

BISON OIL WELL CEMENTING, INC.

1547 Gaylord Street
Denver, Colorado 80206
Phone: 303-296-3010
Fax: 303-298-8143
E-mail: bisonoil1@qwestoffice.net



INVOICE #
LOCATION
FOREMAN

11973
80+69
Kirk

TREATMENT REPORT

DATE 7-2-13	WELL NAME Vigilant state Ac 16-07	SECTION 16	TWP 7N	RGE 63W	COUNTY Weld
BILL TO Noble		CONSULTANT John Taylor			
OWNER		RIG NAME & NUMBER Engine 121			
MAILING ADDRESS		DISTANCE TO LOCATION		UNITS ON LOCATION 3103+3211	
CITY		TIME REQUESTED 1000Am		TIME ARRIVED ON LOCATION 930Am	
STATE, ZIP		TIME LEFT LOCATION 900Pm			

WELL DATA

HOLE SIZE 13 3/4	TUBING SIZE	PERFORATIONS
TOTAL DEPTH 785	TUBING DEPTH	SHOTS/FT
CASING SIZE 9 5/8	TUBING WEIGHT	OPEN HOLE
CASING DEPTH 775	TUBING CONDITION	TREATMENT VIA
CASING WEIGHT 36 lb	PACKER DEPTH	
CASING CONDITION Good		
Max Rate		
Max Pressure		

Cement Makeup

Cement Blend	BFN-3 BFA-1 BFA-1		
Cement - Specs	lbs 15.2	Yield 1.27	Water Requirements 5.89
Annulus Factor .5258	Capacity Factor 1.0723		
<p>TYPE OF TREATMENT</p> <p><input checked="" type="checkbox"/> Surface Pipe <input checked="" type="checkbox"/> Production <input type="checkbox"/> Squeeze</p> <p><input type="checkbox"/> MISC Pump <input type="checkbox"/> P&A</p>			

HYD HHP = RATE X PRESSURE / 40.8

% Excess
BBL to Pit

1070
16

DESCRIPTION OF JOB EVENTS

Safety meeting Rig up Per Company Man Cure 50 bbls Kcl H2O
Dye in 2nd 10 mix + Pump H69 sks cement at 30% excess at
15.2 lb at 1.27 yield or until stopped by company man
Release Plug Disp 57 bbls H2O bump Plug @ 150 lbs
over 1 ft pressure wait 5 min Release pressure

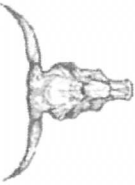
X John M Taylor
Authorization To Proceed

Co Man
Title

X 7-2-13
Date

Customers hereby acknowledge and specifically agree 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

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Treatment Report Page 2

DESCRIPTION OF JOB EVENTS

		Displace 1			Displace 2			Displace 3			Displace 4			Displace 5		
		BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI	BBS	Time	PSI
Safety Meeting	6:20 PM															
MIRU	5:20 PM															
CIRCULATE	6:00 PM	0	753	0	0			0			0			0		
Drop Plug		10	755	210	10			10			10			10		
		20	757	250	20			20			20			20		
		30	759	320	30			30			30			30		
		40	800	380	40			40			40			40		
		50	804	330	50			50			50			50		
M & P		60	806	460	60			60			60			60		
Time	Sacks	70			70			70			70			70		
7:30 PM	397	80			80			80			80			80		
7:48 PM		90			90			90			90			90		
		100			100			100			100			100		
		110			110			110			110			110		
		120			120			120			120			120		
		130			130			130			130			130		
		140			140			140			140			140		
		150			150			150			150			150		

Notes:

used 1070 excess 397 sacks 16 bbls to pit

Bump plug @ 806 PM @ 460 lbs

X Adam Taylor
Work Performed

X Caplan
Title

X 7-2-13
Date