

BISON OIL WELL CEMENTING, INC.



1738 Wynkoop St., Ste. 102
Denver, Colorado 80202
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net

REF. INVOICE # 9364

LOCATION Hwy 392+51

FOREMAN Calvin Reimers

TREATMENT REPORT

DATE <u>11-30-10</u>	WELL NAME <u>Gulley 17-13</u>	SECTION <u>17</u>	TWP <u>6N</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>Cade Rig 21</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>1:30 AM</u>		TIME LEFT LOCATION <u>6:15 AM</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>798</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 747.87</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>790.87</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24 lb.</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 Rig up, Safety meeting, Per Company Man, Circ 50 bbls H₂O with KCL + Dye 10 in 2nd 10 bbls, Mix + pump tell Dye is seen at 15.2 lbs 1.27 yield, Drop plug, Displace 47.6 bbls H₂O, Bump plug at no more than 150 Psi over Lift Psi, Wait 5 min then bleed off Psi, Wash up, Rig down, H₂O tested good, We have 650 sacks cement, 32 oz. Dye, 6 Qts KCL,

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 4:30 AM, Circ 4:39 AM, Cement 4:52 AM to 5:08 AM
Drop plug 5:11 AM, Displace 5:12 AM
10 bbls 200 Psi 5:15 AM 7.0 bbls/m
20 bbls 150 Psi 5:18 AM 4.0 bbls/m
30 bbls 300 Psi 5:20 AM 4.0 bbls/m
40 bbls 380 Psi 5:24 AM 4.0 bbls/m
47.6 bbls 500 Psi 5:30 AM 1.0 bbls/m
Bump Plug 700 Psi at 5:30 AM Psi held for 5 min.
Avg Cement 4.225 bbls/m
USED 15% Excess = 299 sacks, 67.6 bbls Slurry
Left with 351 sacks, 22 oz Dye, 1 Qts KCL
4 bbls Slurry to the Pit

Mike New
AUTHORIZATION TO PROCEED

CO Rep
TITLE

11-30-10
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.