EXHIBIT B-6

West Bay Exploration Co. Cementing Records

West Bay Exploration Company (WBEC), Haystead #9 SWD
(Permit #MI-079-2D-0010**)**

Administrative Record
Item # 19

May 21, 2012

Timothy Brock, WBEC

RE: Haystead 9 SWD
Timothy J. Brock
to:
Timothy Elkins
05/21/2012 01:47 PM
Cc:
"Tim Baker", "Ann Baker"
Hide Details
From: "Timothy J. Brock" <brock.engineering@yahoo.com>
To: Timothy Elkins/R5/USEPA/US@EPA,
Cc: "Tim Baker" <timb46@hotmail.com>, "Ann Baker" <anni@wbeco.net>
History: This message has been replied to.

H9_AR
ITEM #19

3 Attachments

Haystead 1-9A HD1 WBD.pdf Haystead 1-9 CMCS Cementing Records.pdf

Haystead 1-9A Halliburton Long String Cementing.pdf

Tim,
Please find attached the cementing records from Central Michigan Cementing Service for the Haystead 1-9, which was the original wellbore prior to being sidetracked to the Haystead 1-9A. The 11-3/4" and 8-5/8" casings were cemented by CMCS. The Haystead 1-9A was cemented by Halliburton Services and I have been unable to find the company's cementing record (field ticket) for this string. However, I have attached a copy of the invoice proving that the cement job was pumped. Further, as a registered professional engineer, I certify that the Flowstop has a yield of 1.49 cuft/sx and weighs 14.5 ppg. This stage was pumped as the first stage of this multi-stage cement job (below the DV tool). The Halcem was pumped as the second stage of the cement job and is Halliburton's tradename for Class A cement. It has a yield of 1.18 cuft/sx and a density of 15.8 ppg. Therefore, the slurry volume below the DV tool was 149 cuft and the volume above it was 236 cuft. The top of cement behind the 5-1/2" production casing in the Haystead 1-9A was logged at 3,134' with a cement bond log. I have attached a wellbore diagram for your consideration and review. Please contact me immediately if you have any further questions.

Timothy J. Brock
State of Michigan Registered Professional Engineer #39603
Brock Engineering, LLC
771 N West Silver Lake Rd.
Traverse City, MI 49685
Phone: (231) 421-3001
Fax: (231) 421-3033
Cell: (517) 242-6688

From: Timothy Elkins [mailto:Elkins.Timothy@epamail.epa.gov]
Sent: Wednesday, May 09, 2012 12:43 PM
To: brock.engineering@yahoo.com
Subject: Haystead 9 SWD

Hi Mr. Brock,

I previously indicated that I had anticipated that the Haystead 9 SWD injection well permit would be drafted and on public notice soon, however I cannot receive management sign off without reviewing the information requested

in my letter to you dated February 10, 2012. To date I have not received documentation which clearly indicates the ***slurry volume*** of Flowstop and HalCem cement used in the cementing of the Haystead 1-9A casings. Mr. Baker has provided cementing tickets, however the slurry volumes are not documented. Unfortunately, I am not familiar with these cements and cannot properly access the construction and plugging of the Hatstead 1-9A casing without proper documentation. Please review item number 2 in the attached letter and feel free to contact me if you have further questions.

Thank you.

Timothy M. Elkins
US EPA Region 5
Underground Injection Control
77 W. Jackson Blvd., WU-16J
Chicago, IL 60604
Phone: 312-886-0263

Central Michigan Cementing Services

1934 Commercial Drive • Mt. Pleasant, MI USA 48858
Phone: 989/775-0940 • Fax: 989/775-0943
midstatetools@msn.com

PRIMARY CEMENTING REQUIREMENTS

Company West Bay Exploration Date 5-20-10 Job #

Well Name Hay Stead No. 1-9
County Jackson Section 9 4s 2e State MI
Contractor Birdie Barnett
Job Description 11 3/4 Surface Csg

Casing Size 11 3/4 Lbs/Ft. 42# Casing TD 430
Insert Type None LV 30' in pipe Insert TD 398
Open Hole Size 14 3/4 From 32 To 425 TD
Annular Casing Size 16" To 32' Lbs/FT 55

JOB REQUIREMENTS:

Annular Volume Casing	32	Ft. x	.5364	Cu/Ft =	17.2 Cu Ft.
Annular Volume O.H.	398	Ft. x	.4336	Cu/Ft =	172.6 Cu Ft.
Excess	160 % of open Hole	%		=	Cu Ft.
Total Cubic Foot Needed for Job				=	472.75 Cu Ft.

