

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St Ste 107
 Denver, Colorado 80202
 Phone: 303-290-3010
 Fax: 303-296-8112
 E-mail: bisonoil@westoffice.net

REF. INVOICE # 10090

LOCATION St. Francis

FOREMAN Travis R. Klay

TREATMENT REPORT

DATE <u>8-11-11</u>	WELL NAME <u>Bandel 14-23</u>	SECTION <u>23</u>	TWP <u>5S</u>	RANGE <u>40W</u>	COUNTY <u>Cherokee</u>	FORMATION
CHARGE TO <u>Excell</u>		OWNER <u>Nobel</u>				
MAILING ADDRESS		OPERATOR				
CITY		CONTRACTOR <u>Excell rig #2</u>				
STATE ZIP CODE		DISTANCE TO LOCATION <u>87m. Yes</u>				
TIME ARRIVED ON LOCATION <u>7pm</u>		TIME LEFT LOCATION <u>regu. 11pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>9 7/8</u>	TUBING SIZE	PERFORATIONS	SURFACE PIPE ANNULUS LONG	THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>402'</u>	TUBING DEPTH	SHUTS-OFF			
<u>PBTD 357</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>7"</u>	TUBING CONDITION	TREATMENT VIA	TUBING		
CASING DEPTH <u>396</u>			TYPE OF TREATMENT		
CASING WEIGHT <u>17 lbs</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
PRESSURE SUMMARY			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
BREAKDOWN or CIRCULATING PSI	AVERAGE	PSI	<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
FINAL DISPLACEMENT	ISIP	PSI	<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
ANNULUS	5 MIN SIP	PSI	<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
MAXIMUM	15 MIN SIP	PSI	<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
MINIMUM			<input type="checkbox"/> OTHER	HYD HP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB MIRV Safety Circ m+p 185 SKs of B3-1.4c 15.2 lb/gal
1.07 yld 4.2 gal/sk mix 18.5 bbl drop plug displace 14.8 bbl shut
well in, clean up move off location, 190% excess
Ans. 2/4
Cap. 04150

OB SUMMARY
 DESCRIPTION OF JOB EVENTS
MIRV Safety Circ. m+p drop plug displace shut in
11:50am 11:50pm 11:52pm 11:53pm 12:11am 12:17am 12:18am
10pm 12:15 40ps. 12:17am 14.8 170ps.
8 bbls to the pit

[Signature] AUTHORIZATION TO PROCEED Busch TITLE 8/11/11 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

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St. Ste. 100
 Denver, Colorado 80202
 Phone: 303-296-0700
 Fax: 303-296-6140
 E-mail: bisonoil@prowest.net

REF. INVOICE # 10100

LOCATION St. Francis

FOREMAN T. R. Ritzley

TREATMENT REPORT

DATE	WELL NAME	SECTION	FWP	HE	EXHIBITS	FORMATION
8-13-11	Bandel 14 23	23	55	40W	cheyenne	

CHARGE TO	WELL
EXCEL	Nobel
MAJOR ADDRESS	OPERATOR
CITY	CONTRACTOR
STATE OF LOAN	EXCEL P. 1 & 2
TIME ARRIVED ON LOCATION	DISTANCE TO LOCATION
10pm	87 miles
reqd 3:30 am	TIME LEFT LOCATION
	5:30 am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS		THEORETICAL	UNSTRUCTURED
6 1/4					
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1542					
CASING SIZE	TUBING WEIGHT	OPEN HOLE	STUBING		
4 1/2					
CASING DEPTH	TUBING CONDITION	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
1576					
CASING WEIGHT	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
105			<input checked="" type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
CASING CONDITION			<input type="checkbox"/> SOLID CEMENT	FINAL BPM	
good			<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			TREATMENT RATE		
BREAKDOWN or CIRCULATING	PSI	AVERAGE	PSI		
FINAL DISPLACEMENT	PSI	15'	PSI		
ANNULUS	PSI	5 MIN SIP	PSI		
MAXIMUM	PSI	15 MIN SIP	PSI		
MINIMUM	PSI				

INSTRUCTIONS PRIOR TO JOB: MTRU Safety Circ m+p 54 sks of Muel-12 12.0 lb/gal
 2.21 yld 12.04 gal/sk m+p 46 sks of Bq-lite 13.8 lb/gal 1.33 yld 6.28
 gal/sk drop plug displace 245 bbls Shut well in, clean up, move off
 location 1st mix water 15.4 2nd mix water 6.8 bbl
 Ann. 1026 Cap. 0159

JOB SUMMARY

DESCRIPTION OF JOB EVENTS

MTRU Safety Circ	m+p lead	m+p tail	Drop plug
2:45 am	3:45 am	3:49 am	3:56 am
		4:01 am	4:16 am

Displace Shut in 4:29 am @ 1810 psi
 4:17 am
 10 psi 10 4:21 am 1 BBL to pit
 290 psi 20 4:25 am
 1810 psi 24.5 4:29 am lead 20% EXCESS

AUTHORIZATION TO PROCEED

TITLE

DATE

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