

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 G 1P
		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 G 1P
		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
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

Audited contingent resources												
Licence	Field	Gross Oil Contingent Resources MMstb			Gross Gas Contingent Resources Bscf			equity	Net Oil Contingent Resources MMstb			Net Gas C 1C
		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
PEDL 180/182	Wressle Ashover				0.04	0.09	0.21	20%				0.008
PEDL 180/182	Wressle Wingfield				0.07	0.13	0.24	20%				0.014

PEDL 299	Hardstoft	0.49	3.1	18.46				25%	0.123	0.775	4.615	
----------	-----------	------	-----	-------	--	--	--	-----	-------	-------	-------	--

Audited prospective resources												
Licence	Prospect	Gross Oil Prospective Resources MMstb				Gross Gas Prospective Resources Bscf				equity	Net Oil Prospective	
		Low	Best	High	mean	low	best	high	mean		low	best
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
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
PEDL 299	Hardstoft East	0.58	3.65	26.06	7.00					25%	0.145	0.913
PEDL 143	Holmwood Portland	0.26	0.82	2.61	1.24					20%	0.052	0.164
PEDL 143	Holmwood Coralian	0.55	2.54	9.9	4.4					20%	0.110	0.508
Total					13.15				0.51			

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
		30	130	270	162	35%	10.500	45.500	94.500	56.700
PEDL 343	Cloughton	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

Gas Reserves Bscf		
2P	3P	Reference

Gas Reserves Bscf		
2P	3P	Reference
0.032	0.062	ERCE CPR Sept 2016 http://bit.ly/2vspVZc
0.008	0.018	ERCE CPR Sept 2016 http://bit.ly/2vspVZc

Contingent Resources Bscf		
2C	3C	Reference
0.4	0.714	ERCE CPR Sept 2016 http://bit.ly/2vspVZc
0.018	0.042	ERCE CPR Sept 2016 http://bit.ly/2vspVZc
0.026	0.048	ERCE CPR Sept 2017 http://bit.ly/2vspVZc

	Blackland CPR Oct 2015	http://bit.ly/2vsEZGz
--	------------------------	---

Resources MMstb		Net Gas Prospective Resources Bscf				chance of success	Reference
high	mean	low	best	high	mean		
0.116	0.062	0.030	0.078	0.160	0.088	49%	ERCE CPR Sept 2016 http://bit.ly/2vspVZc
0.082	0.040	0.004	0.012	0.030	0.014	40%	ERCE CPR Sept 2016 http://bit.ly/2vspVZc
6.515	1.750					64%	Blackland CPR Oct 2015 http://bit.ly/2vsEZGz
0.522	0.248					50%*	ERCE CPR Jun 2012 http://bit.ly/2voxlfy
1.980	0.880					50%*	ERCE CPR Jun 2012 http://bit.ly/2voxlfy
	2.980				0.102		

*in house post Horse Hill-1