

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 9548
LOCATION Wells Ranch
FOREMAN David S. Hemme

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-11-11	Wells Ranch AA24-03X	24	6N	63W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade 22</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:30 AM</u>	TIME LEFT LOCATION <u>5:45 PM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>6710</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PTD 619.07</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>6620.07</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24#</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	TREATMENT RATE	
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING	BREAKDOWN BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	INITIAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	FINAL BPM	
			<input type="checkbox"/> ACID STIMULATION	MINIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	MAXIMUM BPM	
			<input type="checkbox"/> MISC PUMP	AVERAGE BPM	
			<input type="checkbox"/> OTHER	HYD HP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY

BREAKDOWN or CIRCULATING	psi	AVERAGE	psi	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP	
MINIMUM	psi			<input type="checkbox"/> OTHER	

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, psi test. Circ 40 bbls of H₂O KCL 2nd 10 W Dye, mix + pump 284 sks of Cement @ 30% Excess @ 15.2" @ 1.2 T yield or until stopped by command
Drop Plug, Displace 39.4 bbls of H₂O Bump Plug @ 150 psi over 1 ft psi, wait 5 min Release
psi wash up Rig Down H₂O test OK

Arrival @ 4:25 sks of Cement 5% KCL 3202 Dye @ 4.2 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 3:46 pm Circ 4:14 pm Cement 4:23 pm
Drop Plug 4:48 pm Displace 4:48 pm

10 bbl 5.0/m 170 psi 4:49 pm
20 bbl 5.0/m 220 psi 4:52 pm
30 bbl 5.0/m 350 4:58 pm
39.4 bbls 1.0/m 310 5:02 pm
Bump Plug 4:20 5:02 pm

21% Excess
264 sks of Cement
59.7 bbls of Slurry

Left W 161 sks 4% KCL 2202 Dye

10 bbls of Slurry Back

S. B. G.

1-11-11

WSS

1-11-11

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.