

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 # 9600

LOCATION cr 32-13

FOREMAN Kirk Kallhoff
mike R. Guy A

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
1-14-11	SeRich P19-21D	19	3N	67W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:30am</u>	TIME LEFT LOCATION <u>11:30am</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>425</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>872.97</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>918.5</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM	
			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM	
			<input type="checkbox"/> MISC PUMP		
			<input type="checkbox"/> 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, Pst test, circ 56 bbls KCL H2O 2nd 104/ Dye, misc Pump 391 SKS
cement at 30% excess at 1.27 yield at 15.2 lbs, or until 110 man shps us, Re/pack Plug Displace 55.6
Bbls H2O, Bump Plug at 150psi over Lift Psi, wait 5 min Release PSE, wash up Rig Down
H2O test OK

Arrived w/ 650 SKS cement 4 gallons KCL 16oz Dye 88.3 Bbls slurry

JOB SUMMARY DESCRIPTION OF JOB EVENTS safety meeting 9:31am circ 10:06am cement 10:18am

Drop Plug 10:38am Displace 10:38am
10 Bbls At 5.5 bbls/m 10:40am 390psi used 1140 excess
20 Bbls At 5.5 bbls/m 10:42am 440psi used 336 SKS cement
30 Bbls At 5.5 bbls/m 10:44am 550psi 75.4 bbls slurry
40 Bbls At 5.5 bbls/m 10:46am 630psi
50 Bbls At 3.5 bbls/m 10:49am 490psi
55.6 Bbls At 1.0 Bbls/m 10:52am 400psi
Bump Plug 10:52am 540psi

LP 314 SKS cement 2 gallons 3pts KCL 6oz Dye Bbls Back 13

Tam Damm AUTHORIZATION TO PROCEED Rig Supervisor TITLE 1-14-11 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.