

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9841

LOCATION 25-52

FOREMAN Kirk Kallho, F.F.
Mike R., L.R., Jossie

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
5-11-11	Bernhardt state PCN 36-17	36	5N	67W	weld	
CHARGE TO <u>Noble</u>			OWNER			
MAILING ADDRESS			OPERATOR <u>Noble</u>			
CITY			CONTRACTOR <u>Ensign 136</u>			
STATE ZIP CODE			DISTANCE TO LOCATION			
TIME ARRIVED ON LOCATION <u>7:45am</u>			TIME LEFT LOCATION <u>12:00pm</u>			

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>541</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBD <u>488.04</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>533.52</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2415</u>	PACKER DEPTH		<input checked="" type="checkbox"/> SURFACE PIPE		BREAKDOWN BPM
CASING CONDITION <u>good</u>			<input type="checkbox"/> PRODUCTION CASING		INITIAL BPM
			<input type="checkbox"/> SOEZE 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 30 BBLs KCL H2O, 2nd 10 gal Dye, mix & Pump 2295Ks cement at 30% excess at 1.27y ctd at 15.2 lbs or, until cement stops us, Release Plug, Displace 31 BBLs H2O Pump Plug At 150 psi over LIFT psi, wait 5 min Release psi, work up Rig Down

Arrival w/ 575 gals cement 4 gallons KCL 16oz Dye H2O test ok
51.6 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 10:18am circ 10:42am cement 10:50am
Drop Plug 11:07am Displace 11:07am

10 BBLs At 5.5 BBLs/m 11:10am 310psi used 10% excess
20 BBLs At 5.5 BBLs/m 11:12am 410psi used 1945Ks cement
30 BBLs At 1.0 BBLs/m 11:16am 250psi 43.7 BBLs slurry
31 BBLs At 1.0 BBLs/m 11:17am 260psi
Pump Plug 11:17am 450psi

Lift w/ 3815Ks cement 3 gal 1st KCL 602 Dye BBLs Back 11

Michael M. Conrad 5-11-11
AUTHORIZATION TO PROCEED TITLE DATE