

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10720
LOCATION WCR 47+16
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-24-12	POWERS X 22-67HN	22	2N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 132</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>9:10 AM</u>	TIME LEFT LOCATION <u>3:30 PM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED	
13 3/4					
TOTAL DEPTH <u>960</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 910.67</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>953.46</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>36 lb</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>					

PRESSURE SUMMARY			TREATMENT RATE		
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	INITIAL BPM	
ANNULUS	psi	5 MIN SIP	psi	FINAL BPM	
MAXIMUM	psi	15 MIN SIP	psi	MINIMUM BPM	
MINIMUM	psi			MAXIMUM BPM	
				AVERAGE BPM	
				HYD HP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Psi Check to 500 Psi, Circ 70 bbls H₂O with KCL + Dye X 16 in 2 1/2" 10 bbls, Mix + pump head at 25% Excess = 377 SKs at 14.8 lbs, 132 yield, ~~Mix + pump~~ To Cover 75', Mix + pump Tail at 0% Excess to Cover 204' + Shore = 100 SKs, at 15.2 lbs, 1.77 yield, Drop Plug, Displace 70.39 bbls H₂O, Bump plug at 150 Psi, OVER Lift B, Wait 5 min. Then bleed off Psi, Wash up, Rig down, We have 540 SKs Lead, 200 SKs Tail, 120 bbls KCL, 32 oz Dye.

JOB SUMMARY 32 oz Dye,
DESCRIPTION OF JOB EVENTS Safety meeting 12:30 pm, Circ 1:08 pm, Cement 1:23 pm to 1:30 pm, Drop Plug 1:51 pm, Displace 1:52 pm Casing Psi Test 2:18 pm to 2:35 pm 1030 Psi to 1000 Psi, 10 bbls 300 Psi, 1:55 pm, 6.0 bbls/pm, 20 bbls 330 Psi, 1:57 pm, 6.0 bbls/pm, 30 bbls 410 Psi, 1:59 pm, 6.0 bbls/pm, 40 bbls 470 Psi, 2:01 pm, 6.0 bbls/pm, 50 bbls 530 Psi, 2:03 pm, 6.0 bbls/pm, 60 bbls 590 Psi, 2:05 pm, 6.0 bbls/pm, 70 bbls 350 Psi, 2:12 pm, 0.4 bbls/pm, Bump Plug 500 Psi, 2:13 pm, USED 25% Excess on Lead 377 SKs, 88.62 bbls Slurry, 0% Excess on Tail 100 SKs, 22 bbls Slurry, 21 bbls Slurry to the Pit, Left with 163 SKs Lead, 100 SKs Tail, 5 bbls KCL, 16 oz Dye

Calvin Reimers
AUTHORIZATION TO PROCEED

WSS

9-24-12
DATE

Customer 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