

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10322

LOCATION 34-53

FOREMAN Kirk Kallhoff
 Mike Sassy

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-12-11	Guthrie State 29-31D	29	3N	64W	Weld	

CHARGE TO Nable	OWNER
MAILING ADDRESS	OPERATOR Nable
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:30am	TIME LEFT LOCATION 7:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 702	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
BBBID 654,45	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 699.25		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	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, soft plug meeting, Bitted, Per cement, circ 40 bbls Rel H2O, 2nd 1024 Dye, misc Pump 299
 sls cement at 30% Excess at 1.27 yield at 152 lbs, cement comm drops up, volume than 50% Excess Release
 Plug Disp 41.6 BBBs H2O, Pump Plug at 150 psi over LIFT B, wait 5 min Release PSI, wash PP, Rig Down
 H2O Test OK

Arrived w/ 575 sls cement 4 gal Rel 1602 Dye 67.6 BBBs slurry

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS soft plug meeting 5:43am circ 6:01am cement 6:11am
 Drop Plug 6:38am Displace 6:38am

10 BBBs at 5.0 BBBs/min 6:41am 160psi used 20% Excess
 20 BBBs at 5.0 BBBs/min 6:43am 260psi used 27% sls cement
 30 BBBs at 5.0 BBBs/min 6:45am 350psi 62.4 BBBs slurry
 40 BBBs at 6.0 BBBs/min 6:50am 250psi
 41.6 BBBs at 6.0 BBBs/min 6:52am 270psi
 Pump Plug 6:52am 460psi

LFTW/ 13 BBBs Back 10


 AUTHORIZATION TO PROCEED WSS TITLE 10-12-11 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