

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9369
LOCATION WCR 50+41
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-10-10	STROHAUER F 32-210	32	5N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:50 pm.</u>	TIME LEFT LOCATION <u>9:30 pm.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>573</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 523.52</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>567.12</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 30 bbls H₂O with KCL + Dye x 16 in 2" IDH, Mix + pump Tell Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Drop plug, Displace 33.3 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, 32 oz. Dye, 15 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 7:45 pm, Circ 8:01 pm, CEMENT 8:07 pm to 8:30 pm
Drop plug 8:32 pm, Displace 8:33 pm

10 bbls 340 Psi 8:36 pm 7.0 bbls/m
20 bbls 400 Psi 8:37 pm 7.0 bbls/m
30 bbls 320 Psi 8:39 pm 4.5 bbls/m
33.3 bbls 260 Psi 8:41 pm 1.0 bbls/m

Bump Plug 460 Psi at 8:41 pm Psi held for 5 min
USED 130 % EXCESS = 429 SACKS, 97 bbls SLURRY
Avg CEMENT 4.21 bbls/m
Left with 321 SACKS CEMENT, 16 oz Dye, 12 qts KCL
8 bbls SLURRY TO THE PIT

AUTHORIZATION TO PROCEED

TITLE

12-10-10

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.