

Existing Hatfield Moor Gas Storage Facility (Retention)

Item		<i>Dimensions (approximate)</i>		
		H	L	W
Hatfield Moor Reservoir (continued use for the purpose of natural gas storage and extraction)		-		
3 x Hatfield Moor Wellheads		3	3	3
Lindholme Gas Processing Facility (GPF)	control room	3.8	18	10
	workshop and stores	3.4	10	10
	instrument (air compressor building)	5.2	25	10
	transformer and switchgear building	8.7	5	10
	gas turbine driven compressor (5.5 MW)	6.1	12	4
	gas dehydration plant and condensate tank	3.5	8	5
	gas heating unit	7	10	3
	pressure letdown skid	1.5	8	3
	gas metering skid	3	8	3
	cold vent area and vent stack	10m by 30 radius		
	chemical/oil store	3	3	3
Underground gas pipelines	a single 400mm gas pipeline from Lindholme GPF to Hatfield Moor wellsite	1.5 km (length)		

Proposed Development

Item		<i>Dimensions (approximate)</i> H L W (Metres)
Single Appraisal Well (located at either HW-02 or HW-03)	temporary laydown area	65m x 55m
	soil stripping and storage	
	geotextile base hardstanding	300-500 mm deep
	mobile truck mounted drilling rig	25m high
	mud circulating system (pumps and tanks)	4 10 8
	logging equipment	4 4 4
	temporary storage and accommodation units	3m high
	blow our prevention equipment	3 3 3
Borehole Drilling of Main Wells (HW-02 & HW-03)	temporary laydown area including temporary car parking area and drill pipe and casing laydown area.	(65m x 55m HW-02) (90m x 50m HW-03)
	soil stripping and storage	
	geotextile base hardstanding	300-500mm deep
	mobile truck mounted drilling rig	25m high
	mud circulation system (drilling lubrication)	Within compound
	temporary workshop and tool huts	Within compound
	office, staff accommodation and welfare facilities	Within compound
	blow out prevention equipment	3 3 3
	widen existing field access and upgrade the road to HW-02	widened to around 5m
	turning area for access to HW-03	50m ²
Gas Pipeline	corridor within which pipeline will be laid	700m long and 40m wide

Proposed Development

Item	Dimensions (approximate)			
	H	L	W	
(Metres)				
Hatfield West Reservoir (use for the storage and extraction of natural gas)	-			
Underground gas pipeline connecting HW-02 to Lindholme GPF	700m (length)			
Above ground gas pipeline connecting HW-03 to Lindholme GPF	80m (length)			
2 no. Gas wellheads (HW-02 & HW-03)	gas wellhead	3.5 m high		
	glycol injection skid	3m x 4m x 2m high		
	separator tank	2m diameter & 3m high		
	flowmeter skid	2m x 4m x 1.5m high		
	stand alone hydraulic pack – actuated valve control	2	4	3
	new pig trap and Lindholme pipeline tie-ins	2	8	4
	low voltage power supply connection and communications connection from Lindholme (buried along pipeline route)	0.5	0.5	0.5
	hardstanding	30m x 40m		
	wellhead cellar	2.5m x 2.5m x 3m deep		
	security fencing	3m / perimeter		
Modifications to Existing Lindholme GPF	secondary gas turbine driven compressor (7MW), including fuel skid	Same size		
	secondary fiscal flow meter	Same size		
	secondary pressure letdown skid	Same size		
	pigging station and new incoming pipeline and pig trap	Same size		
	modification to cold vent	12m high		
	pipeline tie-ins	12 inch diameter		
	additional control and electrical cables at site required for connection of new equipment	Existing MCB		
	extension of existing control building	5.8	20.6	16.6