

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9517

LOCATION Hwy 85-Hwy 66

FOREMAN Kirk Railhorst
Miller R Thacker Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-22-10	Sherwood L30-30D	30	3N	66W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 128
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 12:30am	TIME LEFT LOCATION 5:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 660.2	TUBING DEPTH	SHOTS/FT			
PBT 609.37	TUBING WEIGHT	OPEN HOLE			
CASING SIZE 8 7/8	TUBING CONDITION				
CASING DEPTH 654.65		TREATMENT VIA			
CASING WEIGHT 2416	PACKER DEPTH				
CASING CONDITION good					

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		HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, PSI test, circ 30 BBLS H2O, 2nd 104.3 Dye, mix Pump 279
SKs cement at 30% excess at 1.27 yield at 15.2 lbs orchardill cement stops us, Release Plug
Displace 38.8 BBLS H2O, Pump Plug at 150 psi over Lift PSI wait 5 min Release PSI wash up
Rig Down H2O test OK
Arrived w/ 650 SKs cement 4 gallons Kcl 16oz Dye 63 BBLS slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 3:50am circ 4:02am cement 4:10am
Drop Plug 4:44am Displace 4:44am

10 BBLS at 2.0 BBLS/m 4:45am 150psi used 11540 excess
20 BBLS at 2.7 BBLS/m 4:53am 240psi used 464 SKs
30 BBLS at 2.7 BBLS/m 4:57am 220psi 104.3 BBLS slurry
38.8 BBLS at 1.0 BBLS/m 5:03am 250psi
Pump Plug 5:03am 360psi

Flout Didn't hold

LPT w/ 186 SKs cement 3 gallons 1 qt Kcl 6oz Dye BBLS Back 38

AUTHORIZATION TO PROCEED
Rig Supervisor
11-22-10
DATE