

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8961

LOCATION wells Ranch

FOREMAN Kirk Kellogg
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TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-22-10	wells Ranch Aux AE19-03P	19	6N	62W	weld	
CHARGE TO noble		OWNER				
MAILING ADDRESS		OPERATOR noble				
CITY		CONTRACTOR Ensign 126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 10:15pm		TIME LEFT LOCATION 12:30am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 525	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 475	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 517		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 3215	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 circ 30 bbls KCL 2nd 10w/Dye mix & Pump 222 sks cement at 30% Excess at 1.27 yield at 152 lbs or until cement stops up, Release Plug Displace 28.9 BBLs H2O, Pump Plug at 150psi over Lft PSI, wait 5 min Release PSI, wash up Rig Down M20 test ok
Arrived w/ 700 sks cement 1/2 yellow KCL 1602 Dye Soil BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 10:48pm circ 11:00pm cement 11:19pm

Drop Plug 11:36pm Displace 11:36pm

10 BBLs @ 5.5 BBLs/m 11:40pm 340psi

20 BBLs @ 3.5 BBLs/m 11:42pm 270psi

28.9 BBLs @

Bump Plug 140psi 11:47

Did not Pump Plug Per co/man Lft 25 Feet of cement in Pipe

used 22% Excess
used 214 sks cement
47 BBLs slurry

BBLs Back 6

Charles Flury

AUTHORIZATION TO PROCEED

TITLE

4-22-10

DATE