



सत्यमेव जयते

Ministry of Petroleum and Natural Gas
Government of India

Information Booklet Discovered Small Fields

Bid Round-II



Directorate General of Hydrocarbons

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Disclaimer

The statistics maps and other data given in Information docket are collated from NOCs. The correctness of information given herein, is therefore, subjective to that extent.

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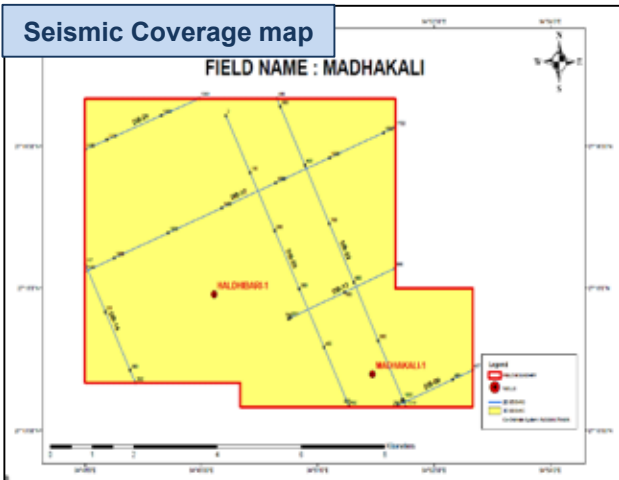


ONSHORE

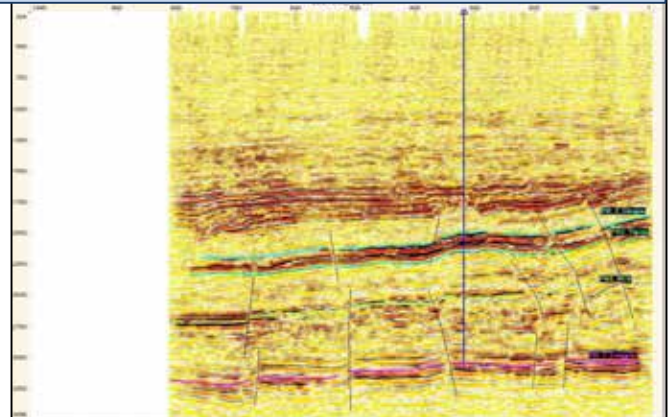
AA/ONDSF/MADHAKALI/2018



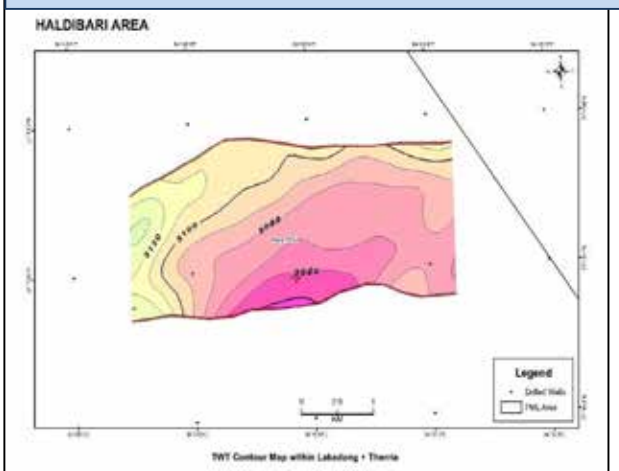
| Field(s) | Haldibari | Madhakali |
|--------------------------|---|-----------|
| Location | Assam | |
| Operator | OIL | |
| Area, SKM | 41.93 | |
| Year of Discovery | 2001 | 2010 |
| Main Payzone & Age | Lakdong+ Therria (Upper Paleocene-Lr. Eocene age) | |
| Oil Inplace, MMT | 0.05 | 0.23 |
| Gas Inplace, BCM | Nil | Nil |
| 3D Seismic, SKM | 41.93 | |
| 2D Seismic, LKM | 29.54 | |
| Wells drilled | 1 | 1 |
| Wells dry | Nil | |
| Nearest City | Duliajan | |
| Nearest Surface Facility | MRN-116 (MFC) well-head set-up ~20 km | |



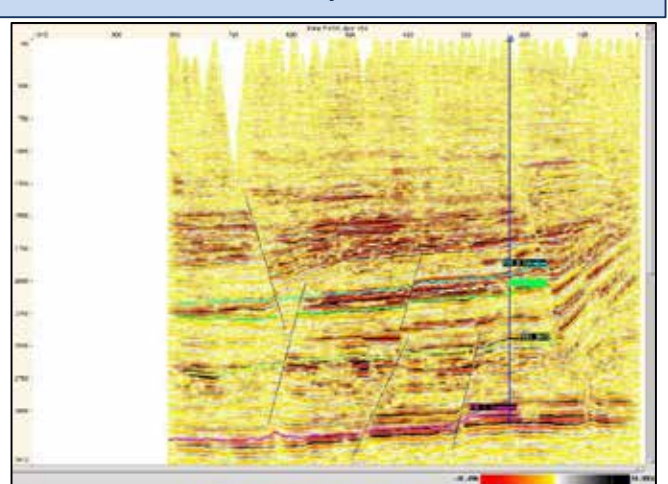
Part of Inline 242 passing through well Haldibari-1



Time structure map of LAKDANG+THERIA (Haldibari-1)

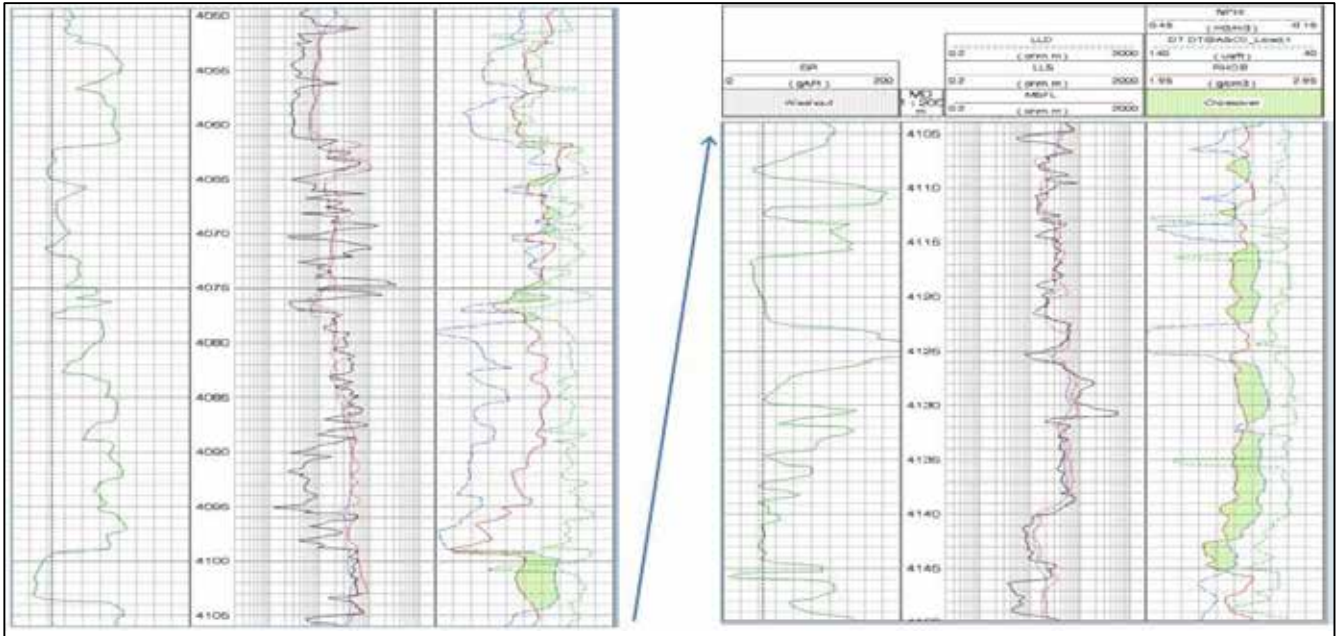


Part of Inline 184 passing through well Madhakali-1

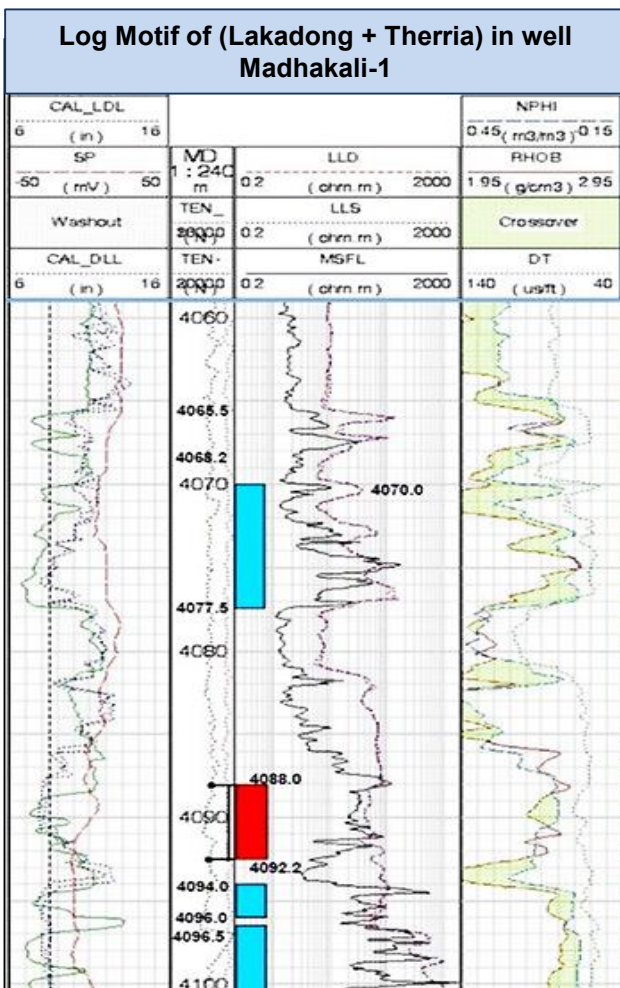


AA/ONDSF/MADHAKALI/2018

Log Motif of Obj-1 (Lakadong + Therria) in well Haldibari-1



Log Motif of (Lakadong + Therria) in well Madhakali-1



Initial testing details:

Well Haldibari-1 produced @20klpd with FTTH 21 kg/cm2. (API: 24.8 0) (Workover)

Initial testing details:

Well Madhakali-1 produced @ 4 klpd API-29.9 (Workover)



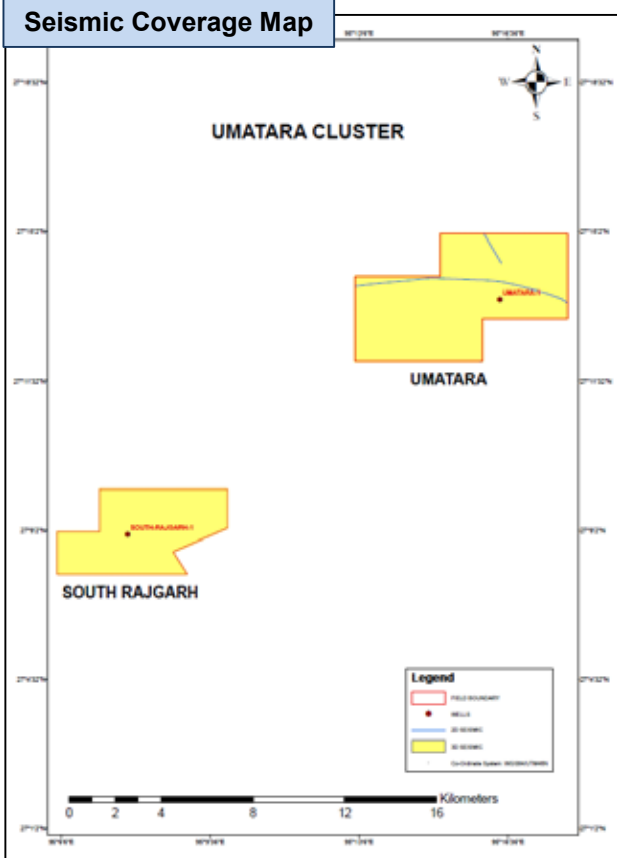
AA/ONDSF/UMATARA/2018

Location Map

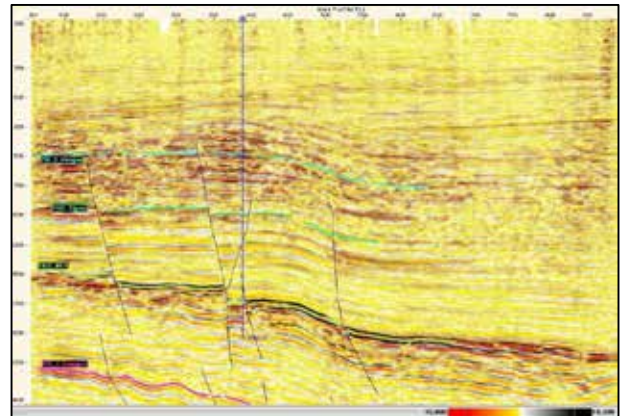


| Field(s) | South Rajgarh | Umatara |
|--------------------------|---|-----------------------------------|
| Location | Assam | |
| Operator | OIL | |
| Area, SKM | 18.49 | 33.54 |
| Year of Discovery | 1994 | 2010 |
| Main Payzone & Age | Barail (Oligocene) | |
| Oil Inplace, MMT | 1.48 | 3.37 |
| Gas Inplace, BCM | Nil | Nil |
| 3D Seismic, SKM | 52.03 | |
| 2D Seismic, LKM | 10 | |
| Wells drilled | 1 | 1 |
| Wells dry | Nil | |
| Nearest City | Duliajan | |
| Nearest Surface Facility | Sapkaint (DGD) well-head set-up ~ 14 km | Balimara well-head set-up ~ 16 km |

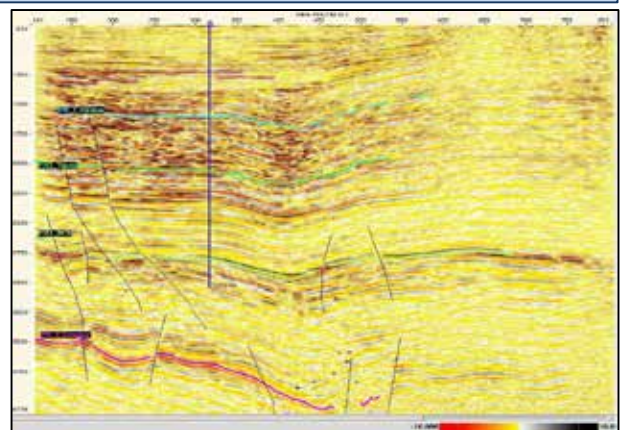
Seismic Coverage Map



Part of Inline 512 passing through well South Rajgarh-1

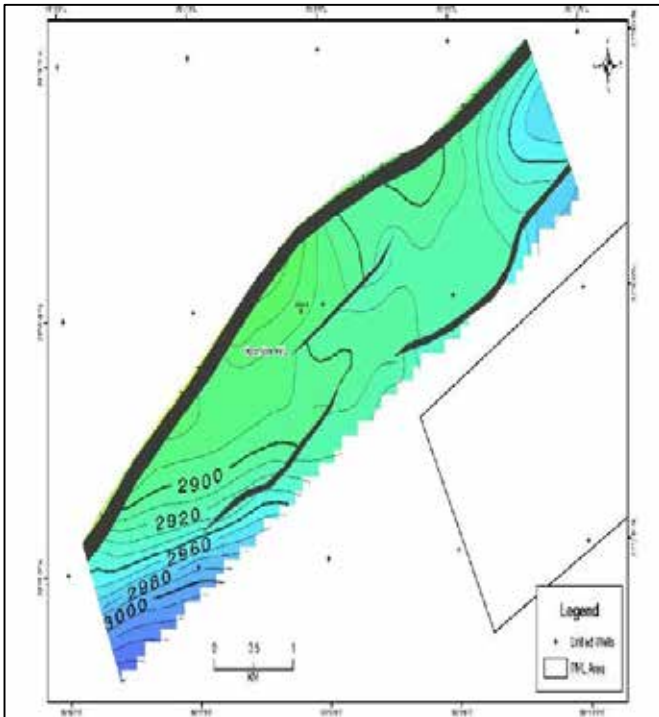


Part of Inline 863 passing through well Umatara-1

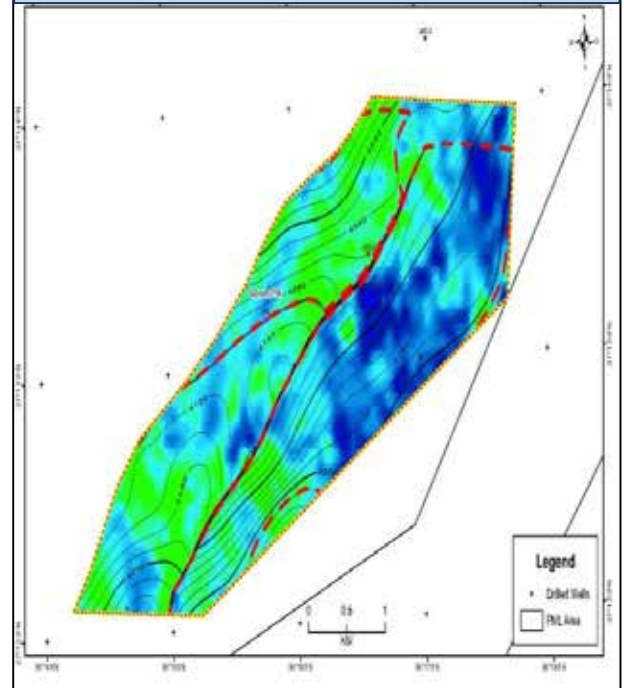


AA/ONDSF/UMATARA/2018

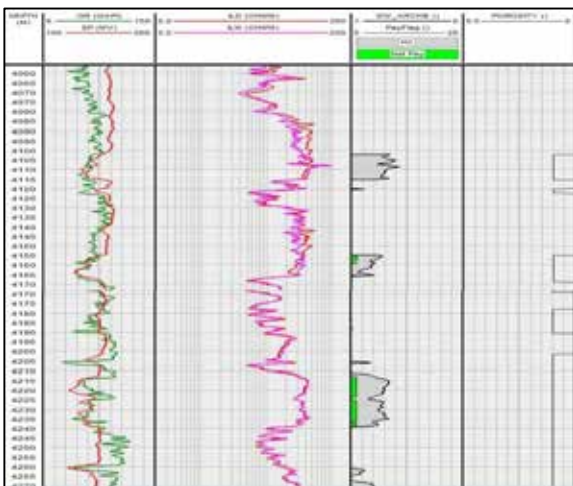
Time structure map of BARAIL (South Rajgarh-1)



Seismic amplitude map of BARAIL (Umatara-1)

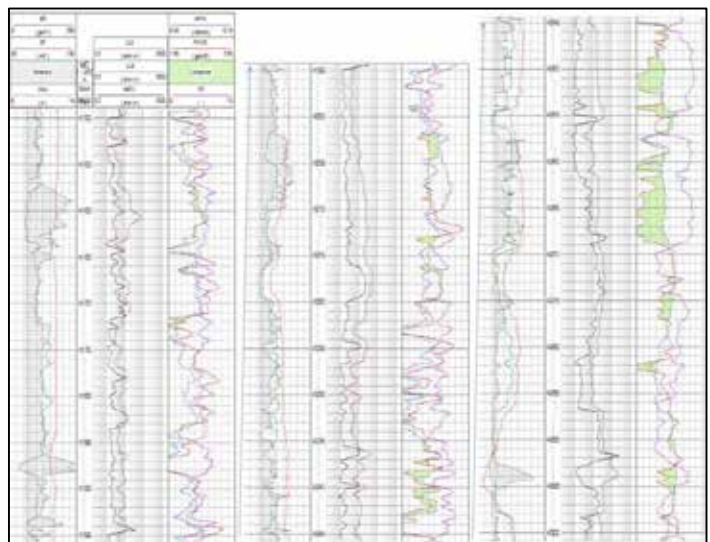


Log Motif of South Rajgarh-1



Initial testing South Rajgarh-1:
4214.5-4219.0m : inflow of oil with traces of gas.

Log Motif of Umatara-1



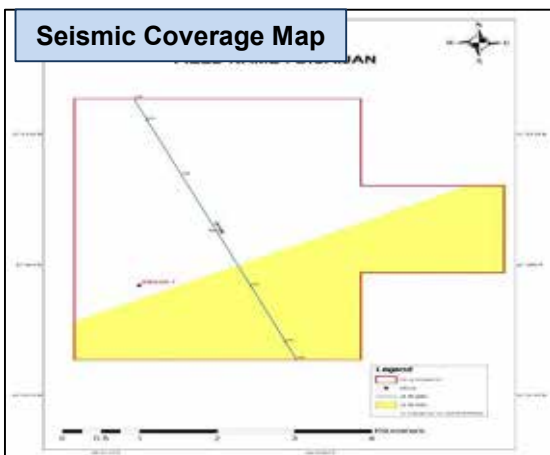
Initial testing Umatara-1:
4291.5-4294.5 m, 4287-4293 m
24 klpd (API-34.76), Cumulative Oil 3156 SCM,
Cum Gas: 429 MSCM



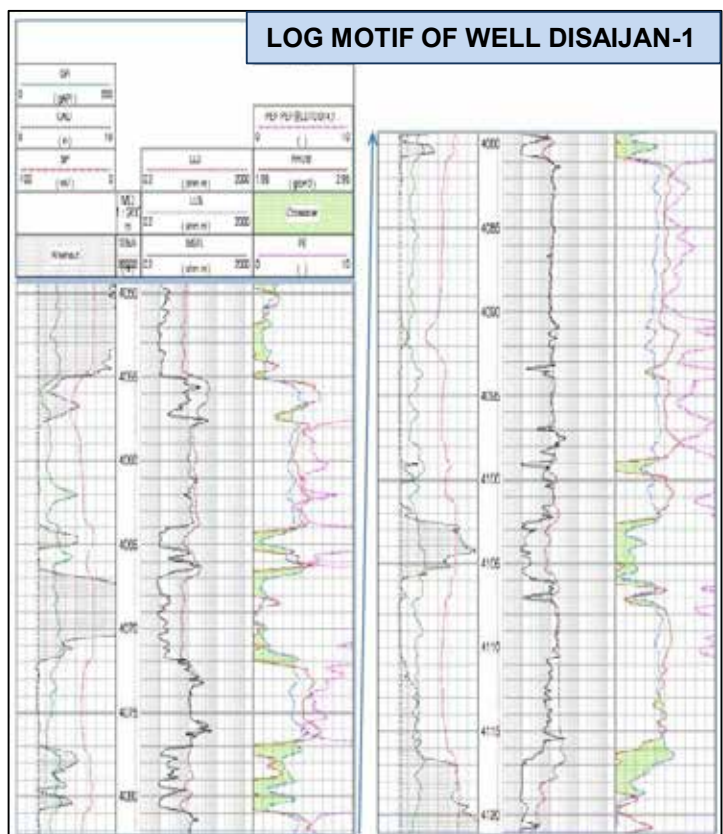
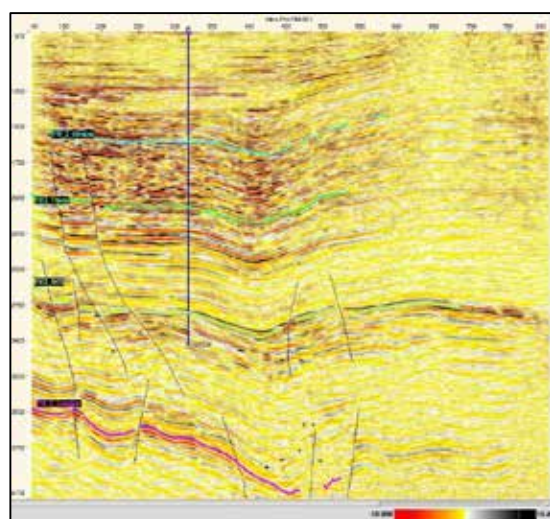
AA/ONDSF/DISAIJAN/2018



| | |
|---------------------------------|-------------------------------|
| Field(s) | Disaijan |
| Location | Assam |
| Area, SKM | 21.26 |
| Operator | OIL |
| Year of discovery | 2009 |
| Main Payzone & Age | Narpuh (Palaeocene-Eocene) |
| Oil Inplace, MMT | 0.98 |
| Gas Inplace, BCM | NIL |
| 3D Seismic, SKM | 9.29 |
| 2D Seismic, LKM | 5.85 |
| Wells drilled | 1 |
| Wells dry | NIL |
| Nearest Surface facility | Baghjan EPS~ 16 Km |
| Nearest City | Duliajan |



Part of Inline 863 passing through well Disaijan-1



Initial testing details:
 4110-4115m, sample (floating oil) analysis showed oil: 62%
 (API: 24.70)



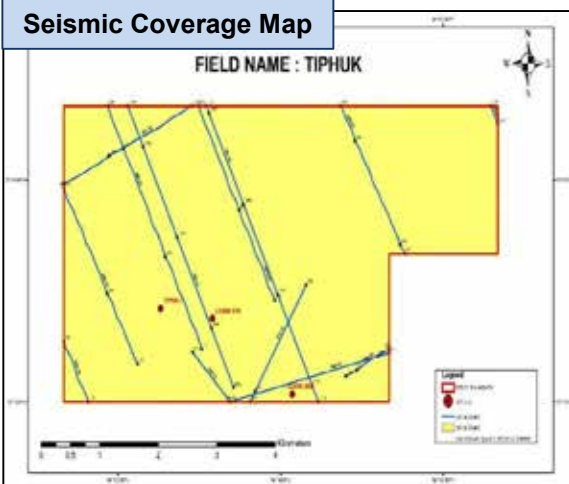
AA/ONDSF/TIPHUK/2018

Location Map

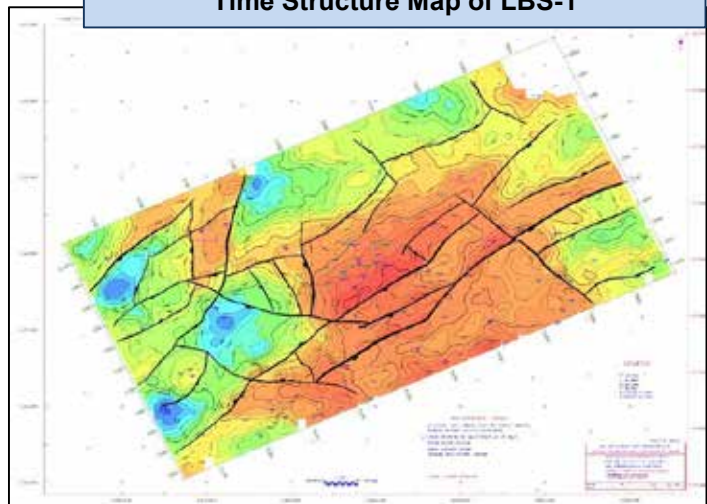


| | |
|--------------------|--|
| Field(s) | Tiphuk |
| Location | Assam |
| Area, SKM | 21.37 |
| Operator | ONGC |
| Year of discovery | 2004-05 |
| Main Payzone & Age | LBS-II of Barail Main Sand (Oligocene) |
| Oil Inplace, MMT | 0.40 |
| Gas Inplace, BCM | 0.11 |
| 3D Seismic, SKM | 21.37 |
| 2D Seismic, LKM | 27.69 |
| Wells drilled | 3 |
| Wells dry | 2 |
| Nearest City | Sibsagar |

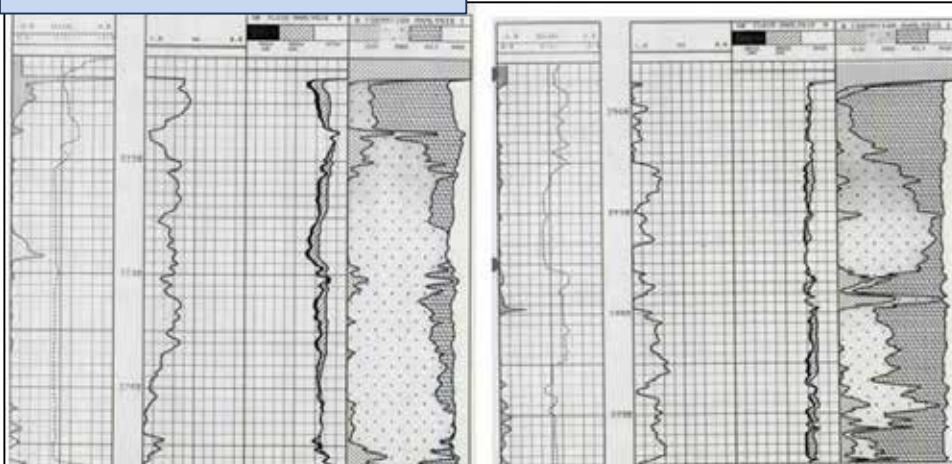
Seismic Coverage Map



Time Structure Map of LBS-1



LOG MOTIFS OF WELL TIPHUK-1



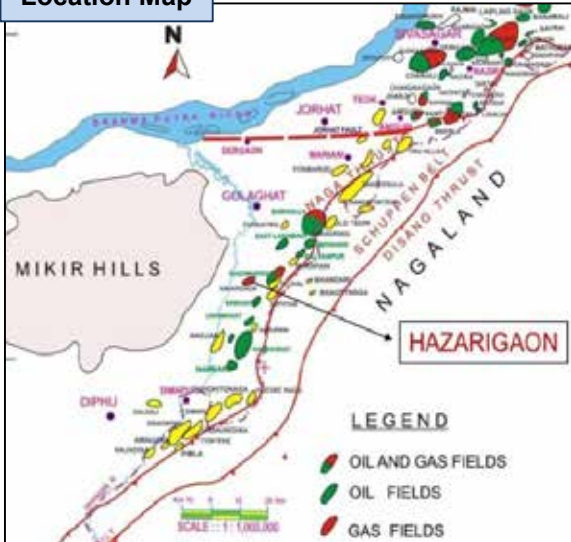
Initial testing details:

3717-3722m :
 Qg=29820 m3/d with
 4mm, Qo=9.88 m3/d.
 (API-54)
 3980-3985m:
 Formation water with
 mild Gas



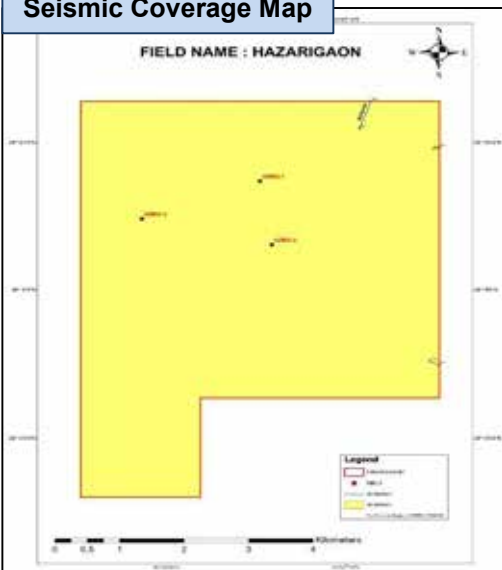
AA/ONDSF/HAZARIGAON/2018

Location Map

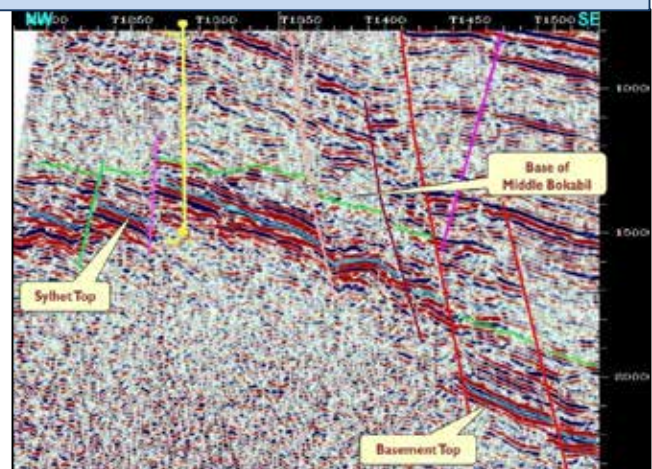


| | |
|--------------------------|--|
| Field(s) | Hazarigaon |
| Location | Assam |
| Area, SKM | 30.74 |
| Operator | ONGC |
| Year of discovery | 2008-09 |
| Main Payzone & Age | Barail Sandstone & Sylhet (Eocene-Oligocene) |
| Oil Inplace, MMT | NIL |
| Gas Inplace, BCM | 0.3 |
| 3D Seismic, SKM | 30.72 |
| 2D Seismic, LKM | 0.74 |
| Wells drilled | 3 |
| Wells dry | 2 |
| Nearest Surface facility | No Surface Facility available |
| Nearest City | Barpathar |

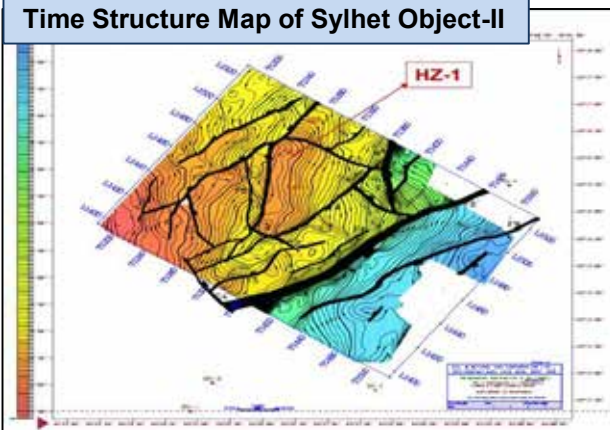
Seismic Coverage Map



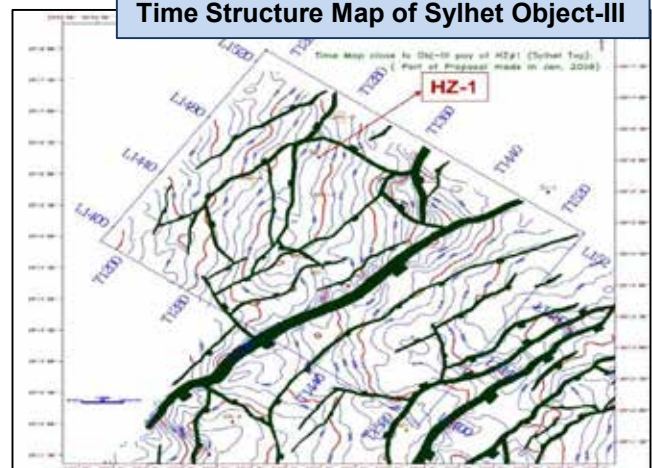
Part of Inline 1492 showing Well Hazarigaon-01



Time Structure Map of Sylhet Object-II

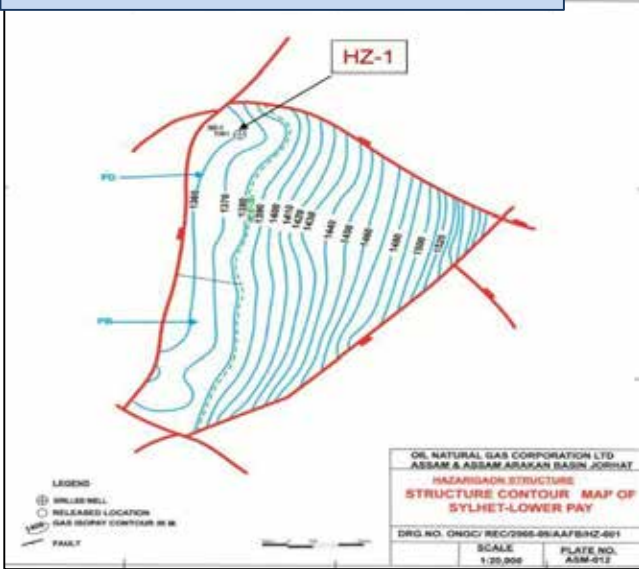


Time Structure Map of Sylhet Object-III

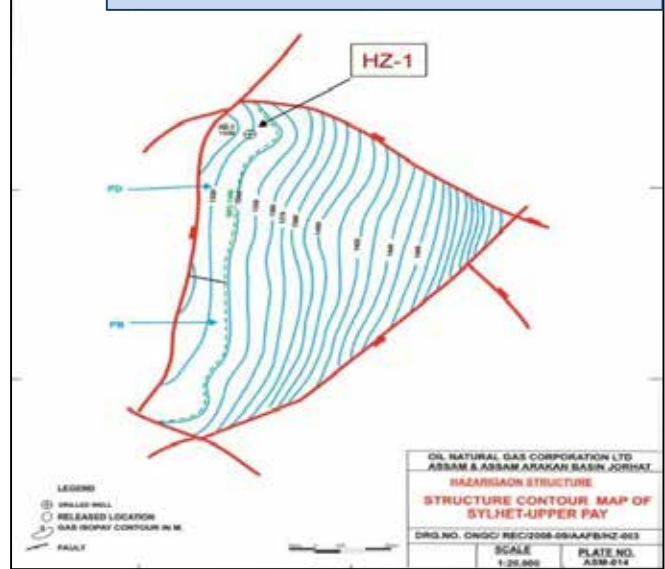


AA/ONDSF/HAZARIGAON/2018

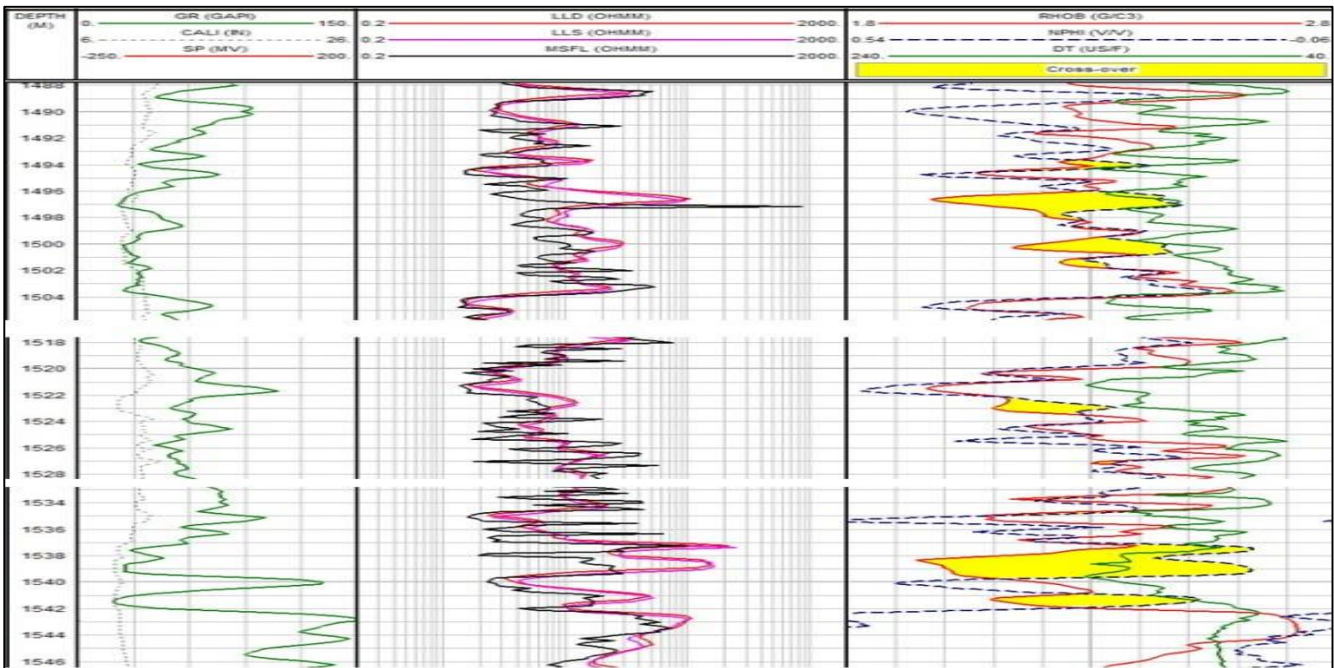
Depth structure map of SYLHET LOWER



Depth structure map of SYLHET UPPER



LOG MOTIFS OF WELL HAZARIGAON-1



Initial testing details:

