

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10284

LOCATION cor 46:57

FOREMAN J. R. Doherty
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? Noud

TREATMENT REPORT

DATE <u>11/13/11</u>	WELL NAME <u>STIMAR C 14-78D</u>	SECTION	TWP	RGE	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble Energy</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>ENS INC</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>11:30</u>		TIME LEFT LOCATION				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>657</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>650</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>	<u>PBTD 601.57</u>		<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 mixer, Safety meeting, Pressure test, circ 40 Bbls H₂O with Dye marker in 200 10 Bbls, m/p cement 1512 lbs/gal, yield 1.27 until stopped by consultant, max to pump 3590. Drop plug & displace 38.25 Bbls to Bump plug @ 150 psi over lift psi.
Arrive 400 sac cement, 4 1/2 gal H₂O, 1600 Dye water - one

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Same as above - Safety @ 1:27 A.M. PSI test 1135 circ. 1:40 max & Pump 1146 Drop plug 2:15 plug down - 2:33 A.M.

Disp - 10 Bbls	4 Bpm	200 psi
20	4	265 psi
30	3.5	325 psi
35	1	200 psi
38	1	375 Pump

used 3590 excess pumped 3 bbls Slurry to pit
used 288 sac - 65 Bbls Slurry
Depart Loc. with 112 sac Cement 4 Gal H₂O & Dye

Robert Doherty 11/13/11
AUTHORIZATION TO PROCEED DATE