

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10269  
LOCATION 31851  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-14-11	Horton D18-20D	18	3N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign #126</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:50am</u>	TIME LEFT LOCATION <u>6:00am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>763</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD- <u>709.81</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>755.50</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24lbs</u>	PACKER DEPTH		[ ] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[ ] PRODUCTION CASING		INITIAL BPM
			[ ] SQUEEZE CEMENT		FINAL BPM
			[ ] ACID BREAKDOWN		MINIMUM BPM
			[ ] ACID STIMULATION		MAXIMUM BPM
			[ ] ACID SPOTTING		AVERAGE BPM
			[ ] MISC PUMP		
			[ ] OTHER		HYD IHP = 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 Comm. 500psi test, Circulate 50 bbls H<sub>2</sub>O/KEL with dye x's 16oz in 2nd 10bbls, Mixard pump Cement @ 15.2 density @ 1.27 yield until dye is seen then pump tub only, not to exceed 40% excess without consulting Comm. Drop plug, displace 45.2 bbls pump plug @ 150psi over lift pres. wait 5min release press Washup Rig down, H<sub>2</sub>O test good.  
Arrival on location with 700 sks, 32oz dye, 16gls KEL

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting @ 4:00am Circulate @ 4:35 Cement @ 4:43 to 4:59am, Drop plug @ 5:01am, Displace @ 5:02am,  
10 bbls @ 210 psi @ 5:04am @ 7.0 bbls/min  
20 bbls @ 300 psi @ 5:05am @ 7.0 bbls/min  
30 bbls @ 400 psi @ 5:07am @ 7.0 bbls/min  
40 bbls @ 470 psi @ 5:09am @ 5.0 bbls/min  
45.2 bbls @ 350 psi @ 5:10am @ 1.0 bbls/min  
Pump plug @ 500psi @ 5:11am  
Float collar held.

0% Excess  
248 sacks  
56.1 bbls slurry  
9 bbls to pit.

Left location with 452 sks, 16oz dye, 11gls KEL

Robert L R

AUTHORIZATION TO PROCEED

TITLE

DATE