

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9528

LOCATION 342-S1

FOREMAN Kirk Kallhoff
mike R. Tucker Guy A

TREATMENT REPORT

DATE 12-8-10	WELL NAME Gulley 17-25	SECTION 17	TWP 6N	RGE 64W	COUNTY weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Cade 21				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 5:00am		TIME LEFT LOCATION 11:00am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 807.1	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 754.93	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 800.58		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 2416	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION good			1 SURFACE PIPE	BREAKDOWN BPM	
			1 PRODUCTION CASING	INITIAL BPM	
			1 SQUEEZE CEMENT	FINAL BPM	
			1 ACID BREAKDOWN	MINIMUM BPM	
			1 ACID STIMULATION	MAXIMUM BPM	
			1 ACID SPOTTING	AVERAGE BPM	
			1 MISC PUMP		
			1 OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psitest, circ 40 BBLs H2O 2nd 104/Dye, mix Pump 341 SKS cement at 30% Excess at 1.27 yield at 15.2 lbs or until all cement stops up. Release Plug Displace 48 BBLs H2O, Pump Plug at 150psi over Li Pt Psi, wait 5min Release Psi wash up Rig Down H2O test OK

Arrived w/ 30 SKS cement 4 gallons KOL 16oz Dye 77.1 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 9:02am circ 9:24am cement 9:34am
Drop Plug 9:58am Displace 9:58am

10 BBLs @ 5.5 BBLs/m 10:00am 360psi
20 BBLs @ 5.5 BBLs/m 10:02am 410psi
30 BBLs @ 5.5 BBLs/m 10:04am 500psi
40 BBLs @ 3.5 BBLs/m 10:08am 390psi
48 BBLs @ 1.0 BBLs/m 10:12am 300psi
Pump Plug 10:12am 480psi

used 307 SKS cement
used 16% Excess
68.8 BBLs slurry

LFH w/ 443 SKS cement 3 gallons KOL 6oz Dye

13 BBLs Back 13

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