

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 # 9616

LOCATION cr 44-57

FOREMAN Ken Latho RF

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-17-11	Cedman C22-17	22	4N	64W	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>11:30pm</u>	TIME LEFT LOCATION <u>2:30am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>245</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>695.68</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>740.74</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, Bit test, circ 40 bbls KCL H2O 2nd 10/w Dye mix & Pump 315 SKS cement at 30% excess at 1.27 yield at 152 lbs or until cement stops vs. Release Plug Displace 44.3 BBLs H2O, Pump Plug at 150 psi or 2.18 Bit test 5 min Release Psi, washup Rig Down H2O dead OK

Arrived w/ 875 SKS cement 4 gallons KCL 1 bar Dye 71.1 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 12:15am circ 12:41am cement 1:30am
Drop Plug 1:52am Displace 1:52am
10 BBLs at 5.5 BBLs/m 1:54am 310psi used 30% excess
20 BBLs at 5.5 BBLs/m 1:56am 410psi used 315 SKS
30 BBLs at 5.5 BBLs/m 1:58am 520psi 71.1 BBLs slurry
40 BBLs at 2.5 BBLs/m 2:01am 300psi
44.3 BBLs at 1.0 BBLs/m 2:04am 260psi
Pump Plug 2:04am 400psi

2 P/W / 260 SKS 3 gallons KCL 6oz Dye 13 BBLs Back 15

Michael Magness W.S.S. 2-17-11
AUTHORIZATION TO PROCEED TITLE 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.