

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9712

LOCATION cr 42-38

FOREMAN Kirk Kallhoff
Mike R. CR

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-25-11	Arisocrat PC H11-27D	2	3N	6SW	weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 121</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:45pm</u>	TIME LEFT LOCATION <u>10:30pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>707.2</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 655.48</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>700.73</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
			<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
			<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
			<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, PSI test, circ 40 bbls Kcl H2O and 104 Dye, mix Pump 299 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until coman stops w/ Release Plug Displace 41.7 bbls H2O, Bump Plug At 150 psi over Li Pt Psi, wait 5 min, Release Psi, wash up Rig down H2O test OK

Arrived w/ 575 sks cement 4 gallons Kcl 16oz Dye 67.5 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 8:43pm circ 8:59pm cement 9:10pm
Drop Plug 9:34pm Displace 9:34pm

10 BBLs At 5.5 BBLs/m 9:38pm 390psi used 30% Excess
20 BBLs At 5.5 BBLs/m 9:40pm 450psi used 299 sks cement
30 BBLs At 5.5 BBLs/m 9:43pm 520psi 67.5 BBLs slurry
40 BBLs At 1.0 BBLs/m 9:47pm 270psi
41.7 BBLs At 1.0 BBLs/m 9:49pm 290psi
Bump Plug 9:49pm 450psi

Left w/ 276 sks cement 3gal Kcl 6oz Dye BBLs Back 12

Henry West

AUTHORIZATION TO PROCEED

TITLE

2-25-11

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.