

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10360

LOCATION WCR 47+16

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-5-11	POWERS X 27-15	27	2N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>Cade Rig 21</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>12:15 AM</u>	TIME LEFT LOCATION <u>8:30 AM</u>

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH <u>1005</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 954.63</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>998.05</u>		TREATMENT VIA	TYPE OF TREATMENT		
CASING WEIGHT <u>24 lb.</u>	PACKER DEPTH		TREATMENT RATE		
CASING CONDITION <u>Good</u>			<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
			<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, LEAD - Mix + pump 25% Excess to cover 734' = 287 sks, 67.47 bbls slurry, ~~tail~~ at 148 lbs. 1.32 yield, Tail - Mix + pump 0% Excess to cover 271' shoe = 100 sks, 22.61 bbls slurry at 15.2 lbs, 1.27 yield, Drop plug, Displace 60.8 bbls. H₂O, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, we have 400 sks Lead, 200 sks Tail, 11 qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety Meeting 6:40am, CIRC 7:00am, Cement 7:07am, to 7:30am

Drop Plug 7:31am, Displace 7:32am

10 bbls 250 Psi 7:35am 7.0 bbls/lm

20 bbls 310 Psi 7:36am 7.0 bbls/lm

30 bbls 400 Psi 7:38am 7.0 bbls/lm

40 bbls 500 Psi 7:42am 7.0 bbls/lm

50 bbls 580 Psi 7:44am 7.0 bbls/lm

60.8 bbls 460 Psi 7:46am 1.0 bbls/lm

Bump Plug 650 Psi at 7:46am Float Collar Held

USED 25% Excess on Lead 287 sks, 67.47 bbls slurry 0% Excess Tail 100 sks, 22.61 bbls

Left with 113 sks Lead, 100 sks Tail, 7 qts KCL

20 bbls slurry to the Pit

[Signature]

AUTHORIZATION TO PROCEED

TITLE

9-5-11

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