

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10296

LOCATION WCR 47-48

FOREMAN Mik Rosa

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-24-11	Lower Latham PC G-12-49 HW	2	4W	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>HHP 315</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>7:15 AM</u>	TIME LEFT LOCATION <u>5:45</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>763</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 713.64</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>758.38</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lbs</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	

PRESSURE SUMMARY					
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 HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, PSE Test, Circ 55 BBls H2O, 10 BBls with SAPP, 2nd 10 BBls soap + Dye
mix + pump 411 SKs cement (30% excess) yield 1:27, 15.2 lbs, no 35% excess per company man, or until stopped per
company man. Release plug + Displace 55.1 BBls H2O Bump Plug, 150 PSE over 1st PSE, wait 5 min Release PSE, Wash up
Rig down H2O Test Good

Arrived with 575 SKs Cement 4 gal KEL, 1602 Dye, 100 lbs SAPP, 1 gal Soap

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:15 PM Circulate 4:04 PM Cement 4:16 PM

Drop Plug 4:45 PM Displace 4:45 PM

10 BBls at 5-0 ^{Bbl/m} 4:48 250 PSE	Used 21% Excess
20 BBls at 5-0 BBls/m 4:50 PM 290 PSE	Used 385 SKs Cement
30 BBls at 5-0 BBls/m 4:52 PM 410 PSE	87.0 Slurry
40 BBls at 5-0 BBls/m 4:54 PM 460 PSE	
50 BBls at 3-5 BBls/m 4:56 PM 4100 PSE	
55.1 BBls at 10 BBls/m 4:58 PM 4150 PSE	
Bump Plug 4:58 650 PSE	

Left with 190 SKs Cement 2 gal 3gts, Dye, 25 lbs SAPP 1/2 gal Soap 13 BBls slurry to surface

[Signature]

AUTHORIZATION TO PROCEED

WSS

TITLE

8-24-11

DATE