

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10367

LOCATION WCR 51+16

FOREMAN CALVIN REIMERS

## TREATMENT REPORT

DATE 9-12-11	WELL NAME Land USX Y 31-C1	SECTION 31	TWP 2N	RGE 64W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign Rig 126				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 2:45 AM		TIME LEFT LOCATION 6:45 AM				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 988	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 938.61	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 990.72		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 24 lb.	PACKER DEPTH		[X] SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION Good			[ ] PRODUCTION CASING		INITIAL BPM
PRESSURE SUMMARY			[ ] SQUEEZE CEMENT		FINAL BPM
BREAKDOWN OF CIRCULATING psi	AVERAGE psi		[ ] ACID BREAKDOWN		MINIMUM BPM
FINAL DISPLACEMENT psi	ISIP psi		[ ] ACID STIMULATION		MAXIMUM BPM
ANNULUS psi	5 MIN SIP psi		[ ] ACID SPOTTING		AVERAGE BPM
MAXIMUM psi	15 MIN SIP psi		[ ] MISC PUMP		
MINIMUM psi			[ ] OTHER		HYD HP = RATE X PRESSURE X 40.8

INSTRUCTIONS PRIOR TO JOB: Rig up, Safety meeting, Per Company Man, Circ 40 bbls H<sub>2</sub>O with KCL, Lead Mix + pump 20% Excess to cover 717' = 270 sks, 63.47 bbls slurry at 48 lbs. 1.32 yield, Tail Mix + pump 0% Excess to cover 271' + shoe = 100 sks, 22.61 bbls slurry at 152 lbs. 1.27 yield, Drop plug, Displace 59.7 bbls H<sub>2</sub>O, Bump plug at 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H<sub>2</sub>O tested good, We have 400 sks Lead, 200 sks Tail, 10 qts KCL,

### JOB SUMMARY

DESCRIPTION OF JOB EVENTS: Safety Meeting 4:40 am, Circ 5:15 am, Cement 5:21 am, to 5:41 am

Drop Plug 5:42 am, Displace 5:43 am

10 bbls 250 Psi 5:46 am 7.0 bbls/min

20 bbls 340 Psi 5:47 am 7.0 bbls/min

30 bbls 430 Psi 5:49 am 7.0 bbls/min

40 bbls 500 Psi 5:51 am 7.0 bbls/min

50 bbls 600 Psi 5:53 am 6.0 bbls/min

59.7 bbls 400 Psi 5:56 am 1.0 bbls/min

Avg Cement 4.3 bbls/min

Bump Plug 600 Psi at 5:56 am Float Collar Held

USED Lead 20% Excess = 270 sks 63.47 bbls slurry, Tail 0% Excess 100 sks, 22.61 bbls, Left with 130 sks Lead, 100 sks Tail, 6 qts KCL

20 bbls slurry to the P.T

*Handwritten signature*

AUTHORIZATION TO PROCEED

TITLE

9-12-11

DATE