

## Onshore UK

Onshore UK summary		
Gross		
Total gross 2P reserves (oil)	1.00	million boe
Total gross 2C resources (oil)	3.10	million boe
Total gross mean un-risked prospective resources (oil)	13.15	million boe
Total gross mean un-risked contingent resources (gas)	27	million boe
Net		
Total net 2P reserves (oil)	0.46	million boe
Total net 2C resources (oil)	0.78	million boe
Total net mean un-risked prospective resources (oil)	2.98	million boe
Total net mean un-risked contingent resources (gas)	9.5	million boe

In house reserves															
Licence	Field	Gross Oil Reserves MMstb			Gross Gas Reserves Bscf			equity	Net Oil Reserves MMstb			Net Gas Reserves Bscf			Reference
		1P	2P	3P	1P	2P	3P		1P	2P	3P	1P	2P	3P	
DL003	West Firsby	0.095	0.161					100%	0.095	0.161					
DL001	Crosby Warren	0.059	0.081					100%	0.059	0.081					
PL199/215	Whisby-4	0.086	0.141					65%	0.056	0.092					

Audited reserves																
Licence	Field	Gross Oil Reserves MMstb			Gross Gas Reserves Bscf			equity	Net Oil Reserves MMstb			Net Gas Reserves Bscf			Reference	
		1P	2P	3P	1P	2P	3P		1P	2P	3P	1P	2P	3P		
PEDL 180/182	Wressle Ashover	0.26	0.54	1.12	0.08	0.16	0.31	20%	0.052	0.108	0.224	0.016	0.032	0.062	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 180/182	Wressle Wingfield	0.03	0.08	0.17	0.02	0.04	0.09	20%	0.006	0.016	0.034	0.004	0.008	0.018	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>

Audited contingent resources																
Licence	Field	Gross Oil Contingent Resources MMstb			Gross Gas Contingent Resources Bscf			equity	Net Oil Contingent Resources MMstb			Net Gas Contingent Resources Bscf			Reference	
		1C	2C	3C	1C	2C	3C		1C	2C	3C	1C	2C	3C		
PEDL 180/182	Wressle Penistone	0.68	1.53	2.76	0.86	2.00	3.57	20%	0.136	0.306	0.552	0.172	0.4	0.714	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 180/182	Wressle Ashover				0.04	0.09	0.21	20%				0.008	0.018	0.042	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 180/182	Wressle Wingfield				0.07	0.13	0.24	20%				0.014	0.026	0.048	ERCE CPR Sept 2017	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 299	Hardstoft	0.49	3.1	18.46				25%	0.123	0.775	4.615				Blackland CPR Oct 2015	<a href="http://bit.ly/2vsEZGz">http://bit.ly/2vsEZGz</a>

Audited prospective resources																					
Licence	Prospect	Gross Oil Prospective Resources MMstb				Gross Gas Prospective Resources Bscf				equity	Net Oil Prospective Resources MMstb				Net Gas Prospective Resources Bscf				chance of success	Reference	
		Low	Best	High	mean	low	best	high	mean		low	best	high	mean	low	best	high	mean			
PEDL 180/182	Broughton N Penistone	0.1	0.27	0.58	0.31	0.15	0.39	0.8	0.44	20%	0.020	0.054	0.116	0.062	0.030	0.078	0.160	0.088	49%	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 180/182	Broughton N Ashover	0.05	0.15	0.41	0.2	0.02	0.06	0.15	0.07	20%	0.010	0.030	0.082	0.040	0.004	0.012	0.030	0.014	40%	ERCE CPR Sept 2016	<a href="http://bit.ly/2vspVZc">http://bit.ly/2vspVZc</a>
PEDL 299	Hardstoft East	0.58	3.65	26.06	7.00					25%	0.145	0.913	6.515	1.750					64%	Blackland CPR Oct 2015	<a href="http://bit.ly/2vsEZGz">http://bit.ly/2vsEZGz</a>
PEDL 143	Holmwood Portland	0.26	0.82	2.61	1.24					20%	0.052	0.164	0.522	0.248					50%*	ERCE CPR Jun 2012	<a href="http://bit.ly/2voxlfy">http://bit.ly/2voxlfy</a>
PEDL 143	Holmwood Coralian	0.55	2.54	9.9	4.4					20%	0.110	0.508	1.980	0.880					50%*	ERCE CPR Jun 2012	<a href="http://bit.ly/2voxlfy">http://bit.ly/2voxlfy</a>
<b>Total</b>					<b>13.15</b>					<b>0.51</b>				<b>2.980</b>						<b>0.102</b>	

In house contingent resources										
Licence	Prospect	Gross Gas Contingent Resources Bscf				equity	Net Gas Contingent Resources Bscf			
		low	best	high	mean		low	best	high	mean
PEDL 343	Cloughton	30	130	270	162	35%	10.500	45.500	94.500	56.700
		Gross Gas Contingent Resources mmboe*				equity	Net Gas Contingent Resources mmboe*			
		low	best	high	mean		low	best	high	mean
		5	22	45	27	35%	1.75	7.58	15.75	9.45

\*conversion factor 6 bscf=1 mmboe

\*in house post Horse Hill-1