

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10330

LOCATION CR 49 + 30

FOREMAN Mike Rosalez
Marks L.R. Calvin

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-4-11	Decheat D-31 18-D	31	3	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Noble Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>1:45 AM</u>	TIME LEFT LOCATION <u>6:00 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>810</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTID 755.28</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>800</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 LBS</u>	PACKER DEPTH		1 SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			1 PRODUCTION CASING		INITIAL BPM
			1 SQUEEZE CEMENT		FINAL BPM
			1 ACID BREAKDOWN		MINIMUM BPM
			1 ACID STIMULATION		MAXIMUM BPM
			1 ACID SPOTTING		AVERAGE BPM
			1 MISC PUMP		
			1 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 40 BBLs H₂O / KCL mix, 2nd 10 Dye mix and Pump 343 SKS Cement (30% Excess) yield 1.27 at 15-2 LBS or until Company men stop us no more than 30% Excess per Company men, Release Plug + Displace 48.1 BBLs H₂O, Bump Plug at 150 PSE over 1 ft PSE, wait 5 min + Release PSE Wash up, Rig Down
H₂O TEST Good

Arrived with 650 SKS Cement 3 gal KCL 1602 Dye Slurry 77.5

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:40 AM Circulate 4:01 AM Cement 4:11 AM

Drop Plug 4:42 AM Displace 4:42 AM

10 BBLs at 4.5 BBLs/m 4:46 AM 120 PSE USED 8% EXCESS
20 BBLs at 4.5 BBLs/m 4:49 AM 180 PSE USED 286 SKS Cement
30 BBLs at 4.5 BBLs/m 4:52 AM 310 PSE 64.6 Slurry
40 BBLs at 3.0 BBLs/m 4:58 AM 300 PSE
48.1 BBLs at 1.5 BBLs/m 5:04 AM 330 PSE
Bump Plug 5:04 AM 490 PSE

Left with 364 SKS Cement 2 gal Oils KCL & 02 Dye 9 BBLs BACK to Surface

John M Taylor CO MAN

9-4-11

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