Basin	Well Number	Operator	Current Owner	Prospect name	Primary Objective	E or A	Licence Number	Licence Round	Spud Date	End Date	DECC Release number	Analysed Objectives (Segments)	Trap Type	Amplitude driven ?	CoS %	Main pre-drill risk	Failure cause 1	Failure cause 2	Failure cause 3	Main Risk adequately prognosed	From a technical standpoint, well should not have been drilled	Comment	DH / TS/	Fallow / non economic discovery	non oblig	non oblig / Fallow	Promote	DoD	Contingent	Firm	Comments regarding Commitments
CNS	**22/07-4**	Apache	Apache	TEP3	GP (Forties)	E	P087	2	09/04/2005	05/05/2005	111	GP (Forties)	structural 4 way dip	No AVO study. Should have been done...	36	Mig/Timing	Migration shadow?	No closure? (low relief and top reservoir deeper than prognosed.)	-	likely Yes		AVO negative not trusted	DH		**1**	**BR**					
MF	**13/22c-30**	BG	BG	Hermes	UJ(Ettrick B sands)	E	P1083	21	02/06/2006	24/07/2006	112	UJ Ettrick	Strati trap (pinch-out)	No	28	Seal = 55% Reservoir = 63%	**No updip pinch-out**	No trap	-	Yes (1 over 2)		Enforced well trades ?	DH						**1**		
MF	**14/28b-4**	BG	BG	Moonraker	UJ (Ettrick B sands) Early Volgian	E	P732	12	26/07/2006	26/08/2006	116	UJ Ettrick	Strati trap (pinch-out)	No	20	Seal	Seal (lateral, updip)	Migration?	-	Yes			DH		**1**	**BR**					
CNS	**22/14a-7**	BG (Hess)	BG	Mallory	JU	E	P110	3	28/11/2007	30/01/2008	122	UJ Fulmar	Strati: interpod	No	24	Reservoir = 52% Seal = 60%	**No target reservoir**	No trap	Mig effectiveness ?	not quite (res. presence was 80%)			DH		**1**	**BR**					
CNS	**23/21-5**	BG	BG	Toad	GP (Forties)	E	P101	3	12/02/2008	14/03/2008	122	GP (Forties)	Stratigraphic	Yes (and flat spot on Far offset)	24	Seal	Seal (bottom)	DHI	-	Yes			TS		**1**	**BR**					
CNS	**28/05a-6**	EnCana	BG	Porcupine	GE (Upper +Lower Tay; Forties)	E	P213	4	26/10/2003	10/11/2003	105	Eocene Tay sands	Stratigraphic	Gas cloud used as a DHI	unknown	unknown	Target reservoir absent	DHI	Mig effectiveness ?	n/a	Would a CSEM acquisition have given a clear answer?	Strong belief that it would be like Bittern.	DH		**1**						
CNS	**28/05a-7**	BG	BG	North Channel	GP (Forties)	E	P213	4	28/09/2006	16/10/2006	117	GP (Forties)	Strati trap (pinch-out)	Yes (AVO weak)	45	Seal (Top)	Seal (bottom)	No trap	Mig effectiveness ?	Yes		No convincing DHI observed pre-drill. Migration may have been risked too optimistically	DH		**1**						
CNS	**30/02a-10**	BG	BG	Thunderer	Tr-Joanne	E	P098	3	02/01/2013	17/06/2013	nr	Tr-Joanne	structural tilted fault block	No	25	Mig/Timing = Seal = 60%	No charge (Migration pathway)	-	-	Yes (1 over 2)		Without a well in 2013, licence likely faced relinquishment	DH		**1**						3rd Round issues
CNS	**30/08-3**	BG	BG	Calloway	T (Joanne)	E	P066	2	25/09/2005	07/02/2006	114	Tr-Skagerrak	Structural 3 way dip	No	29	Mig/Timing = 60% reservoir = 63%	Migration (shadow)	-	-	Yes (reservoir is OK)		Depth prognosis should not rely on PSDM	DH at Joanne		**1**	**BR**					
CNS	**22/20a-7**	BP	BP	TP1	Forties	E	P059	2	21/08/2010	24/09/2010 (at TD)	nr?	GP (Forties)	Structural	Yes AVO	40	Trap geometry	Trap	Seal (fault)	-	Yes but overconfident on seal (100%)		Updip fault is an artefact. Beware of DHI on steeply dipping structures.	DH		**1**						
MF	**15/11b-6**	Bridge North Sea	Bridge Resources	North Piper "F" = Lariat	JU (Piper sdst)	E	P1291	23	29/07/2008	19/08/2008	113	Upper Jurassic Piper sands	Strati trap (pinch-out)	No	35	Migration pathways	No charge (Migration pathway)	Seal (lateral + bottom)	-	Yes			DH		**1**		**1**				
