

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10577

LOCATION 53-48

FOREMAN Kirk Kallio FF
Jassy J. FF

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-24-11	Barman COS-21D	5	4N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Saxon 143
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 2:30am	TIME LEFT LOCATION 5:00am

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 736	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 666.83	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 712.53		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb	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 Pigup, safety meeting, Psitad, Per cement, circ 110564s RLL H2C 2nd 104 Dye mix & Pump.
311 sks cement at 30% excess at 1127 yield at 1512 lbs cement. All cement stops 45, no more H2C, 30% excess.
Release Plug, Disp 412.4 Bbls H2C, Bump Plug at 1500 psi, wait 5 min, Release Psi, wash up
Pig down H2C test ok
Arrived w/ 650 sks cement 4 gal KIL 1600 Dye 7013 Bbls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 3:24am circ 3:42am cement 3:51am
Drop Plug 4:11am Displace 4:11am

Used 43% excess
Used 343 sks cement
77.5 Bbls slurry
10 Bbls at 5.5 Bbls/min 4:15am 230 psi
20 Bbls at 3.5 Bbls/min 4:17am 190 psi
30 Bbls at 3.5 Bbls/min 4:20am 350 psi
40 Bbls at 2.0 Bbls/min 4:23am 440 psi
424 Bbls at 1.0 Bbls/min 4:26am 500 psi
Bump Plug OK, Float held

LFT w/ 307 sks cement 3 gal KIL 600 Dye Bbls Back 8

[Signature] 10-24-11
AUTHORIZATION TO PROCEED TITLE DATE