

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9615

LOCATION CR 47-50

FOREMAN Kirk Ralho
mike R, Darlo

TREATMENT REPORT

DATE 2-15-11	WELL NAME Weidenkeller PC-601-31D	SECTION 1	TWP 4N	RGE 65W	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 4:00am			TIME LEFT LOCATION 9:00am			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 736	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
RBTD 685.16	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 730.22		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

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Per test, circ 40 BBLs RCL H2O 2nd 10w/Dye mix Pump
311 sks cement at 30% excess at 1.27 yield at 15.2 lbs or until cement stops as Release Plug Displace
43.6 BBLs H2O, Bump Plug at 150 psi over Lift Psi, wait 5 min Release Psi wash up Rig Down
H2O test OK

Arrived w/ 575 sks cement 4 gallons RCL 16oz Dye 70.3 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 7:16am circ 7:50am cement 8:00am
Drop Plug 8:20am Disp 8:20am

10 BBLs At 5.5 BBLs/m 8:23am 260psi
20 BBLs At 5.5 BBLs/m 8:25am 310psi
30 BBLs At 5.5 BBLs/m 8:27am 410psi
40 BBLs At 2.5 BBLs/m 8:30am 270psi
43.6 BBLs At 1.0 BBLs/m 8:33am 250psi
Bump Plug 8:33am 400psi

used 20% excess
used 288 sks cement
64.9 BBLs slurry

LPH w/ 287 sks cement 3 gallons RCL 6oz Dye

BBLs Back 10

AUTHORIZATION TO PROCEED

TITLE

2-15-11

DATE

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