



# Job Summary

Ticket Number  
TN# **BCO-2012-0036**Ticket Date  
**12/21/2020**

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
<b>JAMES BELL-VEHERY</b>
<b>TROY THYE</b>

<b>WELL PROFILE</b>	
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)
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

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

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

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

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

## SUMMARY

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

Thank You For Using

NexTier Completion Solutions

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

**NEXTier**[illegible]



## 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-  
CO

**Line Truck #**  
223

**Crane #**

**Pickup  
Truck #**  
78

**Explosives Permit  
#**  
92983

#### Crew Members

**CSG Size** 4.5"  
**WT** 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

RMWS - Service Ticket #117035

Page 1 of 2

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
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**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

**BALANCE DUE**