

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10288

LOCATION Gutteresen Ranch

FOREMAN J. R. Rouch
P. Noud
LR Nelson

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10/24/11	Gutteresen C33-33D				Weld	

CHARGE TO Noble Energy	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR ENS 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION	TIME LEFT LOCATION

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 680	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 670		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 24 lbs	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION GOOD	PSTD-626.32		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SOEEZE 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	

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: MISC, SAFETY meeting, pressure test lines, Circ 40 Bbls H₂O/KCL with Dye in 2nd 10 Bbls. Mix! Pump cement @ 15.2 lbs, yield 1.27 UNTIL Directed by Co. man. to stop. Diplog plug & Displace 39.75 Bbls to Bump plug @ 150 psi over lift pressure, wash up, Rig down

Arrive location w 475 sacks cement, 5 gal KCL, 16 oz Dye - water test Good

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: SAME AS ABOVE - SAFETY mtg 10:00 Pressure Test 10:15, Circ. 10:19, cm 10:25 Diplog plug 10:54 plug down 11:00

10 Bbls 4.8 Bpm 250 psi

20 Bbls 4.2 Bpm 300 psi

30 Bbls 4.2 Bpm 370 psi

40 Bbls 1.9 Bpm 375 - Bump plug

used 221 sacks 50 Bbls Slurry pumped 1 Bbls Slurry to pit

Deposited with 254 sacks cement, 4.5 gal KCL & Dye

Roger Foster

AUTHORIZATION TO PROCEED

WSS

TITLE

10/24/11

DATE

Customers hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity.