Radiation & Explosive Compliance 300 Schlumberger Drive, MD 121 Sugar Land, TX 77478

# Schlumberger

November 29, 2011

Ms. Vivian Campbell United States Nuclear Regulatory Commission Region IV 612 E. Lamar Blvd., Suite 400 Arlington, Texas 76011-4125

RE: Source Abandonment for Vector Minerals Corporation; Rolling Thunder #2-33

Dear Ms. Campbell,

This letter is to confirm the abandonment of irretrievable sources in a well in accordance with Part 39, Section 39.77(d). Information for this abandonment is attached.

If you have any questions or require additional information, please contact me at 281-285-8757.

Sincerely,

Timothy P. McLaughlin Deputy Radiation Safety Officer

Schlumberger Technology Corporation

# Source Abandonment – Vector Minerals Corporation Well: Rolling Thunder #2-33

Date of Occurrence:

4 November, 2011

Source #1

Identification:

63 GBq (1.7 Ci), Cs-137, Density Source, Serial # A5412

Manufacturer:

QSA Global Inc. GSR-J (CDC.CY3)

Model:

15 100' MD

Depth:

15,182' MD

Source #2

Identification:

592 GBq (16 Ci), Am-241/Be, Neutron Source, Serial # G5205

Manufacturer:

Gammatron, Inc.

Model:

NSR-F (AN-HP)

Depth:

15,170' MD

Source #3

Identification:

592 GBq (16 Ci), Am-241/Be, Neutron Source, Serial # G5067

Manufacturer:

Gammatron, Inc

Model:

NSR-F

Depth:

15,145' MD

Well Identification:

**Company: Vector Mineral Corporation** 

Well: Rolling Thunder #2-33

Field: Wildcat

County: Carbon County, Wyoming

API Number: 49-007-24286

Seal Results:

50 sacks of Class G 15.6 ppg cement with red oxide dye spotted in wellbore from 14,653-14,328 feet. A Cast Iron Bridge Plug (CIBP) was set in the 7" casing at 14,220 feet and a whipstock set at 14,204 ft MD in casing will serve

as the mechanical deflection device.

Recovery Attempts:

Unsuccessful from 25 Oct 11 – 3 Nov 11; single attempt for tool & multiple

attempts for cable. Approximately 500' of cable left in the well.

Depth of Well:

15,460' MD

Identification:

Plague as required by Part 39 ordered and will be attached to the well, if

practical.

Reports:

No other agency will receive a copy of this report.

Initial Phone Contact:

Ms. Vivian Campbell, NRC Region IV on 29 Oct 11 @ 16:30 CDT.

