

# BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 10132

LOCATION WCR 31+22

FOREMAN COLIN REIMERS

## TREATMENT REPORT

DATE 7-20-11	WELL NAME CANNON W 15-18D	SECTION 15	TWP 2N	RGE 66W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign Rig 12.8				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:50 PM		TIME LEFT LOCATION 2:45 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1007	TUBING DEPTH	SHOTS FT	SURFACE PIPE ANNULUS LONG		
FBTD 966.04	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 1004.01		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			<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 OF 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, Ser Company Man, Ps. check 1000 Psi, Circ 60 bbls H<sub>2</sub>O with KCL + Dyex II in 2nd 10 bbls, Lead, Mix pump 20% Excess = 277 sks, 65.12 bbls Slurry to cover 736' Tail, Mix pump 0% Excess = 100 sks, 22.61 bbls Slurry to cover 271' + shoe, Drop plug, Displace 61.5 bbls H<sub>2</sub>O, Bump plug at 500 Psi over lift Ps, Wait 5 min then bleed off Ps, Wash up, Rig down, H<sub>2</sub>O Tested good, we have 400 sks Lead, 200 sks Tail, 3200 Dyex, 17 Q1s KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting @ 1:00 AM Circulate @ 1:09 AM Cement @ 1:19 to 1:45 AM

Drop plug @ 1:48 AM, Displace @ 1:50 AM

10 bbls @ 280 psi @ 1:51 AM @ 7.0 bbls/min

20 bbls @ 300 psi @ 1:53 AM @ 7.0 bbls/min

30 bbls @ 390 psi @ 1:54 AM @ 7.0 bbls/min

40 bbls @ 490 psi @ 1:56 AM @ 7.0 bbls/min

50 bbls @ 580 psi @ 1:57 AM @ 7.0 bbls/min

60 bbls @ 480 psi @ 1:58 AM @ 2.0 bbls/min

61.5 bbls @ 450 psi @ 1:59 AM @ 1.0 bbls/min

Bump plug @ 200 psi @ 2:01 AM Float collar held.

20% Excess lead

0% Excess tail

277 sacks, Neat

100 sacks BFW III 3% tail

65.12 bbls slurry lead

22.61 bbls slurry tail

8 bbls to pit @ 3 1/4 sks

(Paul W. Dean)

Consultant

7-20-11

AUTHORIZATION TO PROCEED

TITLE

DATE

Customer hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.