

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11281
LOCATION WKR 43-66
FOREMAN Mike Roark

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWT	RGE	COUNTY	FORMATION
10-26-12	Five M - E21-73-1 Hw	12	6	6.5	Weld	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H+P 322</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1:30 PM</u>		TIME LEFT LOCATION <u>7:30</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>789</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD</u> <u>742.28</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>783</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 LBS</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rg up. Sattymetery, PSE Test 300 PSE, Circ 50 BBLs Hw/KLL 214 10
Dye mix + Pump 425 SKS Cement (30% EXCESS) at 1.27 g/c. at 15-2 LBS or int. 1
Compare 5 Steps w/ Release Plug. Displace 57.3 BBLs Hw/Bump Plug 150 over 244
Wait Couple min Release PSE Pressure Test to 1000 15 min
Arrived with 600 SKS Cement 16:02 Dye 50/11 Sugar 10 Qth KLL

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymetery 4:45 PM Circ 5:15 PM Cement START 3-30p
Cement stop 5:47 PM Drop Plug 5:57 PM Displace 5:57 PM

10 BBL at 5-0 BBLs/m at 6:00 PM 160 PSE used 10 9% EXCESS
20 BBL at 5-0 BBLs/m at 6:02 PM 250 PSE used 9.57 SKS Cement
30 BBL at 5-3 BBLs/m at 6:04 PM 320 PSE Skerry 80.7
40 BBL at 5-0 BBLs/m at 6:07 PM 320 PSE
50 BBL at 4-0 BBLs/m at 6:10 PM 420 PSE Pressure 6:21-6:37
57.3 BBL 1-3 BBLs/m at 6:14 PM 510 PSE
Bump Plug 1-3 BBLs/m at 6:14 PM 520 PSE BBLs BACK to PT
14
Left with 243 SKS Cement 5 Qth KLL to Dye 50 Sugar

Charla Ash

AUTHORIZATION TO PROCEED

WSS

TITLE

10-26-12

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.