

BISON OIL WELL CEMENTING, INC.



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REF INVOICE # 11616

LOCATION Hwy 34-45

FOREMAN Rick Haller FF
P. Sic, wife, Tim

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-17-12	6-012 522 LEH	22	SN	65W	Weld	
CHARGE TO NCHC		OWNER				
MAILING ADDRESS		OPERATOR NCHC				
CITY		CONTRACTOR Ensign 121				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 3:30pm		TIME LEFT LOCATION 8:00pm				

WELL DATA			PRESSURE LIMITATIONS	
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
TOTAL DEPTH 627	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNUBUS LONG	
PBTD 525	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE 9 5/8	TUBING CONDITION		TUBING	
CASING DEPTH 617		TREATMENT VIA	TYPE OF TREATMENT	
CASING WEIGHT 36 lb	PACKER DEPTH		1 SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION good			1 PRODUCTION CASING	INITIAL BPM
			1 SQUEEZE CEMENT	FINAL BPM
			1 ACID BREAKDOWN	MINIMUM BPM
			1 ACID STIMULATION	MAXIMUM BPM
			1 ACID SPOTTING	AVERAGE BPM
			1 MISC PUMP	
			1 OTHER	HYD HHP = RATE X PRESSURE X 4.08

PRESSURE SUMMARY			
BREAKDOWN or CIRCULATING	psi	AVERAGE	psi
FINAL DISPLACEMENT	psi	ISIP	psi
ANNUBUS	psi	5 MIN SIP	psi
MAXIMUM	psi	15 MIN SIP	psi
MINIMUM	psi		

INSTRUCTIONS PRIOR TO JOB Pump, safety meeting, P. test, P. cement, circ-40 BBS Kell H2O, 2nd 1000 Dye, mix & Pump
330 sks cement at 30% excess at 107 yield at 152 BBS or until stopped by cement Release Plug Disp
44.4 BBS H2O Pump Plug At 150 psi our Lift Pl, went 5 min Release Pl, waiting Plug Down
1000 ft ok

Arrived w/ 600 sks cement 1500 Kell 1600 Dye 70.6 BBS slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 6:45am circ 7:00am cement 7:00am slurry 7:23am
Drop Plug 7:26am Displace 7:26am

10 BBS At 6:00 BBS/min 7:29am 280psi
20 BBS At 6:00 BBS/min 7:31am 330psi
30 BBS At 6:00 BBS/min 7:32am 410psi
40 BBS At 3.5 BBS/min 7:36am 310psi
44.4 BBS At 1 BBS/min 7:38am 260psi
Pump Plug 7:38am 580 psi

used 100% excess
used 287 BBS cement
64.9 BBS slurry

Left w/ 313 sks cement 3000 Kell 600 Dye BBS Prod 12

10-17-12
DATE

AUTHORIZATION TO PROCEED
Customer hereby acknowledges and specifically agrees to the terms and conditions on this work order, including, without limitation, the provisions on the reverse side hereof which include the release and indemnity