

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9715

LOCATION Hwy 392-415

FOREMAN Kirk Kalish FF
mike R LR Jessie
Tucker

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
3-4-11	Feit E 23-99 H2	23	6N	65W	weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR HEP 315
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:30am	TIME LEFT LOCATION 2:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 689	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 633.5	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 677.6		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE	
CASING WEIGHT 3616	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	

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 Rig up, surface meeting, Psit test, circ 10 BBLs 35 lbs supp, 10 BBLs w/ 1/2 gal soap, 30 BBLs KCL H2O and low dye, mix Pump 371 sls cement at 30% excess at 1.27 yield at 15.2 lbs or until 11 con man stops 45 Release Plug Displace 48.9 bbls H2O, Bump Plug at 150 psi over Lift Psi wait 5 min Release Psi, wash up Rig Down H2O test OK

Arrived w/ 650 sls cement, 75 lbs supp 1/2 gallon soap 4 gal KCL 1600 dye 83.8 BBLs slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS 8:45 PM meeting 10:40 am circ 12:14 pm cement 12:26 pm Drop Plug 12:57 pm Displace 12:57 pm

used 428 sls cement
used 50% excess
96.7 BBLs slurry
10 BBLs at 5.5 BBLs/m 1:02 pm 430 psi
20 BBLs at 5.5 BBLs/m 1:04 pm 450 psi
30 BBLs at 5.5 BBLs/m 1:06 pm 500 psi
40 BBLs at 3.5 BBLs/m 1:08 pm 330 psi
48.9 BBLs at 1.0 BBLs/m 1:12 pm 240 psi
Bump Plug 1:12 pm 390 psi

Lftw/222 sls cement 3 gal 1 gal KCL 600 dye BBLs Back 29

3-4-11
AUTHORIZATION TO PROCEED TITLE DATE