

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10191

LOCATION WCR 34+51

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-28-11	LDS D 17-32 D	17	3N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign Rig 126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>7:25 pm</u>	TIME LEFT LOCATION <u>12:15 am.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>708</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 658.25</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>702.10</u>		TREATMENT VIA			
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH				
CASING CONDITION <u>Good</u>					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM		
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM		
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM		
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM		
MINIMUM psi			<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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PER Company Man, Circ 40 bbls H₂O with KCL + Dye x 16 in 2 1/2 bbls, Mix + pump tell Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Don't go over 40% Excess without TALKING to Company Man, Drop plug, Displace 41.9 bbls H₂O, Pump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O Tested good, We have 700 sks, 32 oz Dye, 22 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 10:33 pm, Circ 10:56 pm, Cement 11:05 pm to 11:17 pm
Drop Plug 11:19 pm, Displace 11:20 pm
10 bbls 370 Psi 11:24 pm 7.0 bbls/m
20 bbls 490 Psi 11:25 pm 7.0 bbls/m
30 bbls 600 Psi 11:27 pm 7.0 bbls/m
40 bbls 340 Psi 11:30 pm 1.0 bbls/m
41.9 bbls 340 Psi 11:31 pm 1.0 bbls/m
Bump Plug 510 Psi at 11:31 pm Float Collar Held
Avg Cement 4.99 bbls/m
USED 15% Excess = 265 sks, 59.93 bbls Slurry
Left with 435 sks, 10 oz Dye, 18 Qts KCL
7 bbls Slurry To The P.T

[Signature] CO-MAN 7-28-11
AUTHORIZATION TO PROCEED TITLE DATE