

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9371
LOCATION WCR 74+63
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-13-10	NCLP PC 04-13	4	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade Rig 22</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:40 pm.</u>	TIME LEFT LOCATION <u>3:15 am.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>584</u>	TUBING DEPTH	SHOTS/FT			
<u>PBTD 535.15</u>	TUBING WEIGHT	OPEN HOLE			
CASING SIZE <u>8 5/8</u>	TUBING CONDITION				
CASING DEPTH <u>578.73</u>		TREATMENT VIA			

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM	
MINIMUM psi			<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	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Circ 30 bbls H₂O with KCL + Dye x 16 in 2 1/2" 1066
Mix + pump tell Dye is seen then pump tub only, at 15.2 lbs 12.7 yield, Drop plug, Displace 34 bbls H₂O,
Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up,
Rig down, H₂O Tested good, We have 750 Sacks cement, 26 oz. Dye, 15 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 1:41 am Circ 2:01 am, CEMENT 2:07 am to 2:22 am
Drop plug 2:24 am, Displace 2:25 am

10 bbls 320 Psi, 2:28 am 7.0 bbls/min
20 bbls 410 Psi, 2:29 am 7.0 bbls/min
30 bbls 360 Psi, 2:32 am 4.5 bbls/min
34 bbls 280 Psi, 2:34 am 1.0 bbls/min
Bump Plug 460 Psi at 2:34 am Psi held for 5 min
Avg Cement 4.08 bbls/min
USED 4370 Excess = 271 Sacks, 6129 bbls Slurry
Left with 479 Sacks cement, 10 oz. Dye, 12 Qts KCL
12 bbls Slurry To The Pit

AUTHORIZATION TO PROCEED

TITLE

12-13-10

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