

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9732

LOCATION cr 49-30

FOREMAN Kirk Kallhauff  
mike R CR Jessie

## TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
4-4-11	Dechant State H36-31D	36	3N	6SW	Weld	

CHARGE TO Noble	OWNER
MAILING ADDRESS	OPERATOR Noble
CITY	CONTRACTOR Ensign 121
STATE ZIP CODE	DISTANCE TO LOCATION
TIME ARRIVED ON LOCATION 6:30pm	TIME LEFT LOCATION 12:00pm

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE 12 1/4	TUBING SIZE	PERFORATIONS		THEORETICAL	INSTRUCTED
TOTAL DEPTH 752	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD 696.97	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE 8 5/8	TUBING CONDITION		TUBING		
CASING DEPTH 742.5		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT 2415	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, Psit test, circ 40561s Kcl H2O 2nd 104/Dye, mix & Pump 318 SKS cement at 30% Excess at 1.27 yield at 15.2 (5s or until) cement stops us, Release Plug, Displace 441.3 BBLs H2O, Bump Plug At 150psi over LIFT Psi, wait 5min Release Psi, wash up Rig Down  
H2O test OK

Arrived w/ 575 SKS cement 4 gallons Kcl 16oz Dye 71.8 BBLs slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS safety meeting 10:20pm circ 10:30pm cement 10:42pm  
Drop Plug 11:01pm Displace 11:01pm

10 BBLs At 5.5 BBLs/m 11:05pm 290psi  
20 BBLs At 5.5 BBLs/m 11:07pm 400psi  
30 BBLs At 5.5 BBLs/m 11:09pm 490psi  
40 BBLs At 2.5 BBLs/m 11:12pm 370psi  
44.3 BBLs At 1.0 BBLs/m 11:15pm 320psi  
Bump Plug 11:15pm 520psi  
used 109% Excess  
used 269 SKS cement  
60.8 BBLs slurry

LPTw/ 306 SKS cement 3gal Kcl 6oz Dye BBLs Back 14

AUTHORIZATION TO PROCEED Co. Rep DATE 4-4-11