

# 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 # 9285  
LOCATION WCR 51+32  
FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-22-10	Butterball D 19-27D	17	3N	64W	Weld	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENSIGN Rig 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>10:30am</u>		TIME LEFT LOCATION <u>2:00am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>650</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 600</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>640</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

### 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, Per Company Man, Circ 40 bbls H<sub>2</sub>O with KCL + Dye x 10 in 2nd 10 bbls, Mix + pump tell dye is seen then pump tub + 5 bbls slurry at 15.2 lbs 1.27 yield, Drop plug, Displace 38.2 bbls H<sub>2</sub>O, Bump plug at no more than 150 Psi over Lift Ag, Wait 5 min then bleed off Psi, Wash up, Rig down, H<sub>2</sub>O tested good, We have 600 sacks cement, 26 oz Dye, 10 qts KCL

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:20am, Circ 12:40am, Cement 12:47am, Drop plug 1:10am, Displace 1:13am

10 bbls 300 Psi 1:17am 7.0 bbls/m  
20 bbls 420 Psi 1:18am 7.0 bbls/m  
30 bbls 470 Psi 1:20am 6.0 bbls/m  
38.2 bbls 270 Psi 1:23am .8 bbls/m

Bump Plug 420 Psi at 1:23am Psi held for 5 min.  
USED 10% excess = 233 sacks cement, 52.7 bbls slurry  
Left with 367 sacks cement, 16 oz Dye, 6 qts KCL  
7 bbls slurry to the pit

AUTHORIZATION TO PROCEED

TITLE

9-22-10

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.