

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10343

LOCATION WCR 31 +4

FOREMAN Mike Rosalez
LIP MARK

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-22-11	RAC1 USX WW 27-12	27	1N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Ensign 136</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>10:45</u>	TIME LEFT LOCATION

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1445</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PROTD 1392.02</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>1437.47</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 LBS</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>			[] SURFACE PIPE		
			[] PRODUCTION CASING		
			[] SQUEEZE CEMENT		
			[] ACID BREAKDOWN		
			[] ACID STIMULATION		
			[] ACID SPOTTING		
			[] MISC PUMP		
			[] OTHER		
			BREAKDOWN BPM		
			INITIAL BPM		
			FINAL BPM		
			MINIMUM BPM		
			MAXIMUM BPM		
			AVERAGE BPM		
			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, Circulate 441 SKS H₂O/KCL H₂O mix Pump Lead 441 SKS Next Cement at 100% Excess Yield 1.32 AT 14.8 LBS then pump 100 SKS BFW III 3% Cement AT 15.2 LBS Displace 88.6 BBLs H₂O Release Plug Displace 88.6 BBLs H₂O Bump Plug at 150 PSI out lift wait 5 min Rig Down, Washup. Slurry for lead 103.6 Tail 22.6

Arrived with 430 SKS Next Cement + 220 SKS at BFW III 3% cement 4 gal KCL / 16 oz Dye Slurry

JOB SUMMARY	
DESCRIPTION OF JOB EVENTS <u>Safety meeting 3:50 PM Circulate 4:18 PM Cement 4:35 PM</u>	
<u>DROP Plug 5:13 PM Displace 5:13 PM</u>	
<u>10 BBLs AT 5.5 BBLs/m 5:17 PM 260 PSI</u>	<u>Lead 20 % Excess</u>
<u>20 BBLs AT 5.7 BBLs/m 5:19 PM 320 PSI</u>	<u>Tail 8 % Excess</u>
<u>30 BBLs AT 5.7 BBLs/m 5:21 PM 450 PSI</u>	<u>441 SKS Cement used Lead</u>
<u>40 BBLs AT 5.8 BBLs/m 5:23 PM 580 PSI</u>	<u>100 SKS Cement used Tail</u>
<u>50 BBLs AT 5.0 BBLs/m 5:25 PM 600 PSI</u>	<u>103.6 Slurry Lead</u>
<u>60 BBLs AT 4.8 BBLs/m 5:27 PM 660 PSI</u>	<u>22.6 Slurry Tail</u>
<u>70 BBLs AT 4.7 BBLs/m 5:29 PM 710 PSI</u>	
<u>80 BBLs AT 3.5 BBLs/m 5:32 PM 730 PSI</u>	
<u>88.6 BBLs AT 1.5 BBLs/m 5:35 PM 700 PSI</u>	<u>BBLs BACK 38</u>
<u>DROP Plug 5:35 PM 1090 PSI Left with 120 SKS Next 120 SKS BFW III 3% Cement</u>	

Michael Moguel
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.