

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9771
LOCATION 34#55-Buttersen Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

DATE <u>4-2-11</u>	WELL NAME <u>Spike State D 16-99 H2</u>	SECTION <u>16</u>	TWP <u>3N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble Energy</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H4P 315</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>4:05 AM</u>		TIME LEFT LOCATION <u>1:15 PM</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 3/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>692</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD-643.27</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>686.45</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 Rig up Safety meeting per Co. man, Press test 1000 psi, 10 bbls sapp, 10 bbls soap. 50 bbls KCL H₂O with dye in 2nd 10 bbls mix and pump til dye is seen, then mix 10 bbls slurry plus tub. e 15.2 lbs e 1.27 yield, Drop plug, displace 49.7 bbls H₂O, bump plug 500 psi over lift press, wait 5 min bleed off press, Washup Rig down. H₂O tested Good. we have 700 sks, 32 oz dye, 10 gts KCL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting @ 10:00 am Circulate @ 10:53 am, Cement @ 11:09 am to 11:34 am, Drop plug @ 11:36 am, displace 11:38 am
10 bbls - 390 psi @ 11:40 am @ 7.0 bbls/min Avg. Cement - 300 psi
20 bbls - 490 psi @ 11:42 am @ 7.0 bbls/min Avg. Displace 500 psi
30 bbls - 590 psi @ 11:43 am @ 7.0 bbls/min Avg. Cement 3.16 bbls/min
40 bbls 550 psi @ 11:45 am @ 6.0 bbls/min Avg. Displace 6.0 bbls/min
49.7 bbls - 290 psi @ 11:50 am @ 1.0 bbls/min
Bump plug no @ 11:50 am, Float collar held,
Used 22% excess = 350 sks, 79.16 bbls slurry
Left with, 350 sks, 22 oz dye, 5 gts KCL

11 bbls slurry to pit

AUTHORIZATION TO PROCEED

TITLE

DATE