

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9772
LOCATION CR-42433
FOREMAN Grant Lowe

TREATMENT REPORT

DATE 4-3-11	WELL NAME Schmidt K 23-24D	SECTION 23	TWP 4N	RGE 65W	COUNTY Weld	FORMATION
CHARGE TO Noble Energy		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign Rig #126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 10:10pm		TIME LEFT LOCATION 1:30am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 617	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 568.33	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 611.66		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lbs	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[] 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

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 **Rig up, Safety meeting per Co man, Circulate 4066ls H₂O KCL, Dye 16oz in 2nd 1066ls, mix and pump cement @ 75.2 lbs @ yield 1.27 til dye is seen, then pump tub only, displace 36.2 bbls, bump plug @ 150psi over lift pressure, hold for five min. release press Wash up, Rig down. H₂O tested good.**

came with, 700sk, 32oz dye, 20qts KCL

JOB SUMMARY **Safety meeting @ 11:28pm, Circulate @ 12:05am, cement @ 12:14 to 12:34am**

DESCRIPTION OF JOB EVENTS **Drop plug @ 12:35am, Displace @ 12:36am, Bump plug @ 12:44am**

10 bbls - 300psi @ 12:39am @ 7.0 bbls/min

20 bbls - 400psi @ 12:40am @ 7.0 bbls/min

30 bbls - 420psi @ 12:42am @ 6.0 bbls/min

36.2 bbls - 250psi @ 12:44am @ 1.0 bbls/min

Bump plug @ 570psi @ 12:44am, Float Collar held

Used 80% excess - 361sk, 81.52 bbls slurry,

Left with - 339sk, 16oz dye, 16qts KCL

3 bbls slurry to pit

[Signature]
AUTHORIZATION TO PROCEED

TITLE

4-3-11

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.