

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9739

LOCATION 50-59

FOREMAN Kirk Kalish
Mike R, LR, Jessie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-22-11	marley Col-28D	01	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>3:30am</u>	TIME LEFT LOCATION <u>7:15am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>590</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBD 536.94</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>582.05</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>2416</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<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	

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING psi	AVERAGE psi	
FINAL DISPLACEMENT psi	ISIP psi	
ANNULUS psi	5 MIN SIP psi	
MAXIMUM psi	15 MIN SIP psi	
MINIMUM psi		

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, PSI test, circ 30 sbs KCL H2O and 10w/Dye, mix & Pump 250 sbs cement at 30% excess at 1127 yielded at 1512 lbs or, until 11 man stops us, Release Plug, Displace 34.2 BBLS H2O Pump Plug at 150 psi over LIFT PSI, wait 5 min, Release PSI, washup Rig Down

Arrived w/ 650 sbs cement 4 gallons KCL 16oz Dye H2O test OK
56.3 BBLS slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 5:43am circ 5:55am cement 6:04am
Drop Plug 6:25am Displace 6:25am

10 BBLS at 5.5 BBLS/m 6:28am 340psi used 60% excess
20 BBLS at 5.5 BBLS/m 6:30am 340psi used 307 sbs cement
30 BBLS at 2.5 BBLS/m 6:32am 250psi 69.3 BBLS slurry
34.2 BBLS at 1.0 BBLS/m 6:36am 230psi
Pump Plug 6:36am 380 psi

1 Pst w/ 343 sbs cement 3 gal 1st KCL BBLS Back 5

4-22-11
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.