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Title

## **GEOLOGICAL SUMMARY**

## WELL 15/9-F-15 C PL 046 VOLVE FIELD

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Author(s)/Source(s): R. Gower, T. Flate	ebo				
Subjects: Geological Summa	ary comprising Completi	on Log, Structural Ma	aps and Stratigraphic Tops.		

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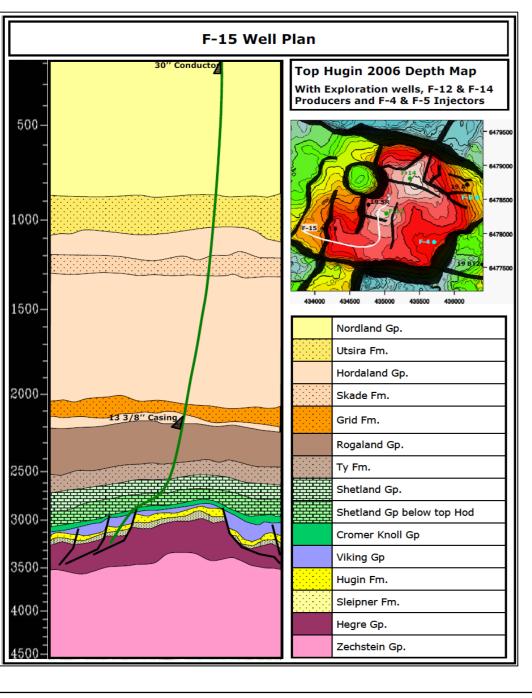


## **GEOLOGICAL SUMMARY**

Volve

Scale: 1 / 500

Well: 15/9-F-15 C



KB Elevation Water Depth Depth Reference	54.9 m 91.0 m RKB	Country Licence	Norway PL 046BS
Total Depth (Driller)	3232m MD RKB 3044.1m TVD RKB	Owners	Statoil, Exxon Mobile, Bayern Gas
Formation at TD	Sleipner Fm.	e:	Value
Date Sidetracked	10.04.2000	Field	Volve
	19.01.2009	Rig	MÆRSK INSPIRER
Date Reached TD	14.02.2009		
Date Completed	07.03.2009	Duilling Contractor	Meanale
Well Classification	Production	Drilling Contractor Mudlogging Company Logging Company	Mærsk Geoservices Schlumberger
Well Classification	Production	MWD Company	Schlumberger
		Geologists	Malcolm Hamer
Prepared by	R. Gower		
Controlled by	T. Flatebø		
Date	11.08.2010		
Revision	0		
Well Coordinates	Geographic :	58° 26' 29.657"	1° 53' 14.990"
	UTM:	6478560.36m N	435053.55m E

Casing Records					
Diameter	Shoe depth m MD RKB	Shoe depth m TVD RKB			
30" Casing shoe	220.6	220.6			
20" Casing shoe	1368.4	1340.3			
9 5/8" Casing shoe	2534	2393.5			

LOT / FIT									
Туре	Result Depth m MD RKB		Depth m TVD RKB						
FIT	1.500	1381	1351.7						
FIT	1.560	2562	2417.2						
FIT	1.500	2923	2752.0						

Lithology Legend

	Comments
7	Well F-15C is the third and last oil producer in the Volve Field.
4	The main objectives of the well were to establish oil production well draining in the south/south-western area of the Volve Field and this well was going to assist in maintaining the plateau production of Volve.
1	The reservoir thickness was 34 m TVD.
	The south western part of the Filed is represented by a high degree of erosion and non deposition but in full communication with the rest of the Main Field.
	The well was shut down after a short period of production due to a high water-cut.
l	
1	

3152

3156

3160

2969.66

2977.06

Run no. Log type						
	2575 - 2665m					
	2665 - 2920m					
onic, Stethescope	2920 - 3232m					
	onic, Stethescope					

Screen Intervals						
Interval no.	Screen top m MD RKB	Screen bottom m MD RKB				
No screen intervals						