MF	**19/02-2**	Century	Century	Dolphin	KL (Britania sdst, Punt, Upper Ju sdsts)	E	P1096	21	29/09/2008	18/10/2008	111	KL (Britannia sdst)	Strati trap (pinch-out)	No. "draping"	10	Trap = 40% Reservoir = 45%	Reservoir absent	Trap	Migration ?	Yes (but the other way round)	Farm-in well: Drill or pay the amount to Roundstone (Promote lic)		DH		**1**		**1**				
CNS	**22/27a-4 + Mech**	CNR	CNR	Deep Banff		A + Mech	P114	3	04/01/2009 10/05/2009	10/05/2009 08/07/2009	128	UJ Fulmar	Structural (tilted fault block)	No	42	Seal (integrity)	Seal failure (top)	-	-	Yes			DH		**1**	**B discovery**					
MF	**15/30-12**	ConocoPhillips	ConocoPhillips	Macallan discovery appraisal	JU (Piper)	A	P103	3	06/06/2003	25/08/2003	104	UJ Piper	Structural (tilted fault block)	No	33	Seal = 60% Reservoir = 58%	Seal failure (top)	Reservoir thinner than prognosed	-	Yes			gas shows		**1**	**B discovery**					
MF	**12/20b-1 (5 segments)**	Petro-Canada	Dana	Gemini	KU (Coracle sdst) 5 target intervals	E	P1266	23	29/12/2007	17/01/2008	118	KU (Coracle sdst)	3way dip closure against a major fault	No	19	Seal	Lateral Seal	Trap	Migration ?	Yes			DH							**1**	
MF	**12/20b-1**	Petro-Canada	Dana	Gemini	Burns sdsts (JU - Late Volgian)	E	P1266	23	29/12/2007	17/01/2008	118	Burns sdsts (JU - Late Volgian)	Strati trap (pinch-out)	No	25	Reservoir presence	Reservoir absent	-	-	Yes			DH								
MF	**12/20b-1**	Petro-Canada	Dana	Gemini	Burns sdsts (JU - Early Volgian)	E	P1266	23	29/12/2007	17/01/2008	118	Burns sdsts (JU - Early Volgian)	Strati trap (pinch-out)	No	8	Reservoir presence	Reservoir absent	-	-	Yes			DH								
MF	**12/20b-1**	Petro-Canada	Dana	Gemini	Alness /Ross (MJU)	E	P1266	23	29/12/2007	17/01/2008	118	Alness /Ross (MJU)	Strati trap (pinch-out)	No	20	Seal	Lateral Seal	Trap	Migration ?	Yes			DH								
MF	**12/20b-1**	Petro-Canada	Dana	Gemini	Permian (Findhorn FM)	E	P1266	23	29/12/2007	17/01/2008	118	Permian (Findhorn FM)	3way dip closure against a major fault	No	13	Seal	Lateral Seal	Trap	Migration ?	Yes			DH								
MF	**13/23a-7 + 7A (re-spud)**	Dana	Dana	Magnolia	KL Captain, Coracle, Punt	E	P1610	25	24/02/2013 01/03/2013	28/02/2013 27/03/2013	nr	KL Captain, Coracle, Punt	Strati (pinch-out onto the Halibut horst)	No	31	Seal = 50% Trap = 70%	Trap	Lateral seal ?	Charge ?	No			DH							**1**	
MF	**13/23d-8**	Dana	Dana	Liberator	KL Captain sdst	E	P1987	27	28/10/2013	22/11/2013	nr	KL (Captain sdst)	Structural (4 way dip)	No	35	Reservoir = 50% Trap = 70%	Trap	-	-	Not quite (trap was 2nd risk at 70%)		Wrong seismic pick	TS							**1**	
CNS	**21/20f-7**	Noble	Dana	Morgan	GP (Balmoral + Forties)	E	P185	4	13/01/2008	06/02/2008	122	GP (Balmoral + Forties)	Structural 4 way dip closure	Yes (supported)	45	unknown	Likely top seal (Lista sandy? fault?)	Trap geometry ?	DHI?	n/a		DANA farmed-in	TS	Fallow discovery , 14th Release, 2013. Block relinquished 2015.	**1**	**BR**					
CNS	**22/11b-13**	Bow Valley	Dana	"L"	JU (Fulmar)	E	P1418	24	22/08/2008	18/10/2008	120	JU (Fulmar)	Structural (downthrown Terrace)	No	24	Seal = 50% Reservoir = 60%	2 over 3 Reservoirs absent	Trap	Seal (lateral)	almost (Reservoir was 2nd key risk)			TS							**1**	
CNS	**23/11-4**	Dana	Dana	"D" Fiacre	GP & JU (Ula Fm)	E	P1051	20	05/08/2005	12/09/2005	108	JU (Ula Fm)	Strati (interpod)	No	35	Reservoir = 58% Seal = 70%	Migration pathway	Seal (lateral)	-	No			DH					**1**			
MF	**15/27a-10**	Talisman	Endeavour	Roisin	KL (Scapa) + JU (Galley)	E	P226	4	07/07/2004	10/10/2004	108	KL (Scapa sands) + UJ (Galley sands)	Stratigraphic Trap (wedges)	No	24	Reservoir = 50% Seal = 60%	Both Reservoirs absent	Trap	-	Yes			DH (HC in limited intra-Kimmeridge lenses)		**1**	**B**					
