

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL				
ISOPROPYL ALCOHOL					546nm					1.516				
0.58					TOTAL No. OF PARTICLES MEASURED 4									
0.52					REFLECTIVITY (%)					No. OF PARTICLES				
0.55					$\bar{R}_{max.}$					4				
0.51				$\bar{R}_{aver.}$ 0.54										
										EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE				
					CARBON (%)			VOLATILE MATTER YIELD (%)			CARBON RATIO			
					75									

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH03</i>
LITHOLOGY <i>SHALE</i>	<i>3468.5m</i>
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW ORGANIC CONTENT. VERY SMALL AND VERY UNABLE PARTICLES OF HIGH R.O. INERTINITE + REMOVED MATERIAL. NO TRUE VITRINITE OF MEASURABLE AREA LOCATED. OCCASIONAL BITUMEN NISRS.</i>	<i>NO DETERMINATION POSSIBLE</i>
APPEARANCE IN U.V. <i>LIGHT / MID. ORANGE FLUORESCENCE FROM SPORES</i>	<p data-bbox="1125 1435 1340 1473">Geo-optics Ltd.</p> <p data-bbox="1125 1485 1356 1646">Ash House Bell Villas Ponteland Northumberland NE20 9BE</p>
EXINITE CONTENT IN U.V. <i>TRACE</i>	<p data-bbox="810 1653 925 1686">Signature <i>J.M.J.</i></p> <p data-bbox="1157 1653 1388 1697">Date <i>7.10.80</i></p>

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL									
ISODOPYL ALCOHOL					546 mμ					1.516									
					TOTAL No. OF <i>No DETERMINATION</i>					PARTICLES MEASURED <i>POSSIBLE</i>									
					REFLECTIVITY (%)					No. OF PARTICLES									
					$\bar{R}_{max.}$														
					$\bar{R}_{aver.}$														
					EQUIVALENT CHEMICAL PARAMETERS					DRY ASH FREE									
					CARBON (%)					VOLATILE MATTER YIELD (%)					CARBON RATIO				

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH04</i>
LITHOLOGY <i>SHALE</i> 3477m	
MINERALOGY <i>GLAUCONITE TRACES</i>	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW CONTENT OF SMALL, UNARLED PARTICLES OF INERTINITE + REWORKED MATERIAL. A COUPLE OF PARTICLES OF POSSIBLY TRUE VITRINITE ONLY LOCATED.</i>	
APPEARANCE IN U.V. <i>LIGHT + MID. ORANGE FLUORESCENCE FROM SPORES</i>	
EXINITE CONTENT IN U.V. <i>TRACE</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date 7.10.80</p> <p><i>J.M.J.</i> Signature</p>

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL				
Isotropic Alcohol					546nm					1.516				
0.39					TOTAL No. OF PARTICLES MEASURED 3									
0.48					REFLECTIVITY (%)					No. OF PARTICLES				
0.61					$\bar{R}_{max.}$									
					$\bar{R}_{aver.}$					0.49 3				
EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE														
CARBON (%)					VOLATILE MATTER YIELD (%)					CARBON RATIO				
73														

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH05</i>
LITHOLOGY <i>CARBONATE + SHALE</i> 3483m	
MINERALOGY <i>GLAUCONITE</i>	GENERAL COMMENTS
ORGANIC MATERIAL <i>Low ORGANIC CONTENT. PARTICLES OF INERTINITE + REWORKED MATERIAL. TRACE ONLY OF POOR VITRINITE WISPY PARTICLES - SEEM O.K.</i>	
APPEARANCE IN U.V. <i>LIGHT/MID. ORANGE FLUORESCENCE FROM SPORES</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>7.10.80</i></p> <p style="text-align: center;"><i>J.M.J.</i> Signature</p>
EXINITE CONTENT IN U.V. <i>TRACE</i>	

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL														
ISOMORPHIC ALCOHOL					546mμ					1.516														
0.59					TOTAL No. OF PARTICLES MEASURED 5																			
0.69					REFLECTIVITY (%)					No. OF PARTICLES														
0.61																								
0.34					\bar{R}_{max}					No. OF PARTICLES														
0.59																								
										\bar{R}_{aver}					EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE									
																				0.34				
										0.62					4									
										CARBON (%)					VOLATILE MATTER YIELD (%)					CARBON RATIO				
										64														
										77														

