

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8666  
LOCATION WCR 23-24 1/2  
FOREMAN Daniel S. Heman  
Kirk Freed

## TREATMENT REPORT

DATE <u>10-17-09</u>	WELL NAME <u>Glover 12-27 D</u>	SECTION <u>1A</u>	TWP <u>2N</u>	RGE <u>67W</u>	COUNTY	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>EN/Sign 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>9:35pm</u>		TIME LEFT LOCATION <u>2:45am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>816.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD <u>755.5</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>801.0</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

INSTRUCTIONS PRIOR TO JOB Rig up. Safety meeting. Circ 50 bbls of H<sub>2</sub>O w/ KCL 2nd 10' + last 5 w/ Dye. Mix + pump max 307 gpm w/ 247 sks of Cement @ 14.5" @ 1.4" yield or until stopped by Co man. Drop Plug Displace 48.1 bbls of H<sub>2</sub>O Bump Plug @ 150 lb over 1.1 ft psi wait 5 min Release psi washup Rig Down Rig to Circ 7.0 bbls/min to activate Flow Color  
water test OK  
Arrived w 750 sks of Cement 5% KCL 16.6 oz Dye min 59.9 bbls of slurry max 77.9

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:43pm Circ 12:57am Cement 1:12am  
Drop Plug 1:37am Displace 1:37am

<u>10 bbls 4.0/m 180psi 1:40am</u>	<u>used 268 sks of Cement</u> <u>12% EXCESS</u> <u>67.1 bbls of Slurry</u>
<u>20 bbls 4.0/m 230psi 1:43am</u>	
<u>30 bbls 4.0/m 310psi 1:45am</u>	
<u>40 bbls 3.5/m 340psi 1:48am</u>	
<u>48.1 bbls 1.0/m 260psi 1:53am</u>	
<u>Bump Plug 370 psi 1:53am</u>	<u>Left w 482 sks of Cement 4% 3at KCL</u> <u>10 oz Dye</u>
<u>Avg Rate 4.0</u>	<u>Cement Came out on Celler + 10ft Away</u>
<u>Avg psi 300 Cement</u>	<u>Avg Dis psi 350psi</u>
	<u>7 bbls of Slurry Back</u>

[Signature]  
AUTHORIZATION TO PROCEED

[Signature]  
TITLE

10-17-09  
DATE