

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 # 10735

LOCATION WCR 51144

FOREMAN Mile Rosalee
Lik Marks

TREATMENT REPORT

DATE <u>12-19-11</u>	WELL NAME <u>Long C-20 -18</u>	SECTION <u>20</u>	TWP <u>4</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>1:10 AM</u>		TIME LEFT LOCATION <u>5:30</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>12 1/4</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>761</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 700.24</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>8 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>739</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>2410s</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	<input type="checkbox"/> ACID BREAKDOWN	MINIMUM BPM
FINAL DISPLACEMENT	psi	ISIP	psi	<input type="checkbox"/> ACID STIMULATION	MAXIMUM BPM
ANNULUS	psi	5 MIN SIP	psi	<input type="checkbox"/> ACID SPOTTING	AVERAGE BPM
MAXIMUM	psi	15 MIN SIP	psi	<input type="checkbox"/> MISC PUMP	
MINIMUM	psi			<input type="checkbox"/> OTHER	

INSTRUCTIONS PRIOR TO JOB

Rig up, Sattymetry, PSI TEST 500 PSI, Circulate 40 BBls H₂O/KCL mix
2nd 10 Dye mix + Pump 322 SKS Cement (30% Excess) yield 127, 0+ 15-2 or until Company
men stopper us, Release Plug Displace 44.6 BBls H₂O, Pump Plug 150 PSI over 1st wait 5min Release
PSI, Wash up Rig Down

Arrived with 600 SKS Cement 8 gts KCL 16 oz Dye Slurry

JOB SUMMARY

DESCRIPTION OF JOB EVENTS Sattymetry 2:20 AM Circulate 2:54 AM Cement 3:02 AM
DROP Plug 3:30 AM Displace 3:30 AM

10 BBls 5-0 BBls/lm 3:34 AM 270 PSI

USED 17 90 EXCESS

20 BBls 5-0 BBls/lm 3:36 AM 390 PSI

USED 286 SKS Cement

30 BBls 5-0 BBls/lm 3:38 AM 460 PSI

Slurry 64.6

40 BBls 1-5 BBls/lm 3:40 AM 300 PSI

44.6 BBls 1-5 BBls/lm 3:43 AM 200 PSI

Bump Plug 1-5 BBls/lm 3:43 AM 600 PSI

Flow Collar (hold)

BBls Back to P.T

Left with SKS Cement gts KCL & Dye

(13)

May Stapleton

AUTHORIZATION TO PROCEED

TITLE

12-19-11

DATE