

# BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102  
Denver, Colorado 80202  
Phone: 303-296-3010  
Fax: 303-298-8143  
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 9813  
LOCATION WCR 52 & 25  
FOREMAN Daniel Sgltman

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-17-11	Bernhardt State PC N36-270	36	5N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>3:38 AM</u>	TIME LEFT LOCATION <u>7:45 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>663.1</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>1 BTD 606.9</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>653</u>		TREATMENT VIA			

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM		
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM		
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM		
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM		
MINIMUM psi			<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	
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INSTRUCTIONS PRIOR TO JOB: Rig up. Softly meeting. Psi test. Circ 30 bbls of H<sub>2</sub>O w KCL 2nd 10 w 10oz Dye, mix & pump 281 lbs of Cement @ 30% Excess @ 15.2" @ 1.27 field or until stopped by command. Drop Plug Displace 38.6 bbls of H<sub>2</sub>O Pump Plug @ 150 psi over lift psi wait 5 min Release psi wash up Rig Down

Arrived w 750 sks of cement 5 gal KCL 32oz Dye 63.5 bbls of Slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS: Softly meeting 5:22 AM Circ 6:50 AM Cement 7:30 AM  
Drop Plug 6:48 AM Displace 6:48 AM

10 bbls	6.0 l/m	230 psi	6:21 AM	Used 250 sks of cement 15% Excess 56.5 bbls of Slurry
20 bbls	6.0 l/m	350 psi	6:23 AM	
30 bbls	3.5 l/m	480 psi	6:25 AM	
38.6 bbls	1.0 l/m	310 psi	6:28 AM	
Bump Plug	580 psi	6:30 AM		

1st w 500 sks of cement 4 gal 1 qt KCL 22oz Dye 11 bbls of Slurry B91K

Michael Magnus AUTHORIZATION TO PROCEED  
DATE 5-17-11