

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9720

LOCATION cr 32-37

FOREMAN Kirk Kallio
Mike R Jossie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-15-11	camp H30-29D	19	3N	6SW	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:30am	TIME LEFT LOCATION 7:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 735	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 681.42	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 725.5					
CASING WEIGHT 24 lb	PACKER DEPTH				
CASING CONDITION good					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM		
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM		
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM		
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM		
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM		
			<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, safety meeting, psi test, circ 40 BBLs KCL H2O 2nd 10m/Dye, mix Pump 311 SKS cement at 30% excess at 127 yield at 152 lbs or until cement stops vs, Release Plug Displace 43.4 BBLs H2O, Bump Plug at 150 psi over LPT psi, wait 5 min Release psi, wash up Rig Down

Arrived w/ 575 SKS cement 4 gallons KCL 16oz Dye H2O test OK
70.2 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 5:08am circ 5:21am cement 5:31am
Drop Plug 5:54am Displace 5:54am

10 BBLs At 5.5 BBLs/m 5:57am 550 psi used 16% excess
20 BBLs At 5.5 BBLs/m 5:59am 440 psi used 279 SKS
30 BBLs At 5.5 BBLs/m 6:01am 570 psi 62.6 BBLs slurry
40 BBLs At 2.5 BBLs/m 6:04am 290 psi
43.4 BBLs At 1.0 BBLs/m 6:06am 240 psi
Bump Plug 6:06am 380 psi

LPT w/ 296 SKS cement 3 gallons KCL 6oz Dye BBLs Back 18

Tam Bar AUTHORIZATION TO PROCEED WSS TITLE 3-15-11 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.