

| Flat, Low-lying Topography | | | | |
|--|---|--|--|---|
| Phase | Predicted effect on the flat, low-lying landform | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
| Phase 1 (40 Days) | Wellsite pad and access track would be constructed over the existing farmland. The wellsite would be raised approximately 0.5 to 1m above the existing ground levels. The change in levels would be discernible across a small proportion of the character area and would be restricted to the close vicinity of the wellsite. It would not change the perception of a flat Low-lying landscape. The effects would be temporary and reversible. | Medium | Low (Adverse) | Minor |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would not have any additional effect on the site levels or the landform. | Medium | Low (Adverse) | Minor |
| Phases 4 and 5 (Up to 120 Days) | Hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes would not have any additional effect on the site levels or the landform. | Medium | Low (Adverse) | Minor |
| Phase 6 (Up to 90 Days) | Extended well test of the horizontal borehole would not have any additional effect on the site levels or the landform. | Medium | Low (Adverse) | Minor |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would not have any additional effect on the site levels or the landform. | Medium | Low (Adverse) | Minor |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellpad and access track would be broken out and removed. The land would be returned to existing pre exploration levels. | Medium | Negligible (Adverse) | Negligible |

| Geometric Field Pattern | | | | |
|--|---|--|--|---|
| Phase | Predicted effect on the geometric fields of various sizes reflecting organic growth of the reclaimed land | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
| Phase 1 (40 Days) | Construction of the wellsite pad and access track would have little effect on the geometric field pattern. The wellsite would be a self-contained island within a single field enclosure. The existing field patterns would remain legible during the works. The effects would be temporary and reversible. | Medium | Negligible (Adverse) | Negligible |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would not have any additional effect on the field pattern or its legibility. | Medium | Negligible (Adverse) | Negligible |
| Phases 4 and 5 (Up to 120 Days) | Hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes would not have any additional effect on the field pattern or its legibility. | Medium | Negligible (Adverse) | Negligible |
| Phase 6 (Up to 90 Days) | Extended well test of the horizontal borehole would not have any additional effect on the field pattern or its legibility. | Medium | Negligible (Adverse) | Negligible |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would not have any additional effect on the field pattern or its legibility. | Medium | Negligible (Adverse) | Negligible |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellsite, access track and all associated infrastructure and equipment would be broken out and removed. The land would be returned to existing pre exploration condition. There would be no long term effect on the field pattern. | Medium | Negligible (Adverse) | Negligible |

Network of Deep Drainage Ditches

| Phase | Predicted effect on the extensive network of drainage ditches | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
|--|--|---|-----------------------------------|--------------------------------------|
| Phase 1 (40 Days) | Construction of the wellsite pad would not affect the extensive network of drainage ditches which characterise the Mosslands. The wellsite would be located away from the watercourses, although construction of the proposed access track may require localised culverting of minor field drains. This would not affect the overall appearance of the ditches. The effects would be temporary and reversible. | Medium | Negligible (Adverse) | Negligible |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would not have any additional effect on the drainage ditches. | Medium | Negligible (Adverse) | Negligible |
| Phases 4 and 5 (Up to 120 Days) | Hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes would not have any additional effect on the drainage ditches. | Medium | Negligible (Adverse) | Negligible |
| Phase 6 (Up to 90 Days) | Extended well test of the horizontal borehole would not have any additional effect on the drainage ditches. | Medium | Negligible (Adverse) | Negligible |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would not have any additional effect on the drainage ditches. | Medium | Negligible (Adverse) | Negligible |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellsite, access track and all associated infrastructure and equipment would be broken out and removed. The land would be returned to existing pre exploration condition. There would be no long term effect on the drainage network. | Medium | Negligible (Adverse) | Negligible |

| High Grade Agricultural Land | | | | |
|--|--|--|--|---|
| Phase | Predicted effects on productive agricultural land including best and most versatile land. | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
| Phase 1 (40 Days) | Wellsite pad and access track would be constructed on top of the existing ground (using imported fill and geotechnical reinforcement. The nutrient rich soils/peat would be retained in situ. Although approximately 1.57 ha of ‘best and most versatile’ agricultural land would be taken out of production for the duration of the exploration works. The effects would be temporary and reversible and would not prevent access to the adjacent farmland. | Medium | Low (Adverse) | Minor |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would not have any additional effect on the productive farmland. | Medium | Low (Adverse) | Minor |
| Phases 4 and 5 (Up to 120 Days) | Hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes would not have any additional effect on the productive farmland. | Medium | Low (Adverse) | Minor |
| Phase 6 (Up to 90 Days) | Extended well test of the horizontal borehole would not have any additional effect on the productive farmland. | Medium | Low (Adverse) | Minor |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would not have any additional effect on the productive farmland. | Medium | Low (Adverse) | Minor |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellsite, access track and all associated infrastructure and equipment would be broken out and removed. The land would be returned to existing pre exploration condition. There would be no permanent loss of high grade agricultural land (Best and most versatile) and no long term effect on agriculture. | Medium | Negligible (Adverse) | Negligible |

