

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 9649
LOCATION WCR 464 Z9
FOREMAN Grant Lowe

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-30-11	Five Rivers K09-330	8	4N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign #55</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>5:45 AM</u>	TIME LEFT LOCATION <u>10:45 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>613</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD-563.42</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>605.47</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lbs</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] 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 per Coman, Press test, Circulate 40 bbls H₂O KCL dye x's 16oz in 2nd 10 bbls, Cement mix and pump til dye is seen pump tub only @ 15.2 lbs 1.27 yield, drop plug, displace 35.8 bbls, bump plug @ 150 psi over lift press. Release press wait 5 min, Release press, Wash up Rig down, H₂O tested good
Arrived on location with - 600 sks cement, 10 gts KCL - Dye 320z

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting @ 8:24 am, Circulate @ 8:42 am, Cement @ 8:50 am, drop plug @ 9:06 am, displace @ 9:07 am
10 bbls - 230 psi @ 9:10 am @ 7.0 bbls/min
20 bbls - 400 psi @ 9:12 am @ 7.0 bbls/min
30 bbls - 410 psi @ 9:13 am @ 6.0 bbls/min
35.8 bbls - 250 psi @ 9:16 am @ 1.0 bbls/min
Bump plug @ 9:16 am @ 600 psi, float collar held.
Top job @ 9:13 am used 29 sks 6.55 bbls slurry
Total used on main portion 247 sks 55.86 bbls slurry, 24% excess
Total used 276 sks, 62.42 bbls slurry,
Left with 324 sks cement, 16oz dye, 6 gts KCL, 0 bbls
0 bbls slurry to pit

Grant Lowe

AUTHORIZATION TO PROCEED

TITLE

3-30-11

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