

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10239

LOCATION Hwy 14+115

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-13-12	Caster LG 10-72 HN	10	8N	59W	Weld	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H4P Rig 326</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>9:30 am</u>		TIME LEFT LOCATION <u>2:30 am.</u>				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
13 3/4				
TOTAL DEPTH 1460	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNUBUS LONG	
PBTD 1406.93	TUBING WEIGHT	OPEN HOLE	STIRING	
CASING SIZE 9 5/8	TUBING CONDITION		TUBING	
CASING DEPTH 1450		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT 40 lb.	PACKER DEPTH		TREATMENT RATE	
CASING CONDITION <u>Good</u>			BREAKDOWN BPM	
			INITIAL BPM	
			FINAL BPM	
			MINIMUM BPM	
			MAXIMUM BPM	
			AVERAGE BPM	
			HYD HP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNUBUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Pichek to 500 Psi, Circ 50 bbls H₂O with KCL, Mix + pump head to cover 1256' at 20% Excess = 469 sks at 13.1 lbs 1.67 yield, Mix pump tail to cover 204' + shoe = 100 sks at 15.2 lbs 1.27 yield, Drop plug, Displace 106.6 bbls H₂O, Bump plug at 150 Psi over lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 11:50 am, Circ 12:15 am, Cement 12:25 am to 1:00 am

Drop Plug 1:04 am, Displace 1:05 am

10 bbls 370 Psi 1:09 am 6.0 bbls/s 70 bbls 540 Psi 1:20 am 6.0 bbls/s

20 bbls 370 Psi 1:11 am 6.0 bbls/s 80 bbls 600 Psi 1:22 am 6.0 bbls/s

30 bbls 380 Psi 1:12 am 6.0 bbls/s 90 bbls 630 Psi 1:23 am 6.0 bbls/s

40 bbls 380 Psi 1:14 am 6.0 bbls/s 100 bbls 600 Psi 1:25 am 4.6 bbls/s

50 bbls 400 Psi 1:16 am 6.0 bbls/s 106 bbls 420 Psi 1:29 am 1.0 bbls/s

60 bbls 450 Psi 1:18 am 6.0 bbls/s Bump Plug 580 Psi at 1:29 am

USED 20% EXCESS ON LEAD 469 SKS, 141.16 bbls Slurry, 0% Excess on Tail

100 SKS, 22.61 bbls Slurry

27 bbls Slurry To The PIT

SMU
AUTHORIZATION TO PROCEED

WSS
TITLE

10-13-12

DATE

Customer 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