



Generell informasjon





Brønnbane navn	15/9-21 S
Type	EXPLORATION
Formål	APPRAISAL
Status	P&A
Faktakart i nytt vindu	lenke til kart
Hovedområde	NORTH SEA
Felt	SLEIPNER VEST
Funn	15/6-3 Sleipner Vest
Brønn navn	15/9-21
Seismisk lokalisering	Geo. 58.25.1.24 N 2.45.52.23 E
Utvinningstillatelse	046
Boreoperatør	Den norske stats oljeselskap a.s
Boretillatelse	926-L
Boreinnretning	WEST EPSILON
Boredager	62
Borestart	23.03.1998
Boreslutt	23.05.1998
Frigitt dato	23.05.2000
Publiseringsdato	18.01.2007
Opprinnelig formål	APPRAISAL
Gjenåpnet	NO
Innhold	SHOWS
Funnbrønnbane	NO
Avstand, boredekk - midlere havflate [m]	48.0
Vanndybde ved midlere havflate [m]	108.0
Totalt målt dybde (MD) [m RKB]	5126.0
Totalt vertikalt dybde (TVD) [m RKB]	3907.0
Maks inklinasjon [°]	55
Eldste penetrerte alder	MIDDLE JURASSIC
Eldste penetrerte formasjon	SLEIPNER FM
Geodetisk datum	ED50
NS grader	58° 25' 4.55" N
ØV grader	1° 43' 4.57" E
NS UTM [m]	6476103.15
ØV UTM [m]	425102.30
UTM sone	31
NPDID for brønnbanen	3334



Brønnhistorie

General

Well 15/9-21 S was drilled from the Sleipner Vest wellhead facility. The well was designed deviated to appraise the oil potential of the Hugin Formation east of the main Sleipner Vest Field. Another objective was to further appraise the Hugin Formation oil in the Sleipner Vest area, which had been discovered in well 15/9-B-4 T2.

Operations and results

The 24" section of well 15/9-21 S was spudded from the batch-set 32" conductor on 23 March 1998. Using the jack up installation West Epsilon the well was drilled to TD at 5126 m in the Middle Jurassic Sleipner Formation. No significant problems were reported from the operations. The well was drilled with PAC/seawater down to 506 m, with Aquadril KCl/glycol mud from 506 m to 3457 m, and with oil based mud from 3457 m to TD.

The target was penetrated approximately 2670 m east of the platform centre, at a depth of 4736.5 m (3592.0 m SS), 19.6 m deep to prognosis. The first 30 m of the target sandstone drilled was Intra Heather Sandstone. The Hugin Formation was penetrated at 4767 m. Only minor hydrocarbons were found. Oil shows, partly masked by the oil based mud, was observed on the cores from the Hugin Formation. The strongest shows were seen in the interval 4784 to 4798 m where oil slowly seeped from the core.

Four cores were cut from 4747 m in the Intra Heather Formation Sandstone to 4843 m in the Hugin Formation. No wire line fluid samples were taken.

The well was permanently abandoned on 23 May 1998 as a dry well.

Testing

No drill stem test was performed

Borekaks i Sokkeldirektoratet

Borekaksprøve, topp dybde [m]	Borekaksprøve, bunn dybde [m]
3460.00	5126.00

Borekaks tilgjengelig for prøvetaking?	YES
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Borekjerter i Sokkeldirektoratet

Kjerneprøve nummer	Kjerneprøve - topp dybde	Kjerneprøve - bunn dybde	Kjerneprøve dybde - enhet
1	4747.0	4752.3	[m]
2	4753.0	4784.0	[m]
3	4784.0	4815.0	[m]
4	4816.0	4843.0	[m]



Total kjerneprøve lengde [m]	94.3
Kjerner tilgjengelig for prøvetaking?	YES

Kjernebilder



4747-4752m



4752-4752m



4753-4758m



4758-4763m



4763-4768m



4768-4773m



4773-4778m



4778-4783m



4783-4784m



4784-4789m



4789-4794m



4794-4799m



4799-4804m



4804-4809m



4809-4814m



4814-4815m



4816-4821m



4821-4826m



4826-4830m



4831-4836m



4836-4841m



4841-4843m



Palynologiske preparater i Sakkeldirektoratet

Prøve dybde	Dybde enhet	Prøve type	Laboratorie
4400.0	[m]	DC	U.OSH
4406.0	[m]	DC	U.OSH
4424.0	[m]	DC	U.OSH
4430.0	[m]	DC	U.OSH
4433.0	[m]	DC	U.OSH
4439.0	[m]	DC	U.OSH
4451.0	[m]	DC	U.OSH
4457.0	[m]	DC	U.OSH
4463.0	[m]	DC	U.OSH
4469.0	[m]	DC	U.OSH
4475.0	[m]	DC	U.OSH
4481.0	[m]	DC	U.OSH
4487.0	[m]	DC	U.OSH
4496.0	[m]	DC	U.OSH
4502.0	[m]	DC	U.OSH
4508.0	[m]	DC	U.OSH
4514.0	[m]	DC	U.OSH
4520.0	[m]	DC	U.OSH
4526.0	[m]	DC	U.OSH
4532.0	[m]	DC	U.OSH
4538.0	[m]	DC	U.OSH
4544.0	[m]	DC	U.OSH
4550.0	[m]	DC	U.OSH
4556.0	[m]	DC	U.OSH
4562.0	[m]	DC	U.OSH
4568.0	[m]	DC	U.OSH
4574.0	[m]	DC	U.OSH
4580.0	[m]	DC	U.OSH
4586.0	[m]	DC	U.OSH
4592.0	[m]	DC	U.OSH
4598.0	[m]	DC	U.OSH
4604.0	[m]	DC	U.OSH
4610.0	[m]	DC	U.OSH
4619.0	[m]	DC	U.OSH
4625.0	[m]	DC	U.OSH
4631.0	[m]	DC	U.OSH
4637.0	[m]	DC	U.OSH