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>II17</i> <i>3593-620</i>
LITHOLOGY <i>SHALE</i> <i>3593-620n</i>	
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>MODERATE - RICH IN ORGANIC MATERIALS BUT ALMOST WHOLLY REMOVED AND INERTINITE PARTICLES. LOWEST R.O. PARTICLES MEASURED - POSSIBLY TRUE.</i>	
APPEARANCE IN U.V. <i>LIGHT + MID. ORANGE FLUORESCENCE FROM SPORES + HYDROCARBON SPECKS</i>	<p data-bbox="1134 1451 1353 1487">Geo-optics Ltd.</p> <p data-bbox="1134 1500 1372 1659">Ash House Bell Villas Ponteland Northumberland NE20 9BE</p> <p data-bbox="826 1518 1098 1711"><i>J. M. J.</i> Signature</p> <p data-bbox="1171 1668 1385 1704">Date <i>20.11.80</i></p>
EXINITE CONTENT IN U.V. <i>LOW</i>	

PREPARATION				WAVELENGTH		R.I. OF IMMERSION OIL		
ISOPROPYL ALCOHOL				546nm.		1.516		
0.60	0.63	0.41	0.76			TOTAL No. OF PARTICLES MEASURED 20		
0.65	0.67	0.42	1.02			REFLECTIVITY (%)		
0.55	0.69	0.45	0.93			No. OF PARTICLES		
0.50	0.70	0.53	0.95					
0.53	0.39	0.75	0.93					
						$\bar{R}_{max.}$		
						$\bar{R}_{aver.}$	0.58	16
							0.96	4
						EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE		
CARBON (%)		VOLATILE MATTER YIELD (%)	CARBON RATIO					
76 84								

ORIGIN	<i>B.P.</i>	SAMPLE	Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH06</i>
LITHOLOGY	<i>SHALE</i>		<i>3653m</i>
MINERALOGY		GENERAL COMMENTS	
ORGANIC MATERIAL	<i>MODERATE ORGANIC CONTENT. VIRTUALLY WHOLLY UNPARLED INERTINITE + REWORKED PARTICLES. ONLY A COUPLE OF PARTICLES OF POSSIBLY TRUE MATERIAL LOCATED.</i>		
APPEARANCE IN U.V.	<i>LIGHT + MID. ORANGE FLUORESCENCE FROM SPORES</i>		
EXINITE CONTENT IN U.V.	<i>LOW</i>	Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>7.10.80</i>	
		<i>John M. Jan</i> Signature	

PREPARATION				WAVELENGTH				R.I. OF IMMERSION OIL							
<i>Isopropyl Alcohol</i>				<i>546nm.</i>				<i>1.576</i>							
<i>0.51</i>								TOTAL No. OF PARTICLES MEASURED <i>4</i>							
<i>0.51</i>								REFLECTIVITY (%)		No. OF PARTICLES					
<i>0.49</i>															
<i>0.61</i>															
								$\bar{R}_{max.}$							
								$\bar{R}_{aver.}$		<i>0.53</i>		<i>4</i>			
								EQUIVALENT CHEMICAL PARAMETERS							
								DRY ASH FREE							
								CARBON (%)		VOLATILE MATTER YIELD (%)		CARBON RATIO			
<i>74</i>															

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>HH07</i>
LITHOLOGY <i>SHALE</i> 3671m	
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>MODERATE ORGANIC CONTENT. REWORKED + INERTINITE PARTICLES - VERY UNFARLED. LOWEST R.O. PARTICLES MEASURED - POSSIBLY TEVE.</i>	
APPEARANCE IN U.V. <i>LIGHT / MID. ORANGE FLUORESCENCE FROM SPORES + HYDROCARBON SPICES</i>	
EXINITE CONTENT IN U.V. <i>LOW</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>7.10.80</i></p> <p style="text-align: center;"><i>J.M.J.</i> Signature</p>

PREPARATION		WAVELENGTH		R.I. OF IMMERSION OIL			
ISOPROPYL ALCOHOL		546 m μ		1.516			
0.64				TOTAL No. OF PARTICLES MEASURED 2			
0.61							
				REFLECTIVITY (%)		No. OF PARTICLES	
				\bar{R}_{max}			
				\bar{R}_{aver}		0.64	2
EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE							
CARBON (%)		VOLATILE MATTER YIELD (%)		CARBON RATIO			
77							

