

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10587
LOCATION 49-46
FOREMAN Kirk Raliboff
Jessey, Pat

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-12-11	NEI C18-33D	18	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 11:30pm		TIME LEFT LOCATION 3:30am				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH 699	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG	
PBTD 645.5	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 8 5/8	TUBING CONDITION		TUBING	
CASING DEPTH 690.8		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT 2416	PACKER DEPTH		TREATMENT RATE	
CASING CONDITION good			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
			<input type="checkbox"/> MISC PUMP	
			<input type="checkbox"/> 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 Pig up, safety meeting, Psit test, Per Coman, circ 40 BBLs KCL H2O, 2nd 10w/Dye mix, Pump 296 sls cement at 30% Excess at 1.27 y/cld at 15.21 B/s or until cement stops 4s, Release Plug Disp 41.1 BBLs H2O, Bump Plug At 150 psi over Lift Psi, wait 5 min Release Psi, wash up Rig Down H2O test OK
Arrived w/ 750 sls cement 4 gal KCL 16oz Dye 66.9 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 1:40am circ 1:58am cement 2:07am
Drop Plug 2:33am Displace 2:33am
10 BBLs At 5.5 BBLs/m 2:37am 200psi used 10% Excess
20 BBLs At 5.5 BBLs/m 2:39am 250psi used 251 sls cement
30 BBLs At 5.5 BBLs/m 2:41am 340psi 56.7 BBLs slurry
40 BBLs At 1.0 BBLs/m 2:44am 240psi
41.1 BBLs At 1.0 BBLs/m 2:45am 260psi
Bump Plug 2:45am 470psi

Lft w/ 499 sls cement 3 gal KCL 6oz Dye BBLs Back 11

[Signature]
AUTHORIZATION TO PROCEED

TITLE 11-12-11 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.