Lead Cement Type 65/35/6 3% Cacl2
Sacks of Cement 113.8 Type A x (94 Lbs.) = 10697.2
Sacks of Ash 61.2 x ~~(65~~ Lbs.) = 4284
Sacks of Bentonite 9 x (100 Lbs.) = 900
Sacks of Cal Chl. 9 x (50 Lbs.) = 450
Lead Cement Yield 1.69 x 175 Total Sacks = 295.75 Cu Ft.

Tail Cement Type Class A 3% Cacl2
Sacks of Cement 150 Type Type I x (94 Lbs.) = 14100
Sacks of Calcium Chloride 9 x (50 Lbs.) = 450
Tail Cement Yield 1.18 x 150 Total Sacks = ~~177~~ 177 Cu Ft.

Type of Pre Flush Fresh Water Total BBLS 30
Mix Water Req. Lead Cement = 34.2 BBLS Tail Cement = 18.6 BBLS
Displace Water Used Fresh Water 47.5 BBLS Total BBLS Required 130.3
Was Wiper Plug Run Yes Stop cmt at 398' Cement Returned to Surface 40 BBLS

Time and Date When Landed Plug 10:00 pm 5-20-10
Comments
40 BBL To pitts Cement stayed in place

Cementer Bill Russell Operator Matt P Leon G.

Central Michigan Cementing Services

1934 Commercial Drive • Mt. Pleasant, MI USA 48858
Phone: 989/775-0940 • Fax: 989/775-0943
midstatetools@msn.com

PRIMARY CEMENTING REQUIREMENTS

Company West Bay Exploration Date 5-26-10 Job #

Well Name Haystead No. 1-9
County Jackson Section 9 4s 2e State MI
Contractor Birdie Burnett
Job Description 8 5/8 Intermediate Csg

Casing Size 8 5/8 Lbs/Ft. 32 Casing TD 3348
Insert Type Auto Fill Insert TD 3300
Open Hole Size 10 5/8 From 425 To 3340 TD
Annular Casing Size 11 3/4 To 425 Lbs/FT 42#

JOB REQUIREMENTS:

Annular Volume Casing	425	Ft. x	.2643	Cu/Ft =	112.3	Cu Ft.
Annular Volume O.H.	2915	Ft. x	.2100	Cu/Ft =	612.2	Cu Ft.
Excess	80% of open Hole	%		=		Cu Ft.
Total Cubic Foot Needed for Job				=	1250	Cu Ft.

Lead Cement Type 65/35/6 + 2% CaCl2

Sacks of Cement	390	Type Class A	x	(94 Lbs.) =	36660
Sacks of Ash	210		x	70 (65 Lbs.) =	14700
Sacks of Bentonite	31		x	(100 Lbs.) =	3100
Sacks of Cal Chl.	22		x	(50 Lbs.) =	1100
Lead Cement Yield	1.69	x 600 Total Sacks		=	1014 Cu Ft.

Tail Cement Type Class A 3% CaCl2

Sacks of Cement	200	Type Class A	x	(94 Lbs.) =	18800
Sacks of Calcium Chloride	12		x	(50 Lbs.) =	600
Tail Cement Yield	1.18	x 200 Total Sacks		=	236 Cu Ft.

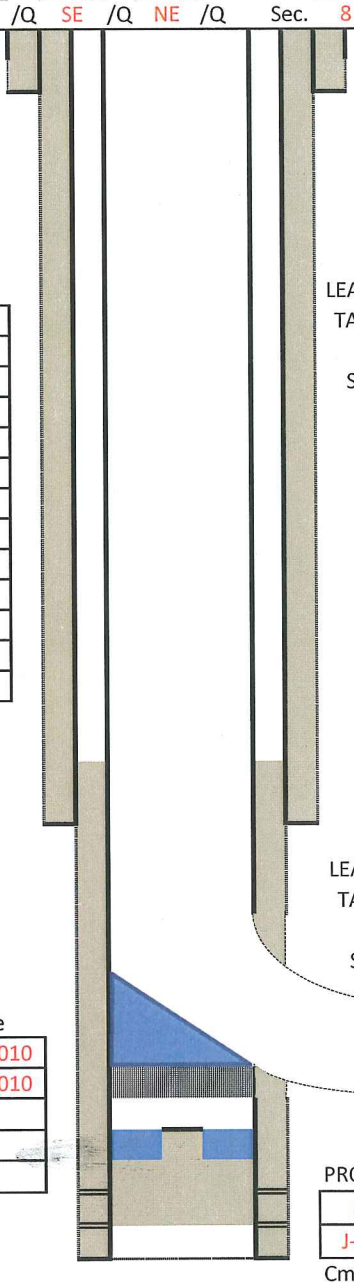
Type of Pre Flush Fresh Water Total BBLS 20
Mix Water Req. Lead Cement = 117.2 BBLS Tail Cement = 24.8 BBLS
Displace Water Used 67 Brine 201 bbl BBLS Total BBLS Required 363
Was Wiper Plug Run Yes Cement Returned to Surface BBLS

