

# 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 # 9548

LOCATION C-130-95

FOREMAN Kirk Kallhoff  
mile R, Gay A

## TREATMENT REPORT

DATE 1-8-11	WELL NAME Purcal PC 6K 11-10	SECTION 11	TWP 11N	RGE 61W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Code 21				
STATE, ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 5:45pm		TIME LEFT LOCATION 12:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 1274	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 1212	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 1260		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"/> SOOZE 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: Rig up, Safety meeting, Ps. test, circ 40 BBLs KCL H<sub>2</sub>O, mix Pump Load 275 SKs cement at 13.1 lbs at 1.69 yield, mix Pump tail 100 SKs cement at 15.2 lbs 1.27 yield, Release Plug Displace 77.2 BBLs H<sub>2</sub>O, Bump Plug at 150 psi over L.P. psi wait 5 min Release Psi wash up  
Rig Down  
H<sub>2</sub>O test OK

Arrived w/ 750 SKs cement 4 gallons KCL  
Load 82.7 BBLs slurry, tail 22.6 BBLs

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 9:50 pm  
Drop Plug 10:56 pm Displace 10:56 pm  
10 BBLs @ 5.5 BBLs/m 10:59 pm 400 psi  
20 BBLs @ 5.5 BBLs/m 11:01 pm 410 psi  
30 BBLs @ 5.5 BBLs/m 11:03 pm 460 psi  
40 BBLs @ 5.5 BBLs/m 11:05 pm 490 psi  
50 BBLs @ 5.5 BBLs/m 11:07 pm 690 psi  
60 BBLs @ 5.5 BBLs/m 11:09 pm 760 psi  
70 BBLs @ 5.5 BBLs/m 11:13 pm 500 psi  
77.2 BBLs @ 1.0 BBLs/m 11:16 pm 410 psi  
Bump Plug 11:16 pm 570 psi  
L.P. w/ 375 SKs cement 3 gallons KCL  
used 375 SKs cement total  
275 SKs Load 13.1 lbs 82.7 BBLs slurry  
100 SKs tail 15.2 lbs 22.6 BBLs slurry  
Total slurry 105.3  
BBLs Back 12

AUTHORIZATION TO PROCEED

TITLE

DATE

1-8-11

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.