

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 # 10584

LOCATION 49-46

FOREMAN Kirk Kallhoff
Jesse Rob

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
11-7-11	Nel PL 18-20D	18	4N	64W	weld	
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 136				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 7:00am		TIME LEFT LOCATION 10:45am				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 697	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD 643.78	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 685		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24.1	PACKER DEPTH		[] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION good			[] 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 Rig up, safety meeting, Psi test, Pericomen, circ 405515 KCL H2O, 2nd 104 Dye, mix & Pump 295 SKS cement at 30% Excess at 127 yd at 1512 lbs or until roman stops us, no more than 50% Excess, Release Plug Disp 41 BBls H2O, Bump Plug At 150 Psi over Lift psi, wait 5min, Release Psi wash up Rig Down H2O test OK
Arrived w/ 750 SKS cement 4 gal KCL 16oz Dye 66.7 BBls slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 8:57am circ 9:22am cement 9:30am
Drop Plug 9:51am Displace 9:51am

10 BBls At 5.0 BBls/m 9:54am 150psi used 10% Excess
20 BBls At 5.0 BBls/m 9:56am 280psi used 250 SKS cement
30 BBls At 5.0 BBls/m 9:58am 360psi 56.5 BBls slurry
40 BBls At 1.0 BBls/m 10:02am 270psi
41 BBls At 1.0 BBls/m 10:03am 280psi
Bump Plug 10:03am 460psi

LFHw/500 SKS cement 3 gal KCL 6oz Dye BBls Back 12

AUTHORIZATION TO PROCEED
TITLE
DATE 11-7-11

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.