

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10576

LOCATION 68-67

FOREMAN Kirk Kalbach
Jessey, Jeff

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-23-11	Wells Ranch USX AA 25-63-01 NW	25	6N	63W	Weld	
CHARGE TO Noble			OWNER			
MAILING ADDRESS			OPERATOR Noble			
CITY			CONTRACTOR HEPBIS			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION 6:00am			TIME LEFT LOCATION 3:00pm			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 667	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 619.06	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 4 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 662.41		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] PRODUCTION CASING		INITIAL BPM
			[] SQUEEZE CEMENT		FINAL BPM
			[] ACID BREAKDOWN		MINIMUM BPM
			[] ACID STIMULATION		MAXIMUM BPM
			[] ACID SPOTTING		AVERAGE BPM
			[] MISC PUMP		
			[] OTHER		HYD HHP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rig up, safety meeting, Psit test, Per cement, circ 50 bbls KCL H2O, 2nd 1000 Dye, mix & Pump 359 sks cement at 30% Excess at 1.27 yield at 15.2 lbs or until cement stops up, no more than 50% Excess, Release Plug, Disp 47.8 BBLs H2O, Bump Plug at 150 psi over Lift Pl, wait 5 min Release Pl, wash up Rig Down.
H2O 1st OK
81.2 BBLs slurry

Arrived w/ 650 sks cement 4:11 KCL 1600 Dye
JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 12:13pm circ 12:49pm cement 1:00pm
Drop Plug 1:34pm Displace 1:34pm
10 BBLs At 6.0 BBLs/m 1:44pm 20psi used 30% Excess
20 BBLs At 6.0 BBLs/m 1:49pm 150psi used 359 sks cement
30 BBLs At 5.5 BBLs/m 1:54pm 380psi 81.2 BBLs slurry
40 BBLs At 3.0 BBLs/m 1:56pm 270psi
47.8 BBLs At 1.0 BBLs/m 2:02pm 210psi
Bump Plug NO, Flact hold

LFT w/ 291 sks cement 2:51 3:15 KCL & Dye BBLs Back 1.3
SW Irwin WSS 10/23/11
AUTHORIZATION TO PROCEED TITLE DATE