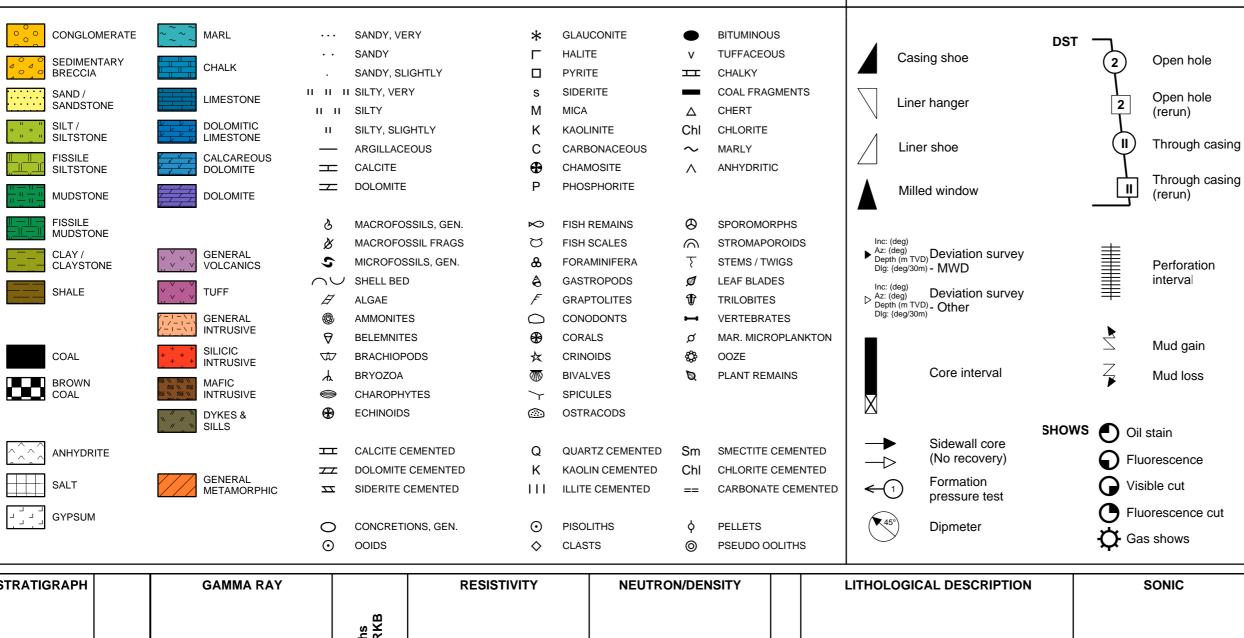
	Pressure points (Stethoscope)									
Test no.	Depth m MD RKB	Depth m TVD RKB	Pressure bar	Test no.	Depth m MD RKB	Depth m TVD RKB	Pressure bar			
1	3127	2946.50	312.04							
2	3129	2948.36	312.17							
3	3134	2952.99	312.62							
4	3141	2959.48	313.18							
5	3149	2966.88	313.80							

