

Dangerous occurrence at LJ/6- PNB, Preston New Road, Preston on 11 June 2017

Incident Details		
Brief Description	Whilst changing over from the auger rig to the RC rig, clea water flow emanated from the top of the temporary casing. followed a period of prolonged rainfall and is assumed to b from artesian pressured aquifer sands either at 14m or 28r slight flow at 14m was managed with mud and progress m m with no flow. Situation has stabilised with flow stopped b mud and conductor will be augered deeper to c.33m.	
Brief description of why this incident has been selected for investigation.		High public interest due to borehole site and operation.
Further information/Major hazard	precursor	>

Investigation Overview				
COIN Investigation Case No.	4513140	Show in COIN (double-click)		
Name(s) of Duty holder(s)	Cuadrilla Resources Limited			
Investigating Inspector		19.		
Investigator Line Manager		2 7		
Investigation TRIM Folder	4.7.13683.			
MEMT site	http://memt/Cuadrilla%20Resourc es%20Limited%2011.06.2017/Sit ePages/Home.aspx#	Show in MEMT (double-click)		

Date Report Completed	20/07/2017
Authors	

Report Contents

Inv	esti	gation Planning and Management			
Fac	ctual	Report			
Ana	alysi	s of Compliance			· ·
Ар	prov	al Officer's Consideration and Decision		A2 8 0	
Ар	pen	dices			*
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	2.	Company Search		× *	
	3.	COIN Inspection Records			
	4.	List of Witnesses and Others Interviewed			
	5.	List of Productions for Use in Trial			
	6.	List of Evidence to be Adduced			
	7.	Draft Complaint		2	
	8.	Disclosure Instructions Table			
	9.	List of Previous Convictions			

INVESTIGATION PLANNING AND MANAGEMENT

Initial planning

Prepare the Investigation					
Initial Preparation	Phone conversation held with Cuadrilla on the 19 th June 2017 regarding the aquifer flow during conductor drilling of well PNR-2 at the Preston New Road site. Arranged for HSE Mines Inspector to join site investigation visit.				
Initial Objectives of Investigation	 Initial objectives of the investigation are: Gather information regarding the condition of the well and suspected cause of flow. Determine whether there is any imminent serious risk to people. Determine whether there is any potential breach of health and safety regulation. 				
H&S Considerations	Conductor setting operations on new multi-well pad lease.				
Outstanding invoices	No				
Violence and Aggression Details	No				
Violence and Aggression Source	N/A				
Violence and Aggression Nature of Threat	N/A				
Violence and Aggression Affected Person	N/A				
Violence and Aggression Future Visits	N/A				

Criminal Justice and Licensing (Scotland) Act 2010				
Investigator	Reporting Officer			
Reviewing Officer	Senior Investigating Officer	- **		

Complex Investigation Arrang	jements	
Protocol for requesting material		
Protocol for storing material		
Material Officer		
TRIM filing protocol		A 9
TRIM naming protocol		4 .

TRIM	Emails
proto	col

Ongoing planning & management

Visit Details

List all visits carried out in connection with this investigation. Include the following visit information:

- date; place; persons seen & role (include, other agencies e.g. police);
- purpose of the visit(s);
- Significant telephone contacts with interested parties, for example solicitor;
- Actions taken to inform interested parties of investigation outcome.

Date of Visit	Visit Details			
28/06/2017	Cuadrilla Resources Limited, Preston New Road Wellsite Tancashire, PR4 3PJ. S including meeting with Cuadrilla HSE Manager and gather information regarding operations including utilisation of auger and reverse circulating rig operations.			
18/07/2017	Follow up telephone meeting with Cuadrilla l mitigations for second conductor installation.	scuss on-going		
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Management Reviews

Initial Review				
Date				
Summary of progress	Reviewed Weekly Reports submitted by Cuadrilla on 11 th , 19 th and 25 th June 2017. Reviewed RIDDOR Report (1CAD09E379) submitted 15 th June 2017. Arranged investigation site visit to Preston New Road for the 28 th June 2017 and ioined by Well Engineering and Operations Inspector) and Mines Inspector). Reviewed Daily Drilling Reports (10 th , 11 th , 12 th and 13 th June 2017), Conductor Drilling Programme and HAZID for conductor drilling operations. Discussed operation of auger and reverse circulation rig including mixing and pumping bentonite/barite mud system and handling of fluid returns.			
	18/7/2017 – Telephone conversation with to discuss ongoing mitigations in place for second conductor installation. 42" conductor was cut as high as possible to gain 0.8-0.9m in hydrostatic head. 12ppg mud system was utilized from the start of auger/drilling operations. Auger was used to a depth of 39m with no flow. Reverse Circulation rig was utilized to drill to a total depth of 52m. No artesian flow during operations.			

AIMS			
Work-related Deaths	None.		
Date of primacy			
Immediate Enforcement Actions	The information available to us does not suggest or indicate that there is any immediate or imminent risks to people's health and safety, therefore, no enforcement actions taken.		
Potential Contraventions	From the information available including Wells IT, COIN, Well Notification and information gathered from Cuadrilla during investigation site visit (Daily Drilling Reports, HAZID report and Conductor Drilling Programme) there is no evidence of any contraventions of Health and Safety regulations.		
Sufficiency / strength of evidence			
Lines of enquiry/Tasks before next review	No further review is required.		
Key Decisions	No further investigation is required.		
Resource issues	None		
Reasons for continuing / curtailing investigation		No imminent serious risk to people. No evidence of contravention of Health and Safety legislation.	
	Name	Signature	
HSE Lead Investigator	2) (1 	8	
Investigation Manager		4	
Names of others atte	ending	A T	
Date of next planned	d review		



Appendix 1 – Form EMM1 (mandatory for all reports)

EMM Form Duty Holder: Cuadrilla Resources Limited					
EMM Form	4513140 - EMM - Cuadrilla - Preston Ne				

Appendix 2 – Company Search

Appendix 3 – COIN Inspection Records

