

BISON OIL WELL CEMENTING, INC.



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INVOICE # 9779
LOCATION Wells Ranch
FOREMAN Grant Lowe

TREATMENT REPORT

DATE <u>4-16-11</u>	WELL NAME <u>Wells Ranch 15XBB 15-65HN</u>	SECTION <u>15</u>	TWP <u>5N</u>	RGE <u>63W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>H & P Rig #343</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>5:30am</u>		TIME LEFT LOCATION <u>9:00am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 7/8</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>684</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 635.50</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>678.50</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 PST Test 1000 lbs. Circulate 50 bbls H₂O/KEL dye in 2nd 10 bbls x 10oz. Mix and pump Cement @ 15.2 lbs @ 1:27 yield. pump until dye is seen pump 10 bbls slurry plus the tub drop plug displace, 49.1 bbls bump plug @ 500 psi over lift press. wait 5 min. Release press. Wash up, Rig down. Hotstand Arrived with 700 sks, 32oz dye, 10 qts KEL

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting @ 6:18am, Circulate @ 7:26am Cement @ 7:36-7:56 drop plug @ 7:59am, displace 8:00am.

10-bbls	350 psi @ 8:03am @ 7.0 bbls/min	
20-bbls	420 psi @ 8:04am @ 7.0 bbls/min	30% excess
30-bbls	500 psi @ 8:06am @ 7.0 bbls/min	369 sacks
40-bbls	570 psi @ 8:07am @ 6.0 bbls/min	83.46 bbls slurry
49.1-bbls	250 psi @ 8:12am @ 1.0 bbls/min	
Bump plug @ 750 lbs @ 8:12am - Float collar held		

Left with 331 sks, 22oz dye, 5 qts KEL

20 bbls to pit

John Sam CO REP 4-16-11

AUTHORIZATION TO PROCEED TITLE DATE