

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8703
LOCATION WCR 78+59
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
12-11-09	Thunderhead USX AB 25-99HZ	25	7N	64W	Weld	
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>ENSIGN Rig 136</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>12:00 am.</u>			TIME LEFT LOCATION <u>7:30 am.</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>757</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 699.43</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>745.29</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 lb.</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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Circ 45 bbls H₂O with KCL + Dye x 10 in 2nd 10 bbls, Mix + pump a min of 200 sacks cement, 45.2 bbls slurry to a max of 253 sacks cement, 57.2 bbls slurry at 152 lbs 1.27 yield or tell Dye is seen, Drop plug, Displace 54 bbls H₂O, Bump plug at no more than 150 Psi over lift Psi, Wait 5 min. then bleed off Psi, Wash up, Rig down, We have 650 sacks cement, 22 oz. Dye, 11 qts KCL, Water Tested

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 4:01 am, Circ 5:33 am, Cement 5:44 am
Drop plug 6:00 am, Displace 6:02 am.

10 bbls 310 Psi 6:06 am 7.0 bbls/m
20 bbls 400 Psi 6:08 am 7.0 bbls/m
30 bbls 540 Psi 6:09 am 7.0 bbls/m
40 bbls 550 Psi 6:11 am 7.0 bbls/m
50 bbls 430 Psi 6:18 am 4.5 bbls/m
54 bbls 280 Psi 6:21 am 8.6 bbls/m
Bump Plug 370 Psi at 6:21 am, Avg cement 420 Psi, Avg Displace 500 Psi,
USED 67% Excess = 311 Sacks, 70.3 bbls slurry, Left with 339 sacks cement,
12 oz. Dye, 6 qts KCL, 18 bbls slurry to the pit

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.