

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10630

LOCATION WCR 72 +57

FOREMAN Mike Rosalee
L.R. MARK

TREATMENT REPORT

DATE <u>11-30-11</u>	WELL NAME <u>Pettinger USX AB 27-01</u>	SECTION <u>27</u>	TWP <u>7</u>	RGE <u>64</u>	COUNTY <u>well</u>	FORMATION
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>Cade 21</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>12:00</u>			TIME LEFT LOCATION <u>3:30</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>780</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 727.08</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>772.72</u>	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT <u>24105</u>	PACKER DEPTH	<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION <u>Good</u>		<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 Sattymaking, PSE TEST 500 PSE Circulate 40 BBls H2O / KCL mix
20 Dye, mix + Pump 330 SKS Cement (30% EXCESS) yield 1.27 at 15-21 BPS or until
Companyman stoppes us. Release Plug Displace 46.3 BBls H2O, Bump Plug 150 PSE Over/lt
wait 5 min Release PSE, Washup, P.y Down 1 H2O Test Good
Arrived with 650 SKS Cement 10 gals KCL 16 oz Dye 5 Slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Sattymaking 1:10 AM Circulate 1:46 AM Cement 1:46 AM
Drop Plug 2:09 AM Displace 2:09 AM
10 BBls at 5-5 BBls/m 2:12 270 PSE used 9 0% EXCESS
20 BBls at 5-5 BBls/m 2:14 330 PSE used 278 SKS Cement
30 BBls at 5-0 BBls/m 2:16 450 PSE Slurry 628
40 BBls at 3-5 BBls/m 2:20 410 PSE
46.3 BBls at 1-5 BBls/m 2:23 310 PSE
Bump Plug 1-5 BBls/m 2:23 590 PSE

Flow Coller held BBls Back P.T
Left with SKS Cement gals KCL 0 Dye

11-30-11
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.