

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9304

LOCATION Cr 51-Hwy 14

FOREMAN Kirk Kallhoff  
Mike R. Tucker

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-27-10	Antholz Pct B06-16	6	7N	64W	Weld	

CHARGE TO: Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensigh SS
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 1:15am	TIME LEFT LOCATION 8:45am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 865.1	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
POTD 811.57	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 7/8	TUBING CONDITION			TUBING	
CASING DEPTH 855.62	TREATMENT VIA		TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2416	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			<input 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

PRESSURE SUMMARY		
BREAKDOWN or CIRCULATING psi	AVERAGE psi	
FINAL DISPLACEMENT psi	ISIP psi	
ANNULUS psi	5 MIN SIP psi	
MAXIMUM psi	15 MIN SIP psi	
MINIMUM psi		

INSTRUCTIONS PRIOR TO JOB: Rig up, safety meeting, Pst test, circ 40 BBLs H2O 2drow/Dye, mix Pump 366 SKS cement at 30% Excess at 1:27 yield at 15.2 lbs acm till cement stops up, Release Plug, Displace 51.6 BBLs H2O, Pump Plug at 150psi over Lift Psi, wait 5min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 650 SKS cement 4 gallons Red 16oz Dye 82.6 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS: safety meeting, 6:50am circ 7:13am cement 7:22am  
Drop Plug 7:53am Displace 7:53am

10 BBLs at 5.5 BBLs/m 7:56am 530psi  
20 BBLs at 5.5 BBLs/m 7:59am 540psi  
30 BBLs at 5.5 BBLs/m 8:01am 630psi  
40 BBLs at 5.5 BBLs/m 8:03am 670psi  
50 BBLs at 3.5 BBLs/m 8:07am 340psi  
51.6 BBLs at 1.0 BBLs/m 8:08am 350psi  
Pump Plug 8:08am 400psi

used 400 SKS cement  
used 41% Excess  
89.6 BBLs slurry

L.P.H. w/ [Signature]  
9-27-10

AUTHORIZATION TO PROCEED TITLE 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