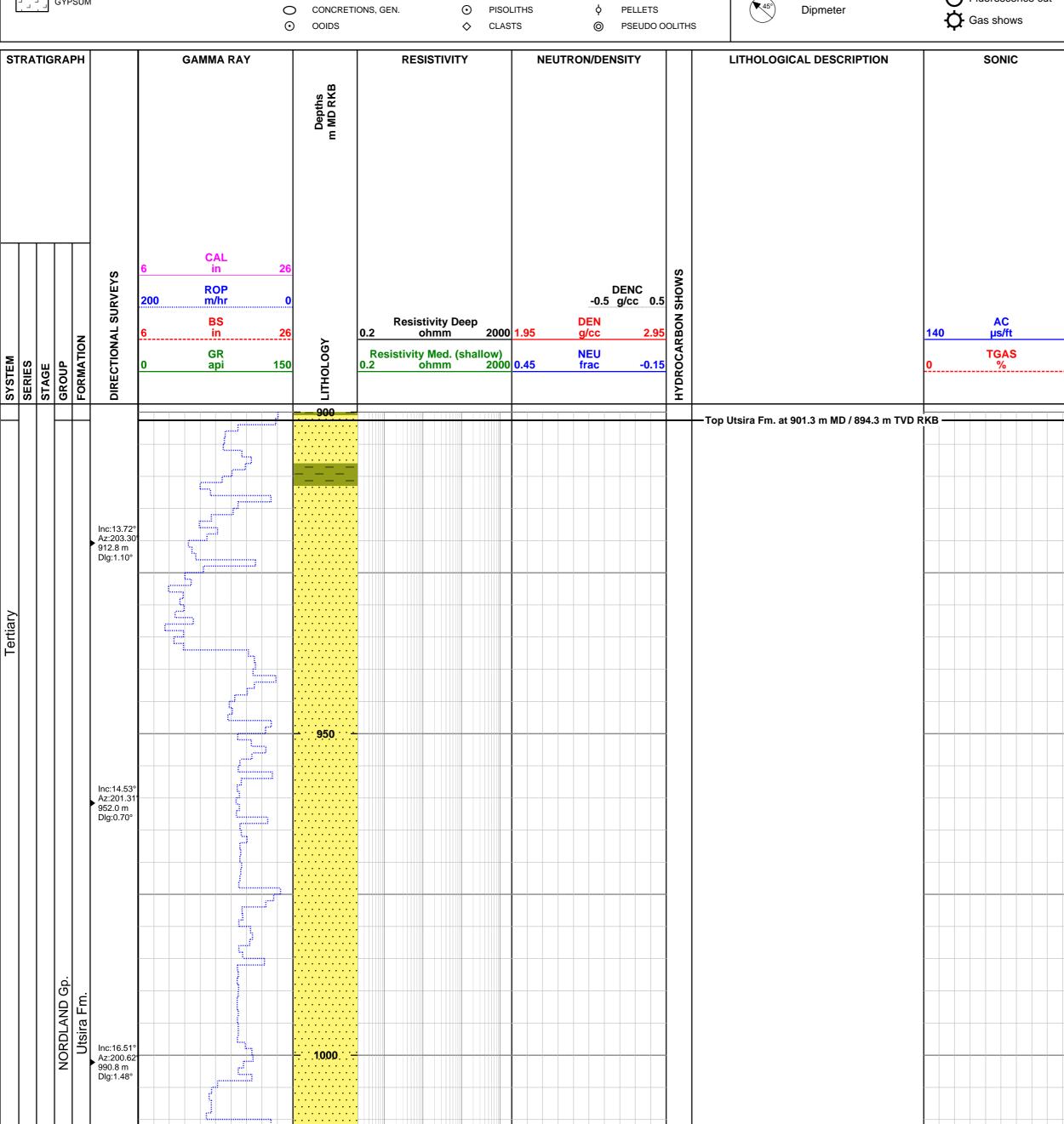
314.06

314.60

315.53

Symbol legend





Tertiary				Wardy Word Jan Mark Jan					
Ter	ND Gp.	Inc:20.56° Az:192.78° 1501.3 m Dlg:3.43°	\\						
	HORDALAND Gp.	Dig:3.43°	MAN WANTED AND THE STATE OF THE		- 1550				
		Inc:21.08° Az:181.10° 1538.8 m Dlg:3.13°	My May May May May May May May May May M						
Tertiary	HORDALAND Gp.	Inc:21.07° Az:170.97° 1577.0 m Dlg:2.66°	Mrs probably from from the form for the first form						
	¥	Inc:20.92° Az:159.85° 1614.4 m Dlg:2.99°	MANOW LAND OF THE WASHINGTON TO SEE STATE OF THE SECOND SE	<b>/</b>					
		Inc:22.16° Az:151.36' 1651.6 m Dlg:2.51°	My May My	*	<b>- 1700</b>				
Tertiary	HORDALAND Gp.	Inc:24.79° Az:147.70' 1689.2 m Dlg:2.20°	May					Clst Brnsh blk, frm-mod hd, blky, non calc	
		Inc:27.24° Az:144.45 1725.2 m Dlg:2.13°	Many John John John John John John John John	A CONTRACTOR OF THE CONTRACTOR				Dol PI yelsh brn, sbblky, mod hd, micxl, spec  Clst Olv blk, frm-mod hd, blky, sl calc	
Tertiary	) Gp.	Inc:27.70° —— Az:143.46° 1761.5 m Dlg:0.47°	My Many Many Many Many Many Many Many Ma						
	HORDALAND Gp.	Inc:28.14° Az:143.47° 1796.9 m Dlg:0.33°		A THE PARTY AND	- 1850				
		Inc:27.08° Az:143.10° 1832.3 m Dlg:0.81°		- 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- 1900				
Tertiary	HORDALAND Gp.	Inc:27.31° Az:143.53' 1868.8 m Dlg:0.22°		my					
		Inc:27.71° Az:143.72° 1904.3 m Dlg:0.31°	And Mark Mark Market						

