

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9021

LOCATION Wells Ranch

FOREMAN Kirk Kenworthy  
Mike R. Thaler

## TREATMENT REPORT

DATE <u>6-17-10</u>	WELL NAME <u>Wells Ranch WSE AE 31-078</u>	SECTION <u>31</u>	TWP <u>6N</u>	RGE <u>62W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Ensign SS</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>6:00am</u>		TIME LEFT LOCATION <u>9:00am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>580.5</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>523.97</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>512.92</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24.15</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
			<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
			<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
			<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Reg up, safety meeting, PSI test, circ 3056LS H2O and 10 w/Dye micropump 246 SKS cement at 30% excess at 1.27yeibbl at 15.21SS until cement stops us, Release Plug Displace 33.3 BBLS H2O, Pump Plug at 150 psi and lift psi, wait 5 min Release PSI, wash up Reg Down H2O test OK

Arrived w/ 575SKS cement 4 gallons KCL 16oz Dye 55.4 BBLS slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 7:22am circ 7:52am cement 7:59am

Drop Plug 8:17am Displace 8:17am

used 246 SKS cement 4 gal 30% excess 55.4 BBLS slurry

10 BBLS at 5.5 BBLS/m 8:20am 500psi

20 BBLS at 5.5 BBLS/m 8:23am 600psi

30 BBLS at 2.5 BBLS/m 8:26am 300psi

33.3 BBLS at 1.0 BBLS/m 8:28am 280psi

Pump Plug 8:28am 440psi

Lift w/ 329 SKS cement 3 gallons 1qt KCL 6oz Dye 13 BBLS Back 15

6-17-10

AUTHORIZATION TO PROCEED

TITLE

DATE