

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 # 11315

LOCATION 89-62

FOREMAN Kirk Kallhoff
Pablo mario

TREATMENT REPORT

DATE	WELL NAME	SECTION	TWP	RGE	COUNTY	FORMATION
9-1-12	Dutch Lake 22-34H	34	6N	62W	weld	
CHARGE TO <u>Bill Barrett</u>		OWNER				
MAILING ADDRESS		OPERATOR <u>Bill Barrett</u>				
CITY		CONTRACTOR <u>H&P 278</u>				
STATE ZIP CODE		DISTANCE TO LOCATION				
TIME ARRIVED ON LOCATION <u>7:30pm</u>		TIME LEFT LOCATION <u>7:00am</u>				

WELL DATA			PRESSURE LIMITATIONS		
HOLE SIZE <u>13 1/2</u>	TUBING SIZE	PERFORATIONS	THEORETICAL		INSTRUCTED
TOTAL DEPTH <u>880</u>	TUBING DEPTH	SHOTS/FT	SURFACE PIPE ANNULUS LONG		
<u>PBTD 834.17</u>	TUBING WEIGHT	OPEN HOLE	STRING		
CASING SIZE <u>9 5/8</u>	TUBING CONDITION		TUBING		
CASING DEPTH <u>882.53</u>		TREATMENT VIA	TYPE OF TREATMENT		TREATMENT RATE
CASING WEIGHT <u>36 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, Bit test Per cement Cier 20 BBLs KEL H2O, 2nd 104/Dye mix & Pump 450SKs cement at 32% Excess at 127 yield at 152 lbs, Release Plug Disp 64.4 BBLs H2O Bump Plug at 150psi over Lift Psi, wait 5min Release Psi, wash up Rig down

Arrived w/ 650SKs cement 4 gal KEL 1 bar Dye H2O test OK
101.7 BBLs slurry

JOB SUMMARY
DESCRIPTION OF JOB EVENTS safety meeting 4:50 am arr 5:13 am cement 5:19 am displacement 5:50 am
Drop Plug 5:53 am Displace 5:53 am
10 BBLs at 6 BBLs/min 5:55 am 350psi
20 BBLs at 6 BBLs/min 5:57 am 350psi used 32% Excess
30 BBLs at 6 BBLs/min 5:59 am 400psi used 450 SK cement
40 BBLs at 6 BBLs/min 6:00 am 500psi 101.7 BBLs slurry
50 BBLs at 6 BBLs/min 6:02 am 550psi
60 BBLs at 3.5 BBLs/min 6:04 am 350psi
64.4 BBLs at 2.0 BBLs/min 6:06 am 400psi
Bump Plug 6:06 am 670psi

Lift w/ 200SKs cement 3 gal 2 gals KEL bar Dye BBLs Back 17

Craig B. Harte CO MAN 9-1-12
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.