

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10633
LOCATION WCR 76 + 57
FOREMAN Mike Rosale

TREATMENT REPORT

DATE 12-5-11	WELL NAME LANG USX AB 35-190	SECTION 35	TWP 7	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 121				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 12:05		TIME LEFT LOCATION 10:05				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 871	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
ABTD 822.03	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 867.06	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT 241BS	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION Good		<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, PSE TEST 500 PSE Circulate 50 - BBls head 1420 KCL mix 2nd 10 Dye. mix + Pump 368 sks Cement (30% EXCESS) yield 127 at 15-21BS or until pump pressure stops us. Release Plug Displace 52.3 BBls 1420, Bump Plug 150 PSE over lift wait 5 min Release PSE wash up Rig down**
1420 TEST
Arrived on location with 575 sks 69% KCL 16 oz Dye Slurry 83.2

JOB SUMMARY
DESCRIPTION OF JOB EVENTS **Safety meeting 7:15 Circulate 8:09 m Cement 8:21 pm**
Drop Plug 8:55 Am Displace 8:55 Am

10 BBls at 5-3 BBls 8:58 240 PSE	USED 9 % EXCESS
20 BBls at 5-3 BBls 9:00 300 PSE	USED 312 SK Cement
30 BBls at 5-0 BBls 9:02 360 PSE	70.5 Slurry
40 BBls at 4-0 BBls 9:07 370 PSE	
50 BBls at 1-5 BBls 9:10 340 PSE	
52.3 BBls at 1-5 BBls 9:12 330 PSE	Flow Collar held
BBls Back	
Bump Plug 1-5 BBls 9:12 540 PSE	19
Left well	SKs Cement 9% KCL & Dy

Jon [Signature] AUTHORIZATION TO PROCEED
WSS TITLE
12-5-11 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.