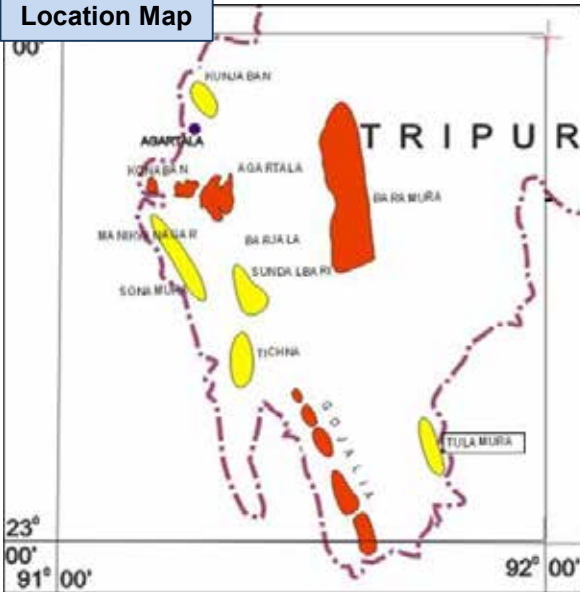
Interval(m.): 1541-1543.5 & 1539.5-1537 flowed Qgas: 45264 scmd at FTHP: 1800 psi through Bean(1/64 inch): 15.12

Interval (m.): 1500.5-1496 & 1494.5-1493.5 flowed Qgas: 40224 scmd at FTHP: 1800 psi through Bean (1/64 inch): 15.12



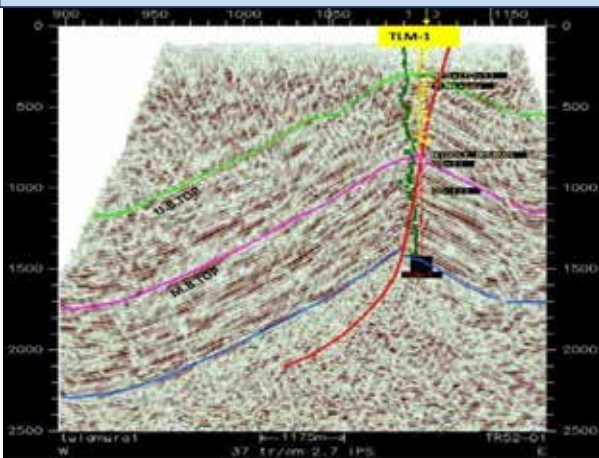
AA/ONDSF/TULAMURA/2018

Location Map

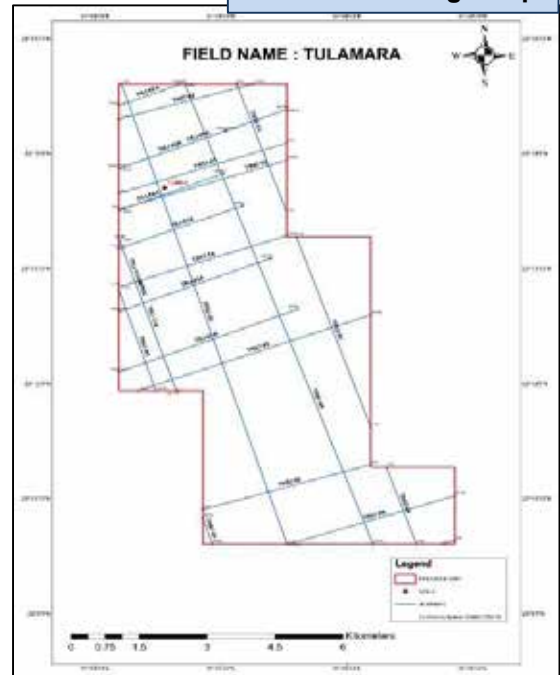


| | |
|--------------------------|-----------------------------|
| Field(s) | Tulumura |
| Location | Tripura |
| Area, SKM | 47.23 |
| Operator | ONGC |
| Year of discovery | 2008-09 |
| Main Payzone & Age | Up. Bhuban (Middle Miocene) |
| Oil Inplace, MMT | NIL |
| Gas Inplace, BCM | 0.2 |
| 3D Seismic, SKM | NIL |
| 2D Seismic, LKM | 112.54 |
| Wells drilled | 1 |
| Wells dry | NIL |
| Nearest Surface facility | Gojalia GCS |
| Nearest City | Amarpur |

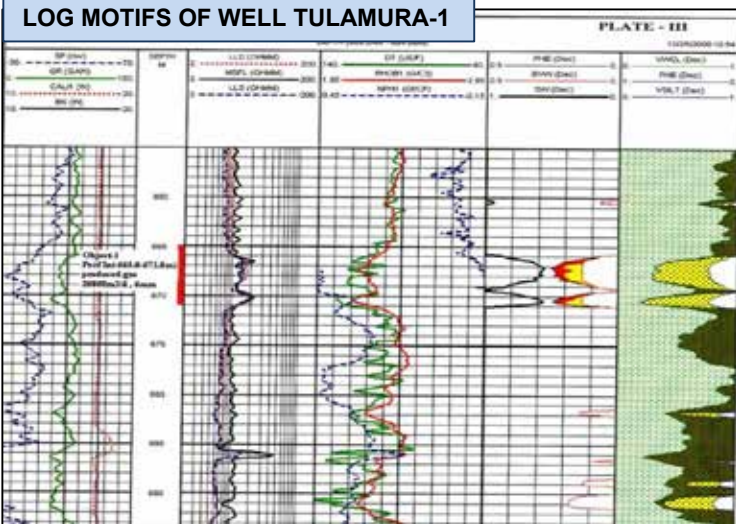
Seismic Section passing through Tulumura-1



Seismic Coverage Map



LOG MOTIFS OF WELL TULAMURA-1



Initial testing details:

Interval(m.): 671-665 flowed Qgas:
50976 scmd, FBHP: 677.74 psi through
Bean (1/64 inch)



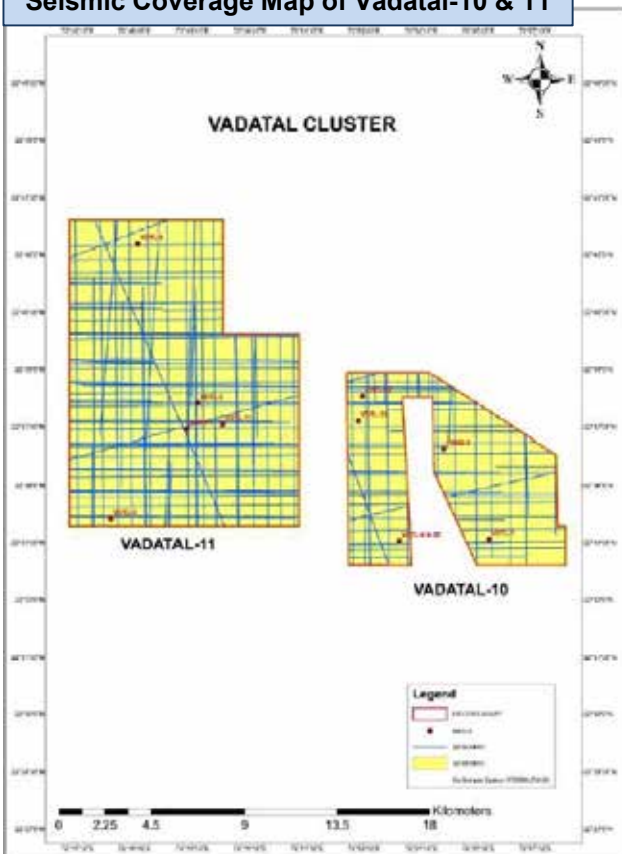
CB/ONDSF/VADATAL/2018

Location Map

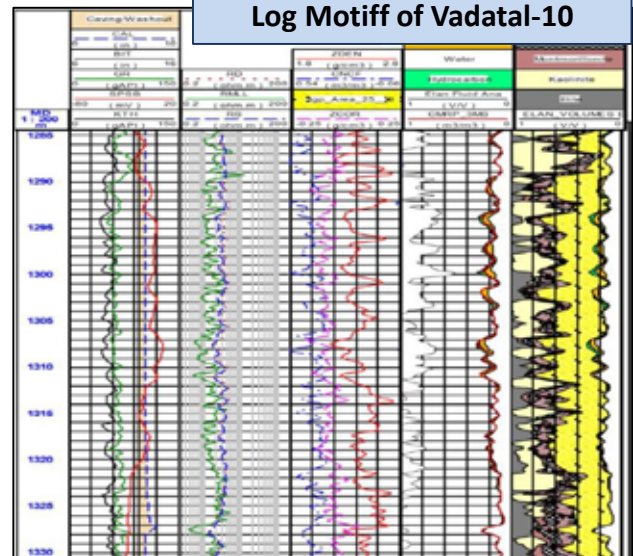


| Field(s) | Vadatal-10 | Vadatal-11 |
|--------------------------|--|-------------------------------|
| Location | Gujarat | |
| Area, SKM | 62.17 | 132.8 |
| Earlier Operator | ONGC | |
| Year of discovery | 2014-15 | |
| Main Payzone & Age | Chhatral Pay (Cambay Shale) (Lower Eocene) | KVIII (Kalol) (Middle Eocene) |
| Oil Inplace, MMT | 0.09 | 0.218 |
| Gas Inplace, BCM | Nil | Nil |
| 3D Seismic, SKM | 194.97 | |
| 2D Seismic, LKM | 380.06 | 1043.32 |
| Wells drilled | 6 | 5 |
| Wells dry | 2 | 3 |
| Nearest Surface facility | WHI of Vadatal-3 | |
| Nearest City | Vadodara | |

Seismic Coverage Map of Vadatal-10 & 11



Log Motiff of Vadatal-10



Initial testing details:

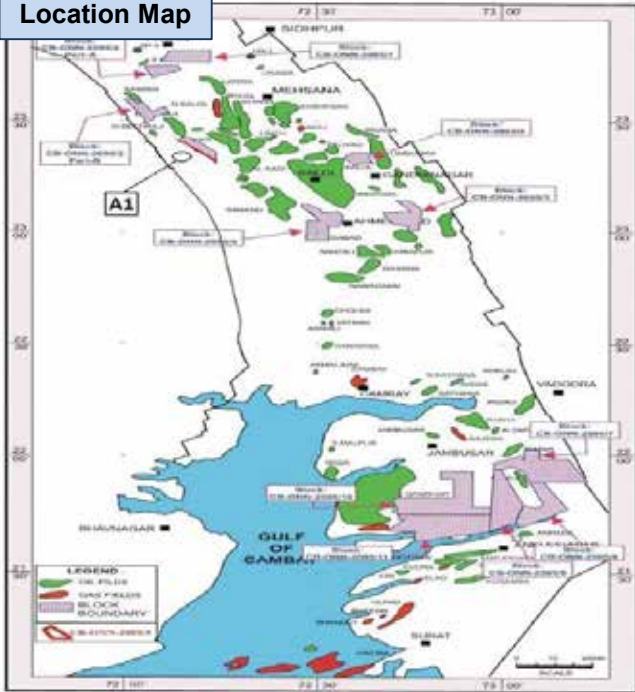
Well Vadatal-10: Interval 1241-1277m, Oil indication

Well Vadatal-11: Interval 1506.5 – 15.5m. Oil requires HF.



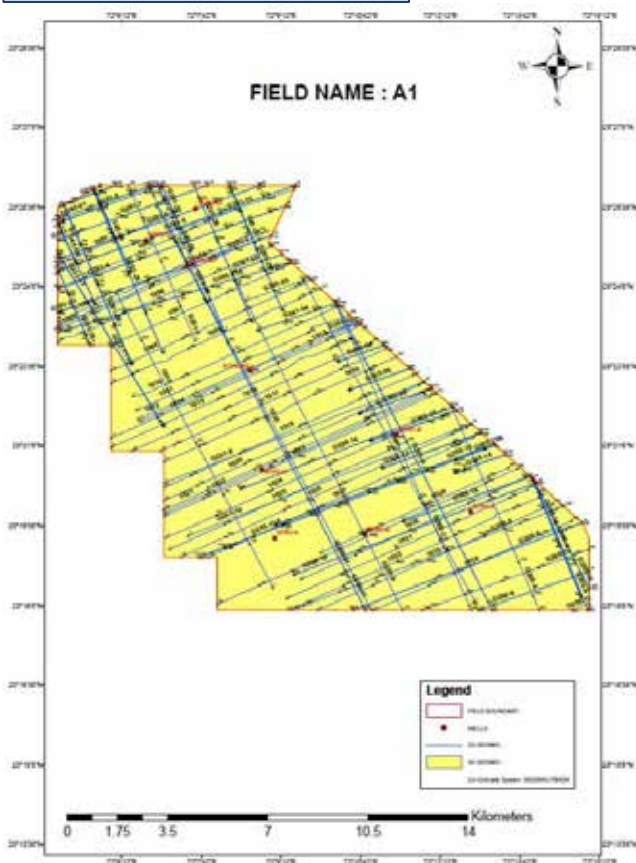
CB/ONDSF/A1/2018

Location Map

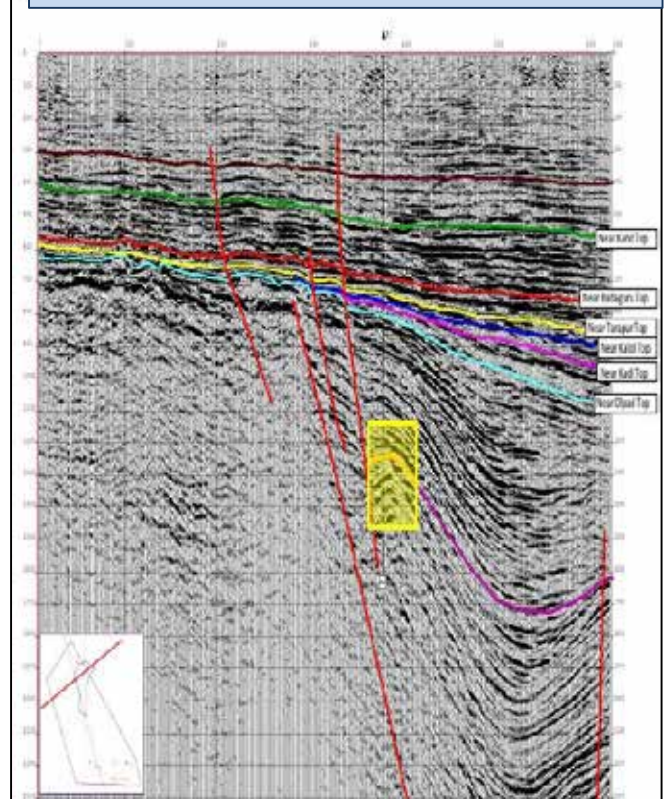


| | |
|--------------------|-------------------|
| Field(s) | A1 |
| Location | Gujarat |
| Area, SKM | 151.99 |
| Earlier Operator | NTPC |
| Year of discovery | 2016-17 |
| Main Payzone & Age | Olpad (Paleocene) |
| Oil Inplace, MMT | 8.88 |
| Gas Inplace, BCM | NIL |
| 3D Seismic, SKM | 151.99 |
| 2D Seismic, LKM | 881.77 |
| Wells drilled | 9 |
| Wells dry | 8 |
| Nearest City | Mehsana |

Seismic Coverage Map of A1



Part of inline 960 passing through Well A1



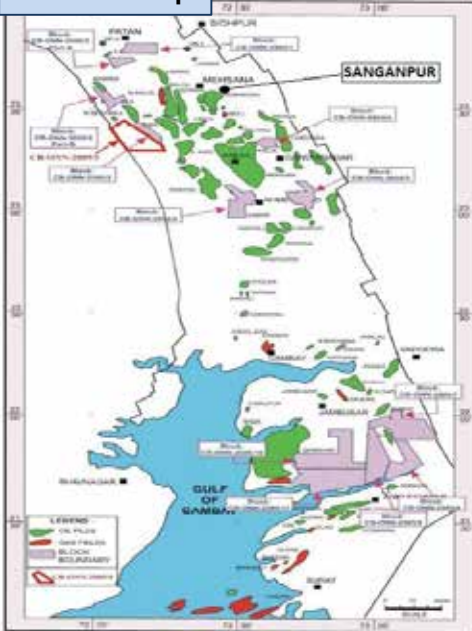
Initial testing details:

