

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10581

LOCATION 48-49

FOREMAN Kirk Kalhofer  
Jessy Rob Pat

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-3-11	Dietrich C07-22D	7	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>5:00am</u>	TIME LEFT LOCATION <u>1:00pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>651</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>598.54</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>644.25</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb</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, Psi test, Perccoman circ 40 bbls KCL H2O, 2nd 10 gal Dye, mix & Pump 276  
SKs cement at 30% Excess at 1.27 yield at 152 lbs, or until coman stops up, no more than 50% Excess. Release  
Plug, Disp 38.1 Bbls H2O Bump Plug At 150 psi over Lift psi, wait 5 min Release Psi, wash up,  
Rig Down H2O test OK

Arrived w/ 750 SKs cement 4 gal KCL 16oz Dye 62.4 Bbls slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 11:17 am circ 11:39 am cement 11:47 am  
Drop Plug 12:10 pm Displace 12:10 pm

10 Bbls At 5.5 Bbls/min 12:13 pm 200 psi used 30% Excess  
20 Bbls At 5.5 Bbls/min 12:15 pm 270 psi used 276 SKs cement  
30 Bbls At 3.5 Bbls/min 12:17 pm 270 psi 62.4 Bbls slurry  
38.1 Bbls At 1.0 Bbls/min 12:22 pm 240 psi  
Bump Plug 12:22 pm 460 psi

Lft w/ 474 SKs cement 3 gal KCL 16oz Dye Bbls Back 5

(Paul W. Dean) Consultant 11-3-11  
AUTHORIZATION TO PROCEED TITLE DATE

Customers hereby acknowledge and specifically agree 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.