

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 9307

LOCATION cr 49-32

FOREMAN Kirk Kallhauff
Mike R. Tucker

TREATMENT REPORT

DATE <u>10-1-10</u>	WELL NAME <u>Thompson D20-31D</u>	SECTION <u>17</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>Ensign 136</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>11:30pm</u>		TIME LEFT LOCATION <u>3:15am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>652</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 604.48</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 7/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>648.68</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2416</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 High up safety meeting, psi test, circ 40 BBLs H2O 2nd 1000 Dye mix & Pump
276 SKS cement at 30% excess at 1.27 yield at 152 lbs or until cement stops up, Release
Plug Displace 38.5 BBLs H2O, Pump Plug at 150 psi over LIFT psi wait 5 min Release
psi wash up Rig Down
Arrived w/ 550 SKS cement 4 gallons Kcl 16oz Dye 62.3 BBLs slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS safety meeting 1:42am circ 2:01am cement 2:11am
Drop Plug 2:28am Displace 2:28am

10 BBLs AT 5.5 BBLs/m 2:30am 400psi
20 BBLs AT 5.5 BBLs/m 2:32am 480psi
30 BBLs AT 3.5 BBLs/m 2:34am 370psi
38.5 BBLs AT 1.0 BBLs/m 2:38am 270psi
Pump Plug 2:38am 400psi

used 0% excess
used 212 SKS
47.9 BBLs slurry

LIFT w/ 338 SKS cement 3 gallons Kcl 6oz Dye

BBLs Back 8

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.