	Az:223.67° 2375.5 m Dlg:2.99°	A CONTRACTOR OF THE PARTY OF TH					
HORDALAND Gp.	-	9 5/8" 2534 m MD 2393.5 m TVD			<b>Clst</b> Med dark gry, sbblky-blky, mod hd, non calc		
HORE	Inc:33.26° Az:229.77° 2418.4 m Dlg:2.58°	Mary Mary Mary Mary Mary Mary Mary Mary			FIT 2562 m MD / 2417.2 m TVD RKB : 1.560 g/cc EMW		
	-				Kick off point 15/9-F-15 C at 2575m MI		
	Inc:32.08° Az:231.01° 2452.4 m Dlg:1.01°				— Top Ty Fm. at 2606 m MD / 2454.3 m TVD RKB		
	- -				Sst		
	Inc:27.57° Az:233.84° 2487.4 m Dlg:3.51°		= M - 2650		Clr-trnsl, lt brnsh gry-lt olv gry, vf-f, sbang- sbrndd, wl srt, non calc cmt  Clst  Dk gnsh gry, du yelsh brn-brnsh gry, frm-hd, sbblky, occ elong, slily slty, r mic, calc		
ND Gp. m	Inc:25.99° Az:233.83° 2523.4 m						
ROGALA	Inc:25.99° Az:233.83° 2523.4 m Dlg:1.18°						
	Inc:22.08° Az:234.57° 2560.2 m Dlg:2.92°	Amara Marana Mar					
	- -	My My Millian Manager					
Ekofisk Fm.	Inc:16.67° Az:243.57° 2598.2 m Dlg:4.59°				— Top Ekofisk Fm. at 2767.5 m MD / 2600.5 m TV	D RKB ————	
Eko					— Top Tor Fm. at 2781.2 m MD / 2613.7 m TVD RI	КВ	
SHETLAND Gp.	Inc:13.75° Az:248.58' 2634.9 m Dlg:2.52°		2800				
	-				Clst Dk gnsh gry, olv blk, dk gry, frm-hd, sbblky, occ elong, slily slty, slily micromic, r micropyr  Ls Pksh gry-pl yelsh brn-lt grnsh gry, frm-mod hd, sbblky, microxln		
Tor Fm.	Inc:11.69° Az:248.05° 2682.6 m Dlg:1.27°		2850				
	- -				<b>Ls</b> Yelsh gry, frm-mod hd, subblky, microxln		
D Gp.	Inc:12.47° - Az:247.23° 2722.1 m Dlg:0.59°		2900	M M	Clst  Dk gnsh gry, olv blk, dk gry, frm-hd, sbblky, occ elong, slily slty, slily micromic, r micropyr		
SHETLAND Gp.	-			mahayan waxayah	FIT 2923 m MD / 2752.0 m TVD RKB : 1.500 g/cc EMW	AB TO THE TOTAL PARTY OF THE TOT	
Hod Fm.	Inc:12.77° Az:250.95° 2768.3 m Dlg:0.55°	A CONTRACTOR OF THE CONTRACTOR	2950	A CONTRACTOR OF THE PROPERTY O	Lt wht gry-lt gry, lt pnk-lt rd brn, sl hd-hd, mass, sl chlky, mdst, micxln, sl slty i.p.		
	Inc:13.62° Az:261.50° 2797.5 m Dlg:2.55°			And the second s	— Top Blodoeks Fm. at 2974.5 m MD / 2802.1 m ⊓	TVD RKB	
	Inc:15.39° - Az:260.20° 2824.0 m Dlg:1.97°			WANTER STATE OF THE STATE OF TH	<b>Ls</b> Dk gry-gry, hd, spkld, miclam, slty-arg, grd Calc Clst		
D Gp. doeks Fm.			3000		Ls Lt gry-gry, dom gry-sl dk ol gry, mass, frm-sl hd, mass, sbblky, miclam, arg-slty		