Time and Date When Landed Plug 4:00 pm 5-26-10
Comments

Cementer Bill Russell Operator Justin K Matt P Brett F.

Wellbore Sketch

Well: HAYSTEAD 1-9A HD1 | KB: 967.3 | Permit#: 60310
Operator: WEST BAY EXPLORATION COMPANY | GL: 954 | PrePerm
Surf. Loc.: NE /Q NW /Q SW /Q Sec. 9 T 4S R 2E
Btm Hole Loc.: NW /Q SE /Q NE /Q Sec. 8 T 4S R 2E



CONDUCTOR
16 " SA 32 ft
DRIVEN

SURFACE
11.75 " SA 425 ft
Grd: H-40 42 lb/ft ST&C threads
Cmt: Lead: 175 SX 65/35 POZ W/ 6% GEL AND 3% CaCl2; TAIL: 150 SX CLASS A W/ 3% CaCl2 CIRC 40 BBL TO SURFACE
Top of Cement SURFACE ft

	SX	YLD	HOLE	VOL, cuft	TheoFILL	EST. TOC
LEAD	175	1.69	14.8	295.75	682	-257
TAIL	150	1.18	14.8	177	408	-665

	BBL	YLD	SX
Sx CTS	40	1.69	133

Notes:

HAYSTEAD 1-9A IS REDRILL
OF HAYSTEAD 1-9
1-9A KOP = 3375'
5-1/2" CMT RETNR SA 4400'
SQZ W/ 100 SX CLASS A
5-1/2" CIBP SA 4300'
WHIPSTOCK SET ON CIBP
4-3/4" Open hole compl.

INTERMEDIATE
8.625 " SA 3340 ft
Grd: J-55 32 lb/ft ST&C threads
Cmt: LEAD: 600 SX 65/35 POZ W/ 6% GEL AND 2% CaCl2; TAIL: 200 SX CLASS A W/ 3% CaCl2 CIRC 40 BBL TO SURFACE
Top of Cement SURFACE ft

	SX	YLD	HOLE	VOL, cuft	Theo.FILL	EST. TOC
LEAD	600	1.69	10.6	1014	4829	-1489
TAIL	200	1.18	10.6	236	1124	-2613

	BBL	YLD	SX
Sx CTS	40	1.69	133

Perforations:

			Date
4502	to	4512	6/24/2010
4412	to	4430	6/25/2010
	to		
	to		
	to		

Orig.TD: 4589
PBTD: 5585
TD: 5585

PRODUCTION
5.5 " SA 4572 ft
J-55 15.5 lb/ft LT&C threads
Cmt: 1)100 SX FLO-STOP, 2) 200 SX HALCEM (CLASS A)
Top of Cement 3134 ft (BOND LOG)

	SX	YLD	HOLE	Base	VOL, cuft	Theo.FILL	EST. TOC
Stg 1	100	1.49	7.88	4572	149	860	3712
Stg 2	200	1.18	7.88	4281	236	1362	2919

	BBL	YLD	SX	
Sx CTS	6	1.49	22.6	(from first stage)

Prepared by:
Brock Engineering, LLC
Traverse City, Michigan

INVOICE

HALLIBURTON

Halliburton Energy Services, Inc.

Remit To: P.O. Box 203143, Houston, TX 77216-3143

Wire Transfer Information
Account Number: Account 00032969
ABA Routing No.021000089
ABA Routing Number:

Invoice Date: June 15, 2010

Invoice Number: 96973289

DIRECT CORRESPONDENCE TO:
301 Lucerne Road
HOMER CITY, PA 15748
US
Tel: (888) 223-4255
Fax: (724) 479-3592

TO:

WEST BAY EXPLORATION CO
13685 S WEST BAY SHORE, STE 200
TRAVERSE CITY MI 49684

Rig Name:
Well Name: WEST BAY HAYSTEAD 1 9 JACKSON
Ship to: JACKSON, MI 49201
JACKSON

