

# 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 # 10263  
LOCATION 31454  
FOREMAN Grant Lowe

## TREATMENT REPORT

DATE 8-9-11	WELL NAME Horton D18-ZZD	SECTION 18	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign #126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 11:15pm		TIME LEFT LOCATION 2:45am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 753	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 700.29	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 746		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[ ] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[ ] 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

### 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 Co. mgr. Press test 500psi. Circulate 40 bbls H<sub>2</sub>O/KEL with dye x's 16oz 200 10bbls mix grd pump cement @ 15.2 density @ 1.27 yield until dye is seen, pump tub only, not to exceed 40% excess without consulting Co. mgr. Drop plug, displace 44.6 bbls, bump plug @ 150psi over lift press. Wait 5min. release press. Washup. Rig down. H<sub>2</sub>O test & good. Arrived on location with 700 sks, 32oz dye, 10 gals KEL.

### JOB SUMMARY

#### DESCRIPTION OF JOB EVENTS

Safety meeting @ 1:00am, Circ @ 128am, Cement @ 1:35am to 1:49am, Drop plug @ 1:51am, Displace @ 1:52am  
10bbls @ 250 psi @ 1:53am @ 7.0 bbls/min 4% Excess  
20 bbls @ 280 psi @ 1:55am @ 7.0 bbls/min 254 sacks  
30 bbls @ 380 psi @ 1:57am @ 7.0 bbls/min 57.5 bbls slurry  
40 bbls @ 310 psi @ 1:59am @ 3.0 bbls/min 8 bbls to pit  
44.6 bbls @ 320 psi @ 2:00am @ 1.04 bbls/min  
Bump plug @ 2:00am. Float collar held.

Left location with 446 sks, 16oz dye, 6 gals KEL

*[Signature]*  
AUTHORIZATION TO PROCEED

CO-MAN  
TITLE

8/10/11  
DATE