Faktasider

Brønnbane / Leting

Utskriftstidspunkt: 15.5.2024 - 12:04

4643.0	[m]	DC	U.OSH
4649.0	[m]	DC	U.OFS
4853.0	[m]	DC	U.OSH
4859.0	[m]	DC	U.OSH
4865.0	[m]	DC	U.OSH
4870.0	[m]	DC	U.OSH
4877.0	[m]	DC	U.OSH
4883.0	[m]	DC	U.OSH
4889.0	[m]	DC	U.OSH
4895.0	[m]	DC	U.OSH
4901.0	[m]	DC	U.OSH
4907.0	[m]	DC	U.OSH
4913.0	[m]	DC	U.OSH
4922.0	[m]	DC	U.OSH
4928.0	[m]	DC	U.OSH
4934.0	[m]	DC	U.OSH
4940.0	[m]	DC	U.OSH
4946.0	[m]	DC	U.OSH
4952.0	[m]	DC	U.OSH
4958.0	[m]	DC	U.OSH
4964.0	[m]	DC	U.OSH
4970.0	[m]	DC	U.OSH
4976.0	[m]	DC	U.OSH
4982.0	[m]	DC	U.OSH
4988.0	[m]	DC	U.OSH
4994.0	[m]	DC	U.OSH
5000.0	[m]	DC	U.OSH
5006.0	[m]	DC	U.OSH
5012.0	[m]	DC	U.OSH
5018.0	[m]	DC	U.OSH
5024.0	[m]	DC	U.OSH
5030.0	[m]	DC	U.OSH
5036.0	[m]	DC	U.OSH
5039.0	[m]	DC	U.OSH
5045.0	[m]	DC	U.OSH
5051.0	[m]	DC	U.OSH
5057.0	[m]	DC	U.OSH
5063.0	[m]	DC	U.OSH
5069.0	[m]	DC	U.OSH
5075.0	[m]	DC	U.OSH



5081.0	[m]	DC	U.OSH
5087.0	[m]	DC	U.OSH
5093.0	[m]	DC	U.OSH
5099.0	[m]	DC	U.OSH
5105.0	[m]	DC	U.OSH
5111.0	[m]	DC	U.OSH
5117.0	[m]	DC	U.OSH
5120.0	[m]	DC	U.OSH
5126.0	[m]	DC	U.OSH

Litostratigrafi

Topp Dyb [mMD RKB]	Litostrat. enhet
156	NORDLAND GP
873	UTSIRA FM
1144	HORDALAND GP
2225	SKADE FM
2255	NO FORMAL NAME
2447	GRID FM
2481	NO FORMAL NAME
2620	ROGALAND GP
2620	BALDER FM
2704	SELE FM
2815	LISTA FM
2891	HEIMDAL FM
3223	LISTA FM
3352	TY FM
3428	VÅLE FM
3437	SHETLAND GP
3437	EKOFISK FM
3513	TOR FM
3743	HOD FM
4138	BLODØKS FM
4208	SVARTE FM
4272	CROMER KNOLL GP
4272	RØDBY FM
4320	SOLA FM
4362	ÅSGARD FM
4431	VIKING GP



4431	DRAUPNE FM
4700	HEATHER FM
4737	INTRA HEATHER FM SS
4767	VESTLAND GP
4767	HUGIN FM
5032	SLEIPNER FM

Dokumenter - rapportert av utvinningstillatelsen (frigitt ihht til regelverk)

Dokument navn	Dokument format	Dokument størrelse [KB]
3334 15 9 21 S COMPLETION LOG	pdf	2.98
3334 15 9 21 S COMPLETION REPORT	pdf	18.99

Logger

Type logg	Topp dyp for logg [m]	Bunn dyp for logg [m]
CDR MEMORY	4843	5126
CHT GR FMT TTRM DSL CN ZDL HEXDI	4272	5120
MWD	266	506
MWD CDR	506	4747
TTRM DGR MAC HDIL	4272	5125

Foringsrør og formasjonsstyrketester

Type utforing	Utforing diam. [tommer]	Utforing dybde [m]	Brønnbane diam. [tommer]	Brønnbane dyp [m]	LOT/FIT slam eqv. [g/cm3]	Type formasjonstest
CONDUCTOR	32	266.0	36	267.0	0.00	LOT
SURF.COND.	18 5/8	501.0	24	506.0	1.65	LOT
INTERM.	13 3/8	2248.0	17 1/2	2253.0	1.75	LOT
INTERM.	9 5/8	3452.0	12 1/4	3457.0	1.75	LOT
OPEN HOLE		5126.0	8 1/2	5126.0	0.00	LOT

Trykkplott





Porertrykksdataene kommer fra logging i brønnen hvis ingen annen kilde er oppgitt. I noen brønner der trykk ikke er logget, er det brukt informasjon fra formasjonstester eller brønnspark. Trykkdataene er rapportert inn til Oljedirektoratet og videre prosessert og kvalitetssikret av IHS Markit.

Dokument navn	Dokument format	Dokument størrelse [KB]
3334 Formation pressure (Formasjonstrykk)	pdf	0.22

