

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9766
LOCATION WCR 42+33
FOREMAN Daniel S. Heman

TREATMENT REPORT

DATE <u>4-14-11</u>	WELL NAME <u>Mosier K 23-21D</u>	SECTION <u>23</u>	TWP <u>4N</u>	RGE <u>66W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENSign 126</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>5:15 am</u>		TIME LEFT LOCATION <u>8:45 am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>617.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PATD 564.68</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>609.06</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</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, PSI test, Circ 30 bbls of H₂O w/ KCL 2nd 10 w/ 1000 Dye, mix & pump 26 bbls of cement @ 30% excess @ 15-20 lb @ 1.27 yield, or until stopped by Co man. Drop Plug Displace 35.9 bbls of H₂O Bump Plug @ 150 psi over lift psi, wait 5 min Release PSI wash up Rig Down

Arrived w 750 sks of cement 4 gal KCL 32 oz Dye
59.0 bbls of slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS: Safety meeting 6:36 am Circ 7:03 am Cement 7:10 am
Drop Plug 7:41 am Displace 7:44 am

10 bbls	6.0 /m	350 psi	7:47 am	used 378 sks of cement 88% excess 85% bbls of slurry
20 bbls	6.0 /m	350 psi	7:50 am	
30 bbls	3.5 /m	340 psi	7:52 am	
35.9 bbls	1.0 /m	270 psi	7:54 am	
Bump Plug	580 psi		7:54 am	

Left w 372 sks of cement 3 gal 1 qt KCL 22 oz Dye
20 bbls of slurry back

[Signature] AUTHORIZATION TO PROCEED
Rig Supervisor TITLE
4-14-11 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.