



GROSVENOR COAL MINE
FRM-PUR & URS Application Report

PUR-GEOFLEX INJECTION REPORT

Mine: ⇒ GRO	Location: ⇒ MG104	DATE: ⇒ 3-5-20
P/O Number. ⇒	ERZ Controller Name ⇒ T. Lawrence	ERZ Controller Signature ⇒ [REDACTED]
Shift Report No. ⇒	Total product pumped (Kg) ⇒	

No.	SET-UP CHECK LIST	
1.	Notify the statutory official on arrival at work location	/
2.	Complete Pre Start Meeting, Take5 or JSERA if required	/
3.	Establish the First Aid Kit	/
4.	Establish positive communication between the pump and injection site	/
5.	Establish the location of the firefighting station. Equipment required as a minimum is to be located at the outbye side of the pump and injection point.	/
6.	Clear the site of paper and unnecessary materials	/
7.	Locate the pump on level ground and in a protected area	/
8.	Check Hoses and Fittings are clear	/
9.	Check IBC Pods are clear	/
10.	Check IBC product pods are positioned on level ground	/
11.	Fit Suction Hoses to Pumps	/
12.	Fit Suction Hoses to IBC - BLACK to BLACK, WHITE to WHITE	/
13.	Remove caps from by-pass hoses	/
14.	Check return line pressure relief ball valves on PUR/USR pump are in the CLOSED position	/
15.	Ensure positive isolation has occurred	/
16.	Run out high pressure hoses from PUR/USR pump to injection site	/
17.	Fit high pressure hoses to both sides of the PUR/USR pump and fit with staples	/
18.	Ensure shut-off valves are fitted to high pressure hoses on both sides	/
19.	Check air supply line is clear then connect to PUR/USR pump ensuring that all valves are in the off position	/

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20.	Ensure all operators are wearing appropriate PPE	✓
21.	Set up "ZOO" and "RAA"	✓
22.	Drain oil from the by-pass hoses into a waste container (under low pressure)	✓
23.	Close both valves on output side of PUR/USR pump, open both valves on return line side	✓
24.	Start pump and re-circulate both A and B products	✓
25.	Drain oil from high pressure hoses into a waste container (under low Pressure)	✓
26.	When product commences flowing shut-off air & product ball valves, depressurize the system, and connect y-piece to the injection lines	✓
27.	Take PUR/USR sample at the injection site	✓
28.	Connect the Y-Piece to the first PUR/USR hole feed pipe.	✓
29.	Final check on all hoses & connections from the pump to the nozzle YOU ARE NOW READY FOR PUMPING!	✓
No.	COMPLETION / CLEAN-UP CHECK LIST	✓
1.	Drain any product from suction and return lines of pump back into the relevant IBC	✓
2.	Pump oil through PUR/USR pump, delivery, injection and recirculation hoses until all product is removed and transfer any contaminated product into waste containers	✓
3.	Roll up suction hoses and return to the equipment pod	✓
4.	Reclaim all tools, feed pipes, packers and equipment and return to equipment pod	✓
5.	Wash down pump and hoses with mine pressure water before packing into pod	✓
6.	Wipe down pumps with a clean rag before packing them into the equipment pod	✓
7.	If hoses are to remain along the injection site, secure to rib or pan line fully capped and stapled	✓
8.	Roll up all HP hoses and join back into themselves using staple locks and joiners and secure for transportation or secure to back of pan line if being left on L/W face	✓
9.	Attach appropriate tags to all pods and check all locks are in place.	✓
10.	Check site for any exposed resin (prepare for disposal) or spills (cover with stone dust)	✓
11.	Check site for any remaining rubbish and prepare for disposal	✓
12.	Remove your "Personal Danger Tags" and any isolation systems no longer required	✓
13.	Complete relevant check list and report forms.	✓
14.	Inform statutory official that you are leaving his district.	✓
15.	Ensure random Polymeric testing has been conducted. 4 in 5 marble process is to be used.	✓

Supervisor: *Andrew Paine*

Signature: [Redacted]

