

BISON OIL WELL CEMENTING, INC.



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REF. INVOICE # 10384
LOCATION GUTTERSEN RANCH
FOREMAN CALVIN REIMERS

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
10-2-11	Hippo D 34-30D	27	3N	64W	Weld	
CHARGE TO <u>Noble</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Noble</u>				
CITY		CONTRACTOR <u>Ensign Rig 121</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>8:00pm</u>		TIME LEFT LOCATION <u>10:45pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>829</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 780.3</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>823.7</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

INSTRUCTIONS PRIOR TO JOB Rig up, Safety meeting, Per Company Man, Circ 50 bbls. H₂O with KCL + Dye 16 in 2nd 10 bbls, Mix pump Tell Dye is seen then pump tub only at 15.2 lbs. 1.27 yield, Don't go over 50% Excess with out Talking to Company Man, Drop plug, Displace 49.7 bbls H₂O, Bump plug at 150 Psi over lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O Tested good, We have 700 sks, 32 oz Dye, 16 Qts KCL,

JOB SUMMARY
DESCRIPTION OF JOB EVENTS Safety Meeting 8:50pm, Circ 9:13pm, Cement 9:21pm to 9:48pm
Drop Plug 9:50pm, Displace 9:51pm
10 bbls 280 Psi 9:53pm 7.0 bbls/lm
20 bbls 300 Psi 9:54pm 7.0 bbls/lm
30 bbls 420 Psi 9:56pm 7.0 bbls/lm
40 bbls 500 Psi 9:58pm 7.0 bbls/lm
49.7 bbls 380 Psi 10:01pm 1.0 bbls/lm
Bump Plug 600 Psi at 10:01pm Float Collar Held
USED 40% Excess = 378 sks, 85.49 bbls Slurry
Avg Cement 3.16 bbls/lm
Left with 322 sks, 16 oz Dye, 11 Qts KCL
5 bbls Slurry To The P.T

Mary Stapleton 10-2-11
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.