

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9353
 LOCATION WCR 47+34 1/2
 FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-5-10	Stroh H 12-99HZ	12	3N	65W	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>1:45pm</u>	TIME LEFT LOCATION <u>3:15pm</u>

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
<u>13 3/4</u>				
TOTAL DEPTH <u>700</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
<u>PBTD 648.44</u>	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING	

		TYPE OF TREATMENT	TREATMENT RATE
CASING DEPTH <u>691.64</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING WEIGHT <u>3616.</u>		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
CASING CONDITION <u>Good</u>		<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 50 bbls. H₂O with KCL + Dye x 10 in 2nd 10 bbls. Mix + pump tell good Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Drop plug, Displace 50.1 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 700 SACKS CEMENT, 320Z. DYE, 15 QTS KCL,

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS Safety Meeting 1:24pm, Circ 1:48pm, Cement 2:00pm to 2:16pm,
Drop plug 2:19pm, Displace 2:21pm.
10 bbls 280 Psi 2:24pm 7.0 bbls/m
20 bbls. 310 Psi 2:25pm 7.0 bbls/m
30 bbls 400 Psi 2:27pm 7.0 bbls/m
40 bbls. 470 Psi 2:28pm 7.0 bbls/m
50.1 bbls. 220 Psi 2:32pm 1.0 bbls/m
Bump Plug 800 Psi at 2:32pm Psi held for 5 min
Left with 410 SACKS CEMENT, 220Z DYE, 10 QTS KCL
Avg mix 4.09 bbls/m 16 min.

10 bbls Slurry To the Pit

[Signature] AUTHORIZATION TO PROCEED
Co-Man TITLE
11-5-10 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.