

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9848

LOCATION 47-48

FOREMAN Kirk Kallhoff
Mike R LR Jessie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-25-11	Easton 612-20D	12	4N	6SW	weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR Ensign 121			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 4:45pm			TIME LEFT LOCATION 8:30pm			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 712	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 660.03	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 705.5		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, Psidest, circ 40661s KCL H2O 2nd 104/ Dye, mix Pump 3015Ks cement at 30% Excess at 1.27 yield at 15.2 lbs or, until cement stops us, Release Plug Disp 42 BBLs H2O, Bump Plug At 150psi over Lift Psi, wait 5min Release Psi, wash up, Rig Down
H2O test OK

Arrived w/ 575SKs cement 4gal Rel 16oz Dye

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 6:50pm circ 7:10pm cement 7:21pm
Drop Plug 7:41pm Disp 7:41pm

10 BBLs At 4.0 BBLs/m 7:44pm 160psi
20 BBLs At 4.0 BBLs/m 7:47pm 240psi
30 BBLs At 4.0 BBLs/m 7:50pm 390psi
40 BBLs At 2.5 BBLs/m 7:55pm 360psi
42 BBLs At 1.0 BBLs/m 7:57pm 370psi
Bump Plug 7:57pm 520psi

used 10% Excess
used 255SKs cement
57.5 BBLs slurry

LHW/ 320SKs cement 3gal Rel 6oz Dye

BBLs Back 10

AUTHORIZATION TO PROCEED

TITLE

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