

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9613

LOCATION Cr 74-29

FOREMAN Kirk Kallho RF
Mike R Guy A

TREATMENT REPORT

DATE 2-10-11	WELL NAME Haythorn 04-24	SECTION 4	TWP 6N	RGE 66W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cade 21				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 1:00pm		TIME LEFT LOCATION 8:30pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 423	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 868	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 913		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		1 SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			1 PRODUCTION CASING		INITIAL BPM
			1 SQUEEZE CEMENT		FINAL BPM
			1 ACID BREAKDOWN		MINIMUM BPM
			1 ACID STIMULATION		MAXIMUM BPM
			1 ACID SPOTTING		AVERAGE BPM
			1 MISC PUMP		
			1 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, Pre test, circ 50 BBLs R/L H2O and 10W Dye mix Pump 390 SKS cement at 30% excess at 1.27 yield at 152 lbs or until all cement stops up, Release Plug Displace 55.2 BBLs H2O Bump Plug At 150psi over Lift PSI wait 5 min Release PSI, wash up Rig Down

Arrived w/ 650 SKS cement 4 gallons R/L 16oz Dye H2O test OK
88.1 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS: Safety meeting 6:26pm circ 7:11pm cement 7:22pm

Drop Plug 7:47pm Displace 7:47pm
10 BBLs At 5.5 BBLs/m 7:50pm 220psi used 23% excess
20 BBLs At 5.5 BBLs/m 7:52pm 220psi used 371 SKS cement
30 BBLs At 5.5 BBLs/m 7:54pm 340psi 83.4 BBLs slurry
40 BBLs At 5.5 BBLs/m 7:56pm 410psi
50 BBLs At 3.5 BBLs/m 8:00pm 360psi
55.2 BBLs At 1.0 BBLs/m 8:03pm 320psi
Bump Plug 8:03pm 440psi

Lift w/ 279 SKS cement 3 gallons 3gts R/L 6oz Dye BBLs Back 10

WVC R/W [Signature] Co Rep. 2-10-11
AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledge and specifically agree 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