# Schlumberger

## **RADIATION FISHING & ABANDONMENT REPORT**

Offshore (OCS Waters)	■ Land or State Lease Waters								
Date: 29 OCtober 2011	Time: <u>15:30</u>								
Company Name (Full Name): Vector Minerals Corporation	n								
Well Name or (OCS-G No. or State Lease No.): Rolling Thur	nder #2-33								
Offshore State of:	Rig Name: DHS Drilling Inc Rig #8								
API Number (If Available or CLSD): 49-007-24286	Field Name: Wildcat								
Lease Location (legal):									
County or Parish: Carbon County	State: Wyoming								
District: Rock Springs, WY	Sales Engr: Joe Poole								
TD: <u>15,460 ft MD</u>	Hole Size: 6" Deviation: 5 deg								
Casing Depth: 14,230 ft MD	Casing Size: 7"								
Depth of Fish (Top): 15,131, ft MD	Bottom of Fish: 15,200 ft MD								
Source Type (1): GSR-J	Source Type (2): NSR-F								
Source Activity (1): 63 GBq (1.7 Ci)	Source Activity (2): 592 GBq (16 Ci)								
Serial No. (1): <u>A5412</u>	Serial No. (2): <u>G5205, G5067</u>								
Isotope (1): <u>Cs-137</u>	Isotope (2): Am-241/Be								
Depth (1): 15,182 ft MD	Depth (2): 15,170 ft MD; 15145 ft MD								
Leak Test Date (1): 1Sep2011 Leak Test Date (2): 10Oct2011;1Sep2011									
Leak Test Results (1): 3.86E-01 Bq (attached)	Leak Test Results (2): <u>1.64E-01;7.83E-01Bq</u>								
Tool String (Head to Bottom): LEH-QT (ECRD) - EDTC - ECS - ADT - HGNS - TLD - AIT									
Date and Time Stuck: 25 October 2011; 20:50									
Date and Time Cement Pumped: 4 November 2011; 08:3	80								
Hole Conditions: Obstruction at ~ 15,200 ft. Sticking of	Irillpipe while trying to fish for logging tools.								
Some indications of gas coming back	to surface while fishing.								
Fishing Attempts: Initial fishing attempt was cut & threa	ad procedure for logging tools w/ sources.								
Cable parted @ surface while trying to electronically	release the tool and cable fell into well.								
Multiple fishing attempts to retrieve all 15,000 feet of	of cable were unsuccessful.								
Approximately 500' of cable left in well. Wellbore co	onditions deteriorated. Fishing ceased.								
Comments (what happened to get stuck?, etc.,): While runni	ng in hole, the toolstring encountered an								
obstruction at ~ 15,200 ft. The toolstring stopped its	descent into the well and became stuck.								
The tool could not be pulled up or go down hole. Se	everal attempts were made to slack off and								
pull tension to free the stuck tool. When tool did not	come free, a safe working load tension								
was applied to the line of cable and held until cut &	thread fishing operations began.								
•									

NOTE: Regulatory agencies should be contacted ONLY by the Schlumberger Technology Corporation (STC) Radiation Safety Officer or, if unavailable, his designee.

Notified: NRC or State of: NRC Region IV

Name:	Ms. Vivian Campbell	Name:	Ms. Lydia Chang
Date:	29 Oct 2011	Date:	29 Oct 2011
Time:	16:30 CDT	Time:	16:30 CDT

## **ABANDONMENT**

The following is a summary of NRC and/or Agreement States regulations that **must** be followed when abandoning an irretrievable well logging source(s). The specific regulations are found in 10 CFR 39.15 and equivalent regulations in Agreement States.

An *irretrievable well logging source* means any licensed radioactive sealed source that becomes lodged in a well and cannot be retrieved after reasonable efforts have been made to recover the source(s).

