

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 7-17-11	WELL NAME Guthrie State CC20-30D	SECTION 20	TWP 4N	RGE 63W	COUNTY weld	FORMATION
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		
CASING DEPTH 661.5		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, Post test, Circ 40 BBS KCL H2O, 2nd 104 Dye, mix E Pump 2875Ks cement at 30% excess at 1127 psi at 15.2 or until cement stops up, no more than 50% excess per column, Release Plug, Disp 34.2 BBS H2O, Bump Plug At 150psi over Lift Psi, wait 5 min Release Psi wash up Rig Down H2O test OK
Arrived w/ 650 SKS cement 4 gal KCL 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
34.2 BBS At 1.0 BBS/m 10:27am 290psi
Bump Plug 10:27am 480psi

L Stop 4075Ks cement 3 gal KCL 6oz Dye BBS Back 12

AUTHORIZATION TO PROCEED
TITLE
DATE 7-17-11