

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9857

LOCATION 59-64

FOREMAN Kirk Kallha RF  
Mike R CR Richard m

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
6-11-11	Schafeld shale A36-79HN	36	6N	64W	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 132
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 11:45am	TIME LEFT LOCATION 7:15pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 612	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 562.41	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 9 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 605.09		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 36 lb	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE	BREAKDOWN BPM	
CASING CONDITION good			<input type="checkbox"/> PRODUCTION CASING	INITIAL BPM	
			<input type="checkbox"/> SQUEEZE CEMENT	FINAL BPM	
			<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM	
			<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	

PRESSURE SUMMARY		
BREAKDOWN or 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, circ 40 bbls KCL H2O, 2nd 1000 Dye, mix & Pump 330 sks cement at 30% excess at 1.27 yield at 1512 lbs, prudent to remain steps 45, no more than 50% excess per column, Release Plug Disp 43.4 bbls H2O, Bump Plug At 150 psi over Lift Psi, wait 5 min Release psi, washup Rig Down H2O test OK

Arrived w/ 750 sks cement 4 gal KCL 1600 Dye 74.5 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 5:25pm circ 5:52pm cement 6:01pm  
Drop Plug 6:29pm Displace 6:29pm  
10 BBLs At 5.5 BBLs/m 6:33pm 370psi used 65% excess per column  
20 BBLs At 5.5 BBLs/m 6:36pm 420psi used 421 sks cement  
30 BBLs At 5.5 BBLs/m 6:38pm 460psi 94.5 BBLs slurry  
40 BBLs At 2.5 BBLs/m 6:41pm 320psi  
43.4 BBLs At 1.0 BBLs/m 6:44pm 270psi  
Bump Plug 6:44pm 440psi

L Plug 329 sks 3 gal KCL 600 Dye

BBLs Back 27

Amey West

AUTHORIZATION TO PROCEED

TITLE

DATE

Customers hereby acknowledges and specifically agrees 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