

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9621

LOCATION WCR 74+29

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-15-11	HAYTHORN 04-21	4	6N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade Rig 21</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:30 AM</u>	TIME LEFT LOCATION <u>9:45 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>917</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>866.35</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>909.37</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<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, Safety meeting, Per Company Man, Cick 50 bbls H₂O with KCL + Dye x 10 in 2nd 10 bbls, Mix pump tell Dye is seen then pump tub only at 15.2 lbs 1.27 yield, Drop plug, Displace 55.1 bbls H₂O, Bump plug at 500 Psi over Lift Pi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, We have 700 sks, 26 oz Dye, 2.3 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 8:00am, Cick 8:13am, CEMENT 8:22am to 8:44am
Drop plug 8:46am, Displace 8:47am
10 bbls 280 Psi 8:49am 7.0 bbls/min
20 bbls 300 Psi 8:51am 7.0 bbls/min
30 bbls 400 Psi 8:53am 7.0 bbls/min
40 bbls 500 Psi 8:54am 7.0 bbls/min
50 bbls 500 Psi 8:57am 6.0 bbls/min
55.1 bbls 350 Psi 9:00am 1.0 bbls/min
Bump Plug 8:50 Psi at 9:00am Floot Collar held
USED 20% Excess = 358 sks, 80.97 bbls Slurry
Left with 342 sks, 16 oz Dye, 18 Qts KCL,
9 bbls Slurry to the PiT

Wm. L. Smith
AUTHORIZATION TO PROCEED

Corep.
TITLE

2-15-11
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