ORIGIN	<i>B.P.</i>	SAMPLE	Our Ref: <i>A.S./U.M.J.</i> Your Ref: <i>II 18</i> <i>3746-76</i>
LITHOLOGY	<i>SHALE</i> <i>3746-76m</i>		
MINERALOGY	GENERAL COMMENTS		
ORGANIC MATERIAL	<p><i>MODERATE - RICH IN ORGANIC MATERIAL. FULL OF PARTICLES OF INERTINITE + REWORKED MATERIAL. A FEW BITUMEN WISPS + WISPY PARTICLES OF TRUE VITRINITE.</i></p>		
APPEARANCE IN U.V.	<p><i>LIGHT + MID ORANGE FLUORESCENCE FROM SPORES</i></p>		
EXINITE CONTENT IN U.V.	<i>LOW</i>	Signature	<p>Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>20-11-80</i></p>

PREPARATION				WAVELENGTH		R.I. OF IMMERSION OIL	
ISOPROPYL ALCOHOL				546 nm		1.516	
0.56	0.56	0.48	0.76			TOTAL No. OF PARTICLES MEASURED 20	
0.86	0.68	0.64	0.57			REFLECTIVITY (%)	
0.57	0.52	0.52	0.75			No. OF PARTICLES	
0.58	0.60	0.64	0.85			REFLECTIVITY (%)	
0.52	0.52	0.84	0.68			No. OF PARTICLES	
						$\bar{R}_{max.}$	
						$\bar{R}_{aver.}$	
						EQUIVALENT CHEMICAL PARAMETERS	
						DRY ASH FREE	
CARBON (%)		VOLATILE MATTER YIELD (%)		CARBON RATIO			
76							
81							

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH08</i>
LITHOLOGY <i>SHALE</i> 3750m	
MINERALOGY <i>GLAUCONITE</i>	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW ORGANIC CONTENT. UNABLED PARTICLES OF INERTINITE + HIGH R.O. VITRINITE + RENOVATED. VIRTUALLY NO TENE MATERIAL. A COUPLE OF POSSIBLE SPECIES MEASURED. BITUMEN STAINING.</i>	
APPEARANCE IN U.V. <i>LIGHT/MID ORANGE FLUORESCENCE FROM SPORES + HYDROCARBON SPECIES</i>	
EXINITE CONTENT IN U.V. <i>TRACE</i>	<div style="display: flex; justify-content: space-between;"> <div style="width: 45%;"> <p style="text-align: center;"><i>J.M.J.</i></p> <p>Signature</p> </div> <div style="width: 50%;"> <p>Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>7.10.80</i></p> </div> </div>

PREPARATION				WAVELENGTH				R.I. OF IMMERSION OIL					
Isopropyl Alcohol				546 nm.				1.516					
0.71								TOTAL No. OF PARTICLES MEASURED 2					
0.54								REFLECTIVITY (%)		No. OF PARTICLES			
								$\bar{R}_{max.}$					
								$\bar{R}_{aver.}$		0.54		1	
										0.71		1	
EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE								CARBON (%)		VOLATILE MATTER YIELD (%)		CARBON RATIO	
								75					
		79											

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>HH09</i>
LITHOLOGY <i>SHALE</i> <i>35/3-2</i> <i>3830m</i> <i>3830m</i>	
MINERALOGY <i>RATHER PYRITIC</i>	GENERAL COMMENTS
ORGANIC MATERIAL <i>MODERATE - RICH IN ORGANIC MATERIAL. OVERALL BITUMEN STAINING. PARTICLES OF INERTINITE + RENORCKED MATERIAL DOMINANT BUT SOME GOOD PARTICLES + WISPY PARTICLES OF WHAT IS THOUGHT TO BE TRUE VITRINITE</i>	
APPEARANCE IN U.V. <i>DEEP ORANGE FLUORESCENCE FROM SPORES</i>	
EXINITE CONTENT IN U.V. <i>MODERATE</i>	<div style="text-align: right;"> <p>Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>12-10-90</i></p> </div> <div style="text-align: center;"> <p><i>J.M.J.</i> Signature</p> </div>

