

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10389
 LOCATION WCR 31+6
 FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-8-11	Ritchey USX WW 27-020	27	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>4:40 am.</u>	TIME LEFT LOCATION <u>11:45 am.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1471</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTD 1423.32</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>1463.85</u>	TREATMENT VIA		TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb.</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	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<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	

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 20% Excess to COVER 1200' = 451 SKS, 106.02 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 90.6 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 451 SKS LEAD, 200 SKS TAIL, 15 QTS KCL,

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety Meeting 9:22 am, Circ 9:48 am, Cement 9:55 am to 10:42 am
Drop Plug 10:43 am, Displace 10:44 am

<u>10 bbls 250 Psi 10:46 am 7.0 bbls/m</u>	<u>60 bbls 670 Psi 10:54 am 7.0 bbls/m</u>
<u>20 bbls 290 Psi 10:48 am 7.0 bbls/m</u>	<u>70 bbls 730 Psi 10:55 am 7.0 bbls/m</u>
<u>30 bbls 400 Psi 10:49 am 7.0 bbls/m</u>	<u>80 bbls 800 Psi 10:57 am 7.0 bbls/m</u>
<u>40 bbls 500 Psi 10:51 am 7.0 bbls/m</u>	<u>90.6 bbls 700 Psi 10:59 am 1.0 bbls/m</u>
<u>50 bbls 600 Psi 10:52 am 7.0 bbls/m</u>	

Bump Plug 1420 Psi at 10:59 am Float Collar Held
USED Lead 451 SKS, 106.02 bbls Slurry, Tail 100 SKS 22.61 bbls Slurry
Avg cement 2.73 bbls/m
Left with 0 SKS LEAD, 100 SKS TAIL, 11 QTS KCL
35 bbls Slurry To The Pit

Mark Maguire AUTHORIZATION TO PROCEED TITLE 10-8-11 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