

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10301

LOCATION 47 H/L

FOREMAN Mike Rosale
Richard Marks KKKK

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-30-11	Powers x22-31	2	12N	65W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Cade 21
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 5:15	TIME LEFT LOCATION 12:30 PM

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 876	TUBING DEPTH	SHOTS/FT			
DBTD 823.57	TUBING WEIGHT	OPEN HOLE			
CASING SIZE 8 5/8	TUBING CONDITION				
CASING DEPTH 868.94		TREATMENT VIA			
CASING WEIGHT 241BS	PACKER DEPTH				
CASING CONDITION Good					

PRESSURE SUMMARY			TYPE OF TREATMENT		TREATMENT RATE
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
MINIMUM psi			<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, PSI TEST, Circulate 50 BBls H₂O / KCL mix 2nd 10 Dye Pump 371 SKs Cement (30% Excess) yield 127, 15-21BS, or until Company men stop us - But no more than 50% Excess per Company Men, Release Plug Displace 52.4 BBls H₂O Pump Plug at 150 PSI over left wait 5 min Release PSI Wash up Rig down H₂O Test

Arrived with 750 SKs Cement 4 gal. KCL 16.02 Dye 1 Sugar Slurry 83.9%

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety meeting 10:23 AM Circulate 10:54 AM Cement 11:06 AM
DROP Plug 11:36 AM Displace 11:36 AM

10 BBls at 5-0 BBl/m 11:39 AM 290 PSI Used 35% Excess
20 BBls at 5-0 BBl/m 11:41 AM 380 PSI Used 385 SKs Cement
30 BBls at 5-0 BBl/m 11:43 AM 420 PSI Slurry 87.0
40 BBls at 5-0 BBl/m 11:46 AM 540 PSI
50 BBls at 3-0 BBl/m 11:50 AM 400 PSI
52.4 BBls 1-0 BBl/m 11:51 AM 380 PSI
Bump Plug 11:51 530 PSI

Left with 365 SKs Cement 2 gal 3 gals & Dye BBls Back to surface 9

 Co. Man
AUTHORIZATION TO PROCEED
DATE 8-30-11

Customers hereby acknowledge and specifically agree 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