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LOG OF HOLES

HOLE #	FLOOR	ROOF	RIB	CHAINAGE CHOCK #	FEED PIPE	PACKER	GRP	HOLE DEPTH (M)	Nozzle PRESS URE Start/finish	PODS USED	Comments	EST. LITRES PER HOLE
1			✓	132	2	1	3	6M	60 / 40		B	180L
2			✓	131	2	1	3	6M	60 / 60		A	180L
3			✓	130	2	1	3	6M	40 / 40		A	180L
4			✓	129	2	1	3	6M	40 / 40		B	72L
5			✓	128	2	1	2	4M	40 / 40		A	180L
6			✓	127	2	1	2	4M	40 / 50		A	180L
7			✓	126	2	1	2	4M	40 / 50		A	180L
8			✓	125	2	1	2	4M	50 / 30		A	180L
9			✓	124	2	1	2	4M	30 / 30		E	72L 180L
10			✓	123	2	1	2	4M	30 / 40		A	180L
11			✓	122	2	1	2	4M	30 / 40		A	180L
12			✓	121	2	1	2	4M	30 / 40		B	180L
13			✓	120	2	1	2	4M	30 / 40		E Pregrat	40L
14			✓	119	2	1	2	4M	30 / 40		A	180L
15			✓	118	2	1	2	4M	30 / 50		B	180L
16			✓	117	2	1	2	4M	40 / 40		B	180L
17			✓	116	2	1	2	4M	30 / 50		A	180L
18			✓	115	2	1	2	4M	30 / 40		A	180L
19			✓	114	2	1	2	4M	30 / 50		B	180L
20			✓	113	2	1	2	4M	30 / 50		B	180L

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A - STRATA PRESSURE, GOOD SPREAD & LEAKS	B - STRATA PRESSURE & LEAKS	TOTAL LITRES
C - STRATA PRESSURE & NO LEAKS	D - PRE-GROUTED HOLE	
E - NO STRATA PRESSURE & LEAKS	F - NO STRATA PRESSURE & NO LEAKS	
LOG OF HOLES		

HOLE #	FLOOR	ROOF	RIB	CHANGAGE CHOCK #	FEED PIPE	PACKER	GRP	HOLE DEPTH (M)	Nozzle PRESS URE Start / finish	PODS USED	Comments	EST. LITRES PER HOLE
21			✓	112	2	1	2	4M	30 / 50		C	180L
22			✓	111	2	1	2	4M	30 / 50		C	180L
23			✓	110	2	1	2	4M	30 / 40		B	180L
24			✓	109	2	1	2	4M	30 / 40		B	180L
25			✓	108	2	1	2	4M	30 / 40		C	180L
26			✓	107	2	1	2	4M	30 / 45		A	180L
27			✓	106	2	1	2	4M	20 / 40		C	180L
28			✓	105	2	1	2	4M	30 / 50		B	180L
29			✓	104	3	1	2	4M	20 / 50		D	60L
30			✓	103	3	1	2	4M	20 / 40		E	180L
31			✓	102	3	1	2	4M	20 / 40		C	180L
32			✓	101	3	1	2	4M	20 / 40		B	180L
33			✓	100	3	1	2	4M	10 / 50		A	180L
34			✓	99	3	1	2	4M	50 / 50		D	20L
35			✓	98	3	1	2	4M	20 / 40		AB	180L

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(USR) Application Report

A - STRATA PRESSURE, GOOD SPREAD & LEAKS B - STRATA PRESSURE & LEAKS																	TOTAL LITRES <i>5664 Litres</i>			
C - STRATA PRESSURE & NO LEAKS D - PRE-GROUTED HOLE																				
E - NO STRATA PRESSURE & LEAKS F - NO STRATA PRESSURE & NO LEAKS																				

INJECTION LOCATION													
LOCATION OF HOLES AND DETAILS (INCLUDING SUPPORT FORMWORK)													



RODUCT USAGE SHEET			
Product Injected: (Please circle)	<u>PUR Standard</u>	PUR Water Finder	Urea Silicate Resin
Product Amount Used	Litres <u>5664</u>	KG's	
Total No. Empty Drums "PUR A"	<u>3</u> IBC		
Total No. Empty Drums "PUR B"	<u>3</u> IBC		
Total No. Empty Drums "USR A"			
Total No. Empty Drums "USR B"			