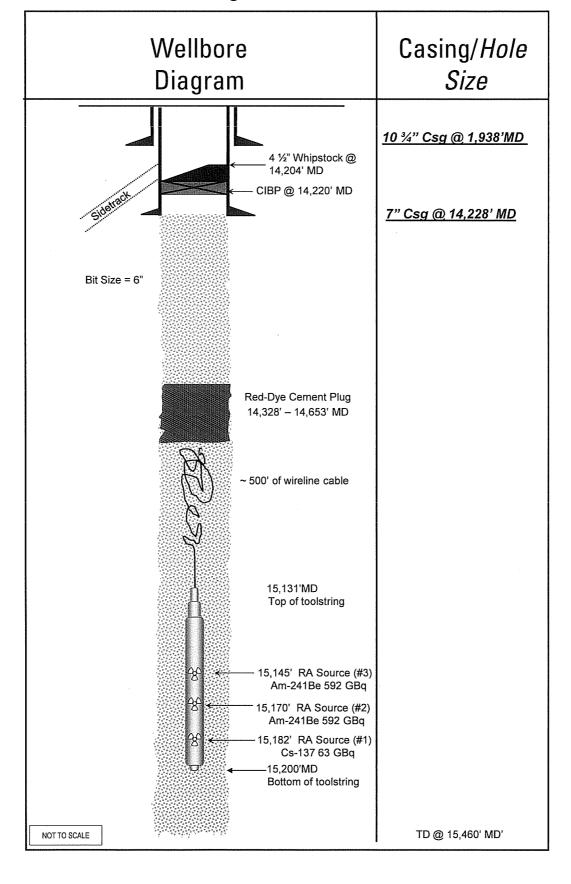
- 1. If a well logging source is irretrievable, the following requirements must be implemented.
  - a) The source(s) must be immobilized and sealed in place with a cement plug. The cement has to be dyed red in Texas as a condition of the Texas Railroad Commission (others occasionally).
  - b) A mechanical deflection device must be set at some point in the well above the cement plug to prevent inadvertent intrusion on the source, unless the cement plug and sources(s) are not accessible to any subsequent drilling operations. The mechanical device can be devices such as a whipstock, old drill bit, etc. For LWD, drillpipe and/or collars left on top of the BHA usually are approved as a deflection device.
  - c) A permanent identification plaque, (supplied by the STC RSO) made of stainless steel (or brass, bronze and monel), must be mounted at the surface of the well unless the mounting of the plaque is not practical (i.e. subsea completion).
- 2. The STC RSO (or his designee) will notify the NRC or Agreement State of the abandonment plan developed by/with the client. The NRC or Agreement State must approve the abandonment plan prior to implementation. The federal and/or state oil and gas well permitting agency must also approve the abandonment plan. The contact with the well permitting agency is the responsibility of the well owner/client but we should advise him/her of that fact as a courtesy.
- 3. If any changes must be made to the abandonment plan submitted to the NRC or Agreement State, the STC RSO must be informed so that he/she can get approval of the modification, as appropriate. The actual abandonment must not begin until any abandonment plan or modification to that plan is approved by the appropriate agency.
- 4. The STC Radiation Safety Officer must file a written report with the NRC or Agreement State after the abandonment. The facility management shall file a written report **within 7 days** to the STC Radiation Safety Officer. The facility report should cover the final abandonment details such as:
  - a) Actual date of abandonment.
  - b) Any changes in the data sent with the approved abandonment plan.
  - c) Detailed Well Schematic depicting location and depth of tool(s), source(s), drill pipe, plugs, deflection device etc.
  - d) Any information pertinent to the abandonment that the STC RSO may not have for his/her final report.
  - e) If all data sent to the STC RSO is still applicable for the final report, an e-mail or fax is to be sent to the STC RSO confirming that fact so that he/she can be ensured that the data sent to the appropriate agency is totally accurate. Most facilities send a completely new report since many these documents often are incomplete or are poor quality fax reproductions.

If there are any questions regarding these procedures, discuss them with your Operations Manager.

FACILITY MANAGEMENT MUST ENSURE THAT THE FINAL ABANDONMENT REPORT IS SUBMITTED TO THE STC RADIATION SAFETY OFFICER.

# Energy Partners Ltd.

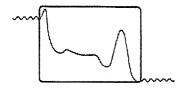
## Rolling Thunder #2-33



## **Monitoring Services**

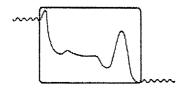
P.O. BOX 266677 . HOUSTON, TEXAS 77207-6677 . AREA CODE 281-478-6820 . FAX 281-532-0929

SEALED SOURCE LEA	K TEST CERTIFICATE
RSO SCHLUMBERGER 6631 2901 YELLOWSTONE RD.	CUSTOMER #: 9 <u>53</u>
ROCK SPRINGS WY	SOURCE #: 38466
02301	ACOUNT #: <u>953</u>
RADIONULCIDE: CS-137	SOURCE CODE: GSRJ
ACTIVITY: 1.7 CI	SERIAL NO: <u>A5412</u>
WIPE DATE: 9/1/2011	
EFFICENCY: 0.95	
GROSS CPM: <u>40</u> BKG CPM: <u>18</u>	NET CPM: <u>22</u>
NET CPM EFF X 2.22x10^6 DPM/u CI = MICROCURIE	
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ASSAY NO.: <u>9/17/2011 56</u> DATE	: <u>9/18/2011</u>
ASSAYED BY: Color Fin-	



Monitoring Services
PO BOX 266677 HOUSTON, TEXAS 77207-6677 AREA CODE 281-476-6820 FAX 281-532-0929

