

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11096
LOCATION Gutherson Ranch
FOREMAN Mike Rosale

TREATMENT REPORT

DATE 7-12-12	WELL NAME Gutherson Ranch D29-67HW	SECTION 89	TWP 3	RGE 63	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 121				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 7:00 AM		TIME LEFT LOCATION 12:30 PM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 5/8	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 865	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PSTD 811.62	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 855		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 361BS	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[] PRODUCTION CASING		INITIAL BPM
			[] SOOZE 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

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 SAFETY meeting PSI Test Circ 60 BBLs had New KCL mix 2nd 10 Dye
mix + Pump 464 SK Cement (3090 Express) yield 1.27. AT 1521BS or until Compensator stopped
DROP Plug Displace 607 BBL New Pump Plus 150 over 1st wait few min Release PSI
Washup Rig Down

ARRIVED 600 SK Cement 1097 KCL 1607 Dye

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 8:45 AM Circ 10:07 AM Cement start 10:25 AM
Cement stop 10:50 AM DROP Plug 10:56 AM Displace 10:56 AM

10 BBLs at 4-9 BBLs 10:59 AM 150 PSI used 3 90 Express
50 BBLs at 5-5 BBLs 11:01 AM 240 PSI used 361 SK Cement
30 BBLs at 5-5 BBLs 11:03 AM 380 PSI slurry 81.6
40 BBLs at 3-2 BBLs 11:05 AM 370 PSI Flow Control did not hold
50 BBLs at 3-2 BBLs 11:09 AM 380 PSI
60 BBLs at 1-1 BBLs 11:16 AM 380 PSI
60 BBLs at 1-1 BBLs 11:14 AM 380 PSI BBLs Back to PSI
Bump Plug 1-1 BBLs 11:26 AM 320 PSI
Left with SK Cement 839 KCL 4 12 Dye (23)

Michael M...
AUTHORIZATION TO PROCEED

TITLE

7-12-12

DATE