

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 6930
LOCATION WCR 89+134
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-3-11	Loyd PC GD 33-13	33	12N	61W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>SAXON Rig 143</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:05 AM</u>	TIME LEFT LOCATION <u>12:15 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1280</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1238.49</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1276.5</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>2416</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
			<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
			<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
			<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 30% Excess to Cover 1010' = 321 sks, 96.61 bbls Slurry at 13.1 lbs. 1.69 yield, Tail mix + pump 0% Excess to Cover 270' + shoe = 100 sks, 22.61 bbls Slurry at 15.2 lbs. 1.27 yield, Drop plug, Displace 78.8 bbls H₂O, Bump plug at 500 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, We have 700 sks cement, 26 oz Dye, 20 lbs KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 9:35 am, Circ 10' 11 am, Cement 10:17 am, to 10:48 am
Drop Plug 10:50 am, Displace 10:51 am
10 bbls 260 Psi, 10:54 am 7.0 bbls/m 50 bbls 430 Psi 11:01 am 7.0 bbls/m
20 bbls 260 Psi, 10:56 am 7.0 bbls/m 60 bbls 430 Psi 11:05 am 5.0 bbls/m
30 bbls 300 Psi, 10:58 am 7.0 bbls/m 70 bbls 510 Psi 11:09 am 3.5 bbls/m
40 bbls 390 Psi 10:59 am 7.0 bbls/m 78.8 bbls 400 Psi 11:15 am 1.0 bbls/m
Bump Plug 900 Psi at 11:15 am Float Collar Did NOT Hold
PER COMPANY MAN TRYED 2 times then Psi up to 100 Psi over Lift Psi = 340
Left with 279 SKs cement 26 oz Dye, 16 lbs KCL

27 bbls Slurry To The Pit

[Signature] AUTHORIZATION TO PROCEED Coman TITLE 3-3-11 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