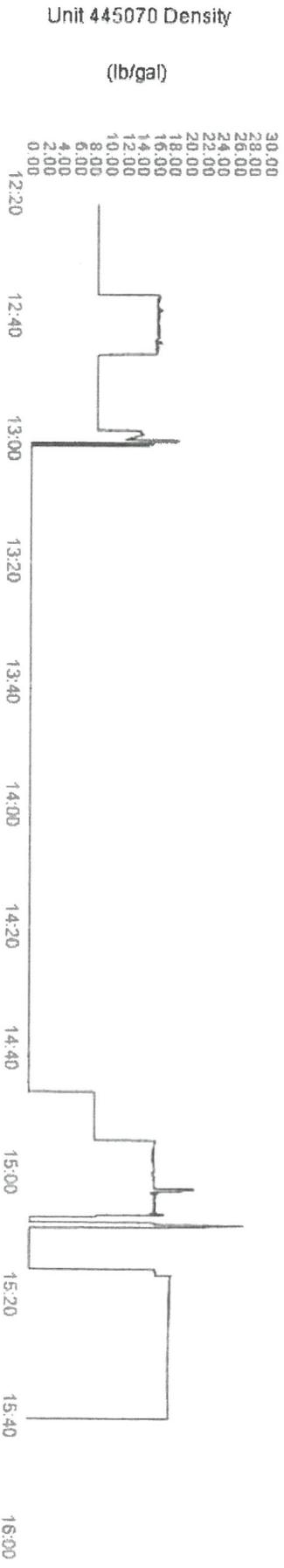
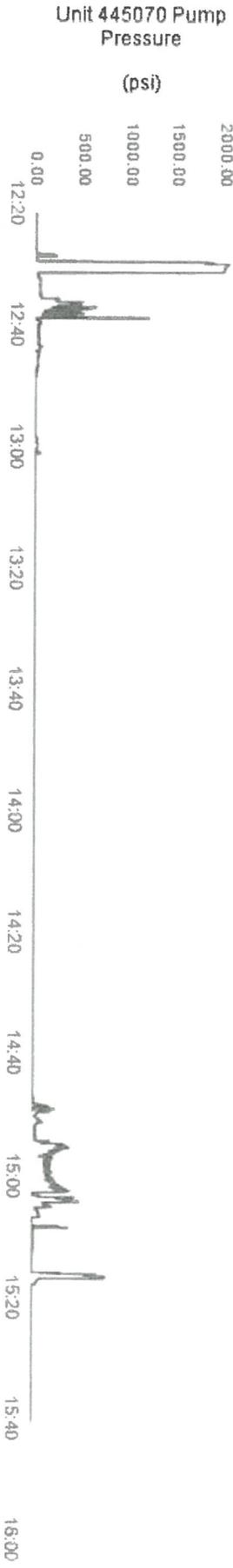
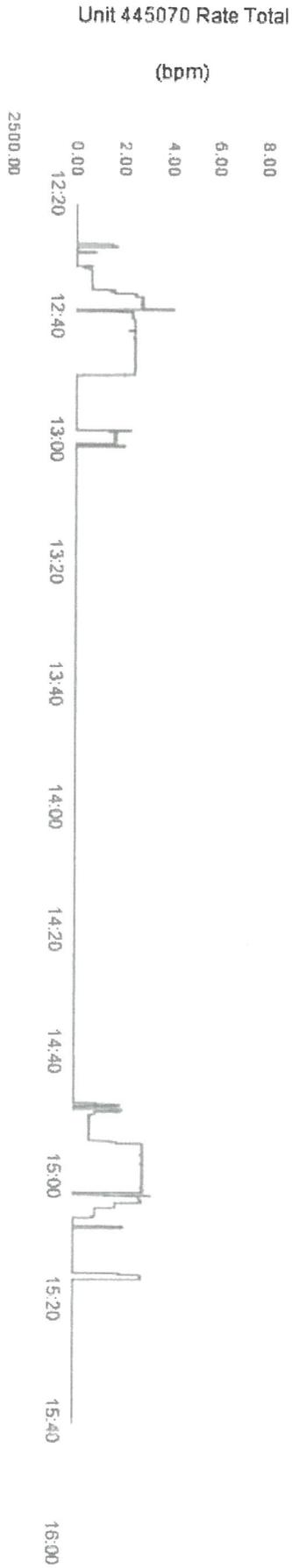
WELL FLUID			DISPLACEMENT FLUID			DIFF PRESS (psi)	C5G LIFT (psi)	MAX PRESS (psi)	Total Number of Runs	WATER ON LOC (bbl)	
TYPE	DENSITY	VOLUME	TYPE	DENSITY							
Bumped Plug	Final Differential (psi)	Floats Held (Y/N)	PSI Left on Casing	Cement to Surface (bbl)	Top of Cement (ft)	Full Circ. During Job (Y/N)	Max Pump Pressure (psi)	Casing Rotation	Additional Hrs Charged (hrs)	Casing Reciprocation	Rathole Length (ft)

