

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11233

LOCATION 47-48

FOREMAN Kirk Kallhoff
Palo Gaston

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-20-12	Lower Latham PC 602-22D	2	4N	6SW	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 136
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:15 am	TIME LEFT LOCATION 9:00 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 734	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBD 678	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 5/8	TUBING CONDITION			TUBING	

CASING DEPTH 724		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	PACKER DEPTH		[X] 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, Psit test, Per cement circ 40 BBLs KCL H2O 2nd 104 Dye
mix & Pump 311 SKs cement at 30% excess at 1.27 yield or until cement stops up, Release Plug Displace
43.1 BBLs H2O Pump Plug At 150 psi over Lft psi, wait 5 min Release PSI washup, Rig Down
H2O test OK

Arrived w/ 600 SKs cement 4 gal KCL 16 oz Dye 70.3 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 7:16 am circ 7:35 am cement 7:42 am stop cement 8:00 am
Drop Plug 8:03 am Displace 8:03 am

10 BBLs At 6 BBLs/m 8:05 am 300 psi Used 20% excess
20 BBLs At 6 BBLs/m 8:07 am 300 psi used 287 SKs cement
30 BBLs At 6 BBLs/m 8:09 am 400 psi 64.9 BBLs slurry
40 BBLs At 2.5 BBLs/m 8:11 am 350 psi
43.1 BBLs At 1 BBL/m 8:13 am 300 psi
Pump Plug 8:13 am 500 psi

Lft w/ 313 SKs cement 3 gal KCL 6 oz Dye BBLs Back 8

[Signature] Well site supervisor 8-20-12
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.