PREPARATION <i>ISOPROPYL ALCOHOL</i>					WAVELENGTH <i>546 mμ</i>		R.I. OF IMMERSION OIL <i>1.516</i>				
<i>0.88</i>	<i>0.87</i>	<i>0.68</i>	<i>0.54</i>	<i>0.74</i>	TOTAL No. OF PARTICLES MEASURED <i>21</i>						
<i>0.71</i>	<i>0.75</i>	<i>0.71</i>	<i>0.63</i>		REFLECTIVITY (%)		No. OF PARTICLES				
<i>0.48</i>	<i>0.69</i>	<i>0.69</i>	<i>0.77</i>								
<i>0.59</i>	<i>0.71</i>	<i>0.72</i>	<i>0.73</i>		$\bar{R}_{max.}$						
<i>0.70</i>	<i>0.73</i>	<i>0.62</i>	<i>0.73</i>								
					$\bar{R}_{aver.}$		<i>0.70</i>	<i>21</i>			
					EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE						
					CARBON (%)		VOLATILE MATTER YIELD (%)		CARBON RATIO		
					<i>79</i>						

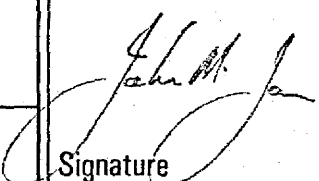
ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>HH10</i>
LITHOLOGY <i>LIMESTONE</i>	<i>3898m</i>
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>BITUMEN STAINING + WISPS.</i> <i>LOW CONTENT OF INERTINITE +</i> <i>REWORKED PARTICLES. LOWEST</i> <i>R.O. PARTICLES MEASURED - POSSIBLY</i> <i>TRUE.</i>	
APPEARANCE IN U.V. <i>STRONG LIGHT ORANGE</i> <i>FLUORESCENCE FROM CARBONATE</i> <i>NO DEFINITE EXINITE</i>	
EXINITE CONTENT IN U.V. <i>NIL</i>	<p data-bbox="1204 1433 1436 1478">Geo-optics Ltd.</p> <p data-bbox="1204 1478 1452 1646">Ash House Bell Villas Ponteland Northumberland NE20 9BE</p> <p data-bbox="893 1523 1165 1724"><i>J.M.J.</i> Signature</p> <p data-bbox="1244 1646 1452 1691">Date <i>12-10-80</i></p>

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL									
ИСОПОРЫЛ БЕЛОГОС					546nm					1.576									
0.62					TOTAL No. OF PARTICLES MEASURED 5														
1.10					REFLECTIVITY (%)					No. OF PARTICLES									
0.62																			
1.23					$\bar{R}_{max.}$														
1.21																			
										$\bar{R}_{aver.}$									
										0.62					2				
										1.18					3				
										EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE									
CARBON (%)					VOLATILE MATTER YIELD (%)					CARBON RATIO									
77 86																			

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.S</i> Your Ref: <i>HH11</i>
LITHOLOGY <i>SHALE</i> 3922m	
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW-MODERATE ORGANIC CONTENT. GOOD PARTICLES OF INERTINITE + REWORKED MATERIAL WITH SOME SEEMINGLY GOOD VITRINITE WISPY PARTICLES</i>	
APPEARANCE IN U.V. <i>MID. ORANGE FLUORESCENCE FROM SPORES</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>10.12.80</i></p> <p style="text-align: center;"><i>J.M.S.</i> Signature</p>
EXINITE CONTENT IN U.V. <i>MODERATE</i>	

PREPARATION					WAVELENGTH	R.I. OF IMMERSION OIL		
ISOPROPYL ALCOHOL					546 m μ	1.516		
0.74	0.63	0.67	0.64	0.46	TOTAL No. OF PARTICLES MEASURED 21			
0.67	0.76	0.70	0.61		REFLECTIVITY (%)	No. OF PARTICLES		
0.69	0.70	0.74	0.48					
0.67	0.78	0.73	0.64		\bar{R}_{max}			
0.69	0.76	0.68	0.49					
						\bar{R}_{aver}	0.66	21
						EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE		
						CARBON (%)	VOLATILE MATTER YIELD (%)	CARBON RATIO
						78		