STRA	SYSTEM	Jurassic	ic			Cretaceous
	STAGE	Callovian	Callovian Late		Albian Late	
RAP	GROUP	VESTLAND Gp.		VIKING Gp.	ER KNOLI	SHETL
PHY	FORMATION	Sleipner Fm		r Fm. Dra		
DIRECTIONAL SURVEYS  1102/20/71  120/20/71	L SURVEYS	Inc:21.27° Az:256.14° 3013.3 m Dlg:0.80°  Inc:20.98° Az:255.56° 3025.2 m Dlg:0.84°  Inc:20.98° Az:255.56° 3044.1 m Dlg:-999.25°	Inc:22.35° Az:256.20° 2975.7 m Dlg:0.31°	Inc:21.94° Az:256.07° 2938.4 m Dlg:1.81°	Inc:19.82° Az:259.28° 2901.0 m Dlg:0.82°	Inc:18.98° Az:261.37° 2863.5 m Dlg:2.62°
ROP m/hr CAL in	BS					Mary Mary Mary Mary Mary Mary Mary Mary
26			3150 ÷			3050
RESISTIVITY	Resistivity Deep	The word with the wore with the word with the word with the word with the word with th	1 2 3 3 4 4 4 5 5 6 6 6 7 7 8 8 8	Andrew March		
DENC -0.5 g/cc 0.5	DEN g/cc 2.95			Man		Manual Ma
LITHOLOGICAL DESCRIPTION	NAON NOO	Sst Dom aggs, occ lse, clr-trnslusc grns, lt wht lt gry-lt brn, firm-fri, f-md, sbang-sbrnd, sph sbang, md-wl srt, slty, pr wk calc-sili cmnt  Clst Lt gry-lt grn gry, frm-sl hd, mass, amor-sb t str tr pyr-pyr  Sst Lt gry-lt grn gry, frm-sl hd, mass, amor-sb t with Pyr Clyst, dk brn blk, hard, shny, mass	Sst Lse snd, clr-trnsp, f-md, sbrnd-rnd, sph, mostd, lse, no cmnt  Sst Lse snd, clr-trnsp, f-md-crs, sbrnd-rnd, sph md-wl srtd, lse, aggs, lt gry-lt brn, f-md, occ sbrnd-rnd, md-pr srtd, sph, md-wl cmnt, silicalc, md por, str tr pyr  Top Sleipner Fm. at 3161.7 m MD / 2978.6	Clst Dk ol gry-drk gry blk, frm-sl hd, mass, tr argorganic  Top Heather Fm. at 3115 m MD / 2935.3 m Clst Dk gry-gry, frm-sl hd, sbblky, mass, sl slty, pyr  Top Hugin Fm. at 3125.2 m MD / 2944.9 m	Calc Clst Gry-dk gry, frm-sl hd, mass, miclam, micmi, v.calc grd-pr Mrl, arg.  Top Aasgard Fm. at 3077.9 m MD / 2900.0	Top Hidra Fm. at 3040.7 m MD / 2865.6 m  Top Roedby Fm. at 3058.8 m MD / 2882.7
SONIC	TGAS 0 % 5  AC 140 μs/ft 40	plky,	d-wl c.crs, i.&	g, v. n TVD RKB	ic i.p.	

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