

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11640

LOCATION 44-37

FOREMAN Kirk Kallhoff
Pablo, mario

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-26-12	Cargo 614-67 MN	19	4N	6SW	Weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR PD 228			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 5:30am			TIME LEFT LOCATION 1:30pm			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
13 3/4					
TOTAL DEPTH 584	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 534	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 574		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	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: Set cementing rig up, Per roman circ 40 BBLs KCL H2O 2nd 10W/Dye, mix & Pump 396 SKS cement at 30% Excess at 127 yd at 1512 lbs or until it stopped By roman, Release Plug Disp 412 BBLs H2O, Pump Plug at 150psi over L.F.P. Psi, wait 5min Release PSI wash up Rig Down, Arrived w/ 600 SKS cement 4 cell KCL 1602 Dye H2O test OK 834 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Set cementing rig 10:44am circ 12:02am cement 12:22pm stop cement 12:43pm Drop Plug 12:46pm Displace 12:46pm 10 BBLs AT 6 BBLs/m 12:49pm 280psi used 10% Excess used 335 SKS cement 757 BBLs slurry 20 BBLs AT 6 BBLs/m 12:51pm 340psi 30 BBLs AT 6 BBLs/m 12:53pm 350psi 40 BBLs AT 1 BBL/m 12:55pm 220psi 412 BBLs AT 1 BBL/m 12:56pm 220psi Pump Plug 12:56pm 550psi

L.F.P. / 265 SKS cement 3 cell KCL 1602 Dye

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AUTHORIZATION TO PROCEED

TITLE

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.