

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10729
 LOCATION WCR 46 +59
 FOREMAN Mik Rosalez

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-11-11	Watkins C-12 - 230	12	4N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Saxon 143</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:10</u>	TIME LEFT LOCATION

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1085</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTS 1036.62</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>1082</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24.1BS</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, Sattymecting, PSE TEST 500 PSE, Circulate BBls H₂O/KCL mix
mix + Pump a Lead of 300 sks NECT Cement (10% excess) 1.32 yield at 14.8 1BS
Then a tail of 100 sks 3% BFW at 1.27 yield at 15-2 1BS Release Plug Displace 66 PB/BS
H₂O Bump Plug 200 PSE over lift Release PSE, WASLUP Rig Down H₂O TEST L T
Arrived with 400 sks NECT Cement 200 sks 3% 109 lb KCL Slurry 71.9 22.6

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Sattymecting 11:05 Circulate 11:34 Cement 11:43
Drop Plug 12:14 PM Displace 12:14 PM

10 BBls at 5-5 BBls/m	12:17	290 PSE	Used 293 sks NECT Cement
20 BBls at 5-5 BBls/m	12:19	320 PSE	Used 100 sks BFW 3%
30 BBls at 5-5 BBls/m	12:21	370 PSE	Slurry Lead 68.8
40 BBls at 5-0 BBls/m	12:23	460 PSE	Slurry Tail 22.6
50 BBls at 4-5 BBls/m	12:25	510 PSE	
60 BBls at 4-0 BBls/m	12:27	500 PSE	
66 BBls at 1-5 BBls/m	12:33	310 PSE	BBls Back to PT
Bump Plug 1-5 BBls/m	12:33	630 PSE	
Left with 107 sks NECT Cement 100 3% BFW 7 g/l KCL @ Dye			(12)

[Signature] AUTHORIZATION TO PROCEED
COMAN TITLE
12-11-11 DATE

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