Oil traces from Olpad along with oil emulsion



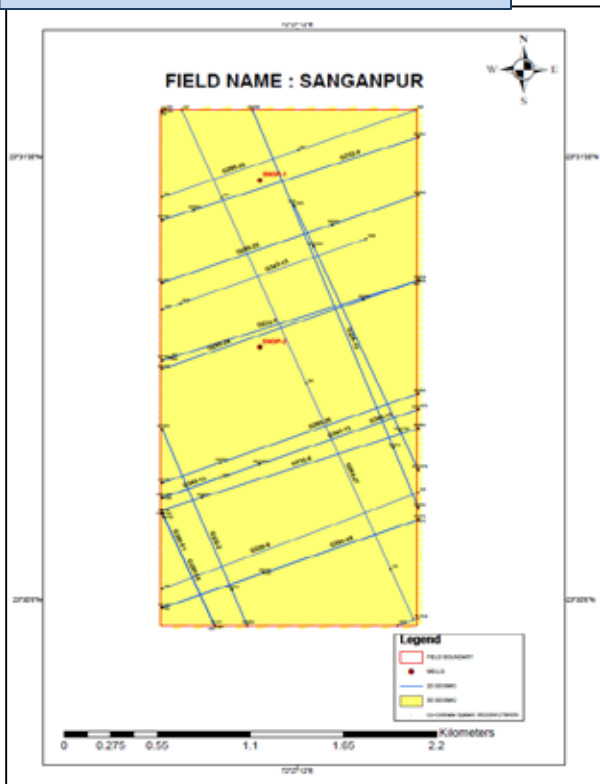
CB/ONDSF/SANGANPUR/2018

Location Map

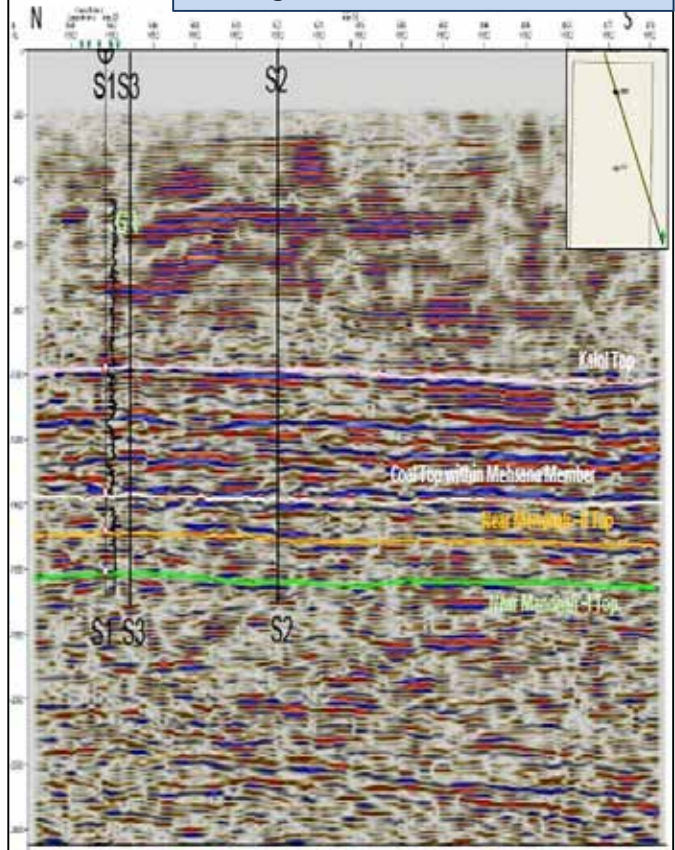


| Field(s) | Sanganpur |
|--------------------|------------------------------------|
| Location | Gujarat |
| Area, SKM | 4.49 |
| Earlier Operator | PPCL & HDCPL |
| Year of discovery | 2006-07 |
| Main Payzone & Age | Madhakali Formation (Lower Eocene) |
| Oil Inplace, MMT | 0.858 |
| Gas Inplace, BCM | NIL |
| 3D Seismic, SKM | 4.49 |
| 2D Seismic, LKM | 48.02 |
| Wells drilled | 2 |
| Wells dry | NIL |
| Nearest City | Mehsana |

Seismic Coverage Map of Sangapur

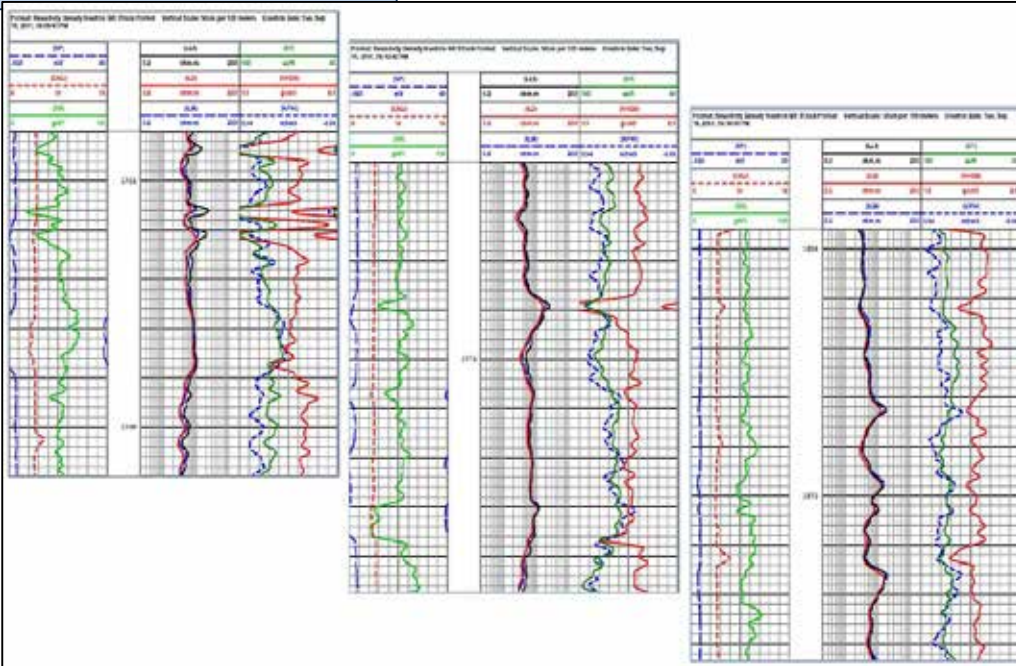


Geological cross-section of the area



CB/ONDSF/SANGANPUR/2018

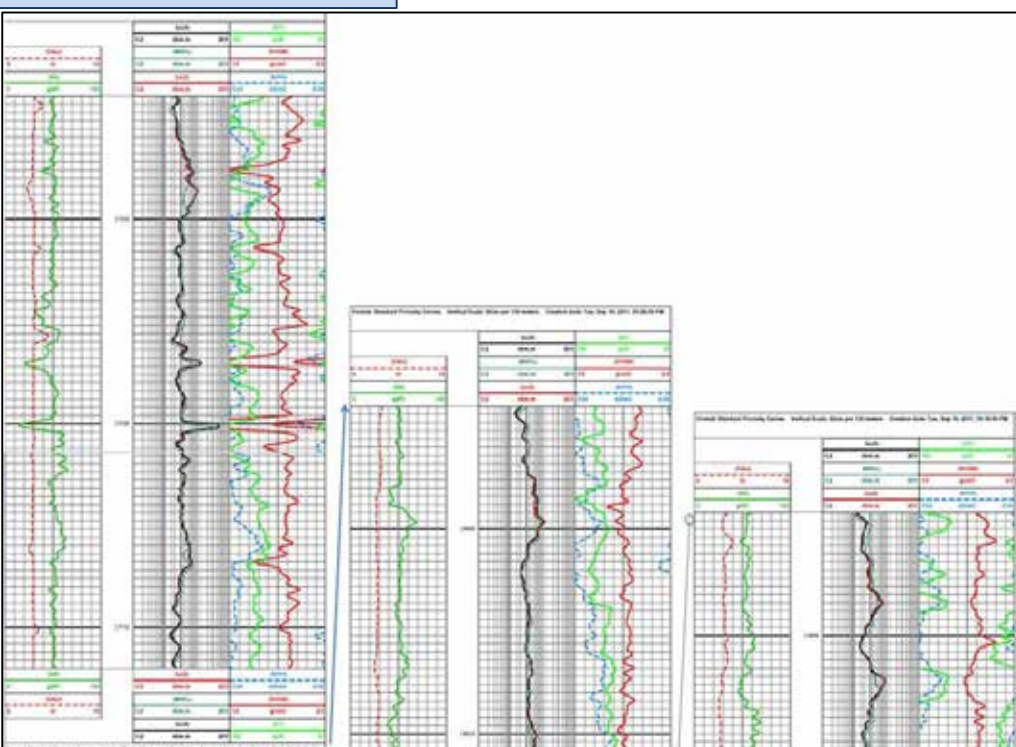
Log Motif of Well Sanpanpur-1



Initial testing details:

FLOW OF OIL
(1.4M3/D) & GAS
(370M3/D);

Log Motif of Well Sanpanpur-2



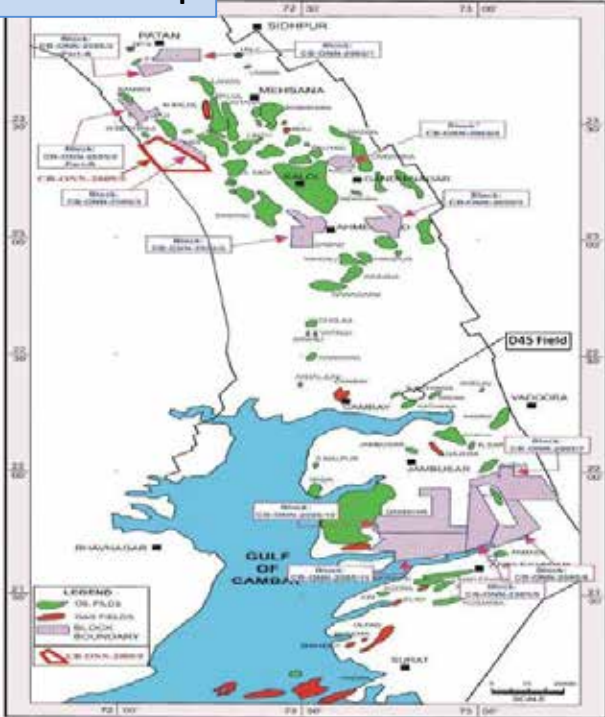
Initial testing details:

PRODUCED GAS
@ 15214M3/D,
CONDENSATE
@8M3/D WITH
5MM BEAN,



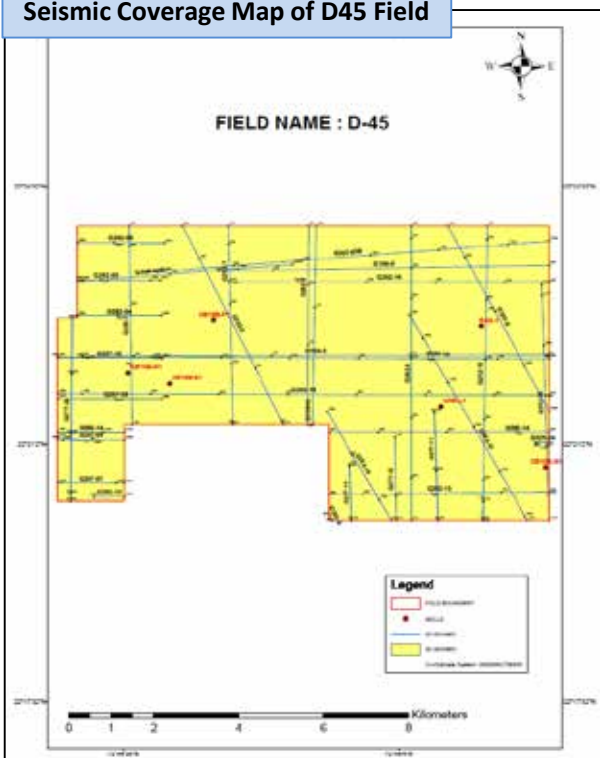
CB/ONDSF/D45/2018

Location Map

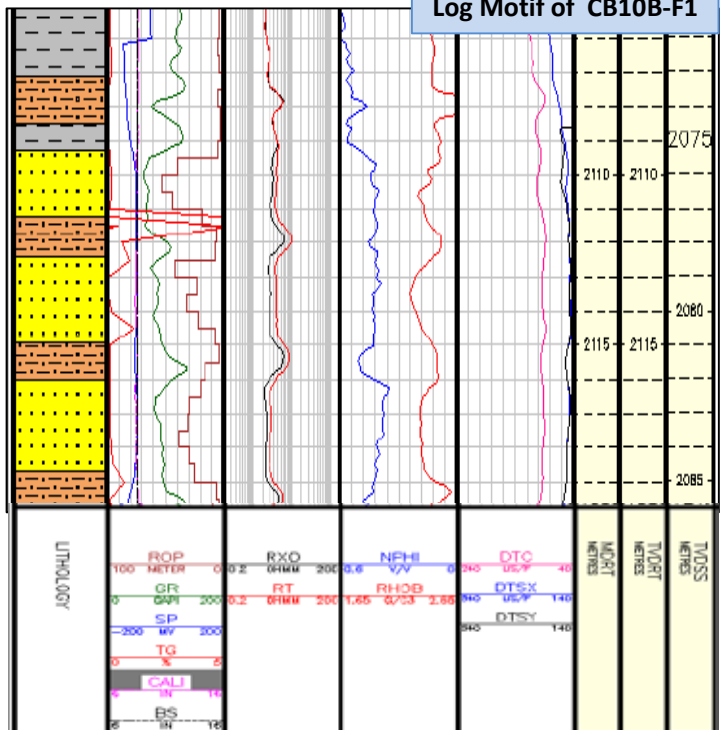


| | |
|--------------------|-------------------------------------|
| Field(s) | D45 |
| Location | Gujarat |
| Area, SKM | 66.82 |
| Earlier Operator | RIL |
| Year of discovery | 2009-10 |
| Main Payzone & Age | EP-IV (Kalol Formation) (Eocene) |
| Oil Inplace, MMT | NIL |
| Gas Inplace, BCM | 0.008 |
| 3D Seismic, SKM | 66.82 |
| 2D Seismic, LKM | 166.51 |
| Wells drilled | 6 |
| Wells dry | 4 |
| Nearest City | Vadodara |

Seismic Coverage Map of D45 Field



Log Motif of CB10B-F1



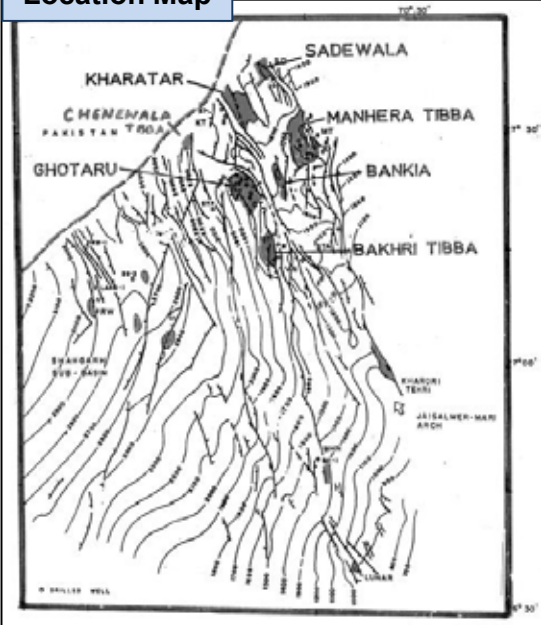
Initial testing details:

INTERVAL 2109-2111.5m, FLOWED OIL AND GAS, API 23



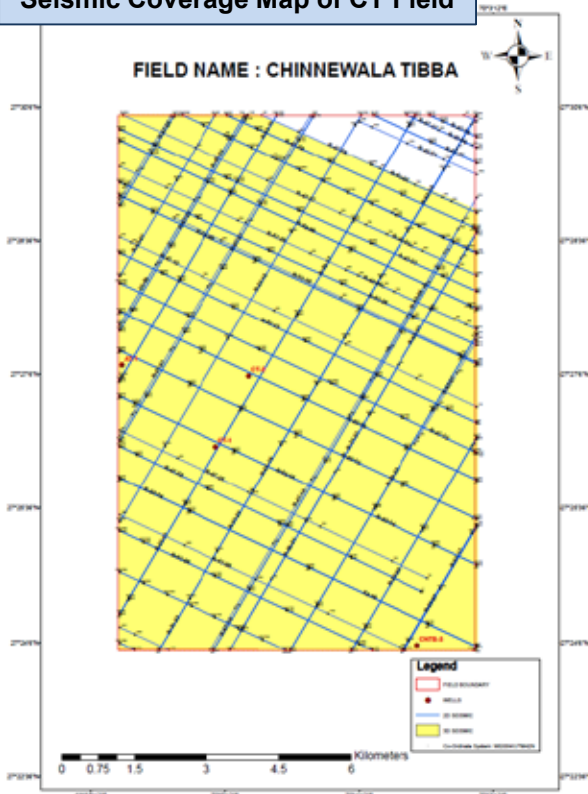
RJ/ONDSF/CHINNEWALA/2018

Location Map

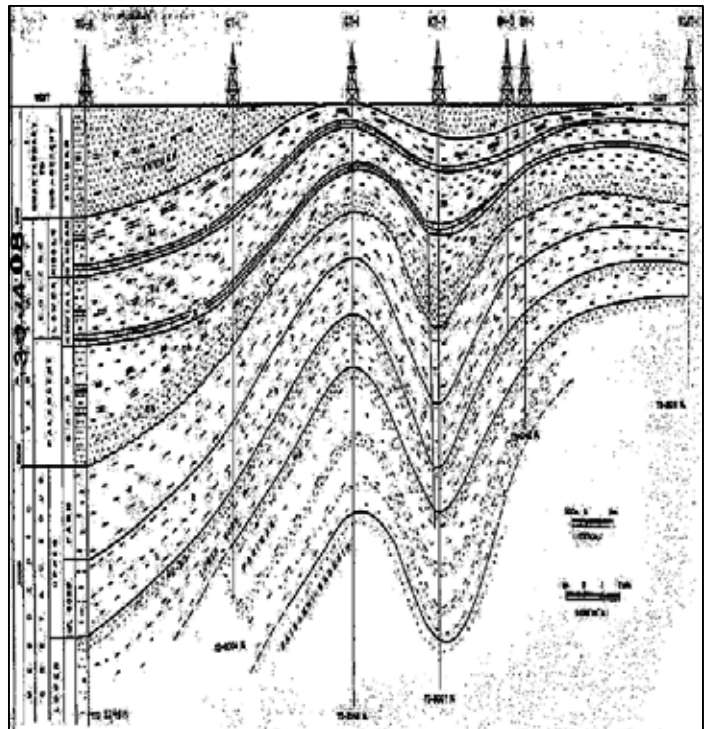


| Field(s) | CT-1 | CT-2 |
|--------------------------|---------------------------------|---------|
| Location | Rajasthan | |
| Area, SKM | 73.004 | |
| Operator | ONGC | |
| Year of discovery | 2002-03 | 2007-08 |
| Main Payzone & Age | Pariwar & Lr. Goru (Cretaceous) | |
| Oil Inplace, MMT | NIL | |
| Gas Inplace, BCM | 1.9 | |
| 3D Seismic, SKM | 69.73 | |
| 2D Seismic, LKM | 766.7 | |
| Wells drilled | 4 | |
| Wells dry | 1 | |
| Nearest Surface facility | GCS Gannewala (~45km) | |
| Nearest City | Jaisalmer | |