PREPARATION					WAVELENGTH	R.I. OF IMMERSION OIL	
ISOPROPYL ALCOHOL					546 mμ	1.516	
0.54	0.58	0.54	0.48	0.45	TOTAL No. OF PARTICLES MEASURED 21		
0.65	0.48	0.52	0.58		REFLECTIVITY (%)	No. OF PARTICLES	
0.64	0.57	0.44	0.50				
0.53	0.53	0.35	0.53		$\bar{R}_{max.}$		
0.60	0.55	0.68	0.47				
					$\bar{R}_{aver.}$	0.53	21
					EQUIVALENT CHEMICAL PARAMETERS		
					DRY ASH FREE		
					CARBON (%)	VOLATILE MATTER YIELD (%)	CARBON RATIO
74							

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>II 19</i> <i>3965-92</i>
LITHOLOGY <i>SHALE - SLIGHTLY CALCAREOUS</i> <i>3965-92m</i>	
MINERALOGY	GENERAL COMMENTS <i>RELIABLE RESULT - BEST OF FIVE SAMPLES.</i> <i>GOOD U.V. FLUORESCENCE BUT INDICATES A LEVEL OF R.O. A BIT HIGHER THAN VITRINITE RESULTS - THE COLOUR LOOKED MORE LIKE 0.6 - 0.7 TO ME.</i>
ORGANIC MATERIAL <i>OVERALL LIGHT BITUMEN STAINING. MODERATE CONTENT OF INERTINITE + REWORKED PARTICLES WITH WHIPS + PARTICLES OF TRUE VITRINITE. A FEW LOOSE LIGNITE FRAGMENTS.</i>	
APPEARANCE IN U.V. <i>MID. ORANGE FLUORESCENCE FROM SPORES + PALAE</i>	<div style="text-align: right;"> Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>20.11.86</i> </div> <div style="text-align: center;">  Signature </div>
EXINITE CONTENT IN U.V. <i>MODERATE</i>	

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH 12</i>
LITHOLOGY <i>SHALY LIMESTONE</i> <i>3980m</i>	
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW ORGANIC CONTENT. BITUMEN WISPS. INERTINITE + REWORKED PARTICLES + SOME GOOD VITRINITE WISPS AND WISPY PARTICLES.</i>	
APPEARANCE IN U.V. <i>MID. ORANGE FLUORESCENCE FROM SPORES</i>	
EXINITE CONTENT IN U.V. <i>LOW</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>12.10.80</i></p> <p><i>John M. Ja</i> Signature</p>

PREPARATION <i>ISOPROPYL ALCOHOL</i>				WAVELENGTH <i>546m.</i>		R.I. OF IMMERSION OIL <i>1.516</i>		
<i>0.50</i>	<i>0.49</i>	<i>0.60</i>	<i>0.57</i>			TOTAL No. OF PARTICLES MEASURED <i>20</i>		
<i>0.53</i>	<i>0.47</i>	<i>0.64</i>	<i>0.54</i>			REFLECTIVITY (%)	No. OF PARTICLES	
<i>0.55</i>	<i>0.46</i>	<i>0.57</i>	<i>0.47</i>					
<i>0.57</i>	<i>0.59</i>	<i>0.51</i>	<i>0.56</i>			$\bar{R}_{\text{max.}}$		
<i>0.58</i>	<i>0.60</i>	<i>0.56</i>	<i>0.56</i>					
						$\bar{R}_{\text{aver.}}$	<i>0.55</i>	<i>20</i>
						EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE		
						CARBON (%)	VOLATILE MATTER YIELD (%)	CARBON RATIO
						<i>75</i>		

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J</i> Your Ref: <i>HH13</i>
LITHOLOGY <i>SILTSTONE</i> <i>4033.5</i>	
MINERALOGY	GENERAL COMMENTS
ORGANIC MATERIAL <i>LOW-MODERATE ORGANIC CONTENT, GOOD VITRINITE STRINGERS WITH ABOUT AN EQUAL PROPORTION OF INERTINITE PARTICLES BITUMEN STAINING.</i>	
APPEARANCE IN U.V. <i>MID. + DEEP ORANGE FLUORESCENCE FROM SPORES + HYDROCARBON IMPREGNATION</i>	
EXINITE CONTENT IN U.V. <i>LOW-MODERATE</i>	<p style="text-align: right;">Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE</p> <p style="text-align: right;">Date <i>12-10-80</i></p> <p>Signature <i>J.M.J.</i></p>

