

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 4532

LOCATION 1-57-40

FOREMAN Kirk Kallio RF
Mike R. Tucker, Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-22-10	Alexsins C 34-99 H2	34	4N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00am	TIME LEFT LOCATION 2:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 650.3	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 601	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 646		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 36 lb	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			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 40 BBLs H2O 2nd 104 Dye, kick Pump 351
SKs cement at 30% Excess at 1.27 yield at 15.2 lbs or until cement stops us, Release plug
Displace 46.4 BBLs H2O, Bump Plug at 150 psi over LIFT psi, wait 5 min Release PSI, wash up
Rig Down H2O test OK

Arrived w/ 650 SKs cement 4 gallons Kcl 16oz Dye 79.1 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 12:07pm circ 12:31pm cement 12:41pm
Dip Plug 1:09pm Displace 1:09pm

used 66% Excess
used 450 SKs cement
101 BBLs slurry
10 BBLs at 5.5 BBLs/m 1:12pm 410psi
20 BBLs at 5.5 BBLs/m 1:14pm 450psi
30 BBLs at 5.5 BBLs/m 1:16pm 480psi
40 BBLs at 3.5 BBLs/m 1:18pm 340psi
46.4 BBLs at 1.0 BBLs/m 1:22 240psi
Bump Plug 1:22pm 390psi

LFT w/ 200 SKs cement 3 gallons Kcl 6oz Dye BBLs Back 39

AUTHORIZATION TO PROCEED TITLE DATE 12-22-10

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