

**BISON OIL WELL CEMENTING, INC.**

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Denver, Colorado 80202  
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## TREATMENT REPORT

DATE	5/9/12	WELL NAME	REF 47-30P	SECTION	17	TWP	3N	RGE	65W	COUNTY	Weld	FORMATION	
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CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 136
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	6:15 am	TIME LEFT LOCATION	11:30 am

HOLE SIZE	12 1/4	TUBING SIZE	PERFORATIONS			
TOTAL DEPTH	834	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	1610	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE	8 3/8	TUBING CONDITION		TUBING		

CASING WEIGHT	24/lbs	PACKER DEPTH			[ ] SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION	Good				[ ] PRODUCTION CASING	INITIAL BPM	
PRESSURE SUMMARY							
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[ ] ACID BREAKDOWN	MINIMUM BPM		
FINAL DISPLACEMENT	psi	ISIP	psi	[ ] ACID STIMULATION	MAXIMUM BPM		
ANNULUS	psi	5 MIN SIP	psi	[ ] ACID SPOTTING	AVERAGE BPM		
MAXIMUM	psi	15 MIN SIP	psi	[ ] MISC PUMP			
MINIMUM	psi			[ ] OTHER			
							HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB

Ky up softening B&K's Returner Cx 50 lbs Kc H<sub>2</sub>O and 10 lb/dry mix & pump  
3-3 sls mixed at 30% excess of 1.27 yield of 30% excess at 15.2 lbs per unit corner steps up release  
plug dist 9/6 hrs after bump plug 150 psi over 1st psi event 5 min after PST crush up rig down

Arrived w/ 750 stks cement 14 gtl. PU 1600 deg  
79.8 bbls slurry

DESCRIPTION OF JOB EVENTS	DATE	TIME
step cement	10/17/15	10:47
safety meeting	9:54 am	10:47
live	10:16 am	10:47
cement	10:25	10:47

	used	% exist	used	307 sks cement	69.4 balls slurry
10 bbls at 10.149m	150 psi				
80 bbls at 10.151	220				
30 bbls at 10.153	320				
40 bbls at 10.155	400				
49.6 bbls at 10.159	400 psi				
Bump Plug at 10.159m	460 psi				

Left w/ 5ks carat 1/2 y gold ket

10 AUTHORIZATION TO PROCEED

THE

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

REF. INVOICE # 1526

LOCATION 37838

FOREMAN Tucker-Lubinski  
Pat. Rich