

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8997

LOCATION Wells Ranch

FOREMAN Kirk Kallhorst
mile R mile D miles

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-3-10	Wells Ranch USR AE 31-02P	31	6N	62W	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>10:30pm</u>	TIME LEFT LOCATION <u>3:00am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>575.1</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>522.415</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>566.5</u>		TREATMENT VIA			
CASING WEIGHT <u>2416</u>	PACKER DEPTH				
CASING CONDITION <u>good</u>					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP			
			<input type="checkbox"/> OTHER			

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psit test, circ 30 bbls H2O and 10W/Dye mire Pump
243 SKS cement at 30% Egress at 1:27 yield at 1512 lbs or until cement stops is
Release Plug Displace 33.2 BBLs H2O, Pump Plug at 150 psi over Lift PSI, wait 5 min
Release PSI, wash up Rig Down
Arrived w/ 575 SKS cement 4 gallons KCL 16oz Dye
54.9 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 1:22am circ 1:42am cement 1:51am
Drop Plug 2:13am Displace 2:13am

10 BBLs At 5.5 BBLs/m 2:16am 420 psi
20 BBLs At 5.5 BBLs/m 2:18am 560 psi
30 BBLs At 2.5 BBLs/m 2:25am 340 psi
33.2 BBLs At 1.0 BBLs/m 2:27am 350 psi
Pump Plug at 2:27am 580 psi
used 30% Egress
used 243 SKS cement
54.9 BBLs slurry

LP w/ 332 SKS cement 3 gallons 2gts KCL 6oz Dye
BBLs Back 10

AUTHORIZATION TO PROCEED

TITLE

5-3-10

DATE