

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 10202

LOCATION WCR 47+48

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-13-11	Lower Laythan PC G11-69HN	2	4N	65W	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>1:45 pm.</u>	TIME LEFT LOCATION <u>11:00 pm.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>761</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 713.19</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 7/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>755.92</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>3616</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 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, Psi check 1000 Psi, Mud Flush, 10 bbls H₂O with 75 lbs. Sapp, 10 bbls H₂O with 1/2 gal soap + 16 oz Dye, 35 bbls H₂O with KCL, Mix + pump tell Dye is seen then mix 10 bbls Slurry + Tub, Don't go over 30% Excess without Talking to Company Man, Drop plug, Displace 55.1 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 709 sks, 32 oz Dye, 15 Qts KCL, 75 lbs Sapp, 2 gals Soap,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 8:05 pm, Mud Flush 8:28 pm, Cement 8:48 pm, to 9:16 pm
Drop Plug 9:19 pm, Displace 9:23 pm
10 bbls 470 Psi 9:26 pm 7.0 bbls/m Avg Cement 346 bbls/m
20 bbls 540 Psi 9:28 pm 7.0 bbls/m Avg Displace 6.0 bbls/m
30 bbls 610 Psi 9:36 pm 6.0 bbls/m Avg Cement 350 Psi
40 bbls 680 Psi 9:38 pm 6.0 bbls/m Avg Displace 550 Psi
50 bbls 530 Psi 9:40 pm 4.5 bbls/m Rig Reciprocate Casing on Mud Flush, Cementing and
55.1 bbls 370 Psi 9:41 pm 1.0 bbls/m Displace tell cement came to surface, then Rig Chained Head
Bump Plug 880 Psi at 9:41 pm. Float Collar Held Down, For Gas Migration
USED 30% Excess = 429 sks, 97 bbls Slurry USED 8 CENTRATIZERS AND
Left with 280 sks, 16 oz Dye, 11 Qts KCL, 1 1/2 gals Soap 1 Basket at Top of Landing
23 bbls Slurry To The P-T Joint

MMH
AUTHORIZATION TO PROCEED

NSS
TITLE

8-13-11
DATE