

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9243
LOCATION WCR 51+20
FOREMAN Daniel Sattman

TREATMENT REPORT

DATE 2-18-10	WELL NAME HP Farms V-17-04	SECTION 17	TWP 2N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR ENSTON 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 6:30pm		TIME LEFT LOCATION 10:50pm				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 925.20	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
POTD 876.78	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 94.96		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 29#	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION GOOD			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> OTHER	HYD HHP = RATE X PRESSURE X 40.8	

INSTRUCTIONS PRIOR TO JOB **Rig up, Safety meeting, Psi test to 500psi, Cier 504bbls of H₂O w/ KCL 2nd 10w/ 1002 Ave, mix + pump 391 sks of Cement @ 30% excess @ 152' @ 1.27 yield or until stopped by Co man, Drop Plug Displace 55.8 bbls of H₂O pump Plug @ 150 psi over left psi wait 5 min release psi washup Rig Down H₂O test OK Arrive w 550 sks of Cement 291 KCL 32oz Dye 88.4 bbls of Slurry**

JOB SUMMARY
DESCRIPTION OF JOB EVENTS **Safety meeting, 8:35pm Cier 8:51am Cement 9:08pm Drop Plug 9:49pm Displace 9:49pm**

10 bbls	5.0 / m	130 psi	9:52 pm
20 bbls	5.0 / m	210 psi	9:54 pm
30 bbls	5.0 / m	380 psi	9:56 pm
40 bbls	5.0 / m	480 psi	10:00 pm
50 bbls	3-5 / m	440 psi	10:03 pm
55.8 bbls	1.0 / m	400 psi	10:07 pm
Bump Plug	550 psi		10:07 pm

**Used 301 sks of Cement
0% excess
48.0 bbls of Slurry**

Left w 249 sks of Cement 301 KCL 22oz Dye 18 bbls of Slurry Back

[Signature]
AUTHORIZATION TO PROCEED

TITLE

7-18-10
DATE