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112 500

WELL NO. AND FARM measure 23-12F	COUNTY weld	STATE Co	DATE 11-6-14	
CHARGE TO Noble	WELL LOCATION SEC. 23 TWP. 41N RANGE 66W		CONTRACTOR Allen	
		DELIVERED TO 42-33	LOCATION 1 Shop	CODE
		SHIPPED VIA 4028-3102 - 4033-3205	LOCATION 2 42-33	CODE
		TYPE AND PURPOSE OF JOB Annual Fll	LOCATION 3 Shop	CODE
			WELL TYPE GOS	CODE

PRICE REFERENCE	DESCRIPTION	UNITS		UNIT PRICE	AMOUNT
		QTY.	MEAS.		
	Pump charge	1	ea		
	6 Neat	350	SKE		
	millage 150 Per mile	1	ea		
	millage 400 Per mile	2	ec		
	sugar	50	lb		
	wait time	1	hr		
	MCDLER				
	28-12F				
	2DD299				
	ANIN FILL				
	130.150017				
	<i>[Signature]</i>				
	Total Weight		Ton Miles		

If this account is not paid within 30 days of invoice date a FINANCE CHARGE will be made. Computed at a single monthly rate of 1 1/2% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

## TAX REFERENCES

**"TAXES WILL BE ADDED AT CORPORATE OFFICE"**

monte Belas

Customer or His Agent

**Bison Oil Well Cementing, Inc. Representative**

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.



# Bison Oil Well Cementing

Customer: Noble  
Well Name: Mosure 23-12F  
23

Invoice # 13068  
API#  
Foreman: Monte Bede  
Date 11/6/201

County: Weld  
State: Colorado

Consultant: Allan  
Rig Name & Number: Leed 710

Distance To Location: 2.7

Units On Location: 4028-3102 4033-3205

Time Requested: 9:00am

Time Arrived On Location: 8:30am

Time Left Location:

## Plug Job

### Well Data

OD Inches	1.315
String Weight Per ft	3.02
First Plug Sacks	150
First Plug Depth	4300
Second Plug Sacks	150
Second Plug Depth	3832
Third Plug Sacks	50
Third Plug Depth	666
Fourth Plug Sacks	
Fourth Plug Depth	
ID	#N/A
First Plug Displacement	#N/A bbl
Second Plug Displacement	#N/A bbl
Thirst Plug Displacement	#N/A bbl
Fourth Plug Displacement	#N/A bbl
bbls of Spacer Ahead	5 bbls

### bbls of Slurry

First Plug bbls of Slurry	30.7223 bbls
Second Plug bbls of Slurry	30.7223 bbls
Third Plug bbls of Slurry	10.2408 bbls
Fourth Plug bbls of Slurry	0.0000 bbls

### First Plug Cement Data

Cement Name:	G Neat
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Second Plug Cement Data

Cement Name:	G Neat
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Third Plug Cement Data

Cement Name:	G Neat
Cement Density (lb/gal) :	15.8
Cement Yield (cuft) :	1.15
Gallons Per Sack:	5.00

### Fourth Plug Cement Data

Cement Name:	
Cement Density (lb/gal) :	
Cement Yield (cuft) :	
Gallons Per Sack:	

Displacement Fluid lb/gal:	8.3
Fluid Ahead (bbls):	15.0
H2O Wash Up (bbls):	20.0

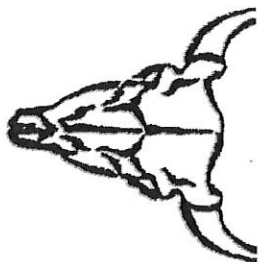
### bbls of Mix Water

First Plug bbls Mix Wate	17.8571 bbls
Second Plug bbls Mix Wat	17.8571 bbls
Third Plug bbls Mix Wate	5.95000 bbls
Fourth Plug bbls Mix Wat	0.0000 bbls

X

Authorized To Proceed

Customers hereby acknowledges and specifically agrees to the terms and condition on this work order, including, without limitation, the provisions on this work order.



**Bison Oil Well Cementing**  
**Single Cement Surface Pipe**

Customer  
Well Name

Noble  
Masure 27-12F

INVOICE #  
LOCATION  
FOREMAN  
Date

13068  
Weld  
Monte Bedeaux  
11/6/2014

Treatment Report Page 2

**DESCRIPTION OF JOB EVENTS**

Safety Meeting	9:30	Displace 1			Displace 2			Displace 3			Displace 4		
	8:45	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI	BLS	Time	PSI
MIRU		0			0	10:45	1760	0	11:35	970	0		
CIRCULATE	9:45	10			10	10:47	1810	10	11:36	980	10		
CIRCULATE	10:15	20			20			20			20		
CIRCULATE		30			30			30			30		
CIRCULATE		40			40			40			40		
M & P		50			50			50			50		
	Time	Sacks			60			60			60		
First Plug	9:47-10:00	150			70			70			70		
Second Plug	10:28-10	150			80			80			80		
Third Plug	11:33-11	50			90			90			90		
Fourth Plug		#DIV/0!			100			100			100		
Mixed bbls					110			110			110		
First Plug	17.85				120			120			120		
Second Plug	17.85				130			130			130		
Third Plug	5.95				140			140			140		
Fourth Plug					150			150			150		
Water Temp	62												

Notes:

safety meeting, miru, pressure test per company man, 1st plug, circulate 3 bbls ahead, mix and pump 150 sks cement, pull pipe, mix and pump 150 sks, dis  
circulate 5 bbls ahead, mix and pump 50 sks cement, displace 1/2 bbls h2o.

