

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9618

LOCATION 392-63

FOREMAN Kirk Kalthoff
mike R LR

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-20-11	Bashor PC AA-09-14	9	6N	63W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Cade 22
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00pm	TIME LEFT LOCATION 2:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 575.3	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBSTD 523.06	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 568.26		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

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 Big up safety meeting, Psit test circ 30 bbls KCL H2O 2nd 104 Dye, mix & Pump 243 SKS cement at 30% Excess at 1.27 yield at 15.2 15s or until command stop us. Release Plug Displace 33.3 BBLs H2O, Pump Plug At 150 psi over LIFT Psi, wait 5min Release Psi wash up Big Down. H2O test OK

Arrived w/ 575 SKS cement 4 gallons KCL 16oz Dye 54.9 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 12:40am circ 1:00am cement 1:17am
Drop Plug 1:43am Displace 1:43am

10 BBLs At 5.5 BBLs/m 1:47am 340psi used 94% Excess
20 BBLs At 5.5 BBLs/m 1:51am 390psi used 364 SKS cement
30 BBLs At 2.5 BBLs/m 1:55am 220psi 82 BBLs slurry
33.3 BBLs At 1.0 BBLs/m 1:57am 180psi
Pump Plug 1:57am 360psi

L Plug 211 SKS cement 3 gallons 1qt KCL 6oz Dye BBLs Back 19

2-19-20

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.