

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10370

LOCATION WCR 31+4

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-14-11	Vista USX WW 33-060	33	1N	66W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Saxon Rig 145</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>5:20 pm</u>	TIME LEFT LOCATION <u>9:45 pm</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1465</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTD 1415.99</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	
CASING DEPTH <u>1457 11</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 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 HP = 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, for Company Man, Cir 40 bbls H₂O with KCL, Lead Mix + pump 20% Excess to Cover 1174' = 448 sks, 105.32 bbls Slurry at 148 lb/s, 132 yield, Tail Mix + pump 0% Excess to Cover 271' + shoe = 100 sks, 22.61 bbls Slurry at 15.2 lbs 127 yield, Drop Plug, Displace 90.1 bbls 1120, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Washup, Rig down, H₂O tested good, We have 500 sks Lead, 200 sks Tail, 20 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 7:10 pm, Cir 7:55 pm, Cement 8:03 pm to 8:40 pm

Drop Plug 8:42 pm, Displace 8:43 pm

10 bbls 240 Psi 8:45 pm 70 bbls/m 60 bbls 520 Psi 8:54 pm 70 bbls/m

20 bbls 240 Psi 8:47 pm 70 bbls/m 70 bbls 620 Psi 8:55 pm 70 bbls/m

30 bbls 300 Psi 8:49 pm 70 bbls/m 80 bbls 700 Psi 8:57 pm 70 bbls/m

40 bbls 390 Psi 8:50 pm 70 bbls/m 90 bbls 530 Psi 9:00 pm 1.0 bbls/m

50 bbls 470 Psi 8:52 pm 70 bbls/m Bump Plug 750 Psi at 9:00 pm Float Collar Held

USED LEAD 20% Excess = 448 sks, 105.32 bbls Slurry

Tail 0% Excess = 100 sks, 22.61 bbls Slurry Avg Cement 3.45 bbls/m

Left with 52 sks Lead, 100 sks Tail, 16 qts KCL

25 bbls Slurry TO THE PIT

AUTHORIZATION TO PROCEED

TITLE

9-14-11

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