

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 # 10561
LOCATION WCR 55+18
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE <u>11-8-11</u>	WELL NAME <u>Goetz Y 22-06</u>	SECTION <u>22</u>	TWP <u>2N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Ensign Rig 126</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>3:30pm.</u>		TIME LEFT LOCATION <u>7:45pm.</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1085</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1033.81</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1077.37</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. H₂O with KCL, Lead Mix + pump 20% Excess to cover 814' = 306 sks, 71.93 bbls Slurry at 14.8 lbs. 1.32 yield, Tail Mix + pump 0% Excess to cover 271' + shoe = 100 sks, 22.61 bbls. Slurry at 15.2 lbs. 1.27 yield, Drop plug, Displace 65.8 bbls H₂O, Bump plug at 500 Psi over Lift Psi, wait 5 min. then bleed off Psi, Wash up, Rig down, We have 450 sks Lead, 200 sks Tail, 8 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 5:30 pm, Circ 6:01 pm, Cement 6:08 pm to 6:39 pm, Drop Plug 6:40 pm Displace 6:41 pm
10 bbls. 200 Psi 6:43 pm 7.0 bbls/m
20 bbls 310 Psi 6:44 pm 7.0 bbls/m
30 bbls 420 Psi 6:46 pm 7.0 bbls/m
40 bbls 490 Psi 6:48 pm 7.0 bbls/m
50 bbls 600 Psi 6:50 pm 7.0 bbls/m
60 bbls 660 Psi 6:52 pm 6.0 bbls/m
65.8 bbls 480 Psi 6:54 pm 1.0 bbls/m
Bump Plug 1010 Psi at 6:54 pm Float Collar Held avg CEMENT 3.04 bbls/m
USED Lead 20% Excess = 306 sks, 71.93 bbls Slurry, Tail 0% Excess = 100 sks, 22.61 bbls Slurry
Left with 144 sks Lead, 100 sks Tail, 4 Qts KCL
25 bbls Slurry to the Pit

Robert J. [Signature]
AUTHORIZATION TO PROCEED

TITLE

DATE 11-8-11

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.