Job Date:	June 07, 2010
Cust. PO No.:	NA
Payment Terms:	Net 20 days from Invoice date
Quote No.:	
Sales Order No.:	**7419648**
Manual Ticket No.:	
Shipping Point:	KALKASKA Shipping Point
Ultimate Destination Country:	US
Customer Account No.:	306427

Contract No.:
Contract from:
Contract to:

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
392189	CMT MULTIPLE STAGES BOM	1.00	JOB					
404249	Cmt Equipment & Pump Charge, C Cmt Equipment & Pump Charge, CMT	1.00	EA					
452962	FLOWSTOP (TM) SYSTEM	100.00	SK					
452986	HALCEM (TM) SYSTEM	200.00	SK					
100001585	KCL POTASSIUM CHLORIDE	250.000	LB					
100063955	FLO-CHEK P CHEMICAL - FLO-CHEK P - 100# FIBER / DRUM	800.000	LB					
76400	ZI MILEAGE,CMT MTLS DEL/RET MI 500-306 / MILEAGE,CMTG MTLS DEL/RET PER/TON MI,MIN	195.000	MI					
	NUMBER OF TONS	14.77	ton					
3965	HANDLE&DUMP SVC CHRG, CMT&ADDI 500-207	330.000	CF					
	NUMBER OF EACH	1	each					
404249	MSC Tool Operator Cmt Equipment & Pump Charge, CMT	1.00	EA					
372867	Cmt PSL - DOT Vehicle Charge, Cmt PSL - DOT Vehicle Charge, CMT	3.000	EA					
100004672	PLUG SET - FREE FALL - 5-1/2 8 PLUG SET, FREE FALL, 5 1/2 8RD, & / BUTTRESS 13-23 LBS 2-STAGE CEMENTER, / WITH 2.87 ID BAFFLE	1.000	EA					
100005045	KIT,HALL WELD-A	3.000	EA					

1.49 Ft3/sx
1.18 Ft3/sx

INVOICE

HALLIBURTON

Continuation

Halliburton Energy Services, Inc.

Remit To: P.O. Box 203143, Houston, TX 77216-3143

Invoice Date: June 15, 2010 **Invoice Number: 96973289**

Material	Description	QTY	UOM	Base Amount	Unit Amount	Gross Amount	Discount	Net Amount
100004685	CMTR,TY P ES,5-1/2 8RD 14-17LB CEMENTER, TYPE P ES, 5-1/2 8RD 14-17 / LBS/FT, SUITABLE FOR USE WITH K-55	1.000	EA					
100004895	SHOE,FLOAT,5 1/2 8RD,2 3/4 SUP SHOE, FLOAT, 5-1/2 8RD, K-55, 2-3/4 / SUPER SEAL II VALVE	1.000	EA					
	Taxable							
	Non-Taxable							
	Total							
	INVOICE TOTAL							

Payment Terms: If Customer does not have an approved open account with Halliburton, all sums are payable in cash at the time of performance of services or delivery of equipment, products, or materials. If Customer has an approved open account, invoices are payable based upon the payment terms stated on this invoice or as otherwise stated in the applicable Halliburton contract governing performance or delivery. Customer agrees to pay interest on any unpaid balance from the date payable until paid at the highest lawful contract rate applicable. In the event Halliburton employs an attorney for collection of any amount,Customer agrees to pay all reasonable and necessary attorney fees to recover the unpaid amount, plus all collection and court costs.

Edwin Garcia Phone: 972-418-3042 Cell: 972-983-8729

RE: Haystead 9 SWD
Timothy J. Brock
to:
Timothy Elkins
05/09/2012 01:39 PM
Cc:
"Ann Baker"
Hide Details
From: "Timothy J. Brock" <brock.engineering@yahoo.com>
To: Timothy Elkins/R5/USEPA/US@EPA,
Cc: "Ann Baker" <anni@wbeco.net>

Tim,
Thanks for your e-mail. I am getting a copy of the cementing records e-mailed to me and I will get you the information that you need as soon as possible.
Regards,
Tim Brock

Timothy J. Brock, PE
Brock Engineering, LLC
771 N West Silver Lake Rd.
Traverse City, MI 49685
Phone: (231) 421-3001
Fax: (231) 421-3033
Cell: (517) 242-6688

From: Timothy Elkins [mailto:Elkins.Timothy@epamail.epa.gov]
Sent: Wednesday, May 09, 2012 12:43 PM
To: brock.engineering@yahoo.com
Subject: Haystead 9 SWD

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