

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9566
LOCATION WCR 47+50
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-24-10	Ehrlich State PC F3633D	36	5N	65W	Weld	

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>11:15pm</u>	TIME LEFT LOCATION <u>2:45am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>625</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 577.54</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>620</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>2416</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

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi	<input type="checkbox"/> MISC PUMP	
MINIMUM psi		<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company MAN, CIRC 30666, 1.27 yield, Drop plug, Displace 36.7 bbls H₂O, Bump plug at NO MORE THEN 150 PSI OVER LIFT PSI, Wait 5 min. then bleed off PSI, Washup, Rig down, H₂O Tested good, We have 650 SACKS CEMENT, 32 oz. Dye, 12 Qts KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 12:52am, CIRC 1:20am, Cement 1:34am to 1:47am
Drop plug 1:50am, Displace 1:51am
10666 200 Psi 1:55am 7.0 bbls/m
20666 300 Psi 1:57am 7.0 bbls/m
30666 310 Psi 1:59am 6.0 bbls/m
36.7666 200 Psi 2:07am 1.0 bbls/m
Bump Plug 360 Psi at 2:07am Psi held for 5 min
Aug Cement 3.79 bbls/m
USED 7% Excess = 218 SACKS, 493 bbls Slurry
Left with 432 SACKS, 16 oz Dye, 9 Qts KCL

4 bbls Slurry To The P.T

[Signature] CO MAN 12-24-10
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