Comments/Special Customer Instructions:

<i>DANIEL MUNIZ</i>		18-Sep-20
Service Supervisor		Date

NEXTIER

Client	ENSIGN	Client Rep	MATT MCGRAW	Supervisor	DANIEL MUNIZ
Ticket No.	20090031	Well Name	PAULINE 5	Unit No.	445070
Location	WELD	Job Type	Cement Top Off	Service District	BRIGHTON CO.
Comments				Job Date	09/18/2020



RMWS - Service Ticket & Invoice:

Rocky Mountain Wireline Service
 2144 Hwy 6 S-50
 Grand Junction, CO 81505
 970-245-9828



Ticket Number

113063

Date

9/18/2020

Well

Pauline 5

Field

Wattenberg

County / State

Weld / Co

Services provided for:

ENSIGN WELL SERVICE
 2154 Hwy 6 & 50
 Grand Junction, Colorado 81505

Services ordered by:

Logan Hancock
 (970) 712-4498
 logan.hancock@ensignenergy.com

Job Data

Field Office

Johnstown- **Line Truck #**
 CO 219

Crane #

Pickup Truck #

Explosives Permit #

92983

Crew Members

Dizmang, Stickleby, Tsung

CSG Size

4.5

WT

11.6

Zero GL/ KB	Fluid Water	Level Surface	RMWS TD 3550	Corrected	To Agree With	Dated	Consultant John Schmitt
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Job Notes

Rig 312 USR0037580-2

Travel

Report To Shop 9/18/2020 6:30 AM MDT	Arrive At Location 9/18/2020 7:30 AM MDT	On Well 9/18/2020 8:30 PM MDT	Off well 9/18/2020 2:05 PM MDT
Depart Location 2:15 PM MDT	Return To Shop 2:45 PM MDT	Travel Notes	

Activity

Logging - Bid Work

Description	From	To	Units Used	Rate	Minimum	Amount
Ensign - CBL from 2,000' or less Ran CBL from 3500' to surface	3500		1.00 Units			\$0.00

Miscellaneous - Bid Work

Description	From	To	Units Used	Rate	Minimum	Amount
Ensign - CICR @ 5,000' or less (CICR NOT INCLUDED) Set CICR @ 1260'	1260		1.00 Units			\$0.00
Ensign - CICR @ 5,000' or less (CICR NOT INCLUDED) Set CICR @ 2815'	2815		1.00 Units			\$0.00

Perforating - Bid Work

Description	Stage	From	To	Plug Date	Units Used	Rate	Amount
Ensign - 4 1/2" or 5 1/2" Upper & Lower Sqz 3spf/1' @ 5,000' or less Shot lower gun @ 1445' upper gun @ 1245'		1445	1245		1.00 Units		\$0.00
Ensign - 4 1/2" or 5 1/2" Upper & Lower Sqz 3spf/1' @ 5,000' or less Shot lower gun @ 3000' upper gun @ 2800'		3000	2800		1.00 Units		\$0.00

Logging - Bid Work \$0.00
Miscellaneous - Bid Work \$0.00
Perforating - Bid Work \$0.00

Total \$0.00

Signatures