

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11489

LOCATION Hwy 14-89

FOREMAN Kirk Kallhoff
Pete, Loran

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-10-12	Washburn Le 22-78-HW	22	8N	61W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H&P 326
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 10:00pm	TIME LEFT LOCATION 5:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 1067	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
377D 1067.95	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 1063.28		TREATMENT VIA			
CASING WEIGHT 3615	PACKER DEPTH		TYPE OF TREATMENT	TREATMENT RATE	
CASING CONDITION good			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
MINIMUM psi			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up safely, meeting, B1 1st Perforation pier 408BIS KCL H2O, mix Pump local cement 287SKs at 13.1 lb/s 1 bag yield, mix Pump Tail cement 440SKs at 15.2 lb/s at 1.2 yield, drop Plug Disp 86.3 BBS H2O, Pump Plug At 150 psi over last PSI, wait 5 min Release psi, wash up Rig Down 78.6
Based w/ 750SKs cement 4 gal KCL 16oz Dye 86.3 BBS slurry lead 31.6 BBS slurry tail

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safely meeting 2:40am pier 3:11am cement 3:17am stop cement 4:02am
Drop Plug 4:04am Displace 4:04am
10.0 BBS At 6.0 BBS/lm 4:07am 150psi
20.0 BBS At 6.0 BBS/lm 4:08am 250psi
30.0 BBS At 6.0 BBS/lm 4:10am 350psi
40.0 BBS At 3.0 BBS/lm 4:12am 400psi
50.0 BBS At 3.0 BBS/lm 4:15am 4150psi
60.0 BBS At 3.0 BBS/lm 4:18am 500psi
70.0 BBS At 3.0 BBS/lm 4:21am 550psi
78.6 BBS At 4:24am 400psi
Pump Plug 4:24am 750psi
LFT w/

Used 20% Excess Lead

Used 427SKs cement

86.3 BBS slurry lead

31.6 BBS slurry tail

117.9 BBS slurry total

BBS Back 24

mqr.

WSS

4-10-12

AUTHORIZATION TO PROCEED

TITLE

DATE

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