

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10723

LOCATION WCR 127+104

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-19-12	Rehn LD 09-624N	9	9N	58W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR H&P Rig 326
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:15am	TIME LEFT LOCATION 12:15pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 1501	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
PBTD 1452.77	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE 9 5/8	TUBING CONDITION			TUBING	
CASING DEPTH 1491		TREATMENT VIA		TYPE OF TREATMENT	TREATMENT RATE
CASING WEIGHT 40lb	PACKER DEPTH			<input type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM
CASING CONDITION Good				<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM
				<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM

PRESSURE SUMMARY				TREATMENT RATE	
BREAKDOWN or CIRCULATING psi	AVERAGE psi			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi			<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi			<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi			<input type="checkbox"/> MISC PUMP	
MINIMUM psi				<input type="checkbox"/> OTHER	HYD 100" = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB Rigup, Safety meeting, Ps. Test to 500 Ps, Circ 50 bbls H₂O with KCL, Lead Mix + pump 20% Excess To Cover 1297' E 485 SKs, at 13 lbs. 1.67 yield, Tail Mix + pump 0% Excess to Cover 204' + Shoe = 100 SKs at 15.2 lbs 1.27 yield, Drop plug, Displace 110.1 bbls H₂O, Bump plug at 150 Ps, over Lift P, Wait 5 min then bleed off Ps, Washup, Rig down, We have 700 SKs, 22 Qts KCL, 32 oz Dye.

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 9:25am, Circ 9:57am, Cement 10:05am to 10:53am

Drop Plug 10:55am, Displace 10:56am 70 bbls 520 Psi 11:10am 6.0 bbls/min
10 bbls 340 Psi 10:59am 6.0 bbls/min 80 bbls 560 Psi 11:11am 6.0 bbls/min
20 bbls 340 Psi 11:01am 6.0 bbls/min 90 bbls 650 Psi 11:13am 6.0 bbls/min
30 bbls 340 Psi 11:03am 6.0 bbls/min 100 bbls 670 Psi 11:15am 6.0 bbls/min
40 bbls 340 Psi 11:04am 6.0 bbls/min 110.1 bbls 480 Psi 11:18am 1.0 bbls/min
50 bbls 380 Psi 11:06am 6.0 bbls/min Bump Plug 760 Psi
60 bbls 430 Psi 11:08am 6.0 bbls/min 20% Excess 0% Excess

USED 485 SKs Lead, 145.97 bbls Slurry, 100 SKs Tail 22 bbls Slurry

Total used 585 SKs, 168.58 bbls

Left with 115 SKs, 17 Qts KCL, 32 oz Dye

22 bbls Slurry To The Pit

[Signature]

AUTHORIZATION TO PROCEED

Rig Supervisor

TITLE

9-19-12

DATE

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