

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10634

LOCATION WCR 70125

FOREMAN Mike Rosale
LR Mark

TREATMENT REPORT

DATE 12-8-11	WELL NAME Linde ALD PK mm 25-15	SECTION 25	TWP 7	RGE 67W	COUNTY Weld	FORMATION
CHARGE TO Noble		OWNER				
MAILING ADDRESS		OPERATOR Noble				
CITY		CONTRACTOR Ensign 126				
STATE / ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION 8:35		TIME LEFT LOCATION 1:00				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH 928	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 873.53	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 919	TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE	
CASING WEIGHT 241BS	PACKER DEPTH	[] SURFACE PIPE		BREAKDOWN BPM	
CASING CONDITION Good		[] PRODUCTION CASING		INITIAL BPM	
		[] SQUEEZE CEMENT		FINAL BPM	
		[] ACID BREAKDOWN		MINIMUM BPM	
		[] ACID STIMULATION		MAXIMUM BPM	
		[] ACID SPOTTING		AVERAGE BPM	
		[] MISC PUMP			
		[] OTHER		HYD HHP = RATE X PRESSURE X 40.8	

PRESSURE SUMMARY

BREAKDOWN OF 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, PSI Test 200 PSE, Circulate 40 BBls H₂O / KCL max 2nd test
Dye, max + Pump a lead of 247 SKS (20% excess) 1.32 gals/lb + 14.8 lbs, max + Pump Tail of 100 SKS
BFW 3% + 15-21 BS Relax Plug Displace 55 lb BBls H₂O Pump Plug 200 PSE circulate, wait 5 min Release PL
Wash up Rig Down H₂O Test

Arrived with 400 SKS of NECT 200 SKS BFW 3% 20 gts 16 oz Dye Slurry Lead 58.0 Tail 22

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 10:40 AM Circulate 11:10 AM Cement 11:18 AM
Drop Plug 11:48 AM Displace 11:48 AM

used 20% excess on lead
10 BBls at 5-3 BBls/lb 11:52 270 PSE
20 BBls at 5-3 BBls/lb 11:54 390 PSE
30 BBls at 5-3 BBls/lb 11:56 380 PSE
40 BBls at 4-0 BBls/lb 11:59 450 PSE
50 BBls at 2-0 BBls/lb 12:02 430 PSE
55.6 BBls at 1-5 BBls/lb 12:05 400 PSE Flow collar held
Bump Plug 1-5 BBls/lb 12:05 600 PSE BBls Back

Left with SKS NECT 153 BFW 3% 100 SK 16 gts KCL 16 oz Dye 25

Robert L. Zink
AUTHORIZATION TO PROCEED

TITLE

DATE