

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10366

LOCATION WCR 35+12

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-11-11	CROISSANT USK WW 11-17D	11	1N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN Rig 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>9:20 AM</u>	TIME LEFT LOCATION <u>1:30 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1264</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD <u>1219.52</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 3/8</u>	TUBING CONDITION			TUBING	

CASING DEPTH <u>1257.07</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 40 bbls H₂O w/ the KCL, Lead Mix + pump 20% Excess to Cover 993 = 373 sks, 87.68 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 776 bbls H₂O, Bump plug at 500 Psi over Lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H₂O tested good, We have 400 sks Lead, 200 sks Tail, 12 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting, 11:33 am, Circ 12:00 noon, Cement 12:06 pm to 12:34 pm

Drop Plug 12:36 pm, Displace 12:38 pm

<u>10 bbls 250 Psi 12:40 pm 70 bbls/m</u>	<u>60 bbls 460 Psi 12:48 pm 70 bbls/m</u>
<u>20 bbls 340 Psi 12:42 pm 70 bbls/m</u>	<u>70 bbls 700 Psi 12:50 pm 60 bbls/m</u>
<u>30 bbls 430 Psi 12:43 pm 70 bbls/m</u>	<u>776 bbls 500 Psi 12:53 pm 10 bbls/m</u>
<u>40 bbls 550 Psi 12:45 pm 70 bbls/m</u>	<u>Bump Plug 1120 Psi at 12:53 pm</u>
<u>50 bbls 600 Psi 12:47 pm 70 bbls/m</u>	<u>Flat Collar Held</u>

USED 20% Excess on Lead = 373.5 sks, 87.68 bbls Slurry

0% Excess on Tail = 100 sks, 22.61 bbls Slurry

Left with 27 sks Lead, 100 sks Tail, 8 Qts KCL

Avg Cement 3.93 bbls/m.

30 bbls Slurry To The P.T

[Signature]
AUTHORIZATION TO PROCEED

W.S.S
TITLE

9-11-11
DATE