

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10131  
LOCATION 70455-  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-19-11	Howard USX A09-19	9	6N	64W	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Saxon Rig #143
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	3:55pm	TIME LEFT LOCATION	6:30pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	12 1/4	TUBING SIZE		THEORETICAL	INSTRUCTED
TOTAL DEPTH	715	TUBING DEPTH			
PBTD	694.73	PERFORATIONS			
CASING SIZE	8 5/8	SHOTS/FT			
CASING DEPTH	711.43	OPEN HOLE			
CASING WEIGHT	24 lbs	TUBING WEIGHT			
CASING CONDITION	good	TUBING CONDITION			

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[ ] SURFACE PIPE	BREAKDOWN BPM	
FINAL DISPLACEMENT	psi	ISIP	psi	[ ] PRODUCTION CASING	INITIAL BPM	
ANNULUS	psi	5 MIN SIP	psi	[ ] SOEZE CEMENT	FINAL BPM	
MAXIMUM	psi	15 MIN SIP	psi	[ ] ACID BREAKDOWN	MINIMUM BPM	
MINIMUM	psi			[ ] 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 5 16 oz in 2nd 50 bbls. 50 bbls Cement @ 15.2 density @ 1.27 yield mix and pump til dye is seen pump tub only. Drop plug displace 44.2 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 700 sks, 32 oz dye, 10 gts KCL

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting @ 4:40pm. Circulate @ 5:13pm. Cement 5:20 to 5:36  
Drop plug @ 5:37pm, displace @ 5:38pm  
10 bbls @ 220 psi @ 5:37pm @ 7.0 bbls/min 0% Excess  
20 bbls @ 300 psi @ 5:38pm @ 7.0 bbls/min 233 sks  
30 bbls @ 420 psi @ 5:40pm @ 7.0 bbls/min 52.7 bbls slurry  
40 bbls @ 400 psi @ 5:41pm @ 6.0 bbls/min 7 bbls to pit  
44.2 bbls @ 450 psi @ 5:43pm @ 1.0 bbls/min  
Bump plug @ 5:45pm @ 600 psi

left location with 467 sks, 16 oz dye, 6 gts KCL

[Signature] AUTHORIZATION TO PROCEED  
Co man TITLE  
6-19-11 DATE