

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10207

LOCATION WCR 28+13

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-24-11	VARRA P 31-74HN	31	3N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>M&P Rig 323</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>12:55 pm</u>	TIME LEFT LOCATION <u>6:30 AM 8-25-11</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>725</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 669.12</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>714.22</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>Good</u>			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
PRESSURE SUMMARY			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> MISC PUMP		
MINIMUM psi			<input type="checkbox"/> OTHER	HYD HP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, CIRC 50 bbls H₂O with KCL + Dye x 16 in 2nd 10 bbls, Mix + pump tell good Dye is seen then mix 10 bbls Slurry + Tub at 15.2 lbs. 1.27 yield, Don't Go over 50% Excess without Talking to Company Man, Drop plug, Displace 51.7 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 650 sks, 32 oz Dye 10 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 3:55 AM, CIRC 4:31 AM, CEMENT 4:43 AM to 5:08 AM

Drop Plug 5:09 AM, Displace 5:10 AM

10 bbls 380 Psi 5:14 AM 7.0 bbls/min

20 bbls 450 Psi 5:15 AM 7.0 bbls/min

30 bbls 500 Psi 5:20 AM 7.0 bbls/min

40 bbls 500 Psi 5:25 AM 7.0 bbls/min

50 bbls 300 Psi 5:28 AM 1.0 bbls/min

51.7 bbls 300 Psi 5:30 AM 1.0 bbls/min

Bump Plug 770 Psi AT 5:30 AM, Float Collar Held

USED 50% EXCESS = 451 SKS, 102 bbls/slurry, Avg Cement 4.08 bbls/min

Left with 195 SKS, 16 oz Dye, 5 qts KCL

26 bbls Slurry TO The Pit

[Signature]
AUTHORIZATION TO PROCEED

TITLE

8-24-11

DATE