

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9831
LOCATION Hay 14 + 95
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>6-14-11</u>	WELL NAME <u>Kummer PCLE 23-99 H2</u>	SECTION <u>23</u>	TWP <u>8N</u>	RGE <u>61W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H&P 343</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:30 AM</u>		TIME LEFT LOCATION <u>12:45 PM</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>710.0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>1510 660</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>13 1/4</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>706</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>32"</u>	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>9000</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

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, Circ 50 bbls of H₂O w/ KCL 2nd 10 w/ 10oz Dye, mix & pump 383 sks of cement @ 30% Excess @ 15.2" @ 1.27 yield, or until stopped by Co. mgr. Drop Plug, Displace 51 bbls of H₂O Bump Plug @ 150psi over 1 ft psi wait 5 min Release PSI, wash up Rig Down

Arrived w 600 sks of Cement 4/9/11 KCL 32oz Dye 86.6 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:21 AM Circ 11:04 AM Cement 11:16 AM
Drop Plug 11:44 AM Displace 11:44 AM

10 bbls	7.0/m	440 psi	11:48 AM	Used 380 sks of Cement 19% Excess 79.1 bbls of Slurry
20 bbls	7.0/m	490 psi	11:50 AM	
30 bbls	7.0/m	560 psi	11:51 AM	
40 bbls	7.0/m	610 psi	11:53 AM	
50 bbls	1.0/m	310 psi	11:59 AM	
51 bbls	1.0/m	370 psi	11:59	
<u>Bump Plug NO 11:59 AM</u>				

Left w 250 sks of Cement 2g 3g KCL 22oz Dye 10 bbls of Slurry Back

John Saw copy 6-14-11

AUTHORIZATION TO PROCEED

DATE

DATE