

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10232

LOCATION Hwy 34-50

FOREMAN Kirk Kallio FS
Mike R LA marks

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-17-11	Gutterman state CC20-38D	20	4N	63W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign/21
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 8:00am	TIME LEFT LOCATION 11:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 678	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 616.38	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TYPE OF TREATMENT	TREATMENT RATE
CASING DEPTH 661.5	TREATMENT VIA		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING WEIGHT 2415	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		
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MINIMUM	psi			<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, Pretest, Circ 40 BBS KLL H2O, 2nd 10w Dye, mix F, Pump 287SKS cement at 30% excess at 127yild at 15.2 or until cement stops up, no more than 50% excess per column, Release Plug, Disp 39.2 BBS H2O, Bump Plug At 150psi over Lift Psi, wait 5min Release Psi wash up Rig down H2O test OK

Arrived w/ 650 SKS cement 4 gal KLL 16oz Dye 64.7 BBS slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 9:14am circ 9:44am cement 9:54am

Drop Plug 10:13am Disp 10:13am

10 BBS At 4.5 BBS/m 10:16am 200psi used 10% excess

20 BBS At 4.5 BBS/m 10:19am 320psi used 243 SKS cement

30 BBS At 3.5 BBS/m 10:22am 360psi 54.8 BBS slurry

39.2 BBS At 1.0 BBS/m 10:27am 290psi

Bump Plug 10:27am 480psi

1 Shot 407SKS cement 3 gal KLL 6oz Dye BBS Back 12

AUTHORIZATION TO PROCEED

TITLE

DATE