

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 11321
LOCATION 68-69
FOREMAN Kirk HallboFF
Palo mario

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-9-12	Wells Ranch AE 08-68 14N	8	6N	62W	Weld	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Eisner 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>4:30am</u>		TIME LEFT LOCATION <u>9:30am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
13 3/4					
TOTAL DEPTH <u>816</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBD 764</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>806</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>3615</u>	PACKER DEPTH		SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			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

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: 2 gal, soft foam, 150 psi, Per cement (60 BBLs KEL H2O, 2nd 104 Dye mix Pump)
440 SKS cement at 30% excess at 1127 yield at 1512 BPS cement all stopped By cement Release Plug Disp
59 BBLs H2O, Pump Plug at 150 psi over Lift Psi, wait 5 min Release Psi, wash up, Rig team
H2O test OK

Arrived w/ 750 SKS cement 4 gal Kel 16oz Dye 99.5 BBLs slurry

JOB SUMMARY
 DESCRIPTION OF JOB EVENTS: soft foam, 150 psi, Per cement (60 BBLs KEL H2O, 2nd 104 Dye mix Pump)

Dep Plug 8:31am Displace 8:31am
10 BBLs At 6 BBLs/min 8:32am 300psi used 14% excess
20 BBLs At 6 BBLs/min 8:34am 300psi used 386 SKS cement
30 BBLs At 6 BBLs/min 8:35am 350psi 87.3 BBLs slurry
40 BBLs At 6 BBLs/min 8:37am 450psi
50 BBLs At 6 BBLs/min 8:39am 500psi
59 BBLs At 1 BBL/min 8:42am 300psi
Pump Plug 8:42am 540psi

Lifted w/ 364 SKS cement 2 gal 2 gals Kel 6oz Dye BBLs BBL 14

[Signature]
 AUTHORIZATION TO PROCEED

Well Site Supervisor
 TITLE

9-9-12
 DATE

Customers hereby acknowledge and specifically agree 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.