

# BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202  
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REF. INVOICE # 10602

LOCATION 78-57

FOREMAN Kirk Kallhauff  
Jesse, Richard, Mike S

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-5-11	Pettinger USX AB 27-02	27	7N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Code 21
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 9:00am	TIME LEFT LOCATION 1:30pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 810	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 761.77	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 8 9/8	TUBING CONDITION			TUBING	
CASING DEPTH 801.72		TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 2415	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, Psitred, Per Cameron Circ 503615 Kel H2O, 2nd 1000 / Dye, mix & Pump 343 sks cement at 30% Excess at 1127 yield at 152 lbs or until Cameron steps up, unmixer then 50% Excess, Release Plug, Disp 48.5 BBls H2O, Bump Plug At 150 Psi over Lift Psi, wait Smith Release Psi, wash up Rig Down H2O test OK  
Arrived w/ 650 sks cement 4 gal Kel 16oz Dye 77.5 BBls slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 11:37am circ 11:54am cement 12:04 pm  
Drop Plug 12:25pm Displace 12:25pm  
10 BBls At 5.5 BBls/m 12:30pm 230psi used 8% Excess  
20 BBls At 5.0 BBls/m 12:32pm 180psi used 264 sks cement  
30 BBls At 5.0 BBls/m 12:34pm 280psi 59.7 BBls slurry  
40 BBls At 3.5 BBls/m 12:36pm 290psi  
48.5 BBls At 12:41pm 160 BBls/m 250  
Bump Plug NO Plug Did not hold

Lift w/ 380 sks cement 2 gal 3/4 ts Kel 6oz Dye BBls Back 1

AUTHORIZATION TO PROCEED

Dwight Engineer  
TITLE

12-5-11  
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.