PREPARATION					WAVELENGTH	R.I. OF IMMERSION OIL	
ISOPROPYL PHTHALATE					546 m μ	1.516	
0.61	0.63	0.66	0.75	0.62	TOTAL No. OF PARTICLES MEASURED		
0.59	0.74	0.58	0.72	0.69	22		
0.57	0.69	0.60	0.69		REFLECTIVITY (%)	No. OF PARTICLES	
0.63	0.78	0.71	0.71				
0.64	0.69	0.67	0.61				
					$\bar{R}_{max.}$		
					$\bar{R}_{aver.}$	0.66	22
					EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE		
					CARBON (%)	VOLATILE MATTER YIELD (%)	CARBON RATIO
78							

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>A.S./J.M.J.</i> Your Ref: <i>HH14</i>
LITHOLOGY <i>CARCAREOUS SANDSTONE</i>	<i>4151.5</i>
MINERALOGY <i>INTERSTITIAL HAEMATITE</i> <i>NO PYRITE</i>	GENERAL COMMENTS <i>NO DETERMINATION POSSIBLE</i>
ORGANIC MATERIAL <i>NO ORGANIC MATERIAL</i> <i>LOCATED</i>	
APPEARANCE IN U.V. <i>FLUORESCENCE FROM</i> <i>HYDROCARBON TRACES IN A</i> <i>FEW CUTTINGS</i>	Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>12.10.80</i>
EXINITE CONTENT IN U.V. <i>NIL</i>	

PREPARATION					WAVELENGTH					R.I. OF IMMERSION OIL									
ISOPROPYL ALCOHOL					546m μ					1.516									
										TOTAL No. OF <i>16</i> DETERMINATION PARTICLES MEASURED <i>POSSIBLE</i>									
										REFLECTIVITY (%)					No. OF PARTICLES				
										$\bar{R}_{max.}$									
										$\bar{R}_{aver.}$									
EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE																			
CARBON (%)					VOLATILE MATTER YIELD (%)					CARBON RATIO									

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>AS/JMJ</i> Your Ref: <i>HH15</i>
LITHOLOGY <i>STRANGE LITHOLOGIES - EVAPORITES?</i> <i>4196m</i>	
MINERALOGY <i>HAEMATITE</i>	GENERAL COMMENTS <i>NO DETERMINATION POSSIBLE</i>
ORGANIC MATERIAL <i>NO ORGANIC MATERIAL LOCATED</i>	
APPEARANCE IN U.V. <i>NO FLUORESCENCE</i>	<div style="border: 1px solid black; padding: 5px;"> <p style="text-align: right;">Geo-optics Ltd.</p> <p style="text-align: right;">Ash House Bell Villas Ponteland Northumberland NE20 9BE</p> <p style="text-align: right;">Date <i>12-10-80</i></p> </div>
EXINITE CONTENT IN U.V. <i>NIL</i>	

J. M. J.
Signature

ORIGIN <i>B.P.</i>	SAMPLE Our Ref: <i>AS/J.M.S.</i> Your Ref: <i>HH16</i>
LITHOLOGY <i>EVAPORITES</i> <i>4247m</i>	
MINERALOGY <i>HAEMATITE</i>	GENERAL COMMENTS <i>NO DETERMINATION POSSIBLE</i>
ORGANIC MATERIAL <i>NO ORGANIC MATERIAL LOCATED</i>	
APPEARANCE IN U.V. <i>YELLOW FLUORESCENCE FROM HYDROCARBON SPARKS + ONE POSSIBLE LIGHT ORANGE SPARE</i>	<div style="text-align: right;"> Geo-optics Ltd. Ash House Bell Villas Ponteland Northumberland NE20 9BE Date <i>12.10.80</i> </div>
EXINITE CONTENT IN U.V. <i>TRACE?</i>	

PREPARATION <i>ISOPROPYL ALCOHOL</i>		WAVELENGTH <i>546nm.</i>		R.I. OF IMMERSION OIL <i>1.516</i>	
				TOTAL No. OF <i>No DETERMINATION</i> PARTICLES MEASURED <i>POSSIBLE</i>	
				REFLECTIVITY (%)	No. OF PARTICLES
				$\bar{R}_{max.}$	
				$\bar{R}_{aver.}$	
EQUIVALENT CHEMICAL PARAMETERS DRY ASH FREE					
				CARBON (%)	VOLATILE MATTER YIELD (%)
					CARBON RATIO