Seismic Coverage Map of CT Field

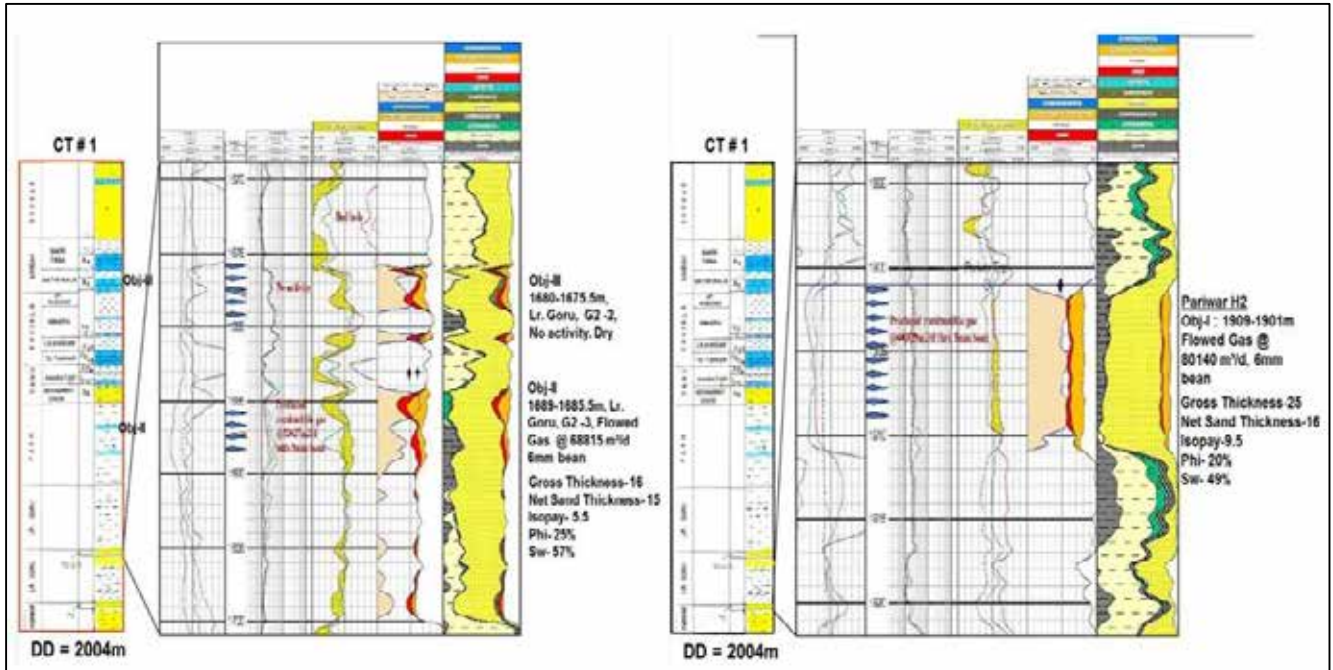


Geological cross-section of the area

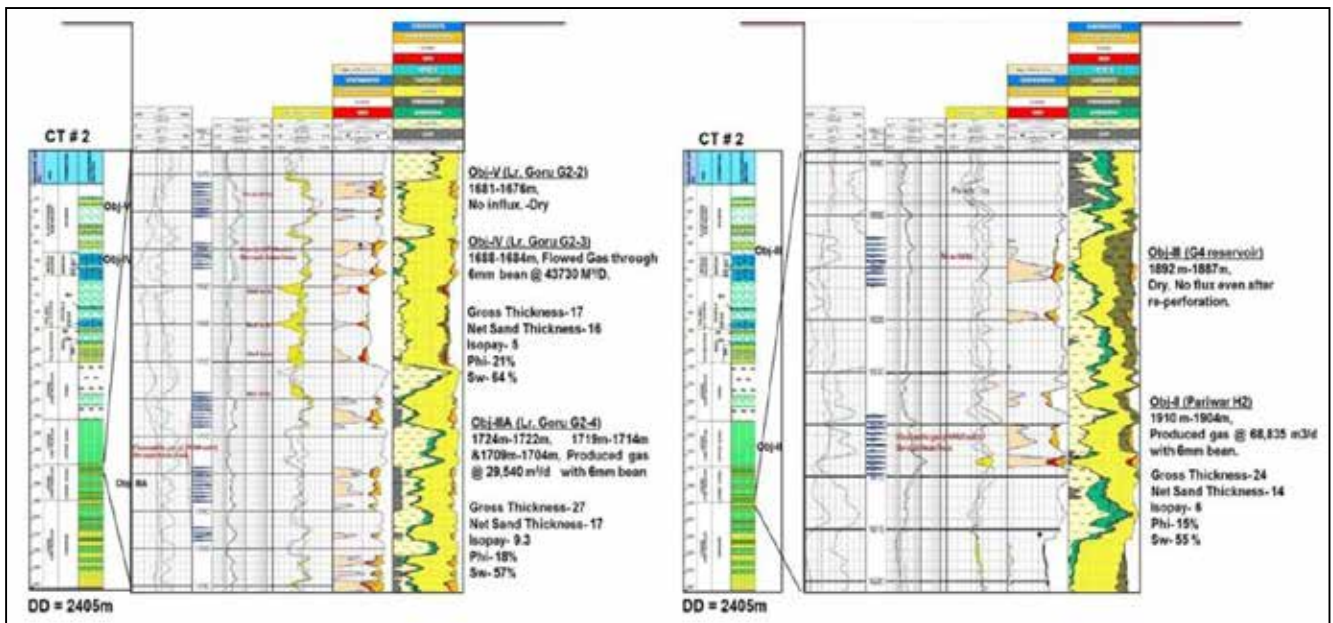


RJ/ONDSF/CHINNEWALA/2018

Log Motif and testing details of CT-1



Log Motif and testing details of CT-2



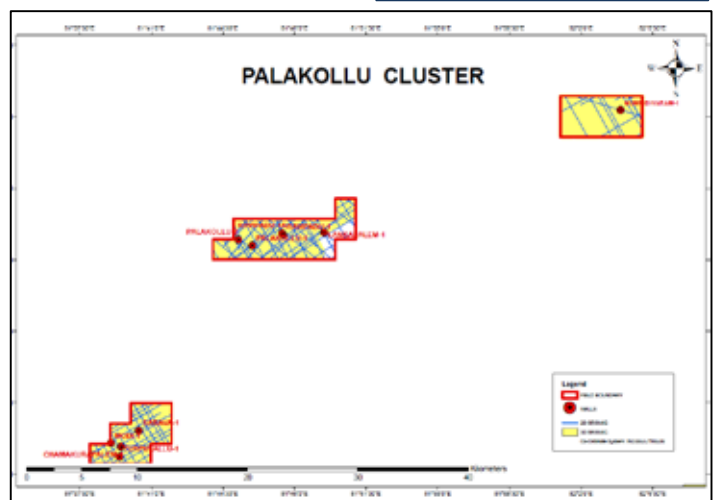
KG/ONDSF/PALAKOLLU/2018

| Field(s) | Palakollu | Lankapalem | Mummidivaram | Turputullu |
|--------------------------|---------------------------------|-----------------------|--|-----------------------------------|
| Location | KG Onland | KG Onland | KG Onland | KG Onland |
| Operator | ONGC | ONGC | ONGC | ONGC |
| Area, SKM | 22.97 | 19.68 | 26.24 | 26.25 |
| Year of discovery | 1986-87 | 1995-96 | 1992-93 | 2005-06 |
| Main Payzone & Age | Chintalapalli; Upper Cretaceous | Palakollu; Palaeocene | Trap Section; Paleocene | Pasarlappudi sandstone; Lr Eocene |
| Oil Inplace, MMT | - | - | - | 0.10 |
| Gas Inplace, BCM | 0.23 | 0.22 | 0.06 | 0.01 |
| 3D Seismic, SKM | 116.14 | | | |
| 2D Seismic, LKM | 109.59 | 71.86 | 42.6 | 97.46 |
| Wells drilled | 04 | 01 | 01 | 04 |
| Wells dry | 01 | NIL | NIL | 02 |
| Nearest Surface facility | Narsapur GCS ~ 10km | Kavitam EPS ~ 8 km | Gopavaram GGS, Pasarlappudi GGS (~ 20km) | Narsapur GCS ~ 15 km |
| Nearest City | Narsapur | Palakollu | Amalapuram | Narsapur |

Location Map

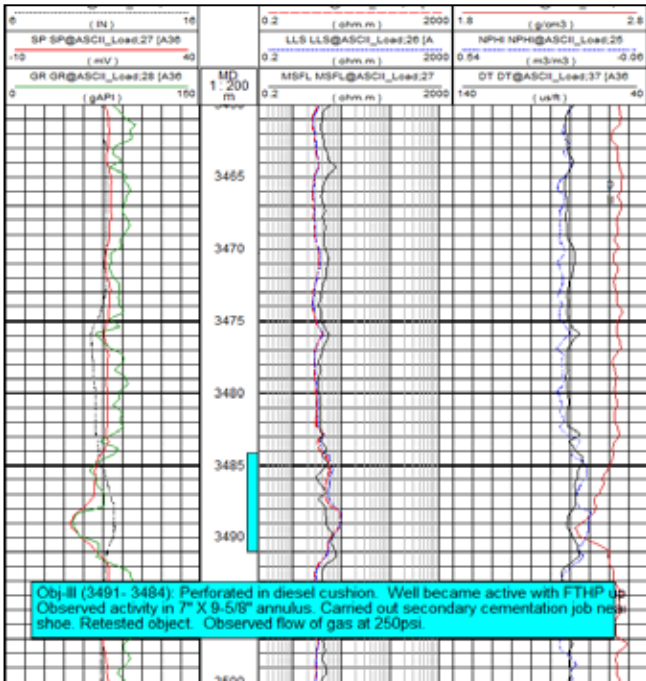


Seismic Coverage map



KG/ONDSF/PALAKOLLU/2018

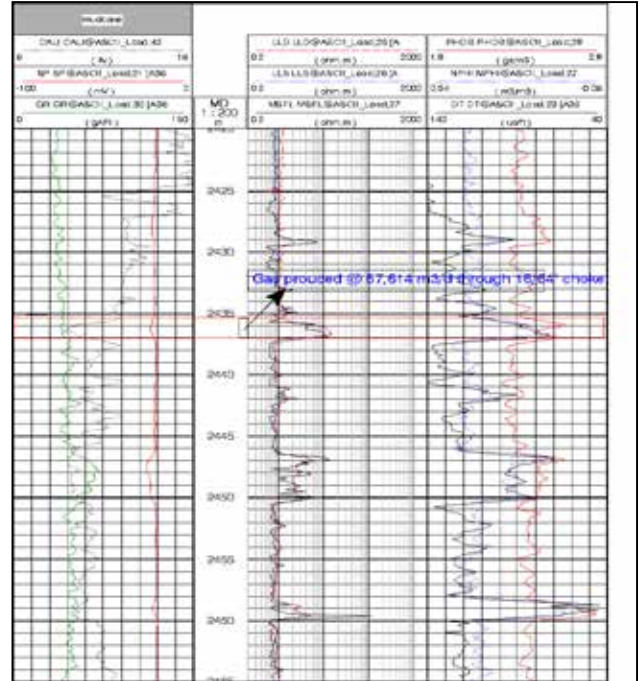
Palakollu-1: Log motif – Object- III



Initial testing details:

Well Palakollu#1, gas bearing in Chintalapalli Formation of Upper Cretaceous

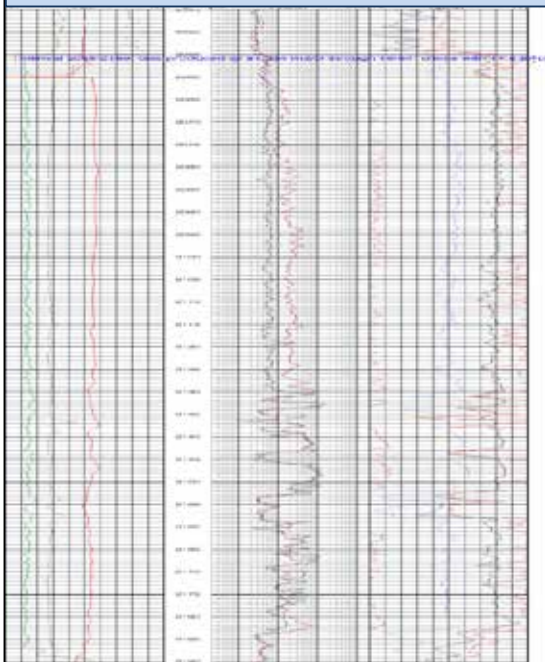
Lankapalem-1: Log motif –Object-III



Initial testing details:

Well Lankapalem#1, gas bearing in Palakollu sands; Gas - 57614 m3/d

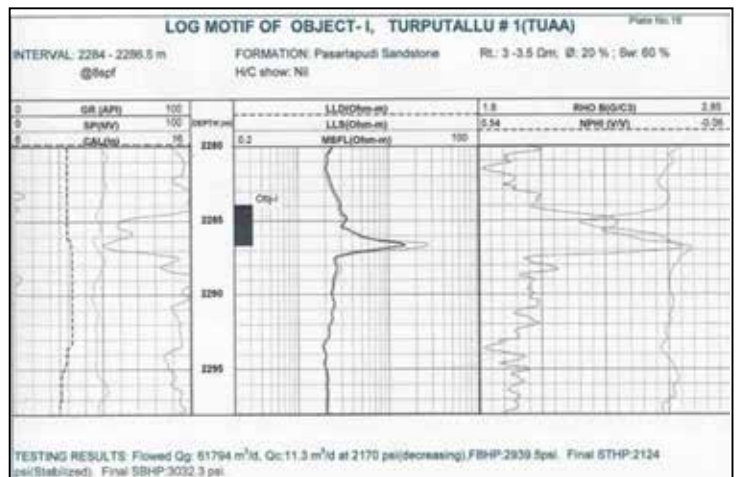
Mummidivaram-1: Log motif – Object-1



Initial testing details:

Well Mummidivaram-1, gas bearing in Trap section of Paleocene age; Gas - 81334 m3/d

Turputallu-1: Log motif – Object-1



Initial testing details:

Well Turputallu-1, gas bearing in Pasarlapuddi sandstone; Qg- 61794 m3/d, Qc: 11.3 m3/d



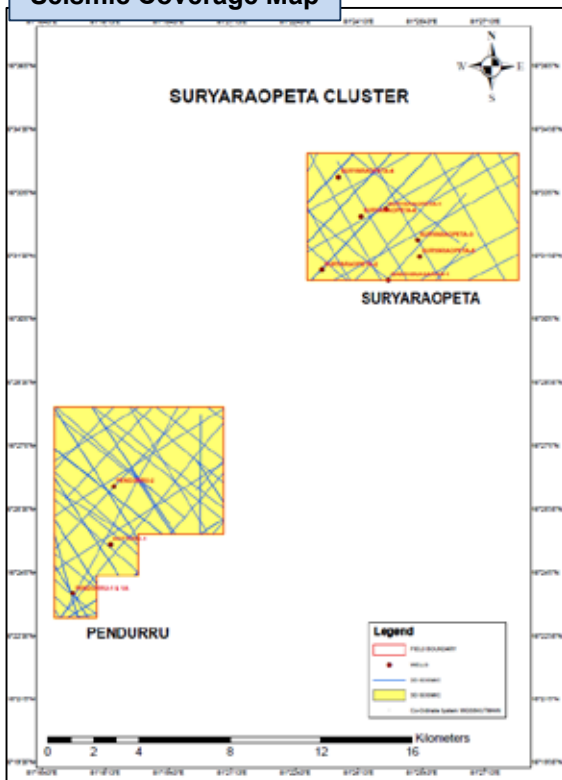
KG/ONDSF/SURYARAOPETA/2018

Location Map

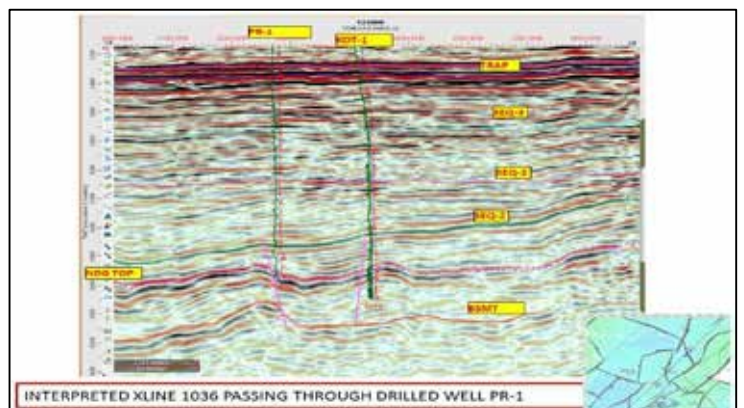
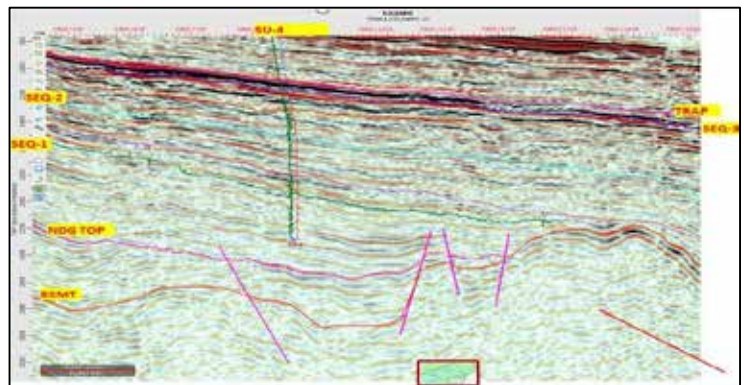


| Field(s) | Pendurru | Suryaraopeta-4 |
|--------------------------|------------------------------|--------------------------|
| Location | KG Onland | KG Onland |
| Area, SKM | 49.25 | 49.18 |
| Operator | ONGC | ONGC |
| Year of discovery | 2001-02 | 2006-07 |
| Main Payzone & Age | Raghavapuram & Lr Cretaceous | |
| Oil Inplace, MMT | - | - |
| Gas Inplace, BCM | 0.12 | 0.20 |
| 3D Seismic, SKM | 98.43 | |
| 2D Seismic, LKM | 233.12 | 127.68 |
| Wells drilled | 04 | 07 |
| Wells dry | 01 | 01 |
| Nearest Surface facility | MSAA EPS ~ 12 km | Narasapur GCS ~ 50 km |
| Nearest City | Machhlipatanam | |

