

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8962

LOCATION wells Ranch

FOREMAN Kirk Karlhoff
mile R mile D

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-25-10	wells Ranch ASX AE19-02P	19	6N	62W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign SS
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 2:45pm	TIME LEFT LOCATION 7:00 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 565.1	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 513.14	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 552.5		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 32 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<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

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi		
FINAL DISPLACEMENT psi	ISIP psi		
ANNULUS psi	5 MIN SIP psi		
MAXIMUM psi	15 MIN SIP psi		
MINIMUM psi			

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, psi test, circ 305 bbls H₂O 2nd 10 w/dye wire pump
239 sks cement at 30% excess at 1.27 yield at 15.2 lbs or until roman stops w/ Release Plug
Displace 31.2 BBLs H₂O Bump Plug at 150 psi over Lift psi, wait 5 min Release Psi
wash up, Rig Down H₂O test OK
Arrived w/ 575 sks cement 4 gallons KCL 16oz Dye 53.9 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 5:30am circ 5:43am cement 5:51am
Bump Plug 6:06am Displace 6:06am

used 20% excess per roman
used 222 sks cement
49.8 BBLs slurry
10 BBLs At 5.5 BBLs/m 6:10am 510psi
20 BBLs At 5.5 BBLs/m 6:13am 580psi
30 BBLs At 5.5 BBLs/m 6:17am 210psi
31.2 BBLs At 1.0 BBLs/m 6:20am 180psi
Bump Plug NO

Lift w/ 353 sks cement 3 gallons 2gts KCL 6oz Dye
13 BBLs Back 15

[Signature]

4-25-06

AUTHORIZATION TO PROCEED

TITLE

DATE