CNS	**30/23b-4**	Endeavour	Endeavour	Balgownie	JU (Fulmar) + Auk Fm (2nd)	E	P1228	22	14/05/2007	07/06/2007	113	UJ Fulmar	4 way dip closure	No	52	Mig /Timing = 75% Seal = 85%	HC Migration ?	Trap	-	Yes			DH				**1**		**1**		
CNS	**31/26b-17**	Endeavour	Endeavour	Turnberry	JU (Fulmar) + Zechstein carbonates (2nd)	E	P1183	22	23/09/2005	18/11/2005	109	UJ Fulmar	4 way dip closure	No	66	unknown	Lack of Migration pathways	Reservoir (17ft, thin)	Trap	n/a			DH						**1**		
CNS	**31/26b-18**	Endeavour	Endeavour	Turriff	JU (Fulmar)	E	P1183	22	20/11/2005	04/01/2006	109	UJ Fulmar	Stratigraphic trap (Pinch-out + downthrown trapping)	Yes (ML and maxi are Amplitude supported)	20	unknown	Lack of Migration pathways	Lateral Seal?	DHI	n/a			DH		**1**						
MF	**12/17b-1**	Lundin	Enquest	Ridgewood	JU (Volgian)	E	P1301	23	21/12/2007	07/01/2008	113	Volgian Turbidites	4 way dip closure + upside downthrown closure	No	18	Reservoir	Reservoir (thin and tight)	Migration pathway	Seal (cross fault failure)	Yes			DH				**1**				

CNS	**21/17a-6**	Centrica	Enquest	Whitethroat	Fulmar (Upper Ryton)	E	P1415	24	20/02/2011	15/03/2011	130	Fulmar	Stratigraphic - pinch-out	No	29	Reservoir	Reservoir absent	No sourcing pathway (Triassic wet)?	-	Yes			DH								1	
CNS	**30/28-2**	Walter	Enquest	Beta	JU upper-Duncan sdsts	E	P1125	21	07/09/2004	22/09/2004	105	UJ Duncan sdsts	Combined downthrown Terrace + updip pinch-out	No	16	Reservoir	Reservoir thin and tight	Lack of charge (lack of carrier beds)	-	Yes			DH			1						1st promote well
MF	**15/30a-14**	EOG	EOG	Dunkeld	Beauly + Forties (2nd)	E	P103	3	27/12/2009	22/01/2010	130	Beauly (Eocene) + Forties (2nd)	Stratigraphic	Yes	30	Sand quality	AVO	Updip Seal?	Charge?	No	Farm-in well: limited time before spud	Inadequate data processing sequence	DH		1							
CNS	**21/12b-6**	EOG	EOG	"B"	Cromarty Forties	E	P1616	25	19/09/2013	04/10/2013	130	Cromarty Forties	Structural (4 way dip, low relief)	No (AVO modelling predicted wet sands)	45 (reconstructed)	No AVO	Migration?	Seal (lateral)?	-	Yes (dry as per AVO modelling	Although this was a Commitment Well	Farm-out unsuccessful (AVO should have shown HC as in Scolty, Crathes)	DH							1	
CNS	**37/25-1**	Shell (well op) / EXM	EXXONMOBIL	Corbenic	Devonian Kyle limestones	E	P1259	23	08/02/2009	13/03/2009	113	Devonian Carbonates (Kyle)	Structural / Strati (Reef)	No	10	Source-Rock Migration-Timing Reservoir	Reservoir absent	Source-Rock	Migration-Timing	Yes			DH								1	
CNS	**29/06a-8**	First Oil	First Oil	Centurion South	JU Fulmar	A (nearby Exploration?)	P1627	25	30/03/2013	03/05/2013	nr	JU Fulmar	Strati (interpod)	No	30	Reservoir = 60% Trap - 70%	Seal (Lateral)	Reservoir thinner than prognosed	Trap geometry	No, Seal was = 90%			Oil shows								1	
CNS	**22/23c-8 + Mech x3**	GdFSUEZ	GdFSUEZ	Taggart + Rebus	JU (Fulmar) + Rotliegendes (Auk)	E	P1805	26	31/03/2013 02/06/2013 05/07/2013 11/08/2013	02/06/2013 05/07/2013 11/08/2013 11/09/2013	nr	JU (Fulmar)	Strati (interpod)	No	25	Migration/ Timing = 50%; Trap geometry = 70%	Seal (lateral)	Charge (HC available to trap)?	Reservoir Quality	No, seal was 90%			DH								1	
MF	**11/29-1**	Ithaca	Ithaca	Manuel	JU (Oxfordian Brora sdst)	E	P1392	23	17/02/2008	19/03/2008	118	UJ (Oxfordian Brora sdst)	Combined 4 way-dip + updip[pinch-out	No	15	Migration = Reservoir =50%	Seal failure (lateral) (ChM)	Trap geometry	Migration pathway (DB)	No			DH		1							
MF	**12/26c-5**	Ithaca	Ithaca	Polly	MJU (Callovian-Beatrice "A")	E	P1392	23	13/01/2008	12/02/2008	118	MJ (Callovian-Beatrice "A")	Structural (3 way dip)	No	32	Trap geometry = 55% Migration = 70%	Trap geometry	-	-	Yes		Charge limitation or Fault seal efficiency?	TS	Best = 1.9 Mboe (N.Loizou)	1							
