

# BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 40060 11511  
LOCATION 49830  
FOREMAN Tucker Lehmkuhl  
Monte Rich

## TREATMENT REPORT

DATE <u>4/11/12</u>	WELL NAME <u>HP D32-21P</u>	SECTION <u>32</u>	TWP <u>3N</u>	RGE <u>64W</u>	COUNTY <u>Weld</u>	FORMATION
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Saxon 144</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>5:30 pm</u>		TIME LEFT LOCATION <u>12:00 am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>826</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>IBTD 780.97</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 3/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>821.20</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lbs</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"/> 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 Fig up Safety meeting RST test per co-man circ 50 bbls KCL H2O and 10 w/dag  
Misc pump 349 sts cement at 30% excess 127 yield at 30% excess at 15.2 lbs or until co-man stops us  
Release Plug disp 49.7 bbls H2O Bump Plug at 150 psi over lift psi wait 5 min release psi wash up  
rig down  
Arrived w/ 600 sts cement 4 gal KCL 16 oz dye  
H2O Test ok  
78.9 bbls slurry

JOB SUMMARY  
DESCRIPTION OF JOB EVENTS Safety meeting 9:41 pm Circ 10:17 Cement 10:22  
Stop cement 10:55 Drop Plug 10:58 Pkg 10:58

10 bbls at 6 bbls/min	11:02	180 psi	used 19 % excess used 321 sts cement 72.6 bbls slurry
20 bbls at 6 bbls/min	11:04	250 psi	
30 bbls at 6 bbls/min	11:06	320 psi	
40 bbls at 3 bbls/min	11:09	350 psi	
49.7 bbls 13 bbls/min	11:14	540 psi	
Bump Plug	11:14	540 psi	

Left w/ 279 sts cement 3 3/4 gal KCL BBLs Back - 15

Vern Shurt WSS 4/11/12  
AUTHORIZATION TO PROCEED TITLE DATE