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WELL NO. AND FARM A1m 13-11		COUNTY weld	STATE CO	DATE 12-4-14	
CHARGE TO rable		WELL LOCATION SEC. 11 TWP. 61N RANGE 63W		CONTRACTOR JON	
		DELIVERED TO 45-70		LOCATION 1 shop	CODE
		SHIPPED VIA 4034-3102 4012-32L3		LOCATION 2 45-70	CODE
		TYPE AND PURPOSE OF JOB P4A		LOCATION 3 shop	CODE
				WELL TYPE 605	CODE

[illegible]

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 1/4% which is equal to an ANNUAL PERCENTAGE RATE OF 18%.

TAX REFERENCES

"TAXES WILL BE ADDED AT CORPORATE OFFICE"

Customer or His Agent

Blison 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: Alm 13-11

Invoice # 13078
API#
Foreman: Monte Bede
Date 12/4/201

County: Weld
State: Colorado
Sec: 11
Twp: 6n
Range: 65w

Consultant: Jon
Rig Name & Number: Bohler #2
Distance To Location: 28
Units On Location: 4034-3102 4022-3213
Time Requested: 1:00pm
Time Arrived On Location: 12:30pm
Time Left Location:

Plug Job

Well Data

OD Inches	1.315
String Weight Per ft	2.4
First Plug Sacks	144
First Plug Depth	536
Second Plug Sacks	
Second Plug Depth	
Third Plug Sacks	
Third Plug Depth	
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	33.3403 bbls
Second Plug bbls of Slurry	0.0000 bbls
Third Plug bbls of Slurry	0.0000 bbls
Fourth Plug bbls of Slurry	0.0000 bbls

First Plug Cement Data

Cement Name:	BFN111
Cement Density (lb/gal) :	15.0
Cement Yield (cuft) :	1.3
Gallons Per Sack:	6.00

Second Plug Cement Data

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

Third Plug Cement Data

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

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

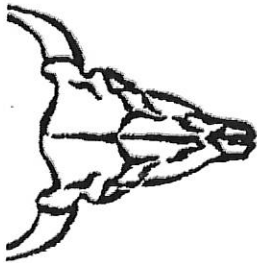
bbls of Mix Water

First Plug bbls Mix Water	20.5714 bbls
Second Plug bbls Mix Water	0.0000 bbls
Third Plug bbls Mix Water	0.0000 bbls
Fourth Plug bbls Mix Water	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

INVOICE # 13078
LOCATION Weld
FOREMAN Monte Bedeaux
Date 12/4/2014

Customer Noble
Well Name Alm 13-11

Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

	1:10pm	Displace 1			Displace 2			Displace 3			Displace 4		
		BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI	BBLS	Time	PSI
Safety Meeting		0	1:35	850	0			0			0		
MIRU	12:30	10	1:36	850	10			10			10		
CIRCULATE	1:20	20			20			20			20		
CIRCULATE		30			30			30			30		
CIRCULATE		40			40			40			40		
CIRCULATE		50			50			50			50		
M & P													
Time Sacks													
First Plug	1:22-1:33	144			60			60			60		
Second Plug					70			70			70		
Third Plug		#DIV/0!			80			80			80		
Fourth Plug		#DIV/0!			90			90			90		
Mixed bbls													
First Plug	20:57	110			110			110			110		
Second Plug		120			120			120			120		
Third Plug		130			130			130			130		
Fourth Plug		140			140			140			140		
Water Temp	46	150			150			150			150		

Notes:

safety meeting ,miru, pressure test per company man,1st plug, circulate 5 bbls ahead, mix and pump 144 sks cement, displace 1.00 bbl



BISON OILWELL CEMENTING JOB SAFETY ANALYSIS WORKSHEET

JOB/TASK:	Plug and Abandon		CEMENTER/SUPERVISOR:	monte bedeaux		PAGE	1	OF	3
WELL NAME:	Alm 13-11		RIG #	Bohler #2	LOCATION:	44-51			
OPERATOR:	monte		CONSULTANT:	Jon					
PPE REQUIRED:	<input type="checkbox"/> Hard Hat <input type="checkbox"/> Safety Glasses <input type="checkbox"/> Steel Toe Boots <input type="checkbox"/> Impact Gloves		ADDITIONAL PPE (based on job specific hazards)		<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									
JOB STEPS			POTENTIAL HAZARDS			RECOMMENDED ACTION OR PROCEDURE			REVIEWED BY
1. Review JSA			Misunderstanding			Clarify job and associated hazards and safety concerns			mb
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			mb
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 -Cementer 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			mb
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			mb
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 -Cementer ensures pressure gauges are working properly			mb
Test to:			PSI- 1000			Pressure relief valve set to:			PSI- 2000
Maximum pressure allowed for job:			PSI- 1500			Max. pump pressure:			PSI- 2000



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	
HEAD COUNT-		NEAREST EMERGENCY MEDICAL FACILITY (OTHER THAN 911): Greeley	

SERIES 2000

—PSI —Barrels / Minute —Barrels —Lbs / Gallon —Stage Volume