MF	**13/26a-5**	Maersk	Maersk	Stephenson	KL (Punt)	E	P1891	26	11/04/2013	10/05/2013	nr	KL (Punt)	Combined small 4 way-dip + Strati channel	Yes but no AVO study	26	Seal = 40% Trap = 80%	Reservoir absent	Seal (lateral)	Trap absent	No		Analogue to Hobby discovery >> cognitive bias?	DH								1	
MF	**15/19c-11**	Maersk	Maersk	Dunvegan	GE (Balmoral sdst)	E	P1612	25	20/08/2010	06/06/2010	128	GP (Balmoral sdst)	Stratigraphic trap (channel)	Yes AVO driven	72	Seal = 80% Reservoir = 90%	Trap	DHI	-	No	possibly not!	Maersk 100%, no external challenge. Cognitive bias (same trend as Mac Culloch)	DH								1	1 of 2
MF	**15/20b-18**	Maersk	Maersk	Dunglass	JU (Piper)	E	P1041	20	15/06/2010 05/07/2010	05/07/2010 21/07/2010	128	JU (Piper)	Structural (tilted fault block)	No	72	Reservoir = 80% Trap = 90%	Trap	Seal (Lateral + Bottom)	-	No			DH		1							
CNS	**22/01a-11**	Kerr McGee	Maersk	Brodie	GE (Alba sands)	E	P096 > P1049	20	26/02/2003	10/03/2003	104	GE (Alba sands)	Stratigraphic trap (injectites)	Yes but no AVO study	35	Seal (lateral, updip)	Trap	updip Seal ?	Amplitude did not show HC content	No			DH								1	
CNS	**29/15-3**	Kerr McGee	Maersk	Fyvie	JU (Fulmar)	E	P095	3	09/08/2005	22/08/2005	112	JU (Fulmar)	Combined 4 way-dip + updip[pinch-out	No	43	Trap = 70% Seal = 75%	Target reservoir absent	No Trap	No charge	No, Reservoir was = 90%			DH		1							farm-in to Shell
CNS	**30/16-14**	Kerr McGee	Maersk	Western Terrace	JU (Fulmar)	E (nearby explo)	P116	3	15/07/2005	25/07/2005	112	JU (Fulmar)	Structural (4 way dip)	No	64	Trap geometry = 75%	Trap	Seal (lateral)?	-	Yes		Map cut short to the SW	DH		1	BR						
MF	**12/14-2**	Nexen	Nexen	Zanzibar	JU (Burns)	E	P1255	23	12/02/2006	08/03/2006	110	UJ (Burns)	Combined 4 way-dip + updip[pinch-out	No	10	Trap geometry = 40%	Target reservoir absent	Lack of charge	-	No		poor 3D data	DH								1	
MF	**13/30b-7**	Oilexco	Nexen	Oddjob (defined by BG lic op)	KL +JU (Captain to Ettrick)	E	P811	14	19/07/2007	08/08/2007	120	KL +UJ (Captain to Ettrick)	Structural (4 way dip)	No	49	Trap = Seal = 80%	Trap geometry	Lack of charge	-	Yes		Time-depth conversion issue	DH		1	BR						
MF	**14/26a-9**	Nexen	Nexen	Hobby North	Punt sdst	A	P300	6	17/06/2011	21/07/2011	nr	KL (Punt sdsts)	Stratigraphic (3 way-dip)	No	50	Seal = 50% (lateral)	Trap geometry	Seal (bottom too thin, lateral?)	-	No			DH		1	BR						
MF	**14/27a-2**	BG	Nexen	Octopus	KL (Captain - Kopervik)	E	P252	S3	28/08/2006	23/09/2006	116	KL (Punt, Coracle, Captain)	Stratigraphic (Channels with updip closure)	No	27	Seal = 50% Reservoir = 67%	Target reservoirs absent	-	-	No			DH		1	B						
MF	**15/13b-11**	Nexen	Nexen	Stingray	JU (Fulmar-Piper)	E	P1212	22	09/04/2012	02/05/2012	127	UJ (Fulmar-Piper)	Combined Stratigraphic pinch-out + downthrown 2 way dip	Yes (partly: amplitudes define the pinch-out)	50	Seal = 70% Reservoir = 80%	Lateral Seal	Lack of charge (carrier beds not continuous enough?)	-	Yes			DH		1		1					
MF	**15/13b-8**	Nexen (Granby)	Nexen	Guinea	GP (Balmoral)	E	P1212	22	24/02/2007	12/03/2007	115	GP (Balmoral)	4 way dip closure	Yes (partly: amplitudes show the fairway extension)	34	Migration / timing = 60%	Trap geometry	-	-	No		Time-depth conversion issue (most likely)	DH		1		1					
MF	**15/18b-10**	EnCana	Nexen	Fox	JU (Piper)	E	P1040	20	22/01/2003	03/03/2003	101	UJ (Piper)	4 way dip closure	No	72	Trap = 80% Seal = 90%	Trap geometry	Lack of charge?	-	Yes		Picking issue	DH								1	
