

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10148  
LOCATION 76 & 55  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE <b>7-15-11</b>	WELL NAME <b>Howard USX A09-15D</b>	SECTION <b>9</b>	TWP <b>6N</b>	RGE <b>64W</b>	COUNTY <b>Weld</b>	FORMATION
CHARGE TO <b>Noble</b>		OWNER				
MAILING ADDRESS		OPERATOR <b>Noble</b>				
CITY		CONTRACTOR <b>Saxon #143</b>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <b>5:30 AM</b>		TIME LEFT LOCATION <b>8:00 AM</b>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <b>12 1/4</b>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <b>720</b>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <b>666</b>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <b>8 5/8</b>	TUBING CONDITION		TUBING		
CASING DEPTH <b>712</b>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <b>24 lbs</b>	PACKER DEPTH		[ ] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <b>Good</b>			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SQUEEZE CEMENT		FINAL BPM
			[ ] ACID BREAKDOWN		MINIMUM BPM
			[ ] ACID STIMULATION		MAXIMUM BPM
			[ ] ACID SPOTTING		AVERAGE BPM
			[ ] MISC PUMP		
			[ ] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB **Rig up, Safety meeting per Co. Man. Press test to 500psi. Circulate 40 bbls H<sub>2</sub>O/KCL with dye x's 100z in 2<sup>nd</sup> 5 bbls. Mix and pump Cement @ 15.2 density @ 1.27 yield until dye is seen, pump tub only. Drop plug displace, 42.4 bbls bump plug @ 150 psi over lift press. Wait 5 min, release press. Wash up Rig down, H<sub>2</sub>O tested good.**

**Arrived on location with 620 sks, 320z dye, 11 gals KCL.**

JOB SUMMARY **Safety meeting @ 6:00 AM. Circulate @ 6:38 AM. Cement @ 6:48 to 7:01 AM. Drop**

DESCRIPTION OF JOB EVENTS **plug @ 7:02 AM. Displace @ 7:04 AM**

<b>10 bbls @ 280 psi @ 7:05 AM @ 7.0 bbls/min</b>	<b>0% EXCESS</b>
<b>20 bbls @ 300 psi @ 7:06 AM @ 7.0 bbls/min</b>	<b>234 Sacks</b>
<b>30 bbls @ 400 psi @ 7:08 AM @ 7.0 bbls/min</b>	<b>53.3 bbls slurry</b>
<b>40 bbls @ 300 psi @ 7:10 AM @ 5.0 bbls/min</b>	<b>3 bbls to pit</b>
<b>42.4 bbls @ 300 psi @ 7:11 AM @ 1.0 bbl/min</b>	
<b>Bump plug @ 450 psi @ 7:12 AM. Float collar held</b>	

**Left location with 386 sks, 220z dye, 7 gals KCL**

**[Signature]** AUTHORIZATION TO PROCEED **Co man** TITLE **7-17-11** DATE