Seismic Coverage Map

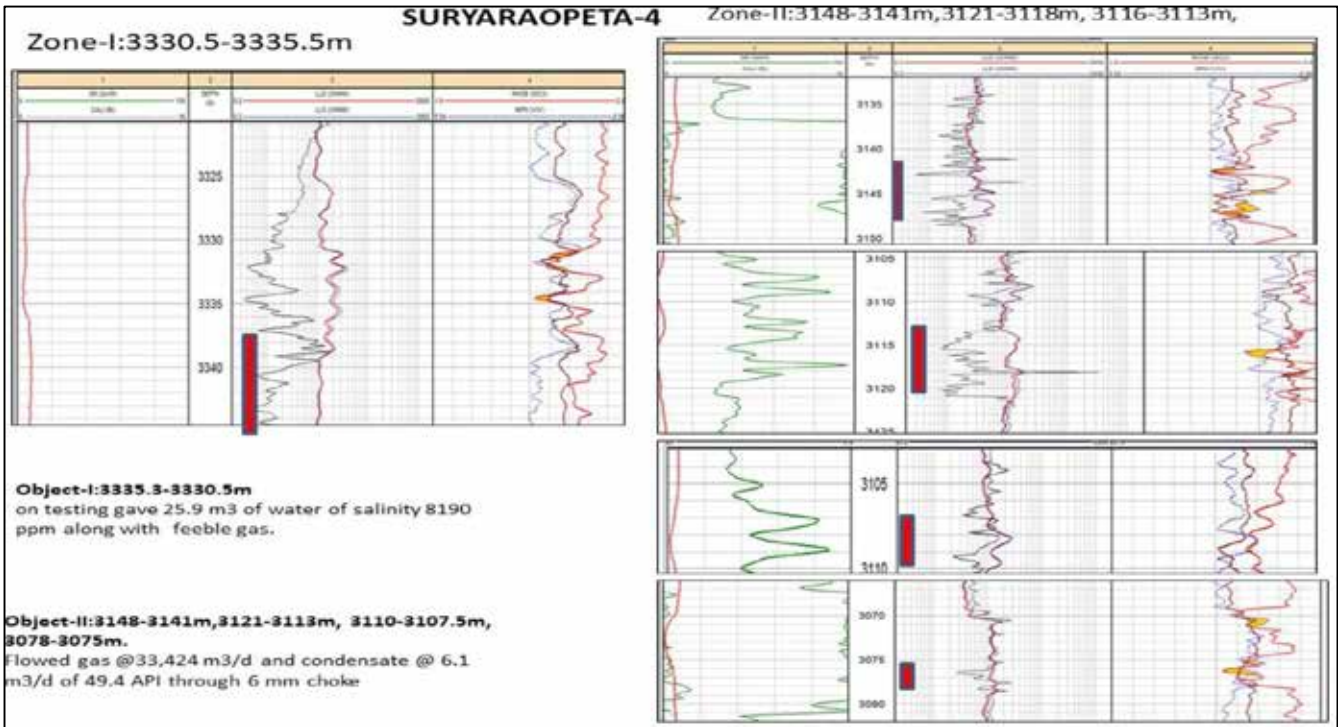


Seismic Section passing through Suryaraopeta-4

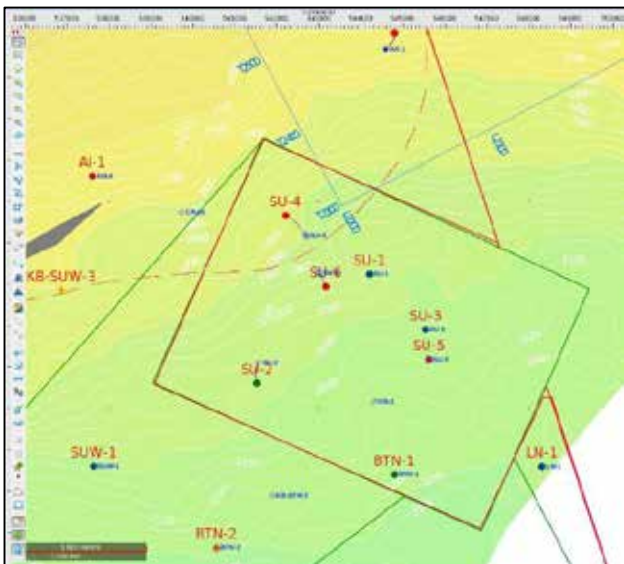


KG/ONDSF/SURYARAOPETA/2018

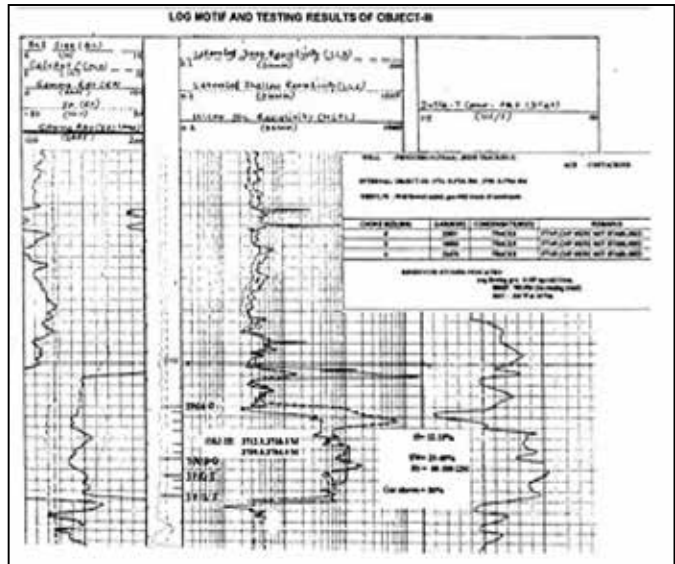
Testing results of Well Suryaraopeta-4



Time structure map of RAGHAVAPURAM SEQ 1



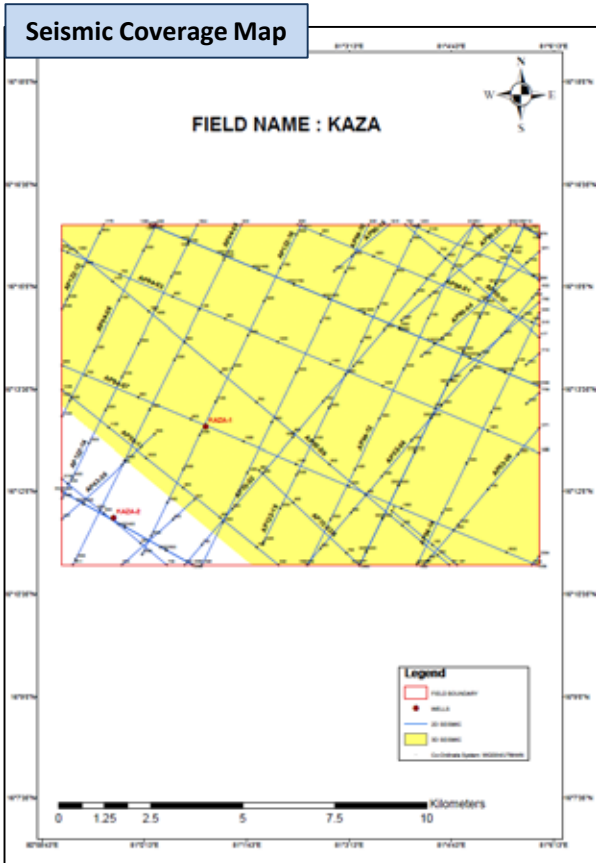
Testing results of Pendurru-1



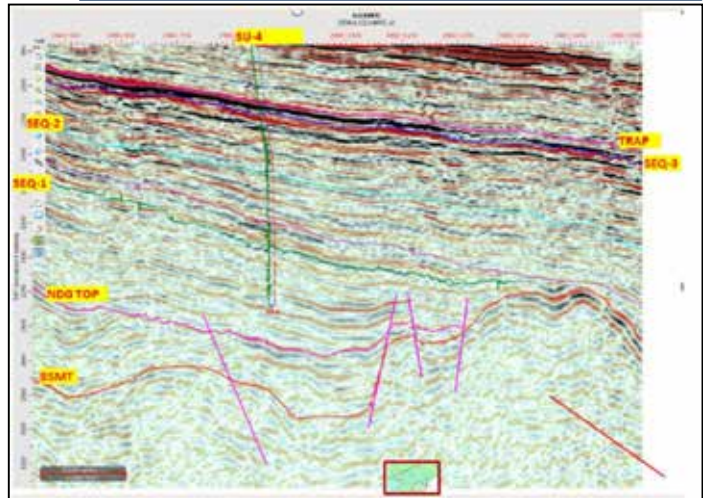
KG/ONDSF/KAZA/2018



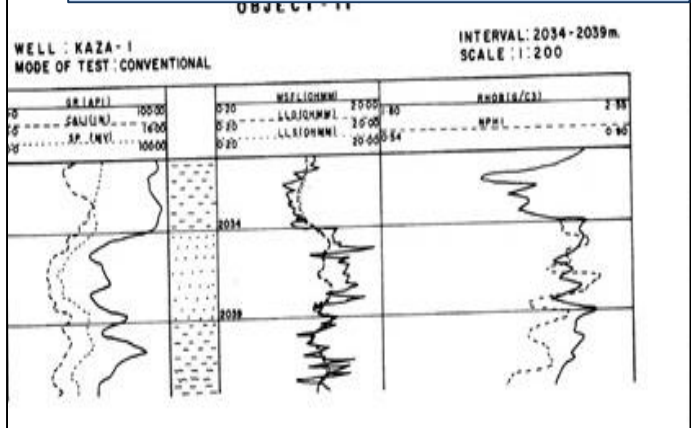
| Field(s) | Kaza |
|--------------------------|------------------------|
| Location | KG Onland |
| Area, SKM | 114.93 |
| Operator | ONGC |
| Year of discovery | 1985-86 |
| Main Payzone & Age | Cretaceous II |
| Oil Inplace, MMT | 0.02 (Cond.) |
| Gas Inplace, BCM | 0.01 |
| 3D Seismic, SKM | 107.96 |
| 2D Seismic, LKM | 248.25 |
| Wells drilled | 02 |
| Wells dry | 01 |
| Nearest Surface facility | Nandigama EPS (~20 km) |
| Nearest City | Machhlipatanam |



Geological cross-section of the area



Log motif



Initial testing results:
 Obj:-II : 2034-2039m. Flowed gas @22737m³/d with 20 bbls of water



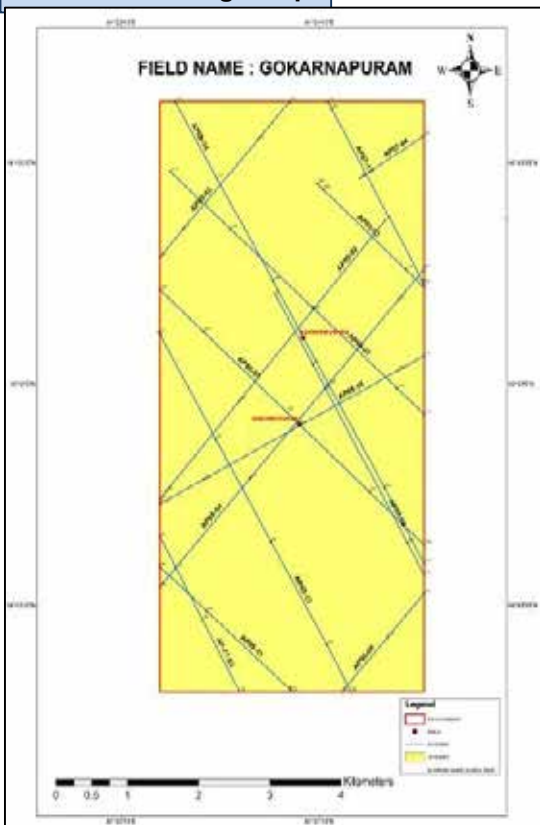
KG/ONDSF/GOKARNAPURAM/2018

Location Map

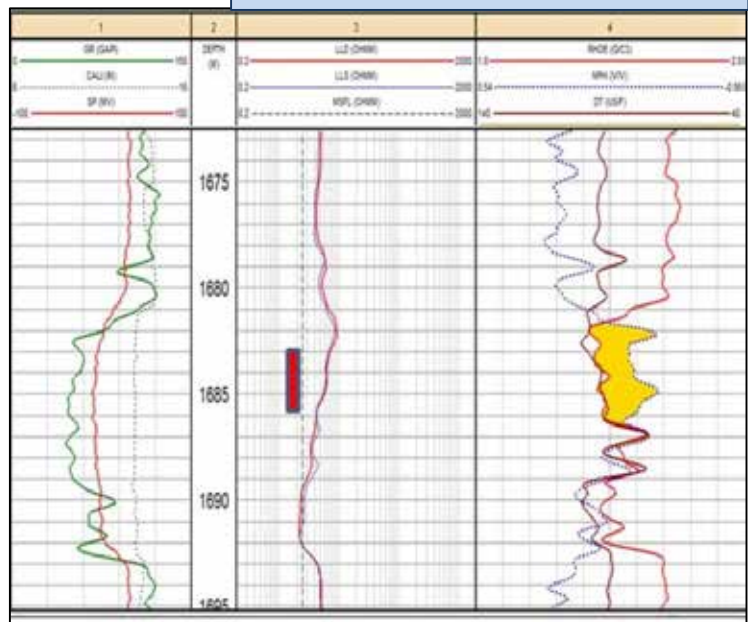


| | |
|---------------------------------|-------------------------------------|
| Field(s) | Gokarnapuram |
| Location | KG Onland |
| Area, SKM | 26.2 |
| Operator | ONGC |
| Year of discovery | 1998-99 |
| Main Payzone & Age | Tirupathi Sandstone (Up Cretaceous) |
| Oil Inplace, MMT | 0.10 (Cond.) |
| Gas Inplace, BCM | 0.03 |
| 3D Seismic, SKM | 26.21 |
| 2D Seismic, LKM | 54.23 |
| Wells drilled | 02 |
| Wells dry | 01 |
| Nearest Surface Facility | Narasapur GCS (~60 km) |
| Nearest City | Sompeta |

Seismic Coverage Map



Log Motif of Obj-I of Gokarnapuram-1



Initial testing results of Well Gokarnapuram-1
 Obj:1681-1684m Well flowed gas 55439 m³/d
 and condensate 9.61 m³/d

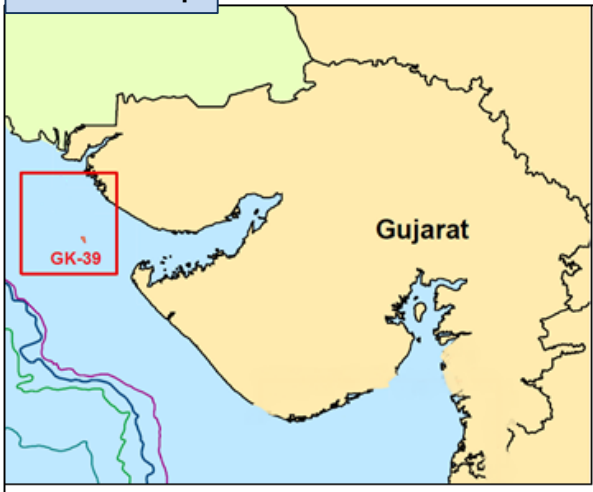




OFFSHORE

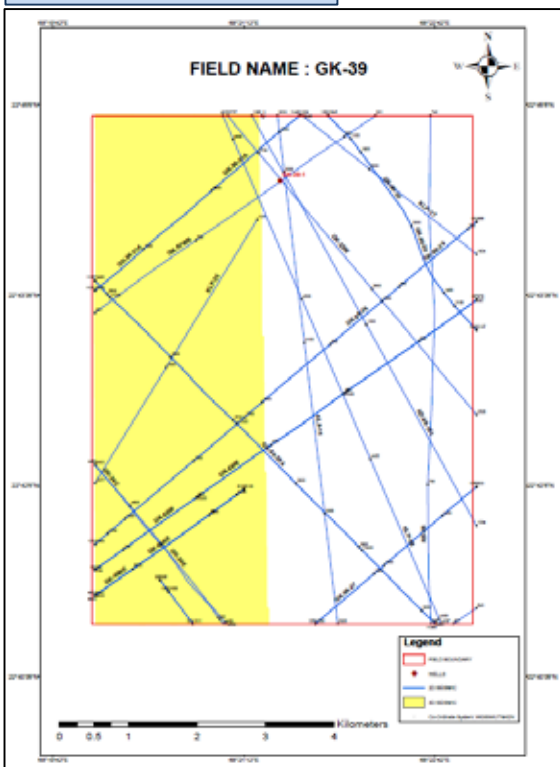
GK/OSDSF/GK39/2018

Location Map

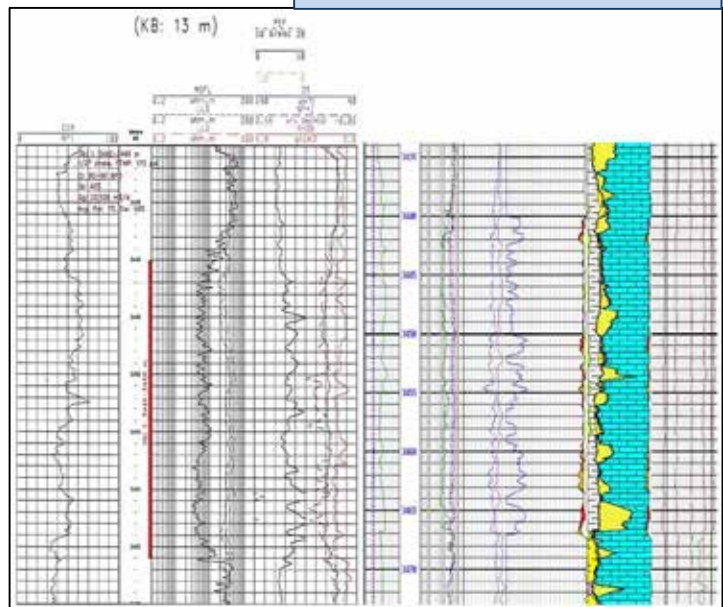


| | |
|--------------------------|-----------------------------------|
| Field(s) | GK-39 |
| Location | Kutch Offshore |
| Area, SKM | 37.92 |
| Year of discovery | 2000-01 |
| Main Payzone & Age | Naliya (Late Cretaceous) |
| Oil Inplace, MMT | Nil |
| Gas Inplace, BCM | 0.05 |
| 3D Seismic, SKM | 16.8 |
| 2D Seismic, LKM | 132.41 |
| Wells drilled | 1 |
| Wells dry | Nil |
| Nearest Surface facility | Nearest land point is about 80 km |
| Nearest City | Okha |

Seismic Coverage map



LOG MOTIF OF WELL GK-39-1



Initial testing details:

Well GK-39-1, Obj-I: 3466-3440m TCP-DST (3/4") Qg:29627m³/d, Ql:60-80 bpd, WC-60%, Sa-35145ppm