MF	**15/22-18Z**	Nexen	Nexen	Stareek	GP (Balmoral, Forties)	E	P185	4	12/08/2005	17/08/2005	113	GP (Balmoral, Forties)	4 way dip closure	No	22	Seal = 40%	Trap geometry	Lack of migration pathways	-	No		interpreted as a simple 4way dip closure <> Injectites?	DH		1							
MF	**15/28c-9**	Nexen	Nexen	Deacon	JU Volgian	E	P1256	23	09/12/2009	26/01/2010	126	UJ Volgian	Stratigraphic pinch-out	Yes, trap and volumes purely defined on amplitude variations	27	Reservoir = 60% Seal = 70%	Reservoir tight	Trap	DHI	Yes			DH						1			
MF	**19/03-1**	EnCana	Nexen	Pineapple	JU (Burns + Alness)	E	P1097	21	13/01/2004	06/02/2004	105	UJ (Burns) + MJ (Alness)	Combined 3 way dip nose, downthrown versus Basement through Banff fault	Yes amplitude supported	23	Seal = 60% Migration / Timing = 70%	Lack of charge (FIT)	Lack of fault sealing ??	-	No			DH								1	
MF	**19/04-2**	Nexen	Nexen	Full Moon	JU (Ettrick)	E	P1097	21	09/05/2008	29/05/2008	113	UJ (Ettrick MB)	Stratigraphic (sand erosion updip)	No ?	12	Migration / Timing = 40%	Target reservoir absent	Lack of charge	-	No			DH								1	
MF	**19/05b-2**	Nexen	Nexen	Griffon	KL (Punt)	E	P1893	26	29/09/2012	20/10/2012	nr	KL (Punt)	Stratigraphic	Yes (sand presence indicator)	30	Seal	Target reservoir absent	Lack of charge	DHI	No		analogue to Golden Eagle	DH					1				
MF	**19/08-1**	EnCana	Nexen	Peacock	JU (Burns + Buzzard)	E	P1098	21	01/03/2004	14/03/2004	105	UJ (Burns + Buzzard)	Stratigraphic (downthrown pinch-out)	No	4	Migration = 20% Trap = Seal = 50%	Lack of seal	Trap	Migration	Partly			DH								1	
MF	**19/15-1**	EnCana	Nexen	Firefly	JU (Buzzard)	E	P1099	21	10/02/2004	24/02/2004	105	(Buzzard + Ettric	Stratigraphic (downthrown pinch-out)	No	11	Reservoir = Trap = 50%	Trap	Updip Seal	Lack of charge	Yes			DH								1	
MF	**20/01-5**	EnCana	Nexen	Buzzard North Terrace East	JU (Buzzard)	A (should be Near-by Explo)	P928	16	10/09/2003	08/10/2003	104	UJ (Buzzard + Burns)	Structural terrace (fault sealingl required)	No	20	Seal	-	-	-	-			Commercial Success	Will be part of Buzzard phase II Development	1							

MF	**20/01-5Z**	EnCana	Nexen	Lily	JU (Buzzard)	E	P928	16	07/10/2003	24/10/2003	104	UJ (Buzzard)	Structural terrace (fault sealingl required)	No	11	Reservoir = 40% Seal = 50%	Seal (lateral)	Reservoir	-	Yes			DH								
MF	**20/04a-8**	Nexen	Nexen	Polecat	JU (Buzzard)	E	P1100	21	31/05/2005	04/07/2005	108	UJ (Buzzard)	Statigraphic (pinch-out + fault)	No	24	Seal = 50%	Latera seal	Reservoir much thinner than prognosed	-	Yes		Limited resources (# P90) calculated post -8Z from RCI measurements.	TS							**1**	
MF	**20/04a-8Z**	Nexen	Nexen	Polecat ST	JU (Buzzard)	E	P1100	21	04/07/2005	05/08/2005	108	UJ (Buzzard)	Statigraphic (pinch-out + fault)	No	24	Seal = 50%	Latera seal	Reservoir much thinner than prognosed	Trap (smaller)	Yes		Trap is smaller than expected	DH								
MF	**20/06a-7**	Nexen	Nexen	Bluebell	JU (Buzzard)	A (nearby explo according to ChM)	P986	18	20/11/2010	07/12/2010	nr	UJ (Buzzard)	Combined pinch-out + fault seal)	No	48	Reservoir = 60%	Reservoir absent	-	-	Yes			DH		**1**	**BR**					
MF	**20/07-7**	Nexen	Nexen	Bardolph	JU (Ettrick)	E	P1659	25	10/10/2012	07/11/2012	nr	UJ (Ettrick + Buzzard)	Stratigraphic (pinch-out)	Yes, amplitudes delinate the channel.	36	Seal (lateral)	Seal (Lateral + Top)	Charge?	-	Yes			DH					**1**			
MF	**20/07a-4**	EnCana	Nexen	Squirrel	JU (Ettrick - Buzzard)	E	P272	5	09/03/2003	03/04/2003	104	UJ (Ettrick + Buzzard)	Stratigraphic (pinch-out)	Yes pinch-out based on amplitude extraction	38	Seal = 60% Reservoir = 70%	Seal (lateral?)	Migration?	-	Yes			DH		**1**						
