

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
 Denver, Colorado 80202
 Phone: 303-296-3010
 Fax: 303-298-8143
 E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 11001
 LOCATION St. Francis
 FOREMAN Zandy Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-20-12	Roger SWD	32	55	39W	cheyenne	
CHARGE TO <u>Noble Energy</u>		OWNER <u>Noble</u>				
MAILING ADDRESS		OPERATOR EX				
CITY		CONTRACTOR <u>Excell Rig 3</u>				
STATE ZIP CODE		DISTANCE TO LOCATION <u>90 mi</u>				
TIME ARRIVED ON LOCATION <u>10:30 AM</u>		TIME LEFT LOCATION <u>3:30 p.m.</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>8 3/4"</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>3350'</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>7"</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>3326'</u>	<u>2289'</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>23#</u>	PACKER DEPTH		<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<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	

INSTRUCTIONS PRIOR TO JOB MTRU sm circ 10 bbl mud flush (rep 128) 10 bbls Fresh H₂O m+p
275 sts of N-Gel-12 @ 12 1/2 gal water Reg of 12.04 gal/stk 79 BBLs mix water yield of
2.21 cu ft/stk then m+p 250 sts Bb-11x @ 13.8 1/2 gal water Reg of 6.28 gal/stk 38
BBLs mix water yield of 1.33 cu ft/stk shut down dropping Displace w/ 129.2 BBLs H₂O
land plug bleedoff pressure rig down 20% excess

JOB SUMMARY

DESCRIPTION OF JOB EVENTS	MTRU	SM	CIRC	MTP	MTP	DROPPING
	10:30 AM	12:50 p.m.	1:05 p.m.	1:11 p.m.	1:46 p.m.	2:10 p.m.
Displace						land plug
	2:15 p.m.					rig down
				2:52 p.m.		3:00 p.m.
	2:18	10	100	2:38	90	750
	2:20	20	200	2:41	100	800
	2:22	30	200	2:44	110	900
	2:25	40	300	2:47	120	900
	2:27	50	300	2:52	129	1500
	2:29	60	400			
	2:32	70	500			
	2:35	80	600			

20 BBL cement to p.t

T. Th
 AUTHORIZATION TO PROCEED

TITLE _____ DATE 8-20-12

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.