KG/OSDSF/G4/2018

Location Map

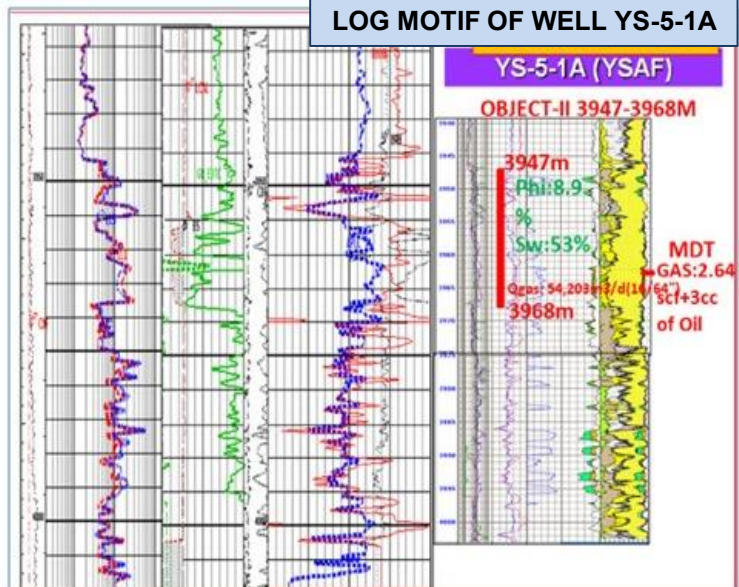


| > | YS-5 | G-4-6 |
|--------------------|--|-------|
| Location | KG Offshore | |
| Area, SKM | 91.85 | |
| Year of discovery | 2008-09 | |
| Main Payzone & Age | Golapalli/ Rift Fill Sediments, Early Cretaceous | |
| Oil Inplace, MMT | - | 44.10 |
| Gas Inplace, BCM | 1.69 | 2.60 |
| 3D Seismic, SKM | 91.85 | |
| 2D Seismic, LKM | 63.39 | |
| Wells drilled | 05 | |
| Wells dry | 01 | |
| Nearest City | Kakinada | |

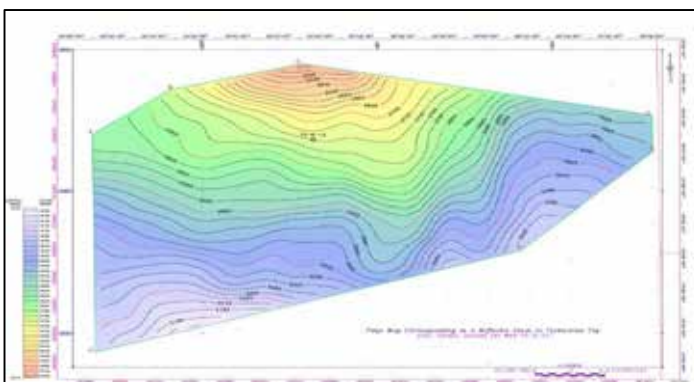
Seismic Coverage map



LOG MOTIF OF WELL YS-5-1A



Time structure map of CRETACEOUS



Initial testing details:

Well YS-5-1A, Object-III| Interval(m.):
3947-3969, Bean (1/64 inch): 16, SBHP:
10803 psi, Qgas: 54203 m3/d

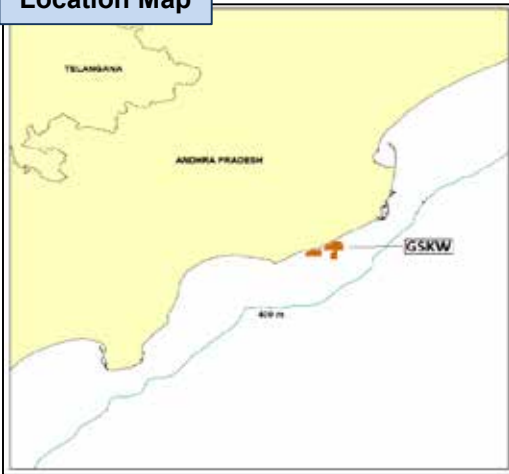
Well G-4-6, 4183-4185m, Qg-
74681m3/d. Qliq-1863blpd, API-44



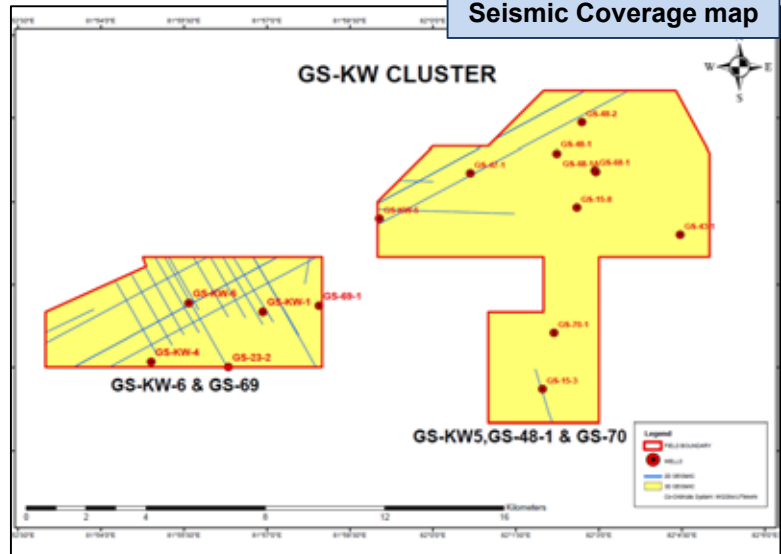
KG/OSDSF/GSKW/2018

| | | | | | |
|--------------------|------------------------|--------------------|------------------------|--------------------|------------------------|
| Field(s) | GS-70 | GS-48-1 | GS-KW-5 | GS-69 | GS-KW-6 |
| Location | KG Offshore | | | | |
| Area, SKM | 64.55 | | | 29.36 | |
| Year of discovery | 2011-12 | 2007-08 | | 2009-10 | |
| Main Payzone & Age | Vadaparu Shale, Eocene | Matsyapuri, Eocene | Vadaparu Shale, Eocene | Ravva Sand, Eocene | Vadaparu Shale, Eocene |
| Oil Inplace, MMT | 0.4 | - | 0.13 | 0.3 | 1.22 |
| Gas Inplace, BCM | 0.45 | 0.42 | 0.41 | 0.8 | 2.78 |
| 3D Seismic, SKM | 93.91 | | | | |
| 2D Seismic, LKM | 96.89 | | | | |
| Wells drilled | 01 | 07 | 02 | 01 | 04 |
| Wells dry | NIL | 01 | 01 | NIL | 01 |
| Nearest Platform | | GS-15-4 (~2.5 Km) | GS-23-1 (~2.5 Km) | | GS-23-1 (~1.5 Km) |
| Nearest City | Kakinada | | | | |

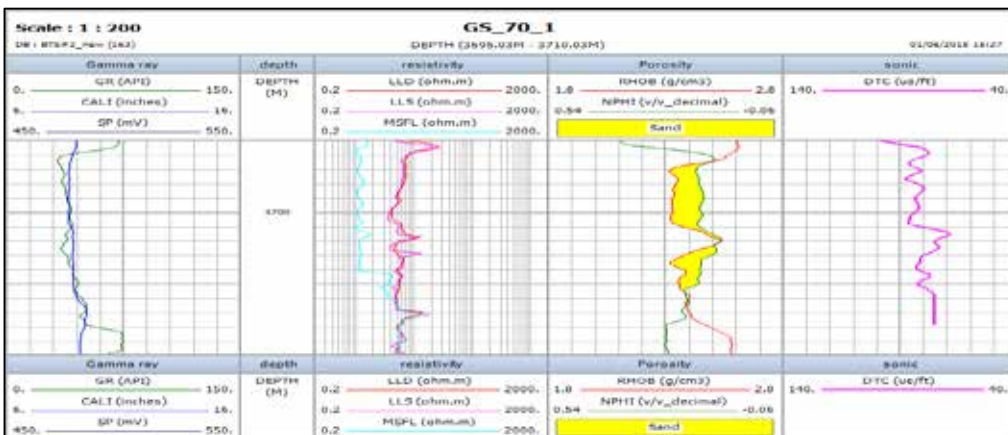
Location Map



Seismic Coverage map



LOG MOTIF OF WELL GS-70-1



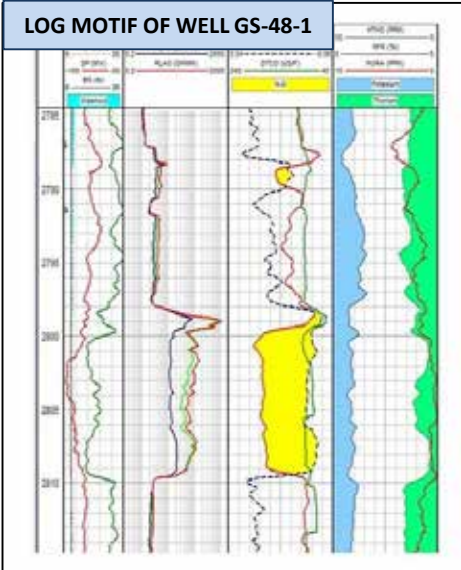
Initial testing details:

Obj-I:3697-370
3mQo-69.1
m3/d,
Qg-70,800
m3/d



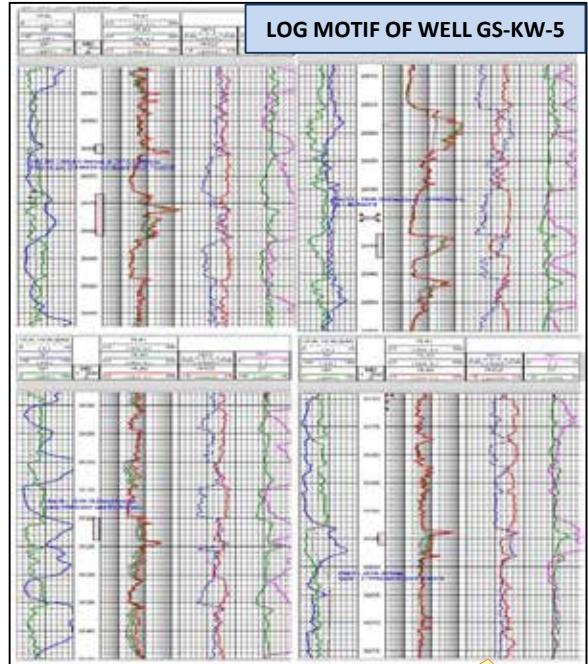
KG/OSDSF/GSKW/2018

LOG MOTIF OF WELL GS-48-1

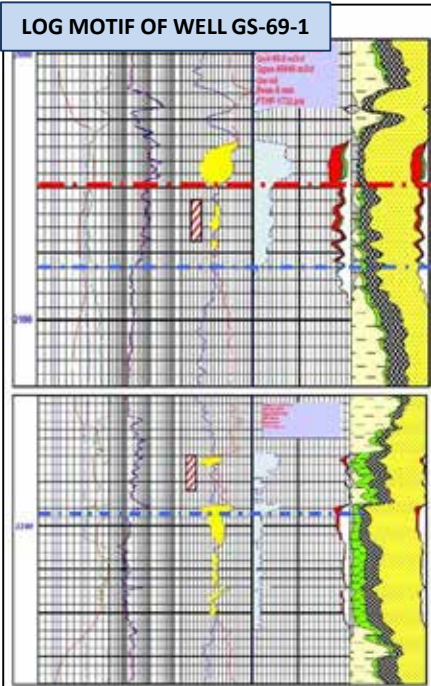


Initial testing details:
 2792-2797m,
 Qg :
 217484m3/d,
 Qc:7.88m3/d

LOG MOTIF OF WELL GS-KW-5



LOG MOTIF OF WELL GS-69-1



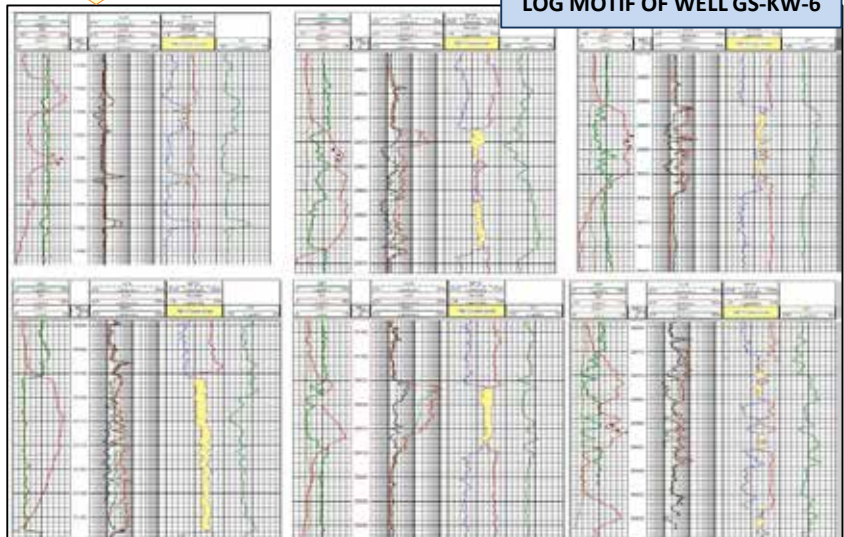
Initial testing details:
 Well GS-KW-6, 3272-3275.5m.
 Qo : 44.15 m3/d
 3206-3208.5m, Qg : 144574
 m3/d, Qc :52.5m3/d
 2872.5-2874.5m. Qg : 135480
 m3/d, Qo :74.4m3/d

 Well GS-KW-1, 2016-2019.5m,
 Qo-112m3/d, Qg-1097m3/d

Initial testing details:
 2838-2842m. Qg=169495
 m3/d; Qo=46.8m3/d;
 3064.5-3066m &
 3073.5-3081m.
 Qg=140194m3/d;
 Qo=72m3/d;
 : 3194-3196m.GAS & OIL;
 Qg=179982m3/d;
 Qo=192m3/d;

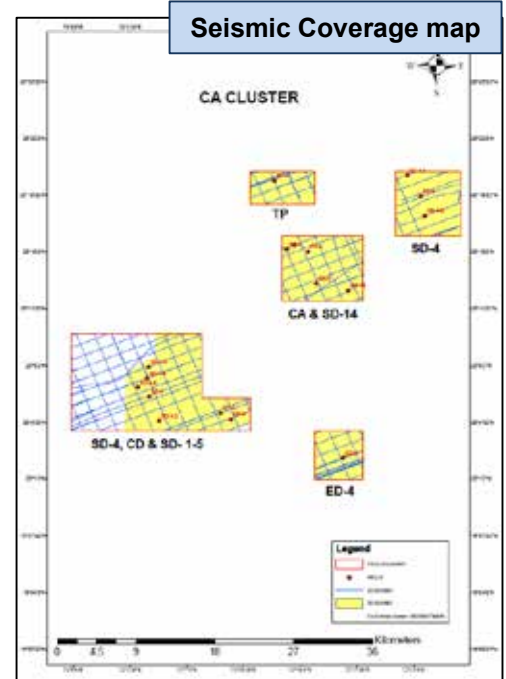
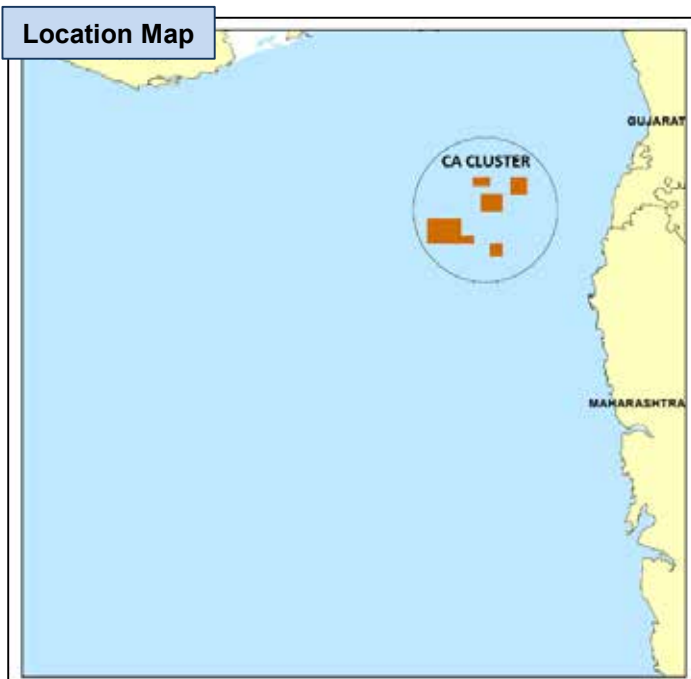
Initial testing details:
 2292-2293.5m: Qo-311.9bopd &
 gas 55882 m3/d 2232-2236m:
 Qo-189bopd & gas 123600m3/d
 2091-2094m: Q0-558.5 bopd &
 gas 46848 m3/d

LOG MOTIF OF WELL GS-KW-6



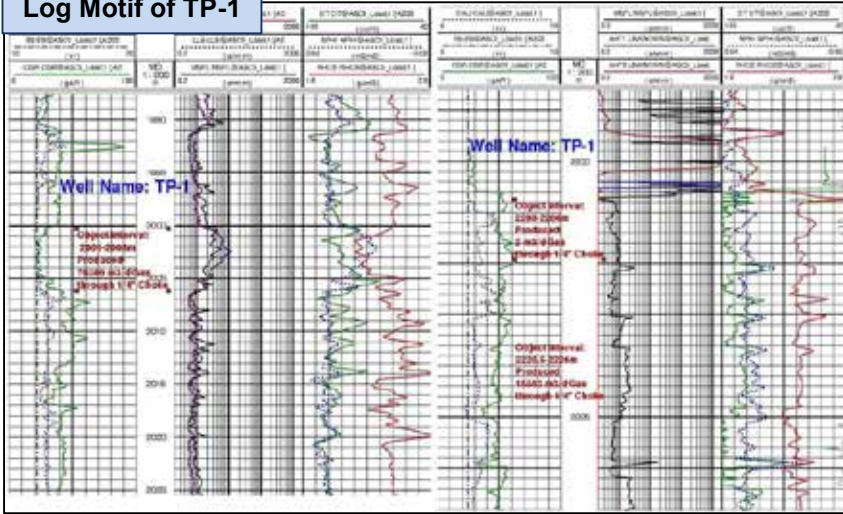
MB/OSDSF/CA/2018

| Field(s) | ED-4 | TP | SD-1 | SD-1-5 | CD | CA | SD-14 | SD-4 |
|--------------------|----------------------|----------------------------------|--------------------------|-------------------------|----------------------------------|--------------------------|-------------------------|-------------------------|
| Location | Mumbai Offshore | | | | | | | |
| Area, SKM | 28.95 | 25.69 | 173.65 | | | 64.27 | | 51.39 |
| Year of discovery | 2000-01 | 1999-2000 | 1988-89 | 2009-10 | 1986-87 | | 1989-90 | 1988-89 |
| Main Payzone & Age | Belapur (Mid Eocene) | Mahuva & Daman (Early Oligocene) | Mahuva (Early Oligocene) | Daman (Early Oligocene) | Mahuva & Daman (Early Oligocene) | Mahuva (Early Oligocene) | Daman (Early Oligocene) | Daman (Early Oligocene) |
| Oil Inplace, MMT | 0.03 | - | 0.9 | 0.7 | 0.05 | 1.93 | - | 0.15 |
| Gas Inplace, BCM | - | 0.33 | 4.52 | 2.43 | 0.04 | 3.51 | 0.07 | 0.18 |
| 3D Seismic, SKM | 267.7 | | | | | | | |
| 2D Seismic, LKM | 80.47 | 59.55 | 306.15 | | | 109.13 | | 67.7 |
| Wells drilled | 01 | 01 | 02 | 03 | 02 | 04 | 01 | 03 |
| Wells dry | Nil | Nil | 01 | 02 | 01 | 01 | Nil | 02 |
| Nearest City | Mumbai | | | | | | | |



MB/OSDSF/CA/2018

Log Motif of TP-1



Initial testing details:

Well TP-1

Interval(m.): 2003-2001 Qcond: 75 bcpd| Qgas: 186213 m3/d
Interval(m.): 2226.0 - 2220.5|
Qgas:0.5496073 scmd| API: 50.28 deg.

