

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9316

LOCATION wells Ranch

FOREMAN Kirk Kallhoff
mike Tucker

TREATMENT REPORT

DATE 10/6/10	WELL NAME wells Ranch AF07-02	SECTION 7	TWP 5N	RGE 62W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cadre 22				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 5:45am		TIME LEFT LOCATION 8:15am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 567	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 516.87	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 9/8	TUBING CONDITION		TUBING		
CASING DEPTH 560.95		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 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

INSTRUCTIONS PRIOR TO JOB: Pigup, safety meeting, Psitest, circ 30 BBLs H2O 2nd 104 dye, mix E Pump 240 SKS cement at 1.27 yield at 30% excess at 15.2 lbs until cement stops, Release Plug Displace 32.9 BBLs H2O, Pump Plug at 150 Psi over L.P.D. Psi wait 5 min Release Psi, wash up Pig Down H2O test OK

Arrived w/ 575 SKS cement 4 gallons Red 16oz Dye 54.1 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS: safety meeting 6:35am circ 6:50am cement 6:56am

Drop Plug 7:13am Displace 7:13am

used 3540 excess
used 250 SKS
56.2 BBLs slurry
10 BBLs at 5.5 BBLs/min 7:16am 370 psi
20 BBLs at 5.5 BBLs/min 7:18am 450 psi
30 BBLs at 5.5 BBLs/min 7:23am 250 psi
32.9 BBLs at 1.0 BBLs/min 7:25am 200 psi
Bump Plug 7:25am 370 psi

L.P.D. w/ 225 SKS cement 3 gallons lg + Red 6oz Dye BBLs Back 12

Sun 10/10/10 WSS 10-16-10
AUTHORIZATION TO PROCEED TITLE DATE