X  
Work Preformed

X  
Title

X  
Date



# BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



JOB/TASK: Plug and Abandon		CEMENTER/SUPERVISOR: monte bedeaux		PAGE 1	OF 3
WELL NAME: Mosure 22-12F		RIG # Leed 710	LOCATION: 42-33	DATE: 11-6-14	
OPERATOR: monte		CONSULTANT: Allan		INVOICE # 13068	
<b>PPE REQUIRED:</b> <input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves		<b>ADDITIONAL PPE (based on job specific hazards)</b> <input type="checkbox"/> FR Coveralls <input type="checkbox"/> Reflective Vest		<input type="checkbox"/> Goggles <input type="checkbox"/> Faceshield <input type="checkbox"/> Chemical Resistant Gloves <input type="checkbox"/> Chemical Resistant Clothing <input type="checkbox"/> Air Purifying Respirator <input type="checkbox"/> Supplied Air Respirator <input type="checkbox"/> Personal H2S Monitor <input type="checkbox"/> Personal Methane Monitor	
<b>JOB STEPS</b>		<b>POTENTIAL HAZARDS</b>		<b>RECOMMENDED ACTION OR PROCEDURE</b>	
1. Review JSA		Misunderstanding		Clarify job and associated hazards and safety concerns	
2. Conduct pre job safety meeting		Misunderstanding		-Hold safety meeting with all personnel on location, ensure everyone pays attention to ensure they understand their role and responsibility during the job -Review treatment report with consultant and attain signature for authorization to proceed -Identify and address short service employees (SSE) who are on location -Verify method of relaying hand signals to rig crew for shutting down mud pump	
3. Move trucks in and rig up equipment		Other traffic on location, overhead lines, pinch points, heavy lifting, slips/falls		-Coordinate with well site supervisor for directions on where and when to park the equipment -All Bison crew members walk the location prior to driving in to access specific hazards -Utilize spotters when trucks are in motion -Establish buffer zone around equipment utilizing cones and caution tape -Cementier follows up to ensure connections are secure -Lift with your legs and use teamwork when rigging up -Utilize reflective vests and wands to increase visibility at night -Deploy spill berms and buckets -Verify connections on mudline for compatibility	
4. Raise hose to rig floor		Overhead work, improper hook up/load not properly secured, miscommunication between ground personnel and the crane/tugger operator		-Inspect chains, slings, hooks prior to lift -Ensure line of sight with crane/tugger operator is maintained throughout the lift and hand signals are clarified before the lift. -Ensure no personnel are under suspended loads -Utilize tag line	
5. Attach swage to tubing/Connect to swage on drill pipe		Connections/equipment failing under pressure, spills, slips and falls		-Insure swage has proper pressure rating for the job and falls within the parameters of the <i>Bison Oilwell Cementing Iron Inspection Program</i> -Verify the compatibility of the connections on a swage/pin provided by the rig -Minimize number of people on rig floor, utilize Bison personnel to attach cement lines -Be aware of surroundings when swinging a hammer	
6. Pressure test lines		Equipment failing under high pressures		-Ensure rig floor is clear and personnel are away from hoses prior to test -Establish buffer area around high pressure hoses -Lines are checked from a distance and using pressure gauges -Cementier ensures pressure gauges are working properly	
Test to: PSI- 1500 Maximum pressure allowed for job: PSI- 1500				Pressure relief valve set to: PSI- 2000 Max. pump pressure: PSI- 2000	
				mb	

# BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET



7. Pump Spacer/Mix and Pump Cement	Serious injury from high pressure line failure or catastrophic equipment failure. Burns or skin irritation from splashing cement , uncontrolled spills	-Pressure test prior to job, utilize heavy duty hose hobbles and pressure relief valve -Keep rig floor and buffer area clear while pumping -Utilize proper PPE -Have access to water to rinse affected skin -Deploy spill berms and buckets	mb
8. Displacement	Unexpected pressure associated with resuming of pumping, serious injury from high pressure line failure catastrophic equipment failure, spills , overpressure of mudlines	-Ensure rig floor remains clear and non-essential personnel stay clear from buffer area -Pump operator monitors pump pressure constantly -Utilize proper PPE -During displacement ensure one mudline valve is always open -Review method of relaying hand signals to rig crew to engage/disengage mud pumps	mb
REPEAT STEPS 7 AND 8 AS REQUIRED			
9. Wash up / rig down	Splashing cement slurry, heavy lifting, pinch points, unsecured hoses	-Utilize stakes or portable tank manifold to secure hoses -Use proper lifting technique (2 man lift, lift with legs, plan your route)	mb
10. Depart location	Other traffic and personnel and location, overhead lines	-All Bison crew member walk the planned exit route to access possible obstacles and hazards -Utilize spotters while backing	mb
11. General Precautions/Stop Work	-If you see a leaking connection, notify the cementer. Do not attempt to hammer up a leaking connection as there may be pressure on the lines. - Any person on location, regardless of their position or experience level has the authority and responsibility to stop the job if they witness an unsafe act or condition.		
OTHER HAZARDS SPECIFIC TO LOCATION OR ENVIRONMENT NOT ADDRESSED ABOVE:			mb
DESIGNATED EMERGENCY MUSTER AREA:	access rd	NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): Greeley	
HEAD COUNT-			

SERIES 2000

