

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10582

LOCATION 36-53

FOREMAN Kirk Kallhoff
Jessy Rob

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-4-11	Gutherson C33-32	33	4N	64W	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 55</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:30am</u>	TIME LEFT LOCATION <u>5:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 7/8</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>663</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>612.1</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>657.8</u>		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>24 lb</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> SOOZE CEMENT	FINAL BPM
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, P1 test, Per cement circ 40 BBLs KCL H2O, 2nd 104/Day, mix & Pump 281 sks cement at 30% Excess at 127 yield at 15.2 lbs or until cement stops us, remove then 50% Excess, Release Plug, Disp 38.9 BBLs H2O, Pump Plug at 150 PSI over LIFT PSI, wait 5 min Release Plg, wash up Rig Down
Arrived w/ 575 sks cement 4 good KCL 16oz Dye
H2O test OK
63.5 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 2:58pm cir 3:14pm cement 3:22pm
Disp Plug 3:45pm Displace 3:45pm

10 BBLs at 5.5 BBLs/m 3:48pm 190 psi used 10% Excess
20 BBLs at 5.5 BBLs/m 3:50pm 210 psi used 237 sks cement
30 BBLs at 3.5 BBLs/m 3:52pm 220 psi 53.6 BBLs slurry
38.9 BBLs at 1.0 BBLs/m 3:54pm 220 psi
Pump Plug 3:54pm 450 psi

Lift w/ 338 sks cement 3 good KCL 6oz Dye BBLs BBL 6

Don Rabin CC - REP 11-4-11
AUTHORIZATION TO PROCEED TITLE DATE