

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9726

LOCATION Cr 46-29

FOREMAN Kirk Kallhoff
Miller R CR Jessie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-23-11	Five Rivers K16-30D	8	4N	66W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 55
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 8:00am	TIME LEFT LOCATION 7:30am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 613	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 562.64	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 7/8	TUBING CONDITION		TUBING		
CASING DEPTH 666.7		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 24 lb	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			<input checked="" type="checkbox"/> SURFACE PIPE <input type="checkbox"/> PRODUCTION CASING <input type="checkbox"/> SQUEEZE CEMENT <input type="checkbox"/> ACID BREAKDOWN <input type="checkbox"/> ACID STIMULATION <input type="checkbox"/> ACID SPOTTING <input type="checkbox"/> MISC PUMP <input type="checkbox"/> OTHER		
			BREAKDOWN BPM		
			INITIAL BPM		
			FINAL BPM		
			MINIMUM BPM		
			MAXIMUM BPM		
			AVERAGE BPM		
			HYD HHP = RATE X PRESSURE X 40 S		

PRESSURE SUMMARY			
BREAKDOWN OF 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, Packed, circ 3064s KCLH2O 2nd 10w/Dye, mix & Pump 259 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until cement stops us, Release Plug Displace 35.8 BBLs H2O, Bump Plug at 150 psi over LIFT psi, wait 5 min Release psi, wash up Rig Down

Arrived w/ 575 sks cement 4 gallons KCL 16oz Dye H2O test OK
58.5 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 5:50am circ 6:06am cement 6:13am
Drop Plug 6:33am Displace 6:33am

10 BBLs AT 5.5 BBLs/m 6:36am 280 psi used 40% Excess
20 BBLs AT 5.5 BBLs/m 6:38am 390 psi used 279 sks cement
30 BBLs AT 3.5 BBLs/m 6:41am 260 psi 63 BBLs slurry
35.8 BBLs AT 1.0 BBLs/m 6:45am 230 psi
Bump Plug 6:45am 370 psi

L.P. w/ 296 sks cement 3 gal 1st KCL 6oz Dye BBLs Back 16

AUTHORIZATION TO PROCEED

TITLE

DATE

3-23-11

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