

# 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 # 10381

LOCATION WCR 31+4

FOREMAN Calvin Reimers

## TREATMENT REPORT

DATE <u>9-27-11</u>	WELL NAME <u>Ritchey USX WW 27-19D</u>	SECTION <u>27</u>	TWP <u>1N</u>	RGE <u>6WW</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Ensign Rig 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>9:25pm</u>		TIME LEFT LOCATION <u>4:15pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>1473</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 1423.30</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1466.73</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24lb</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, Circ 40 bbls H<sub>2</sub>O with KCL, Lead Mix + pump 20% Excess to Cover 120' = 451 sks, 106.02 bbls Slurry at 14.31 bbls 1.32 yield, Tail Mix + pump 0% Excess to Cover 271' + Shoe = 100 sks, 22.61 bbls Slurry at 15.21 bbls 1.27 yield, Drop plug, Displace 90 bbls H<sub>2</sub>O, Bump plug at 500 Psi over Lift P, Wait 5 min then bleed off P, Washing, Rig down, H<sub>2</sub>O Tested good, We have 451 sks Lead, 200 sks Tail, 23 QTS KCL,

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety Meeting 1:55pm, Circ 2.16pm, Cement 2:22pm to 3:15pm, Drop plug 3:16pm, Displace 3:18pm  
106 bbls 280 Psi 3:20pm 7.0 bbls/min 60 bbls 700 Psi 3:28pm 7.0 bbls/min  
20 bbls 310 Psi 3:22pm 7.0 bbls/min 70 bbls 720 Psi 3:29pm 7.0 bbls/min  
30 bbls 400 Psi 3:23pm 7.8 bbls/min 80 bbls 800 Psi 3:31pm 7.0 bbls/min  
40 bbls 500 Psi 3:25pm 7.0 bbls/min 90 bbls 580 Psi 3:34pm 1.0 bbls/min  
50 bbls 600 Psi 3:26pm 7.0 bbls/min  
Bump Plug 1120 Psi at 3:34pm Float Collar Held  
USED Lead 20% Excess = 451 sks, 106.02 bbls Slurry, Tail 0% Excess = 100 sks, 22.61 bbls Slurry  
Avg Cement 2.25 bbls/min  
Left with 100 sks Tail, 19 QTS KCL

30 bbls, Slurry To The P.T

Michael Magner  
AUTHORIZATION TO PROCEED

TITLE

9-27-11

DATE