

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11265

LOCATION Wells Ranch

FOREMAN Mike Rosake

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-13-12	Wells Ranch AE 08 -63-1 1N				Weld	

CHARGE TO	Noble	OWNER	
MAILING ADDRESS		OPERATOR	Noble
CITY		CONTRACTOR	Ensign 134
STATE ZIP CODE		DISTANCE TO LOCATION	
TIME ARRIVED ON LOCATION	1:45 AM	TIME LEFT LOCATION	5:45

WELL DATA

PRESSURE LIMITATIONS

HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL	INSTRUCTED
13 3/4				
TOTAL DEPTH	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG.	
735				
PERF'D 680.3	TUBING WEIGHT	OPEN HOLE	STRING	
CASING SIZE	TUBING CONDITION		TUBING	
9 5/8				
CASING DEPTH		TREATMENT VIA	TYPE OF TREATMENT	TREATMENT RATE
725			1 SURFACE PIPE	BREAKDOWN BPM
CASING WEIGHT	PACKER DEPTH		1 PRODUCTION CASING	INITIAL BPM
36 lbs			1 SQUEEZE CEMENT	FINAL BPM
CASING CONDITION			1 ACID BREAKDOWN	MINIMUM BPM
Good			1 ACID STIMULATION	MAXIMUM BPM
			1 ACID SPOTTING	AVERAGE BPM
			1 MISC PUMP	
			1 OTHER	

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	HYD HP = RATE X PRESSURE X 40.8
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, PST TEST 500 PSI Circ 50 BBLs H₂O / KCL mix 2nd 10 Dye, mix + Pump 396 sls Cement (30% Excess) 1.27 yield ct 152 lbs or until Company men stopper us; Release Plug Displace 32.5 BBLs H₂O Bump Plug 150 PSI over 1st Release PST. PST TEST Casing 1000 PSI wait 15 min Release, Washup Rig Down. Arrived with 600 sls Cement 10 gals 1602 Dye

JOB SUMMARY DESCRIPTION OF JOB EVENTS Safety meeting 3:01 AM Circ 3:50 AM Cement START 3:50 AM Cement STOP 4:10 AM Drop Plug 4:14 AM Displace 4:14 AM

10 BBL at 5:5 BBLs 4:16 AM 350 PSI Used 10 % Excess
20 BBLs at 5:5 BBLs 4:18 AM 420 PSI Used 935 sls Cement
30 BBLs at 5:5 BBLs 4:20 AM 4:22 AM Slurry 75-17
40 BBL at 4:8 BBLs 5:20 PSI 4:22 AM 5:20 PSI PST TEST NO
50 BBLs at 13-5 BBLs 4:24 AM 4:20 PSI
52.5 BBLs at 13-8 BBLs 4:26 AM 4:00 PSI
Bump Plug 1:8 BBLs 4:28 AM 6:20 BBLs Bkt to PT

Left with 52.265 Cement. Drop Plug 11 15

[Signature]

Well site Supervisor

9-13-12

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers 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