Consumables Used	
MATERIAL	QUANTITY
PLASTIC FEED PIPES 2M	77
PACKER SK40 W/MIXER	35
ADAPTOR WING ANCHOR	35
R32 self-drilling dowel	74 74
R32 self-drilling coupling	35
R32 self-drilling DRILL BITS	35
POLY PIPES & FITTINGS	
APPLICATION INJECTION NOZZLE	1
DAMAGED 3/8" 30m HOSE	
DAMAGED 3/4" 15m HOSE	
MATERIAL	QUANTITY
DP40 APPLICATION PUMP	1

Airflow reading in m/sec:		Respirator used	Y
Pump serial No.	<u>40035</u>	Injection complete	<u>Y</u>
Total Number of bolters used	LFD/MBS	Mine Final inspection by:	Signature:
	Rib Bolter		
	Roof Bolter		
	Air Track		

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INJECTION SITE REGISTER

DATE	NAME	TIME OF ENTRY	TIME OF EXIT	SIGNATURE
3/5/20	AARON MARRIS	6:00	4:00 am	
3-5-20	STANISLAW	6:00 PM	4:00 am	
3-5-20	J. R. H.	6:00 pm	4:00 am	
3-5-20	STEVE FOGAN	6:00 PM	4:00 am	[Redacted Signature]
3-5-20	A. Paine	6:00 PM	4:00 am	

NOTE: THE APPLICATION SITE HAS A RESTRICTED ZONE OF OPERATION. PLEASE SIGN THE ABOVE REGISTER AS A RECORD OF ENTERING AND EXITING THE ZONE. BEFORE ENTRY TO THIS ZONE YOU MUST HAVE COMPLETED PRODUCT AND APPLICATION FAMILIARISATION TRAINING AND COMPLY WITH ANY ZONE SPECIFIC PPE REQUIREMENTS

PERSONS WITH A HISTORY OF ASTHMA, ATOPIC CONDITIONS, HAY FEVER, RECURRENT ACUTE BRONCHITIS, INTERSTITIAL PULMONARY FIBROSIS, PULMONARY TUBERCULOSIS, OCCUPATIONAL CHEST DISEASE AND IMPAIRED LUNG FUNCTION SHOULD BE ADVISED AGAINST RISKING EXPOSURE TO ISOCYANATES.

A PERSON WITH PROVEN ISOCYANATE SENSITIVITY SHOULD NOT BE FURTHER EXPOSED TO ISOCYANATES.

A SIGNIFICANT PROPORTION OF PEOPLE WHO BECOME SENSITISED TO ISOCYANATE DO SO IN THE FIRST TWO MONTHS. A RESPIRATORY MEDICAL HISTORY AND/OR QUESTIONNAIRE SHOULD BE CONDUCTED AND TESTS OF RESPIRATORY FUNCTION SHOULD BE CARRIED OUT BY APPROPRIATELY QUALIFIED HEALTH PROFESSIONALS. THIS SHOULD BE DONE ON PLACEMENT AND AT PERIODS OF TWO WEEKS, SIX WEEKS AND SIX MONTHS AFTER ENGAGEMENT AND SUBSEQUENTLY AT SIX-MONTHLY INTERVALS. THESE RESPIRATORY FUNCTION TESTS SHOULD BE CARRIED OUT AT THE END OF THE NORMAL SHIFT.

SIGNIFICANT DEPARTURES FROM NORMAL VALUES OR FROM BASELINE LEVELS SHOULD LEAD TO RECONSIDERATION OF WORKPLACE EXPOSURE AND POSSIBLE JOB RE-ALLOCATION.

AFTER ABSENCE WITH RESPIRATORY SYMPTOMS, THE PERSON SHOULD BE RE-EXAMINED, INCLUDING SPIROMETRY, TO DETERMINE IF THERE HAS BEEN SIGNIFICANT DEPARTURE FROM PREVIOUS VALUES.

SUPERVISOR: Andrew Paine SIGNATURE: [Redacted Signature]

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