

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11264
LOCATION 59440
FOREMAN Mike Rosale

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-12-12	BOOTH STAR CC-30 791H	36	Y	64W	Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 121
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	2:45 AM	TIME LEFT LOCATION	9:45 PM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	13 3/4	TUBING SIZE		THEORETICAL	INSTRUCTED
TOTAL DEPTH	654	TUBING DEPTH		SURFACE PIPE ANNULUS LONG	
P870 591.14		TUBING WEIGHT		STRING	
CASING SIZE	9 5/8	TUBING CONDITION		TUBING	
CASING DEPTH	644	TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT	36 105	PACKER DEPTH		[] SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION	Good			[] PRODUCTION CASING	INITIAL BPM
				[] SOOZE 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

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING	psi	AVERAGE
FINAL DISPLACEMENT	psi	ISIP
ANNULUS	psi	5 MIN SIP
MAXIMUM	psi	15 MIN SIP
MINIMUM	psi	

INSTRUCTIONS PRIOR TO JOB Rig up. Saffymet PSI TEST 500 Circ 40 BBs/Hal/KCL 2 1/2 10
Dry mix pump 352 sks Cement (30% excess) 1:27 gnd out 15-2 ann. h. Cement
Stoppers, DROP Plug Displace 46 BBs 1/2 Pump Plug 150 wait Couple min PSI TEST 1000
PSI for 15 min Release PSI wash up rig down
Left 400 cks Cement KCL 10 Dry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Saffymet 6:10 am Displace 11:00 am Cement start 7:10 am
Cement stop 7:31 am Drop Plug 7:38 am Displace 7:40 am

10 BBs at 5-0 BBs in 7:42 am 400 PSI used 52 9/10 excess
20 BBs at 5-13 BBs in 7:44 am 460 PSI used 414 sks Cement
30 BBs at 5-23 BBs in 7:46 am 360 PSI Slurry 93.6
40 BBs at 3-5 BBs in 7:49 am 400 PSI Flow collar held
46 BBs at 1-5 BBs 7:53 pm 300 PSI
Bump Plug 15 BBs in 7:53 pm 590 PSI

BBs BACK to top

Left with 500 sks Cement 186 4 KCL min Dry

20

1/12/12

AUTHORIZATION TO PROCEED

TITLE

9-12-12

DATE

Customers hereby acknowledge and specifically agree 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