

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8964
LOCATION Box 34 + 24th St.
FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-31-10	Emma F 15-18D	15	5N	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>8:45pm</u>	TIME LEFT LOCATION <u>12:45pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>553.2</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 514.13</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>549.72</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>32 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 4.08	

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 in 2nd 10 bbls, Mix pump at 152 lb. 1.27 yield tell Dye is seen then pump tub only, Drop plug, Displace 313 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, No min and no max excess, We have 600 sacks cement, 26 oz Dye, 20 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 11:01pm, Circ 11:19pm, Cement 11:31pm, Drop plug 11:54pm, Displace 11:55pm

10 bbls 420 Psi 11:58pm 70 bbls/m
20 bbls 510 Psi 12:00pm 70 bbls/m
30 bbls 280 Psi 12:03pm 1.0 bbls/m
313 bbls 280 Psi 12:05pm .8 bbls/m

Bump Plug 400 Psi at 12:05pm
USED 32% excess = 238 sacks cement, 53.83 bbls slurry
Left with 362 sacks cement, 16 oz Dye, 17 qts KCL
8 bbls slurry to the pit

Mike Nohd
AUTHORIZATION TO PROCEED

CONSULTANT
TITLE

3-31-10
DATE