MF	**20/07a-6**	Nexen	Nexen	Black Cat	JU (Ettrick + Buzzard)	E	P272	20	09/01/2006	04/02/1006	114	UJ (Ettrick + Buzzard)	Stratigraphic (pinch-out)	No	40	Seal = 70% Reservoir = Trap = 80%	Seal (lateral)	-	-	Yes			DH		**1**						
MF	**20/07b-5**	EDC (well + licence op) / Nexen licence operator once the well was drilled.	Nexen	Joppa	JU (Peterhead sdsts)	E	P1047	20	20/04/2003	26/05/2003	101	UJ (Peterhead + Ettrick)	Stratigraphic (Basin Floor Fan)	No	unknown	Reservoir, Source rock generation	Reservoir absent	Source rock immature	-	Yes (likely)		interpreted as analogue to Buzzard	DH							**1**	
CNS	**20/11-1**	EnCana	Nexen	Flint	JU (Burns sdst)	E	P1101	21	15/04/2004	01/05/2004	104	UJ (Burns sdst)	Stratigraphic (hummocky facies at BCU)	No	16	Reservoir	Reservoir absent	Source rock immature	Lack of additional migration	Yes			DH							**1**	
CNS	**21/02-10**	Nexen	Nexen	Saracen	JU (Early Volgian)	E	P244	4	05/04/2005	18/05/2005	111	UJ (Early Volgian)	Stratigraphic (downthrown + pinch-out)	No	41	Reservoir	Seal (lateral)?	Target reservoir in a migration shadow?	-	No			DH		**1**	**B**					
CNS	**39/01b-3**	Nexen	Nexen	Edgware	JU (Fulmar = Fife)	E	P1829	26	09/11/2011	18/12/2011	nr	UJ (Fulmar = Fife)	Stratigraphic (3 way-dip + pinch-out)	Yes (brightening on far offsets)	35	Reservoir = Seal = 70%	Target reservoir absent	DHI	Target in a migration shadow?	Yes (1 over 2)		Carrier bed aspect overlooked?	DH							**1**	
CNS	**21/30-25**	Perenco	Perenco	Spitfire	GE (Tay)	E	P013	1	19/06/2008	02/07/2008	124	GE (Tay)	Combined small 4 way-dip + Strati pinch-out	Yes	27	Trap = 45% Reservoir = 65%	Seal (bottom and/or lateral)	Reservoir much thinner than prognosed	-	No		Pre-drill HC Volumes overestimated	TS		**1**	**BR**					
MF	**14/21a-1**	Oilexco	Premier Oil	Halibut	JU (Kimm sdst) + KL	E	P984	18	16/05/2006	01/06/2006	115	JU (Kimm sdst) + KL (Scapa)	Downthrown 3 way dip closure	No	"moderate"	Migration - Timing	Source rock immature	Lateral seal	Migration	No			DH		**1**	**BR**					
MF	**14/28a-5 + 5Z (Mech ST)**	Oilexco / Challenger lic op	Premier Oil	Laurel Valley	KL (Kopervik)	E	P1089	21	24/03/2007	08/04/2007	113	KL (Kopervik)	Stratigraphic trap (canyon)	No	6	seal = source = migration = 50%	Reservoir absent	Source rock immature	-	No			DH		**1**		**1**				
MF	**14/28a-5 + 5Z (Mech ST)**	Oilexco / Challenger lic op	Premier Oil	Laurel Valley	JU (Birch)	E	P1089	21	24/03/2007	08/04/2007	113	JU (Birch)	Stratigraphic trap (canyon)	No	unknown	unknown	Source rock immature	Lateral seal	Trap?	n/a			DH								
MF	**14/28a-5 + 5Z (Mech ST)**	Oilexco / Challenger lic op	Premier Oil	Laurel Valley	JU (Piper)	E	P1089	21	24/03/2007	08/04/2007	113	JU (Piper)	Stratigraphic trap (canyon)	No	18	Seal = 60% Reservoir = Mig = 70%	Source rock immature	Trap	Lateral seal	No			DH								
MF	**15/24c-10**	Premier	Premier	Bluebell	GP (Forties) Paleocene	E	P1466	24	25/02/2012	12/03/2012	127	GP Forties Paleocene	Stratigraphic trap	Yes (AVO)	34	Trap = 60%	Lateral Seal	DHI (indicating lithology, not HC content)	-	No			DH						**1**		
MF	**15/25b-7**	Oilexco	Premier Oil	Sheryl	GP (Balmoral + Forties)	E	P1042	20	01/02/2004	13/02/2004	105	GP (Balmoral + Forties)	Structural trap (4 way dip)	Yes " Impedance indicator"	unknown	unknown	Trap (Depth closure ?)	DHI?	-	n/a			DH							**1**	
MF	**15/25b-7Z**	Oilexco	Premier Oil	Sheryl (2nd target)	GP (Balmoral + Forties)	E	P1042	20	01/02/2004	13/02/2004	105	GP (Balmoral + Forties)	Stratigraphic trap (channel)	Yes " Impedance indicator"	unknown	unknown	Lateral Seal	DHI	-	n/a			TS ?								