| Expansive Open landscape and Long-distance Views in all Directions | | | | |
|---|--|--|--|---|
| Phase | Predicted effects on the expansive open landscape and long-distance views in all directions. (Refer to visual assessment for predicted visual effects) | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
| Phase 1 (40 Days) | Construction of the wellsite and access track would have some effect on the openness of the landscape and views across the Mossland, although the construction equipment (piling rig and 360 excavator) would be mobile and temporary. | Medium | Low (Adverse) | Minor |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would require the construction of a 60m high drilling rig, (plus ancillary wellsite equipment), which would introduce a prominent vertical structure, similar in height to the nearby transmission line towers. It would increase the number of vertical structures, which does not support the Lancashire County, or West Lancashire District objectives to minimise vertical structures. The effects would be temporary and revisable. | Medium | Medium (Adverse) | Moderate |
| Phases 4 and 5 (Up to 120 Days) | Hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes would require a 25m high coil tubing tower, which would be lower than the drilling rig, although it would remain a prominent vertical structure for the duration of the works. | Medium | Low (Adverse) | Minor |
| Phase 6 (Up to 90 Days) | Tall vertical structures, including the coil tubing tower would be removed prior to the extended well test of the horizontal borehole. Open views would be maintained. | Medium | Negligible (Adverse) | Negligible |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would require a 32 m high work over rig, which would reintroduce a tall vertical structure which does not further the Lancashire County, or West Lancashire District objectives to minimise vertical structures. The effects would be temporary and revisable. | Medium | Low (Adverse) | Minor |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellsite, access track and all associated infrastructure and equipment would be broken out and removed. The land would be returned to existing pre exploration condition. There would be no permanent addition to the number of vertical structures, or effect on the openness of the landscape compared to existing. | Medium | Negligible (Adverse) | Negligible |

Quiet, Secluded Landscape with Dark Skies

| Phase | Predicted effects on the quiet, secluded landscape away from habitation with dark skies and few lighting sources | Landscape Sensitivity (Report Table 3) | Magnitude of Effect (Table A3) | Significance of Effect (Table A8) |
|--|--|---|-----------------------------------|--------------------------------------|
| Phase 1 (40 Days) | Wellsite pad and access track would introduce temporary lighting, movement and activity into a relatively quiet and secluded landscape. This would reduce the relative tranquillity of Altcar Moss throughout the construction works. The effects would be temporary and reversible. | Medium | Low (Adverse) | Minor |
| Phases 2 and 3 (Up to 10 Months) | Drilling of vertical and horizontal boreholes would introduce increased equipment, including a 60m high drilling rig and additional lighting, resulting in increased noise, lighting and activity within and wellsite and along the access road, further reducing the tranquillity of the area. The effects would be temporary and fully reversible. | Medium | Medium (Adverse) | Moderate |
| Phases 4 and 5 (Up to 120 Days) | The hydraulic fracture stimulation and initial flow testing of vertical and horizontal boreholes, would be slightly less prominent than the drilling phase, although the adverse effects on tranquillity caused by wellsite lighting and activity would remain for the duration of the phase. | Medium | Low (Adverse) | Minor |
| Phase 6 (Up to 90 Days) | The extended well test of the horizontal borehole would have lower levels of activity and lighting than the previous phases, although there would be some reduction in tranquillity compared to existing. | Medium | Negligible (Adverse) | Minor |
| Phase 7 (Up to 4 Weeks) | Decommissioning and borehole abandonment would result in a short-term (4 week) reduction in tranquillity, although the effects would be no greater than the previous phases. | Medium | Low (Adverse) | Minor |
| Phase 8 (Up to 30 Days) | Restoration and aftercare. The wellsite, access track and all associated infrastructure and equipment would be broken out and removed. The land would be returned to existing pre exploration condition. Previous levels of tranquillity and the dark skies would be reinstated. | Medium | Negligible (Adverse) | Negligible |