

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10319

LOCATION 48-53

FOREMAN Kirk Kallio FF
Jassy Richard

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-4-11	Burman (04-32D)	5	4N	64W	weld	
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Saxon 143				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 11:30pm		TIME LEFT LOCATION 2:30am				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
12 1/4				
TOTAL DEPTH 736	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBD 693.4	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 8 5/8	TUBING CONDITION		TUBING	

CASING DEPTH 736.5		TREATMENT VIA		TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT 2416	PACKER DEPTH			SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION: good				PRODUCTION CASING		INITIAL BPM	
				SQUEEZE CEMENT		FINAL BPM	

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, Psit test, Per cement Circ 4000s Kel H2O, End 10w/Dye, mix Pump 311sk cement at 30% Excess at 1127yril at 15.2 lbs or until cement stops 45, no more than 30% Excess, Release Plug Disp 44.1 BBls H2O, Pump Plug At 150 Psi over Lift Psi, wait 5min Release Psi wash up Rig Down H2O test OK
Arrived w/ 550sk cement 4gal Kel 16oz Dye 70.3 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 12:22am circ 12:44am cement 12:53am
Disp Plug 1:19am Displace 1:19am

10 BBls At 5.0 BBls/m 1:23am 170psi used 10% Excess
20 BBls At 5.0 BBls/m 1:25am 190psi used 26.1 sks cement
30 BBls At 5.0 BBls/m 1:27am 290psi 59.7 BBls slurry
40 BBls At 3.0 BBls/m 1:30am 360psi
44.1 BBls At 1.0 BBls/m 1:33am 340psi
Bump Plug 1:33am 520psi

Lft w/ 286sk cement 3gal Kel 600z Dye BBls Back 2

AUTHORIZATION TO PROCEED
TITLE
DATE 10-4-11

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.