

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 1062

LOCATION Well 47+17

FOREMAN Mike Rauh
L-R mrauh

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-12-11	Shaklee 18X 25-17-U	25	2N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>SAXON 195</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION	TIME LEFT LOCATION

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1016</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 9168.25</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		

CASING DEPTH <u>1006</u>	TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT <u>241BS</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION <u>Good</u>		<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM

PRESSURE SUMMARY				
BREAKDOWN or CIRCULATING psi	AVERAGE psi	<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
FINAL DISPLACEMENT psi	ISIP psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
ANNULUS psi	5 MIN SIP psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
MAXIMUM psi	15 MIN SIP psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
MINIMUM psi		<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, PSI Test Circulate 40 BBls head H₂O / KCL mix
2nd 10 Dye mix + Pump a lead of Neat Cement (20% Excess) 1.32 yield at 14.1 lbs
than a Tail of 100 SKS BEN III 3% at 15-1, Release Plug Displace 61.6 BBls at H₂O Pump
Plug 500 PSI over 1st wait 5 min Release PSI Wash up Rig Down Stem
Arrived with 440 SKS Neat Cement 200 SKS at 3% Cement 1094 KCL 1602 Dye

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 3:25 PM Circulate 3:51 PM Cement 4:02 PM
Drop Plug 4:32 PM Displace 4:32 PM

100 BBls at 5-2 BBls/lm 4:36 PM 260 PSI 658 Used 20 % Neat Cement
20 BBls at 5-2 BBls/lm 4:38 PM 360 PSI Slurry Used 280 SKS Neat Cement
30 BBls at 5-2 BBls/lm 4:40 PM 410 PSI Used 80% Excess BEN III 3%
40 BBls at 5-2 BBls/lm 4:43 PM 560 PSI Slurry Used 100 SKS at BEN III 3%
50 BBls at 5-0 BBls/lm 4:45 PM 620 PSI 23
60 BBls at 1-0 BBls/lm 4:48 PM 430 PSI
61.6 BBls at 1-0 BBls/lm 4:50 PM 390 PSI Flow Collar (held) BBls Back
Bump Plug 1-0 BBls/lm 4:50 PM 620 PSI
Left with Neat Cement 160 BEN III 3% 100¹⁶ gk KCL 1602 Dye (21)

[Signature]
AUTHORIZATION TO PROCEED

W.S.S.
TITLE

11-12-11
DATE