

BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202
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REF. INVOICE # 9522

LOCATION cr 49-48

FOREMAN Kirk Kallhafer
mike R. Tucker - G. A.

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-30-10	Dinner 0101-19	1	4N	6S	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 7:00pm	TIME LEFT LOCATION 10:30pm

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
12 1/4				
TOTAL DEPTH 586.1	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD 530.24	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 8 7/8	TUBING CONDITION		TUBING	
CASING DEPTH 575.81	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	PACKER DEPTH	[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good		[] PRODUCTION CASING		INITIAL BPM
		[] SQUEEZE CEMENT		FINAL BPM
		[] ACID BREAKDOWN		MINIMUM BPM
		[] ACID STIMULATION		MAXIMUM BPM
		[] ACID SPOTTING		AVERAGE BPM
		[] MISC PUMP		
		[] 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, Pictest, circ 80 bbls 1420 2nd 1000 Dye, mix Pump 248 sks cement at 30% excess at 127 yield at 15.2 lbs cement/cement string 4.5, Release Plug Displace 33.8 bbls 1420, Pump Plug at 150 psi over Lift Psi wait 5 min Release psi, wash up 12.5 Dye 1420 test ok

Arrived w/ 575 sks cement 4 gallons Red 16oz Dye 56 Bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 8:35pm circ 8:46pm cement 8:54pm
Dye Plug 9:12pm Displace 9:12pm

10 Bbls AT 5.5 Bbls/m 9:15pm 370psi used 34% excess
20 Bbls AT 5.5 Bbls/m 9:17pm 440psi used 257 sks cement
30 Bbls AT 2.5 Bbls/m 9:30pm 260psi 57.7 Bbls slurry
33.8 Bbls AT 1.0 Bbls/m 9:34pm 200psi
Bump Plug 9:34pm 360psi

Lift w/ 318 sks cement 3 gallons 1st Red 6oz Dye 13 Bbls Back 15

11-30-10
DATE

Customers hereby acknowledge and specifically agree 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