

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 8365

LOCATION WCR 18+45.5

FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
8-26-09	ROBERT POWERS X 2233	22	2N	65W	Weld	

CHARGE TO <u>Noble</u>	OWNER
MAILING ADDRESS	OPERATOR <u>Noble</u>
CITY	CONTRACTOR <u>ENSIGN Rig 128</u>
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION <u>4:00 pm.</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>909</u>	TUBING DEPTH	SHOTS/FT		SURFACE PIPE ANNULUS LONG	
<u>PBTD 857.11</u>	TUBING WEIGHT	OPEN HOLE		STRING	
CASING SIZE <u>8 5/8</u>	TUBING CONDITION			TUBING	

CASING DEPTH <u>900.72</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

PRESSURE SUMMARY					
BREAKDOWN or CIRCULATING psi	AVERAGE psi		<input type="checkbox"/> SQUEEZE CEMENT		FINAL BPM
FINAL DISPLACEMENT psi	ISIP psi		<input type="checkbox"/> ACID BREAKDOWN		MINIMUM BPM
ANNULUS psi	5 MIN SIP psi		<input type="checkbox"/> ACID STIMULATION		MAXIMUM BPM
MAXIMUM psi	15 MIN SIP psi		<input type="checkbox"/> ACID SPOTTING		AVERAGE BPM
MINIMUM psi			<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, CIRC 50 bbls H₂O with KCL + Dyex 15 in 2nd 10 bbls + Last 5 bbls, Mix + pump 10% Excess = 295 Sacks cement at 14.5 lbs 1.4 yield or till Dye is seen, Drop plug, Displace 54.5 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, wait 5 min then bleed off Psi, Washup, Rig down, Rig to CIRC at more than 7.5 bbls/m to pop out Tabs on float collar, We have 600 Sacks cement, 16 oz Dye, 10 Qts KCL, 73.55 bbls SLURRY

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 6:41 am, CIRC 6:49 am, Cement 6:59 am.

Drop Plug 7:23 am, Displace 7:24 am

10 bbls 220 Psi 7:28 am 7.0 bbls/m

20 bbls 320 Psi 7:30 am 7.0 bbls/m

30 bbls 410 Psi 7:32 am 7.0 bbls/m

40 bbls 490 Psi 7:34 am 7.0 bbls/m

50 bbls 370 Psi 7:36 am 4.5 bbls/m

54.5 bbls 290 Psi 7:39 am 7.7 bbls/m

USED 31% EXCESS = 352 Sacks cement, 87.76 bbls SLURRY

Left with 248 Sacks cement, 0 oz Dye, 5 Qts KCL

Bump Plug 380 Psi at 7:39 am

10 bbls SLURRY TO THE PIT

912 [Signature]

AUTHORIZATION TO PROCEED

[Signature]

TITLE

8-26-09

DATE