MF	15/25c-14	Oilexco	Premier Oil	Joy	GP (Balmoral)	E	P1043	20	20/03/2006	08/04/2006	110						No AVO anomaly (according to Nick Loizou)						DH					**1**			
MF	**18/05-2**	Apache	Premier Oil	Golden Arrow	JU	E	P1352	23	15/02/2007	03/03/2007	114	UJ (Burns sdsts) + KL (Punt)	Stratigraphic trap (mound feature)	No	17	Seal = 35%	Seal (Lateral + Top)	Trap	-	Yes		"Buzzard look-alike in the Banff Basin." Drilled on 2D, no 3D data available!	DH							**1**	
CNS	**20/10b-5**	Premier	Premier	Criollo	JU	E	P1048	20	18/03/2004	13/04/2004	105	UJ (Peterhead + Fulmar sdsts)	Stratigraphic trap (Pinch-out)	Yes (amplitudes > sand presence)	18	Seal = 48% Reservoir = 50%	Target reservoir absent (Peterhead)	DHI	Lack of Migration?	Yes (1 over 2)		Buzzard analogue in the Elk Trough.	DH					**1**			
CNS	**21/04b-6**	Kerr McGee	Premier Oil	Muness	KL (Kopervik)	E	P1104	21	30/11/2005	22/12/2005	109	KL (Kopervik)	Stratigraphic trap (Pinch-out)	No	27	Seal (lateral) = 45%	Lateral Seal	Migration?	-	Yes			DH							**1**	
CNS	**21/06a-7**	Oilexco	Premier Oil	Palomino	JU (Fulmar) + Skagerak + Kopervik	E	P1048	20	23/12/2005	18/01/2006	110	UJ (Fulmar)	4 way dip closure + Stratigraphic upslde	No	25	Reservoir = 45%	Absence of target reservoir	Lack of charge ? (intra Heather thin sands)	-	Yes			DH		**1**						
MF	**21/07b-4**	Premier	Premier	Cyclone	Cromarty	E	P1784	26	20/11/2012	11/12/2012	129	GP (Cromarty sdsts)	Stratigraphic trap	Yes (AVO Class III)	20 + 20% (DHI)	Trap (seal included) = 30%	Seal (lateral +bottom?)	DHI	-	Yes			DH							**1**	Replaced the Typhoon Oblig well
CNS	**21/23a-10 + 10Z**	Oilexco	Premier Oil	Constance + 2nd target	GE (Tay sands)	E	P1220	22	10/08/2007 25/08/2007	25/08/2007 29/08/2007	116	GE (Tay sands)	Stratigraphic trap (pinch-out)	Yes	12 (Ikon or 25 according to Sterling)	Seal = 35%	Top reservoir mispicking	DHI	Lack of Migration?	No	A good QC would have spotted this error on polarity.		DH				**1**				
CNS	**22/13b-7**	Oilexco	Premier Oil	Coronado	GP (Forties)	E	P1420	24	29/11/2007	12/12/2007	117	GP (Forties)	Structural 4 way dip closure	Yes (far offset amplitude increase)	29	Migration / Timing = 55%	Trap? (Time closure = 15 ms TWT.Depth closure ?)	DHI	-	No	A better processing of the 3D would likely have shown the AVO weakness.	Partner Carrizo made the right analysis >>full carry.	DH							**1**	
CNS	**22/13b-7Z**	Oilexco	Premier Oil	Morro	GP (Forties / Andrew)	E	P1420	24	12/12/2007	20/12/2007	117	GP (Forties)	Structural 4 way dip closure	Yes (far offset amplitude increase)	29	Migration / Timing = 55%	Trap? (Time closure = 10 ms TWT.Depth closure ?)	DHI	-	No	A better processing of the 3D would likely have shown the AVO weakness.	Partner Carrizo made the right analysis >>full carry.	DH								
CNS	**22/19c-6**	Premier	Premier	Oates	GP (Forties)	E	P1620	25	30/07/2010	22/08/2010	128	GP (Forties)	Stratigraphic trap	Yes (far stack brightening)	40	Trap (including Seal)	Seal (Lateral + Bottom)	DHI	Lack of charge?	Yes	Mistake in the AVO interpretation		DH							**1**	

CNS	**28/10a-3**	Premier	Premier	Coaster	Lower Tay	E	P1812	26	09/06/2012	23/06/2012	nr	GE (Lower Tay)	Stratigraphic trap	No (AVO not supportive of HC bearing sands)	8	Trap presence = Charge	Target reservoir absent	Lack of charge?	-	Partly: absence of any Tay reservoir was not expected.	Commitment well "inherited" when Premier Oil purchased Encore.They did not want to drill it.		DH					**1**			
CNS	**29/06b-7 +7Z**	Oilexco	Premier Oil	Danica	GP (Injectites)	E + E	P1431	24	30/05/2008 08/06/2008	08/06/2008 13/06/2008	119	GP (remobilized Forties = Injectites)	Stratigraphic trap (injectites)	Yes (amplitude + impedance volume)	18	Trap geometry	Reservoir thinner and tight	Lack of charge?	DHI	No			DH							**1**	
