

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE #

9359

LOCATION

Hwy 85 + Hwy 66

FOREMAN

Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-15-10	Sherwood L 30-290	30	3N	66W	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign Rig 128
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	4:30	TIME LEFT LOCATION	10:45 pm.

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	12 1/4	TUBING SIZE		THEORETICAL	INSTRUCTED
TOTAL DEPTH	618'	TUBING DEPTH		SURFACE PIPE ANNULUS LONG	
PBTD	567.15	TUBING WEIGHT		STRING	
CASING SIZE	8 5/8	TUBING CONDITION		TUBING	
CASING DEPTH	609.25	TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT	24 lb.	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION	Good			<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
FINAL DISPLACEMENT	psi	ISIP
ANNULUS	psi	5 MIN SIP
MAXIMUM	psi	15 MIN SIP
MINIMUM	psi	

INSTRUCTIONS PRIOR TO JOB: Rig up, Safety meeting, Per Company Man, Circ 30 bbls. H₂O with KCL + Dyex 16 in 2nd 10 bbls, Mix + pump till Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Drop plug, Displace 36.1 bbls. H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min. then bleed off Psi, Washup, Rig down, H₂O Tested good, We have 700 sacks cement, 32 oz Dye, 18 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 8:54 pm., Circ 9:18 pm, Cement 9:25 pm to 9:44 pm.
Drop plug 9:46 pm, Displace 9:47 pm.
10 bbls 350 Psi 9:50 pm 7.0 bbls/m
20 bbls 400 Psi 9:51 pm 7.0 bbls/m
30 bbls 400 Psi 9:54 pm 6.0 bbls/m
36.1 bbls 250 Psi 9:57 pm 1.0 bbls/m
Bump Plug 450 Psi at 9:57 pm. Psi held for 5 min.
USED 70% EXCESS = 343 Sacks, 77.58 bbls Slurry
Avg. Cement 4.08 bbls/m.
Left with 357 Sacks cement, 16 oz. Dye, 15 qts KCL
11 bbls Slurry To The Pit

[Signature]

AUTHORIZATION TO PROCEED

TITLE

11-15-10

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.