

# BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 9029

LOCATION Cr 34-55

FOREMAN Kirk Kallhoff  
Mike R Tucker L

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-20-10	Guthrie State D16-32D	16	3N	64W	weld	

CHARGE TO <i>Noble</i>	OWNER
MAILING ADDRESS	OPERATOR <i>Noble</i>
CITY	CONTRACTOR <i>Ensign 128</i>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <i>5:00pm</i>	TIME LEFT LOCATION <i>9:00pm</i>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <i>12 1/4</i>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <i>653.9</i>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <i>605.37</i>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <i>8 7/8</i>	TUBING CONDITION		TUBING		

WELL DATA			TYPE OF TREATMENT		TREATMENT RATE	
CASING DEPTH <i>649.51</i>		TREATMENT VIA	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING WEIGHT <i>2416</i>	PACKER DEPTH		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
CASING CONDITION <i>good</i>			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	

PRESSURE SUMMARY				TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM	
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM	
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP			
MINIMUM	psi			<input type="checkbox"/> OTHER			

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, Ps. test, circ 40 BBls Kcl 2nd 10 w/Dye, mix 277 SKS cement at 30% excess at 1.27 pld at 15.2 lbs or until run stops w/s, Release plug Displace 38.5 BBls H2O, Bump Plug At 150psi over L.P.T. PSE, wait 5min Release Psi, wash up Rig Down  
H2O test OK

Arrived w/ 650 SKS cement 4 gallons Kcl 16oz Dye 62.4 BBls slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS: safety meeting 7:05pm circ 7:32pm cement 7:41pm Drop Plug 8:07pm Displace 8:07pm

10 BBls At 5.5 BBls/m 8:10pm 450psi  
20 BBls At 5.5 BBls/m 8:12pm 540psi  
30 BBls At 3.5 BBls/m 8:14pm 400psi  
38.5 BBls At 1.0 BBls/m 8:16pm 300psi  
Bump Plug 8:19pm 450 psi  
used 15% excess  
used 245 SKS cement  
55.2 BBls slurry

L.P.T. w/ 405 SKS cement 3 gallons Kcl 6oz Dye 13 BBls Bcl 5

*[Signature]*

6-20-10