

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10178

LOCATION 70 Ranch

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
7-13-11	70 Ranch BB 21-67HN	21	5N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>H&P Rig 315</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>5:00 AM</u>	TIME LEFT LOCATION <u>1:30 PM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>640</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 592.73</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>634.86</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>36 lb.</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
			BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM 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 65 bbls H₂O, 10 bbls with 75 lb SAPP, 10 bbls with 1/2 gal Soap, 45 bbls with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump till Dye is seen then 10 bbls Slurry + Tub, Don't go over 30% Excess without Talking to Company Man, Drop plug, Displace 45.8 bbls H₂O, Bump plug at 500 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 10 qts KCL, 100 lb SAPP, 3 gal Soap,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:20 am, Circ 11:17 am, Cement 11:30 am to 11:51 am
Drop Plug 11:53 am, Displace 11:54 am
10 bbls 480 Psi 11:58 am 7.0 bbls/m AVG CEMENT 480 Psi
20 bbls 560 Psi 11:59 am 7.0 bbls/m AVG Displace 580 Psi
30 bbls 600 Psi 12:01 am 7.0 bbls/m AVG CEMENT 3.86 bbls/m
40 bbls 480 Psi 12:15 am 5.0 bbls/m AVG Displace 6.0 bbls/m
45.8 bbls 300 Psi 12:17 am 1.0 bbls/m
Bump Plug 850 Psi at 12:17 am Float Collar Held
USED 30% Excess = 359 sks, 81.2 bbls Slurry
Left with 341 sks, 16 oz. Dye, 5 qts KCL, 25 lb SAPP, 2 1/2 gal Soap,
14 bbls Slurry To The Pit

7/13/11 NSS 7-13-11
 AUTHORIZATION TO PROCEED TITLE DATE