SEALED	SOURCE LEAK	TEST CERTIFICATE
RSO SCHLUMBERGER 6631 2901 YELLOWSTONE RD.		CUSTOMER #: 953
ROCK SPRINGS	WY	SOURCE #: <u>38062</u>
8290	1	ACOUNT #: 953
RADIONULCIDE: AM241BE		SOURCE CODE: NSRF
ACTIVITY: 16	CI	SERIAL NO: <u>G5205</u>
WIPE DATE:10/10/2011	7,419,61	
EFFICENCY: 1.32		
GROSS CPM: 32 B	KG CPM: 19	NET CPM: <u>13</u>
NET CPM EFF X 2.22x10^6 DPM/u CI = MICE	ROCURIE	
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## **Monitoring Services**

P O. BOX 266677 HOUSTON. TEXAS 77207-6677 . AREA CODE 281-478-6820 . FAX 281-532-0929

SEALE	SOURCE LEAK	TEST CERTIFICATE
RSO SCHLUMBERGER 6631 2901 YELLOWSTONE RD.		CUSTOMER #: 953
ROCK SPRINGS	WY	SOURCE #: 32872
8290	<b>'1</b>	ACOUNT #: 953
RADIONULCIDE: AM241BE	oder Art MAN STATE CONTROL CON	SOURCE CODE: NSRF
ACTIVITY: 16	Cl	SERIAL NO: <u>G5067</u>
WIPE DATE: 9/1/2011		
EFFICENCY: 1.32		
GROSS CPM: 80 E	BKG CPM: 18	NET CPM: <u>62</u>
NET CPM EFF X 2.22x10^6 DPM/u CI = MIC	ROCURIE	
THE ABOVE SOURCE WIPE TEST I RADIOACTIVE MATERIAL LICENSE REQUIREMENTS. THE REGULATIO WHICH AN APPROPRIATE WIPE TE OR MORE OF ACTIVITY.	HAS BEEN ASSAYED AND THE APPROPRI INS DEFINE A LEAKIN	ATE REGULATORY G SOURCE AS ONE FROM
THE REMOVABLE ACTIVITY WAS:	2.12E-5	<u>M</u> ICROCURIE
	7.83E-01	<u>B</u> q
ASSAY NO.: 9/17/2011 61	DATE: <u>9</u>	18/2011
ASSAYED BY:	2	

### STATE OF WYOMING 12. API No.: OIL AND GAS CONSERVATION COMMISSION 49-007-24286 13. County: Office of State Oil and Gas Supervisor Carbon Submir single Danieling Sing in Single Singl P. O. Box 2640 If a Split Estate Location Change Provide Form 1A Casper Wyoming 82602 5. Lease No.: Rolling Thunder SUNDRY NOTICES AND REPORTS ON WELLS Unit Agreement or CA: 7. Farm or Lease Name: Rolling (Do not use this form for proposals to drill, or deepen. Form 1 is provided for such proposals.) 8. Well No.: i. Type Well: 2 - 339. Reservoir: Wildcat X Oil 10. Field Name: CBM Wildcat Dry Hole Injection Other 11. Quarter- Quarter, Section, Township and Range: 2 Operator: Vector Minerals Corp. NWNE Sec 33, T21N-R82W 3. Address: 8200 S. Quebec St. #A3-243 Centennial, Co. a. Phone Number (w/ area code): (303) 680-5112 14. Elevation: 7,223' GL Email: sra: 6.38 FNL & 1,6.94 FEL 16. Latitude: 41.75269 15. Footages: BH. I,241 FNL & I,465 FEL 17 Longitude: 106.641111 CHECK APPROPRIATE BOXES TO INDICATE THE NATURE OF NOTICE, REPORT, OR OTHER DATA 18. Type of Submission: Type of Action: Notice of Intent, Change Plans Fracture Treat/ Enhance Repair Well 図Subsequent Report Convert to injection Plug and Abandon Shut-in Change of Address. Dormant Perforate List Old & New Below. Start / Resume Production Yes Split Estate? No X Recomplete/ Plugback X Location or Site Change Temporarily Abandoned If this is a Split Estate location change Reclaim Water Shut-Off or Fed Lease owner change file Form1A. Federal Lease Owner Change 19. Describe the proposed or completed operations: Clearly state all pertinent dates and details, including estimated start date of proposed work. x Other See Below Form 3 is required following completion and recompletion procedures. Attach additional sheets if necessary, referencing API No., Well Name and Legal Location. On 10/25/11 a triple combo logging tool was stuck in the hole from 15,158 -This tool contained three radioactive sources. After hole conditions deteriorated to prevent further recovery attempts, the tools were abandoned in place. Verbal approvals were received from the WOGCC and NRC for abandonment proceedings. A 50 sack red-dyed cement plug was set in the open hole above the tools from 14,653 - 14328 ft. set in the 7-inch casing at 14,220 ft. A 4 1/2-inch whipstock was set A CIBP was on the CIBP as a deflecting device. The top of the whipstock is at 14,204 The required warning placard has been ordered and will be installed when it arrives. Attached are the daily drilling reports, the tool configuration schematic diagram, the CIBP setting details, the directional survey showing the tool's lateral location and the whipstock schematic. 20. I hereby certify that the foregoing as to any work or operation performed is a true and correct report of such work or operations Name (Printed or Typed): С. Davis Title: President 21. Signature: Date: 11/14/11 (The space below is for State office use). Approval Date: Approved By: State Oil and Gas Supervisor Approvais sent:

