



# Job Summary

Ticket Number	Ticket Date
TN# <b>BCO-2012-0036</b>	<b>12/21/2020</b>

COUNTY	COMPANY	API Number
<b>WELD (CO)</b>	<b>Ensign</b>	<b>512323073</b>
WELL NAME	RIG	JOB TYPE
<b>HOWARD LAKE 21-9</b>	<b>Ensign 312</b>	<b>CM-P2A-PERM.</b>
SURFACE WELL LOCATION	CJES Field Supervisor	CUSTOMER REP
<b>40.50675 104.55778</b>	<b>Anthony Staples</b>	<b>John Schmitt</b>
EMPLOYEES		
JAMES BELL-VEHERY		
TROY THYE		

<b>WELL PROFILE</b>	
Max Treating Pressure (psi):	Bottom Hole Static Temperature (°F):
Bottom Hole Circulating Temperature (°F):	Well Type:

<b>Open Hole</b>					
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)

<b>Casing/Tubing/Drill Pipe</b>							
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Surface	8.625	24		540	0	540	0
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Production	4.5	11.6		7264	1800	7264	1800
Type	Size (in)	Weight (lb/ft)	Grade	TMD From (ft)	TMD to (ft)	TVD From (Ft)	TVD to (Ft)
Tubing	2.375	4.7		1850	0	1850	0

### CEMENT DATA

<b>Stage 1:</b>	From Depth (ft):	1874	To Depth (ft):	1650
Type: <b>Shoe Plugs</b>	Volume (sacks):	100	Volume (bbbls):	20.4
Cement & Additives:		Density (ppg)		Yield (ft³/sk)
Class G		15.8		1.15
				Water Req.
				5.00

<b>Stage 2:</b>	From Depth (ft):	752	To Depth (ft):	0
Type: <b>Surface Plug</b>	Volume (sacks):	366	Volume (bbbls):	75
Cement & Additives:		Density (ppg)		Yield (ft³/sk)
Class G		15.8		1.15
				Water Req.
				5.00

<b>Stage 3:</b>	From Depth (ft):		To Depth (ft):	0
Type: <b>Top Off</b>	Volume (sacks):	30	Volume (bbbls):	6
Cement & Additives:		Density (ppg)		Yield (ft³/sk)
Class G		15.8		1.15
				Water Req.
				5.00

<b>Stage 4:</b>	From Depth (ft):		To Depth (ft):	
Type:	Volume (sacks):		Volume (bbbls):	
Cement & Additives:		Density (ppg)		Yield (ft³/sk)
				Water Req.

### SUMMARY

Preflushes:	5 bbls of Fresh Water	Calculated Displacement (bbl):	6.2	Stage 1	Stage 2
	5 bbls of Fresh Water	Actual Displacement (bbl):	6.2		
Total Preflush/Spacer Volume (bbl):	10	Plug Bump (Y/N):		Bump Pressure (psi):	
Total Slurry Volume (bbl):	101.4	Lost Returns (Y/N):	N	(if Y, when)	
Total Fluid Pumped	116.4				
Returns to Surface:	2 bbls				

Job Notes (fluids pumped / procedures / tools / etc.): Pumped 5 bbls of H2O to break circulation and followed by 100sks (20.4) bbls of 15.8# of Class G Cement and displaced with 6.2 bbls. Calculated Coverage is 1874 ft to 1650 ft. Broke circulation with 5 bbls of H2O followed by 366 sks (75) bbls of 15.8# Class G Cement, 752 ft to 0. Topped off with remaining 30sks (6) bbls.

Customer Representative Signature: \_\_\_\_\_ **Thank You For Using NexTier Completion Solutions**



# RMWS - Service Ticket:

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



**Ticket Number**  
**117035**

**Date**  
 12/19/2020  
**Well**  
 Howard Lake 21-9  
**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 223

**Crane #** **Pickup Truck #** **Explosives Permit #**  
 78 92983

### Crew Members

**CSG Size** **WT**  
 4.5" 10.5#

**Zero** **Fluid** **Level** **RMWS TD** **Corrected** **To Agree With** **Dated** **Consultant**  
 10ft KB Water 7100' 12/19/2020 John Schmitt

### Job Notes

Rig 312

## Travel

**Report To Shop** **Arrive At Location** **On Well** **Off well**  
 12/19/2020 9:00 AM MST 12/19/2020 10:20 AM MST 12/19/2020 11:11 AM MST 12/19/2020 3:15 PM MST

**Depart Location** **Return To Shop** **Travel Notes**  
 3:45 PM MST 4:15 PM MST

## Activity

### Logging - Bid Work

Description	From	To	Units Used
Ensign - CBL 2,000' +		2100	0 1.00 Units

### Miscellaneous - Bid Work

Description	From	To	Units Used
Ensign - 4 1/2" 10K CIBP @ 5,000' +			7063 1.00 Units
Ensign - Dump Bail 2 SX Cement (STANDARD)			7063 1.00 Units
Ensign - 4 1/2" 10K CIBP @ 5,000' +			6700 1.00 Units
Ensign - Dump Bail 2 SX Cement (STANDARD)			6700 1.00 Units
Ensign - 4 1/2" 10K CIBP @ 5,000' or less			2500 1.00 Units
Ensign - Dump Bail 2 SX Cement (STANDARD)			2500 1.00 Units

### Pipe Recovery - Bid Work

Description	From	To	Units Used
Ensign - 4 1/2" Jet Cutter			1800 1.00 Units

## Signatures

**Authorization Signature**

*John Schmitt*

### Authorization Notes

12/19/2020 10:52 AM MST

12/19/2020 3:37 PM MST

AK Welding and Fabrication  
670 Mark Rd  
Cheyenne, WY 82007 US  
akweldingandfabrication@gmail.com  
www.akweldingandfabrication.com

# Invoice



**BILL TO**  
Matthew Mcgraw  
Ensign Well Services Inc.  
24020 Weld County Rd 46  
La Salle, CO 80645  
United States

**SHIP TO**  
Matthew Mcgraw  
Ensign Well Services Inc.  
24020 Weld County Rd 46  
La Salle, CO 80645  
United States

INVOICE #	DATE	TOTAL DUE	DUE DATE	TERMS	ENCLOSED
371	01/01/2021		01/31/2021	Net 30	

**P.O. NUMBER**  
USR0039098

SERVICE	DESCRIPTION	QTY	RATE	AMOUNT
Plug and Abandon well	Cut and cap well back fill and haul away scrap on Dec 31 2020 for Howard Lake 21-9	1		
Thank you for your Business Checks can be mailed to 670 Mark Rd Cheyenne Wy 82007				
	<b>BALANCE DUE</b>			