CNS	**39/02c-5**	Premier	Premier	Peveril	JU (Fife sdst)	E	P802	?OOR	26/03/2007	20/04/2007	130	UJ (Fife sdst = Fulmar equivalent)	Stratigraphic trap (pinch-out)	No	24	Migration = 50% Trap = Seal = 60%	Target reservoir absent	In situ Source rock marginally mature. Lack of carrier beds?	-	No			DH		**1**	**BR**					
CNS	**22/12a-11**	Shell	Shell	Stavro	JU (Fulmar + Mid JU Hugin)	E	P077	2	28/10/2009	23/12/2009	129	JU (Fulmar)	Stratigraphic (Interpod)	No	58	Reservoir = 72% Seal = 80%	Migration pathway	Source-rock ?	-	No		Assessed by Dvpt team... Cognitive bias after Howe and Bardolino?	DH		**1**						
CNS	**29/10-7**	Shell	Shell	Quasimodo	PL (Rotliegend)	E	P011	1	01/09/2006	21/12/2006	117	PL (Rotliegend)	Structural tilted fault block	No	15	Seal = 50 % Reservoir = 51% Migration / Timing = 60%	Migration pathway ?	Source Rock (not enough volume)	Seal (lateral)?	No			DH		**1**	**BR**					
CNS	**21/23a-8**	Oilexco	Sterling Resources	Disraeli	GP	E	P1220	22	14/04/2006	02/05/2006	111	GE (Tay Fm.)	Combined 4 way-dip + stratigraphic upside	Yes, "some evidence of DHI"	10	Seal (top + lateral) = 35%	Trap	Seal?	DHI	No			DH				**1**				
CNS	**21/23a-8**	Oilexco	Sterling Resources	Disraeli	JU (Fulmar)	E	P1220	22	14/04/2006	02/05/2006	111	UJ (Fulmar Fm.)	Structural (3 way dip closure)	No	11	Seal = 48% Reservoir = 56%	Seal (lateral)	Lack of charge?	-	Yes			DH								
MF	**13/29b-9**	Talisman	Talisman	Skate	KL (Captain sdst)	E	P729	12	25/05/2004	04/07/2004	107	KL (Captain sdst)	Stratigraphic (Mound)	No	32	Trap = Seal = 50%	Trap	-	-	Yes			DH		**1**	**B**					
MF	**14/18a-14**	Talisman	Talisman	Dunnottar	KL (Scapa)	E	P263	5	12/11/2003	23/12/2003	105	KL (Scapa)	Stratigraphic	No	27	Trap = 50% Reservoir = 60% Seal = 70%	Seal (lateral)	Trap	-	Yes (trap, containement confusion)			DH		**1**	**A**					
MF	**14/20b-32**	Talisman	Talisman	Cardhu	JU (Piper)	E	P324	4	01/09/2004	10/10/2004	108	JU (Piper)	Structural (downthrown terrace)	No	50	Seal (faults) = 65%	Seal (lateral)	Trap	Charge?	Yes			DH		**1**	**B**					
MF	**14/25a-6A**	Talisman	Talisman	MacDonald Respud	JU (Piper)	E	P257	S3	08/09/2008	03/11/2008	130	JU (Piper)	Downthrown 3way dip against Basement	No	29	Seal = 59% Reservoir 70%	Seal (lateral and top)	Reservoir (cemented)	Charge ??	Yes			DH		**1**						
MF	**15/17-27**	Talisman	Talisman	North Saltire	JU (Galley turbidites / Piper shoreface)	E	P250	4	25/02/2005	28/03/2005	110	JU (Galley turbidites / Piper shoreface)	Structural (fault bounded Terrace)	No	30	Seal = 43%	Seal (lateral + top?)	Charge ??	-	Yes			DH		**1**						
MF	**20/05c-11**	Talisman	Talisman	Sligachan	JU (intra Kimm sands J72)	E	P593	10	20/12/2006	01/03/2007	118	JU (intra Kimm sands J72)	Stratigraphic trap (pinch-out)	Yes but no AVO	27	Reservoir = 53% Seal = 60%	Reservoir absent	-	Amplitude neither correspond to lithology nor to HC content	Yes			DH		**1**						
CNS	**30/13c-8**	Talisman	Talisman	Jenny	KU (Tor Fm)	E	P079	2	24/12/2004	27/02/2005	110	KU (Tor Fm)	Structural (steep sided against salt dome)	No	37	Seal = Migration = 72%	Reservoir tight	Migration shadow?	-	No			DH		**1**	**B**					
CNS	**30/17b-16**	Talisman	Talisman	Eta 2	Rotliegend	E	P266	5	14/11/2003	12/02/2004	106	PL (Rotliegend)	Structural Tilted fault block	No	25	Migration = 35%	Charge	Seal (lateral)?	-	Yes			DH		**1**						
CNS	**30/01c-9**	Total	BP	Kessog	Mid JU - Pentland	A	P363	7	23/12/2006	05/05/2007		MJ (Pentland)	Structural	No	60 ?	Reservoir deliverability & connectivity	Reservoir connectivity	-	-	Yes			TS	non economic HP-HT discovery	**1**	**BR**					
MF	**20/02b-10**	Wintershall	Wintershall	Volante	KL (Punt)	E	P1303	23	26/06/2010	19/07/2010	118	KL (Punt)	Stratigraphic (pinch-out)	Yes but no AVO study	23	Trap = 32% (Presence = 80%; Effectiveness = 40%)	Seal (top, bottom and updip)	Trap	Amplitude does not show HC content	No	No (PSDM processing cut and paste into PGS merge)	Licence extension should have been requested to allow a proper geophy work to be done		DH						**1**	