

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10317

LOCATION 49-32

FOREMAN Kirk Kallhoff
Jassy Rickard

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-2-11	Serchet H13-D54N	24	3N	65W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR HEP 323
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 12:15am	TIME LEFT LOCATION 9:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 836	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 785.84	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 9 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 828.35		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3615	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

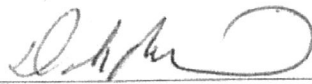
PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING psi	AVERAGE psi	
FINAL DISPLACEMENT psi	ISIP psi	
ANNULUS psi	5 MIN SIP psi	
MAXIMUM psi	15 MIN SIP psi	
MINIMUM psi		

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, PSI test, Perforation, circ 60 BBLs Kcl H2O 2nd 104/Dye, mix & Pump 450 SKS cement at 30% excess at 1.27 yield at 1512 lbs cement till cement stops up, no more than 50% excess. Release Plug. Displ 60.7 BBLs H2O, Pump Plug at 150 psi or 1st PSI, wait 5 min Release PSI, wash up, Rig Down. H2O test OK.

Arrived w/ 475 SKS cement 4 gal Kcl 16oz Dye 101.7 BBLs slurry

JOB SUMMARY	
DESCRIPTION OF JOB EVENTS safety meeting 7:14am circ 7:39am cement 7:51am	
Drop Plug 8:25am	Displace 8:25am
10 BBLs At 5.0 BBLs/min 8:28am 170 psi	used 29% excess
20 BBLs At 5.0 BBLs/min 8:30am 170 psi	used 357 SKS cement
30 BBLs At 5.0 BBLs/min 8:32am 270 psi	60.7 BBLs slurry
40 BBLs At 5.0 BBLs/min 8:34am 320 psi	
50 BBLs At 5.0 BBLs/min 8:36am 400 psi	
60 BBLs At 1.0 BBLs/min 8:45am 280 psi	
60.7 BBLs At 1.0 BBLs/min 8:45am 280 psi	
Bump Plug 8:45am 410 psi	

Lfhw/ 118 SKS cement 2 gal Kcl & Dye BBLs Back 10

 10-2-11

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity