

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9805
LOCATION WEL 55 + 78
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE <u>5-1-11</u>	WELL NAME <u>Mojack usxAB 21-15</u>	SECTION <u>21</u>	TWP <u>7N</u>	RGE <u>59W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Cade 21</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>9:26am</u>		TIME LEFT LOCATION				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12' 4"</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>847.7</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
ADDITIONAL DEPTH <u>779.0</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>8050</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</u>	PACKER DEPTH		[X] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>Good</u>			[] 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, PSI test, Circ 50 bbls of H₂O w/ KCL 2nd 10 w/ 10 oz dye mix + pump 359 SKS of Cement @ 30% Excess @ 15.2" @ 1.27 yd/hr or until stopped by Co man. Drop Plug Displace 49.6 bbls of H₂O Bump Plug @ 150 psi over lift psi wait 5 min Release psi wash up Rig Down

Arrived w 700 SKS of cement 4 gal KCL 32 oz Dye 81.2 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety meeting 10:49 AM Circ 11:07 AM Cement 11:22 AM Drop Plug 11:45 AM Displace 11:45 AM

10 bbls 6.0 l/m 2910 psi	used 276 SKS of Cement
20 bbls 6.0 l/m 2700 psi	0% Excess
30 bbls 6.0 l/m 3800 psi	62.9 bbls of Slurry
40 bbls 6.0 l/m 4900 psi	
49.6 bbls 1.0 l/m 3000 psi	
Bump Plug 6300 psi 11:59 AM	

Left w 424 SKS of Cement 2 gal 3 oz KCL 16 oz Dye 3 bbls of Slurry Back

Roger Foster
AUTHORIZATION TO PROCEED

WSS

TITLE

5-1-11

DATE