

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9740

LOCATION 49-30

FOREMAN Kirk Kallho RF
Miller LR Jessie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-22-11	Dochant State H36-21D	36	3N	65W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 121
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:00pm	TIME LEFT LOCATION 6:30pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 786	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PSTD 736.19	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH 781.5		TREATMENT VIA	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING WEIGHT 2416	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
CASING CONDITION good			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	

BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi	<input type="checkbox"/> MISC PUMP	
MINIMUM psi		<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 KLL H2O 2nd 10w/Dye, mixe Pump 330 SKs cement at 30% Excess at 1.27 yield at 15.2 lbs or, until cement stops ns, Release Plug, Displace 46.8 BBLs H2O, Bump Plug at 150psi over LPT Psi, wait 5min Release Psi, washup, Rig Down.

Arrived w/ 650 SKs cement 4 gallons Kel 16oz Dye H2O test OK
75.1 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 4:43pm circ 5:03pm cement 5:13pm
Drop Plug 5:46pm Displace 5:46pm

10 BBLs at 5.5 BBLs/m 5:49pm 360psi used 53% Excess
20 BBLs at 5.5 BBLs/m 5:51pm 420psi used 393 SKs cement
30 BBLs at 5.5 BBLs/m 5:54pm 480psi 88.3 BBLs slurry
40 BBLs at 3.5 BBLs/m 5:57pm 390psi
46.8 BBLs at 1.0 BBLs/m 6:01pm 340psi
Bump Plug 6:01pm 490psi

LPT w/ 257 SKs cement 3gal Kel 6oz Dye BBLs Back 16

AUTHORIZATION TO PROCEED [Signature]
TITLE Co. Man [Signature]
DATE 4-22-11