

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10042
LOCATION Hudson
FOREMAN Rudy Newton

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-2-11	PUA x31-16					

CHANGE TO <u>Noble Energy</u>	OWNER <u>Noble</u>
MAILING ADDRESS	OPERATOR
CITY	CONTRACTOR <u>Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION <u>40 m. k min</u>
TIME ARRIVED ON LOCATION <u>10:30 am</u> <u>Reg 11:00 am</u>	TIME LEFT LOCATION <u>5:00 p.m.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1097'</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>1097'</u> <u>Aug 1040'</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24</u>	PACKER DEPTH	[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>		[] PRODUCTION CASING		INITIAL BPM

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	[] SOOZE CEMENT	FINAL BPM
FINAL DISPLACEMENT	psi	ISIP	psi	[] ACID BREAKDOWN	MINIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	[] ACID STIMULATION	MAXIMUM BPM
MAXIMUM	psi	15 MIN SIP	psi	[] ACID SPOTTING	AVERAGE BPM
MINIMUM	psi			[] MISC PUMP	
				[] OTHER	HYD HP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB MIRU Sm Pressure test to 3000 psc circulate 66 BBL 3% KCl water mth 281 sk
OF Lead type neat cement @ 14.8 lbs per gal water reg 6.3 gal/sk yield 0.37 cu ft/sk mth 100 sks
DEF 111 type 111 3% cal etanol .25 lb/sk cc (Fluke) @ 15.2 lb/gal water reg ok 5.89 gal/sk yield
1.27 cu ft/sk Drop plug Displace w/ 66.1 BBL water land plug w/ 150 lbs over 1.25 pressure
start in rig down 10% excess

JOB SUMMARY		DESCRIPTION OF JOB EVENTS		MIRU	Sm	PT	Circ	mth	Div
		10:30 Am.	2:30 pm.	3:04 pm.	3:13 pm.	3:30 pm.	4:15 pm.		
Drop		shut in	Rig down						
4:17 p.m.		4:40	4:45						
4:19 10 100									
4:22 20 250									
4:25 30 300									
4:28 40 320									
4:32 50 400									
4:36 60 450									
4:38 66 600									

60 BBLs convert to pt

John M Taylor
AUTHORIZATION TO PROCEED

Co. Man
TITLE

6-2-11
DATE