

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9585
LOCATION WCR 78+55
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
2-5-11	GABE/ USX AB 21-14	21	7N	64W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade Rig 22</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>11:00am</u>	TIME LEFT LOCATION <u>4:30pm.</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>784</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 734.10</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>777.20</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2416.</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, Safety meeting, PER COMPANY MAN, CIRC 40 bbls H₂O with KCL + DYE 10 in 2nd 10 bbls, Mix + pump Tell Dye is seen then pump tub only at 15.2 lbs 1.27 yield, Drop plug, Displace 46.7 bbls H₂O, Bump plug at 150 Psi OVER Lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H₂O tested good, We have 550 SKS cement 32 oz. Dye, 13 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 2:28pm CIRC 3:01pm, CEMENT 3:07pm to 3:22pm
Drop Plug 3:28pm, Displace 3:29pm
10 bbls 280 Psi 3:33pm 7.0 bbls/m
20 bbls 350 Psi 3:34pm 7.0 bbls/m
30 bbls 420 Psi 3:36pm 7.0 bbls/m
40 bbls 500 Psi 3:38pm 6.0 bbls/m
46.7 bbls 330 Psi 3:41pm 1.0 bbls/m
Bump Plug 590 Psi at 3:41pm
USED 40% EXCESS = 357 SKS, 80.74 bbls Slurry
Left with 193 SKS, 22 oz Dye, 9 Qts KCL
Avg Cement 4.24 bbls/m
13 bbls Slurry To The Pit

AUTHORIZATION TO PROCEED

TITLE

DATE

2-5-11

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.