

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9325
LOCATION Cutterson Ranch
FOREMAN Daniel Saltzman

TREATMENT REPORT

DATE 10-4-10	WELL NAME ABBEY-D 01-28	SECTION 1	TWP 3N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR ENSIGN 55				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 12:13 AM		TIME LEFT LOCATION 8:15 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 735.1	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 676.0	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 720		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT 25#	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		
PRESSURE SUMMARY			BREAKDOWN BPM INITIAL BPM FINAL BPM MINIMUM BPM MAXIMUM BPM AVERAGE BPM HYD HHP = RATE X PRESSURE X 40.8		
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 to 500psi, Circ 40 bbls of H₂O WCL and 10 w/10oz Dye mix + pump 311 sks of cement @ 30% Excess @ 15.2" @ 1-27 yield, or until stopped by Company Drop Plug Displace bbls of H₂O, Bump Plug @ 150psi over 1. ft psi wait 5 min. Release Psi wash up Rig Down after we see Dye Pump + up + 5 H₂O test OK
Arrived w 500 sks of cement 391 HCL 32oz Dye 70.3 bbls of Slurry**

JOB SUMMARY

DESCRIPTION OF JOB EVENTS **Safety meeting 6:30am Circ 6:28am Cement 6:41am
Drop Plug 7:04am Displace 7:04am**

10 bbls	5.0/m	190 psi	7:08 AM	Used 293 sks of cement 22% Excess 66.2 bbls of Slurry
20 bbls	5.0/m	280 psi	7:10 AM	
30 bbls	5.0/m	350 psi	7:12 AM	
40 bbls	2-5/m	390 psi	7:16 AM	
43 bbls	1.0/m	320 psi	7:18 AM	

Bump Plug 410 psi @ 7:18 am

Left w 207 sks 291 HCL 22oz Dye

11 Slurry Back

10-4-10

AUTHORIZATION TO PROCEED

TITLE

DATE