

BISON OIL WELL CEMENTING, INC.

1547 Gaylord Street
Denver, Colorado 80206
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net



INVOICE # 11718
LOCATION WCR68+89
FOREMAN CALVIN REINERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY
2-23-13	GREASEWOOD 10-20H	20	6N	61W	Weld
BILL TO	CONSULTANT				
Bill Barrett	JEREMY				
OWNER	RIG NAME & NUMBER				
Bill Barrett	XTREME Rig 15				
MAILING ADDRESS	DISTANCE TO LOCATION		UNITS ON LOCATION		
	37 miles		120/3106/3203		
CITY	TIME REQUESTED		TIME ARRIVED ON LOCATION		
	9:30 a.m.		9:00 a.m.		
STATE, ZIP	TIME LEFT LOCATION				
	5:30 a.m.				

WELL DATA			Cement Makeup		
HOLE SIZE	TUBING SIZE	PERFORATIONS	Cement Blend	BFN III 3% BCCA-1 .2516/3K BFLA-1	
13 1/2			Cement - Specs	lbs	Yield
				15.2	1.27
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	Annulus Factor	Capacity Factor	
840			.4887	.0773	
CASING SIZE	TUBING WEIGHT	OPEN HOLE	TYPE OF TREATMENT		
9 5/8			<input checked="" type="checkbox"/> Surface Pipe <input type="checkbox"/> Production <input type="checkbox"/> Squeeze <input type="checkbox"/> MISC Pump <input type="checkbox"/> P&A		
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	HYD HHP = RATE X PRESSURE / 40.8		
833.48			% Excess 25		
CASING WEIGHT	PACKER DEPTH		BBL to Pit 21		
3616					
CASING CONDITION	Good				
Max Rate	6.0				
Max Pressure	1000				

DESCRIPTION OF JOB EVENTS

Safety meet with Bison crew, MURU, Safety meeting, Psi Test to 1000 Psi, Circ 60 bbls H₂O with KCL+ Pink Dye in 2nd 10 bbls, Mix & pump till good dye is seen at 15.2 lbs, 1.27 yield, Drop plug, Displace 61 bbls H₂O, Bump plug at 500 Psi over L. ft Psi, wait 2 min. Then bleed off Psi, Wash up, Rig down

X Authorization To Proceed

Co-man Title

x 2-23-13 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.

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Calvin Heimke

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DESCRIPTION OF JOB EVENTS

Safety Meeting	2:20 am	Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
MIRU	9:20 am	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
CIRCULATE	3:17 am	0	4:05 am	60	0			0			0			0		
Drop Plug		10	4:09 am	350	10			10			10			10		
		20	4:10 am	420	20			20			20			20		
		30	4:12 am	500	30			30			30			30		
		40	4:14 am	550	40			40			40			40		
		50	4:15 am	580	50			50			50			50		
M & P		60	4:17 am	350	60			60			60			60		
		70	4:19 am	350	70			70			70			70		
		80	4:20 am	350	80			80			80			80		
		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

Safety meeting 2:20 am, Circ 3:17 am, Cement 3:32 am to 4:03 am, Drop Plug 4:04 am, Displace 4:05 am

USED 2.5% Excess = 440 sks, 99.52 bbls Slurry

Float Collar Held

X Calvin Heimke Title Co-Man Date 2-23-13