

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10298

LOCATION 58.5 + 59

FOREMAN Kirk K  
mike R, marks, L.R

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-25-11	Wacker B-12 69 HN	11	5N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>H+P 343</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>2:30pm</u>	TIME LEFT LOCATION <u>10:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>729</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 680.28</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>724</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>361.85</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			<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, PSE Test, Circulate 50 BBLs H<sub>2</sub>O, KCL mix 2nd 10 BBLs Dye  
Mix and Pump 393 sks of Cement (30% Excess) yield 1.27-1.52 lbs. Or until Stopped by Company man  
NO more than 50% Excess, Release Plug and Displace 52.5 BBLs H<sub>2</sub>O, Pump Plug 150 PSE else 110 PSE Wait  
5 min Release PSE, Wash up, Rig Down H<sub>2</sub>O Cook  
Arrived with 750 sks Cement 3 gal KCL 16 oz Dye 88.8 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 7:27 PM Circulate 7:58 PM Cement 8:09 PM  
Drop Plug 8:39 PM Displace 8:35 PM

10 BBLs at 5-0 BBLs/m 8:41 PM 320 PSE Used 30% Excess  
20 BBLs at 5-0 BBLs/m 8:43 PM 370 PSE Used 393 sks Cement  
30 BBLs at 5-0 BBLs/m 8:45 PM 430 PSE 88.8 Slurry  
40 BBLs at 5-0 BBLs/m 8:51 PM 350 PSE  
50 BBLs at 3-5 BBLs/m 8:52 PM 360 PSE  
52.5 BBLs at 8:52 PM 390 PSE  
Pump Plug 8:52 PM 590 PSE

Left with 357 sks cement 1 gal KCL & Dye 17 BBLs slurry Back to surface  
3 ATS

JR Rig Site Supervisor 8-25-11  
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