

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 # 8809
LOCATION Gutherson Ranch
FOREMAN Daniel Saltzman
Mike Wide

TREATMENT REPORT

DATE <u>5-29-10</u>	WELL NAME <u>Gutherson State A16-21</u>	SECTION <u>16</u>	TWP <u>30N</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 128</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>5:00</u>		TIME LEFT LOCATION <u>10:00pm</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>656-0</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
PBTD <u>606-24</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>649.55</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>24#</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, PSI test to 500psi, Circ 30 bbls of H₂O w/ KCL 100z Dye in 2nd 10' mix + pump 30% Excess @ 15.2 lb @ 1.27 yield or until stopped by Company Drop Plug Displace 38.6 bbls of H₂O Pump Plug @ 150psi over lift psi, wait 5 min Release psi wash up Rig Down
H₂O test OK
Arrived w 460 sks of Cement 54 KCL 100z Dye 62.6 bbls of Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Safety meeting 7:49pm Circ 8:00pm Cement 8:08pm
Drop Plug 8:57pm Displace 8:57pm

10 bbls 5.0/m 160psi 9:01pm
20 bbls 5.0/m 120psi 9:07pm
30 bbls 5.0/m 250psi 9:06pm
38.6 bbls 1.0/m 250psi 9:15pm
Pump Plug 450psi 9:12pm
Used 435 sks of Cement
203% Excess
97.8 bbls of Slurry

Lift w 25 sks of Cement 49 lb KCL 60z Dye
22 bbls of Slurry Back

[Signature]
AUTHORIZATION TO PROCEED

TITLE

5-29-10
DATE