

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10730
 LOCATION WLR 44+51
 FOREMAN Mila Rosales
Mark LR

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-14-11	Long C-20 21-D	20	4N	64W	Weld	
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>Saxon 144</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>2:45 AM</u>			TIME LEFT LOCATION <u>7:30</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>737</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTD 685.53</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>731</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lbs</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			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> MISC PUMP		
MINIMUM psi			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up Sattymetry PSE Test, 500 PSE, Circulate 40 BBl/s head H2O KCL m
2nd 10 Dye, mix + Pump 312 Sks Cement (30% Excess) yield 1.27 at 15-20 or until
Company men stopper vs. Release Plug Displace 43.6 BBl/s H2O Bump Plug 150 over lift
Wait 5 min Release PSE Wash up, Rig Down H2O Test Good
Arrive with 600 Sks Cement 10 qts KCL 1602 Dye Slurry 705

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Sattymetry 5:05 AM Circulate 5:30 AM Cement 5:40 AM
DRUP Plug 6:04 AM Displace 6:04 AM

10 BBl/s at 5-5 BBl/s/m 6:07 AM 280 PSE USED 15 % Excess
20 BBl/s at 5-5 BBl/s/m 6:09 AM 330 PSE USED 279 Sks Cement
30 BBl/s at 5-0 BBl/s/m 6:11 AM 440 PSE Slurry 63.1
40 BBl/s at 3-0 BBl/s/m 6:14 AM 380 PSE
43.6 BBl/s at 1-5 BBl/s/m 6:17 AM 300 PSE
Bump Plug 1-5 BBl/s/m 6:17 AM 900 PSE

Flow Coter held BBl/s BACK to PSE

Left location with 321 Sks Cement 6 qts KCL 0 Dye

[Signature] 12-14-11
 AUTHORIZATION TO PROCEED TITLE DATE