

# BISON OIL WELL CEMENTING, INC.



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Denver, Colorado 80202  
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REF. INVOICE # 10588

LOCATION 76-59

FOREMAN Rick Kallhoff  
Jossy Pat

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-14-11	Pettlinger USX AB 35 CID	35	7N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Sagen 143
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 8:15am	TIME LEFT LOCATION 11:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 800	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PSTO 747.59	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		

PRESSURE SUMMARY			TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi		TYPE OF TREATMENT	
FINAL DISPLACEMENT psi	ISIP psi		1 SURFACE PIPE	BREAKDOWN BPM
ANNULUS psi	5 MIN SIP psi		1 PRODUCTION CASING	INITIAL BPM
MAXIMUM psi	15 MIN SIP psi		1 SQUEEZE CEMENT	FINAL BPM
MINIMUM psi			1 ACID BREAKDOWN	MINIMUM BPM
			1 ACID STIMULATION	MAXIMUM BPM
			1 ACID SPOTTING	AVERAGE BPM
			1 MISC PUMP	
			1 OTHER	HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB		
Pig up, Safety meeting, Psit test, Psit Caman, Circ 45 bbls Vel 1120 2-2 1/2" Dye, wire Pump 338 sks cement at 3% excess at 127 yield at 15.2 lbs cement till cement stops 45, no more than 5% excess Release Plug, Disp 47.6 BBls 1120, Pump Plug At 150 psi over Lift Psi, wait 5 min Release Psi, wash up Pig Down 1120 PST OK		
Arrived w/ 575 sks cement 4 1/2" Vel 1600 Dye 76.4 BBls slurry		

JOB SUMMARY		
DESCRIPTION OF JOB EVENTS Safety meeting 9:07am Circ 9:28am cement 9:37am		
Pump Plug 10:06am Displace 10:06am		
10 BBls At 5.0 BBls/m 10:09am 130 psi used 1% excess		
20 BBls At 5.0 BBls/m 10:11am 170 psi used 26.9 sks cement		
30 BBls At 5.0 BBls/m 10:13am 250 psi 59.7 BBls slurry		
40 BBls At 3.5 BBls/m 10:15am 280 psi		
47.6 BBls At 1.0 BBls/m 10:23am 310 psi		
Pump Plug 10:23am 510 psi		

Lift w/ 311 sks cement 2 1/2" Vel 3900 Vel 600 Dye BBls Back 1/2		
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AUTHORIZATION TO PROCEED	TITLE	DATE
<i>[Signature]</i>	<i>[Signature]</i>	11-14-11

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