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### MEMORY TRANSMISSION REPORT

TIME

:11-29-'11 16:06

FAX NO.1

: 281-285-8526

NAME

: Schlumberger

FILE NO.

: 489

DATE

: 11.29 16:05

TO

: 8 919857272165

DOCUMENT PAGES

: 2

START TIME

: 11.29 16:05

END TIME

: 11.29 16:06

PAGES SENT

2

STATUS

OK

\*\*\*

SUCCESSFUL TX NOTICE

\*\*\*

Schlumberger Technology Corporation Radiation Safety & Compliance

300 Schlumberger Dr., MD-121 Suger Land, Texas 77478 Tel 281-285-7460 Fax 281-285-8528

### Schumberger

Fax

Date: November 29, 2011

То

Ernie Jilek

Fax: 985-727-2165

From

Tim McLaughlin

Tel: 281-285-8757 Fax: 281-285-8526

Subject

Abandonment Plaque

Pages 2 (including cover)

Ernie,

Request for abandonment plaque for Vector Minerals Corporation, well information follows.

Regards,

Tim

This transmission is intended only for the use of the individual or entity to which it is addressed and may contain information that is privileged and confidential. If you are not the intended recipient, you are hereby notified that any disclosure, distribution or copying of this information is strictly prohibited. If you have received this transmission in error, please notify us immediately by telephone and return the original documents to us at the address above via the United States Postal Services.

Schlumberger Technology Corporation Radiation Safety & Compliance

300 Schlumberger Dr., MD-121 Sugar Land, Texas 77478 Tel 281-285-7460 Fax 281-285-8526

# Schlumberger

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Schlumberger Technology Corporation Radiation Safety & Compliance

300 Schlumberger Dr., MD-121 Sugar Land, Texas 77478 Tel 281-285-7460 Fax 281-285-8526

# Schlumberger

November 29, 2011

Graphics N' Metal 1200 Clausel Street Mandenville, LA. 70448 (504) 669-6082 (985) 727-2165 (Fax)

Attn: Ernie Jilek,

Please construct the standard abandonment plaque with the following information:

Company: Vector Minerals Corporation. Well Name: Rolling Thunder #2-33

Field: Wildcat County: Carbon State: Wyoming

API#: 49-007-24286

Date of Abandonment: November 4, 2011

Well Depth: 15,460 MD Plug Back Depth: 14,204' MD

Top of Fish: 15,131'MD

Sources Abandoned: 592 GBq, Am 241, Neutron Source @ 15,145'

592 GBq, Am 241, Neutron Source @ 15,170' 63 GBq, Cs 137, Density Source @ 15,182'.

**Special Instructions:** 

DO NOT RE-ENTER THIS WELL BEFORE CONTACTING
REGION IV OF THE NUCLEAR REGULATORY COMMISSION

OR SCHLUMBERGER TECHNOLOGY CORPORATION

Please forward to me the completed plaque and invoice.

Respectfully,

Timothy P. McLaughlin
Deputy Radiation Safety Officer
Schlumberger Technology Corporation