

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 4524

LOCATION 1-74-65

FOREMAN Rick Kallio
Mike R. Tucker, Co., A

TREATMENT REPORT

DATE 12-4-10	WELL NAME NCLP PL AA04-11	SECTION 4	TWP 6N	RGE 63W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cade 22				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 8:00am		TIME LEFT LOCATION 12:00pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 575.3	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 529	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 569		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	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, Psi test, circ 30 BBLs H2O 200 Lbw/Dye, mix & Pump 244
SLs cement at 30% excess at 11:27 yield at 1512 lbs cement. 11 cement stops, Release Plug
Displace 336 BBLs H2O, Pump Plug at 150 psi, circ 151 BBLs, 5 min Release Psi wash up
Rig down
Arrived w/ 575 SLs cement 4 gallons Kcl 16oz Dye 54.9 BBLs slurry
H2O Test OK

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 10:43am Circ 10:55pm cement 11:03am
Drop Plug 11:21am Displace 11:21am

10 BBLs at 5.5 BBLs/m 11:24am 410 psi
20 BBLs at 5.5 BBLs/m 11:28am 460 psi
30 BBLs at 2.5 BBLs/m 11:31am 270 psi
33.6 BBLs at 1.0 BBLs/m 11:34am 230 psi
Bump Plug 11:34am 430 psi
used 5290 excess
used 286 SLs cement
64.2 BBLs slurry

Left w/ 289 SLs cement 3 gallons 1 qt Kcl 6oz Dye 13 BBLs Back 16

AUTHORIZATION TO PROCEED
TITLE
DATE 12-4-10