Well ED-4

1910-1920m On R/O 7.2 bbls of oil

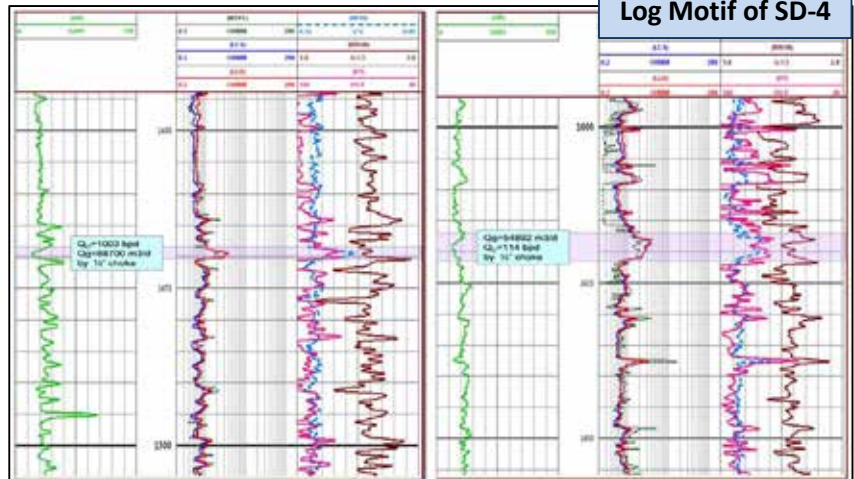
Initial testing details:

Well SD-4, 1468.5-1470.5m
Qo:1003 bopd Qg:88700 m3/d
API:43.5 and 1617- 1621.5m Qg:
54,892 m3/d Qc:114 bpd

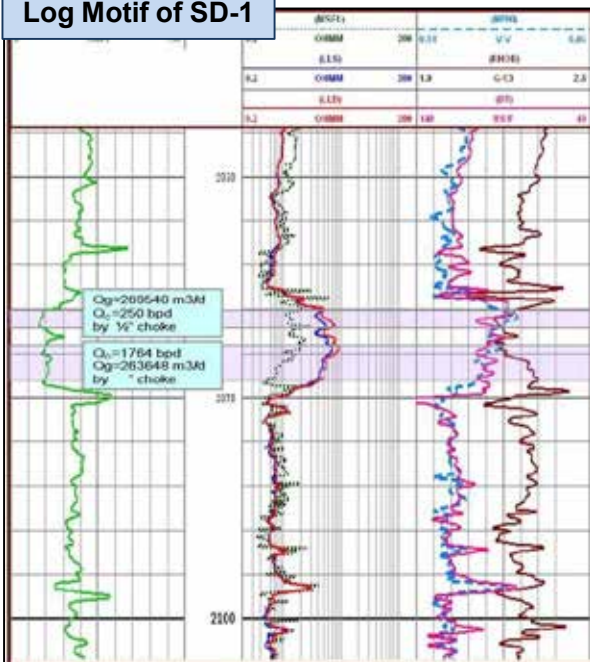
Initial testing details:

Well SD-1, 2069-2073m. Oil @
1025 BPD & gas @ 220102m3/d
2065-2067m, gas @ 269540m3/d &
Qcond 250 BPD

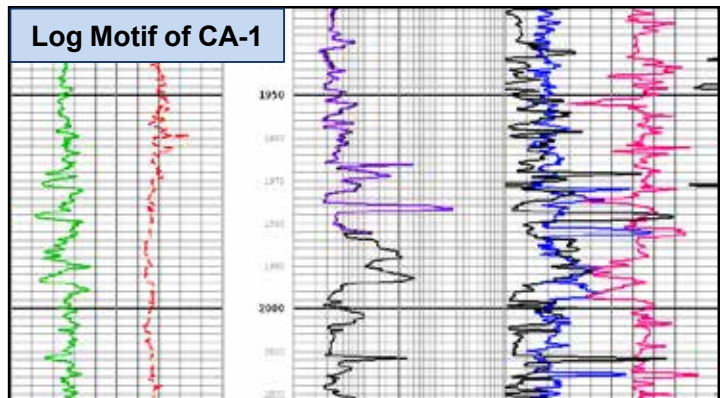
Log Motif of SD-4



Log Motif of SD-1



Log Motif of CA-1



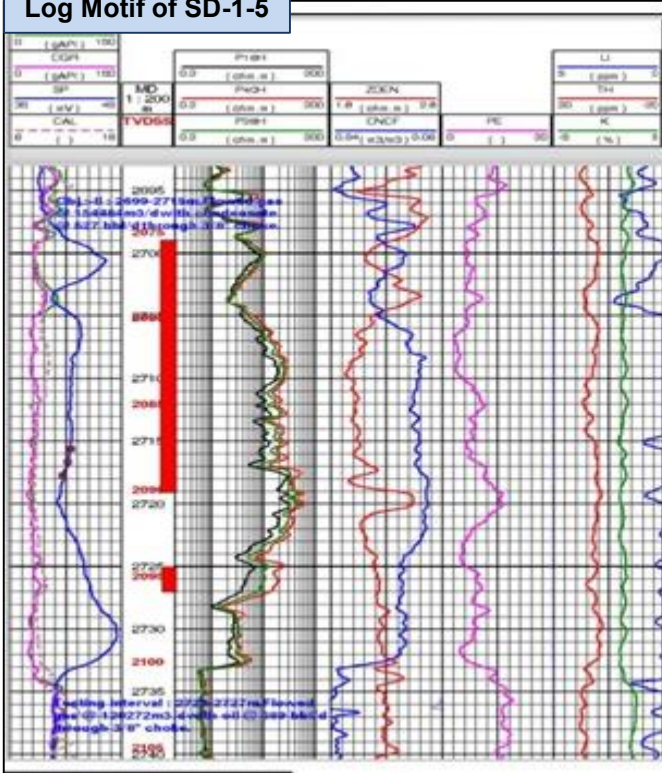
Initial testing details:

Well CA-1, 1982-87m, Oil-153m3/d & Gas-22,774m3/d;
1970-67m, Qc-40 bpd, Qg-38,135m
Well CA-4, 1872-74m, Qg-7642m3/d
Well CA-6, 1892-94m Qc-58bpd, Qg-53781 m3/d; 1884-
86m, Qc-181bpd, Gas-13,8718m3/d

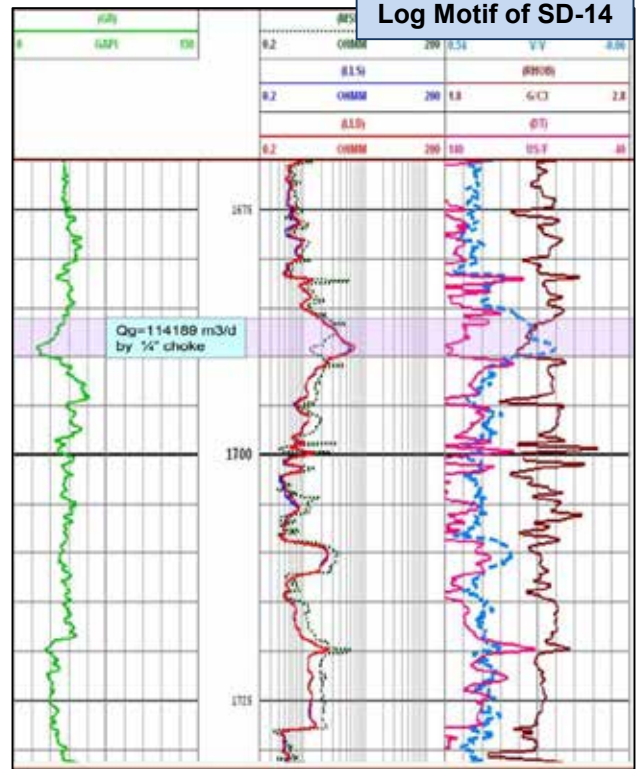


MB/OSDSF/CA/2018

Log Motif of SD-1-5



Log Motif of SD-14



Initial testing details:

Well SD-1-5, 2725-2727m. Qo 389bbl, Qg- 120272m3/d; 2699-2719m gas & condensate @ 154,484m3/d and 527bbl

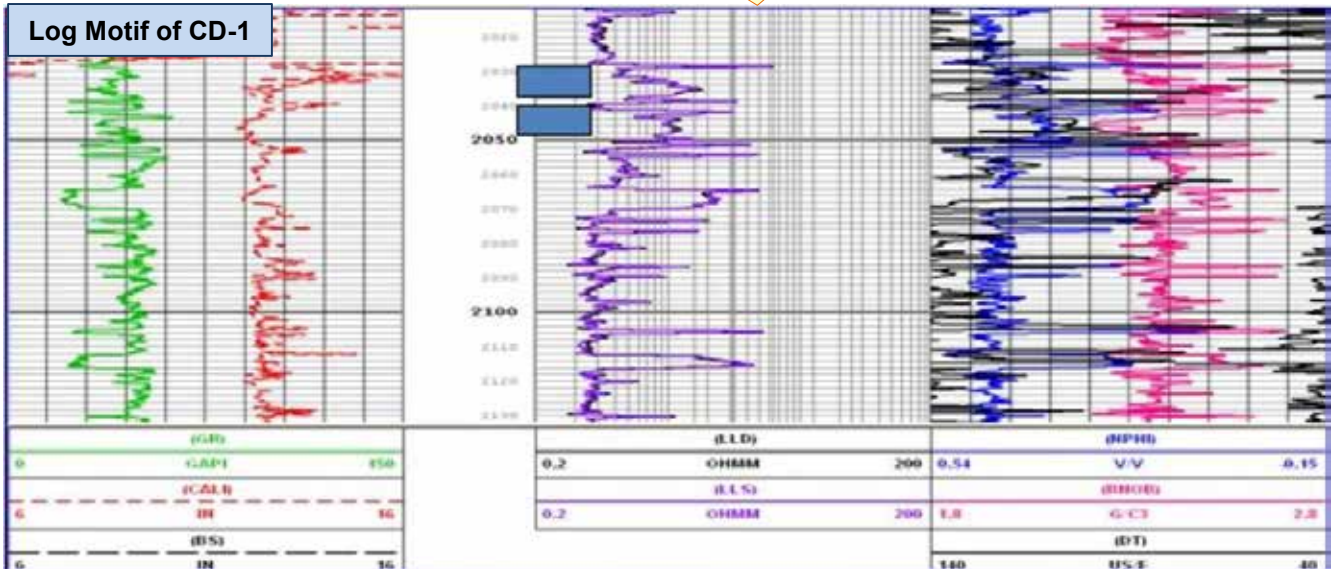
Initial testing details:

CD-1 2029.5-2035, 2041.5-2047.5m, Qoil: 3413 bopd, Qgas: 238559 m3/d

Initial testing details:

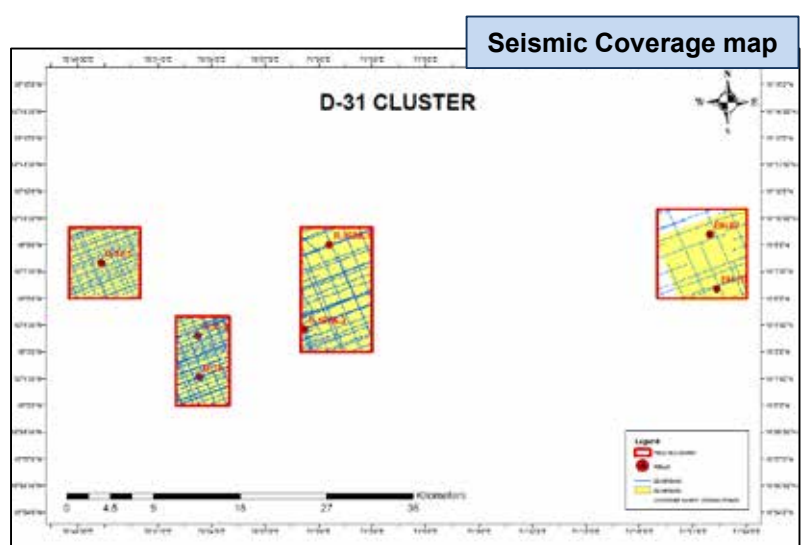
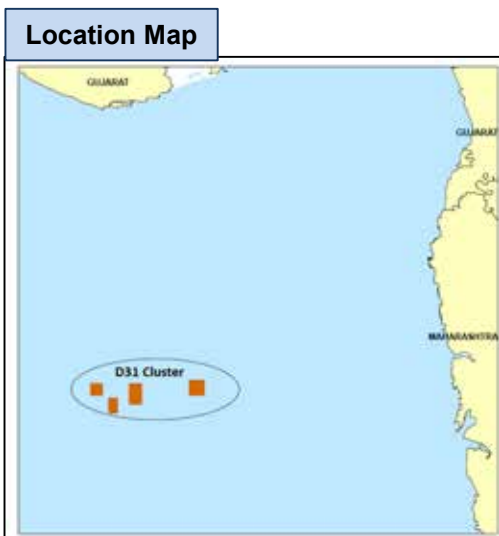
SD-14, Gas- 114,189 from Daman pay, Reservoir Depth & Pressure: ~1660m, ~4092psi

Log Motif of CD-1



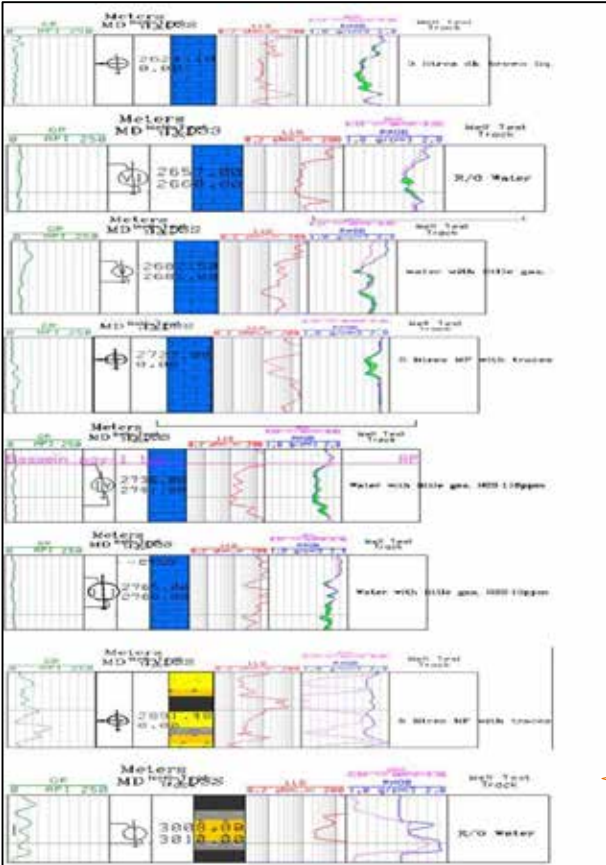
MB/OSDSF/D31/2018

| Field(s) | B-192A | D-31 | D-12 | BH-67 |
|--------------------|--|---|---|--|
| Location | Mumbai Offshore | | | |
| Area, SKM | 90.59 | 48.55 | 51.76 | 80.87 |
| Year of discovery | 1991-92 | 2000-01 | 1981-82 | 2011-12 |
| Main Payzone & Age | Mukta (Oligocene) | Bassein (Eocene) | Bandra (Miocene) | Basal Clastics/Panna (Paleocene-Early Eocene) |
| Oil Inplace, MMT | 1.93 | 3.78 | - | - |
| Gas Inplace, BCM | 0.3 | 0.53 | 0.61 | 0.24 |
| 3D Seismic, SKM | 253.44 | | | |
| 2D Seismic, LKM | 485.85 | 377.88 | 520.42 | 180.45 |
| Wells drilled | 2 | 2 | 1 | 2 |
| Wells dry | 1 | 1 | NIL | NIL |
| Nearest Platform | B-192-5 platform (~6 km) & B192-A2 (~9 km) | B192-8 platform (~ 6.9 km) and B192-5 platform (~14.6 km) | B192-5 platform (~18km) and B192-8 platform (~15.5 km) | BH67 is located away from platform IE (10.5 km) |
| Nearest City | Mumbai | | | |

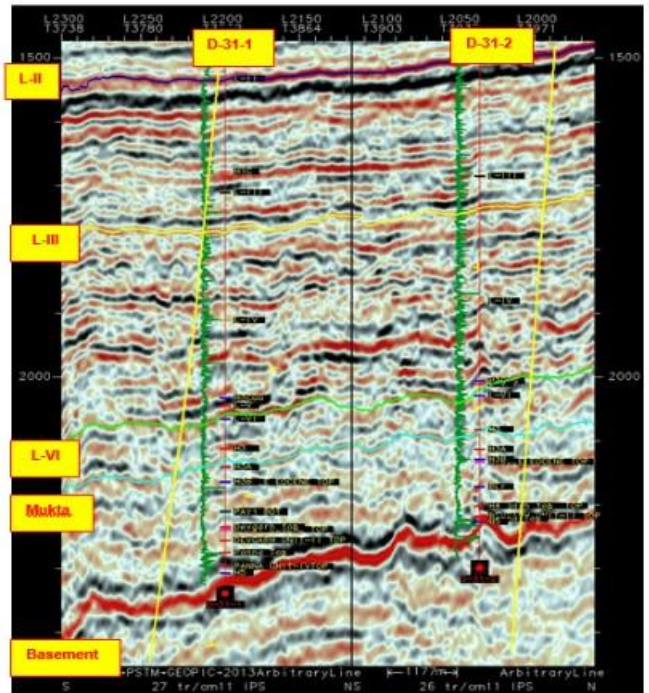


MB/OSDSF/D31/2018

Log Motif of D-31-1



Seismic sections along the wells D-31-1 & D-31-2

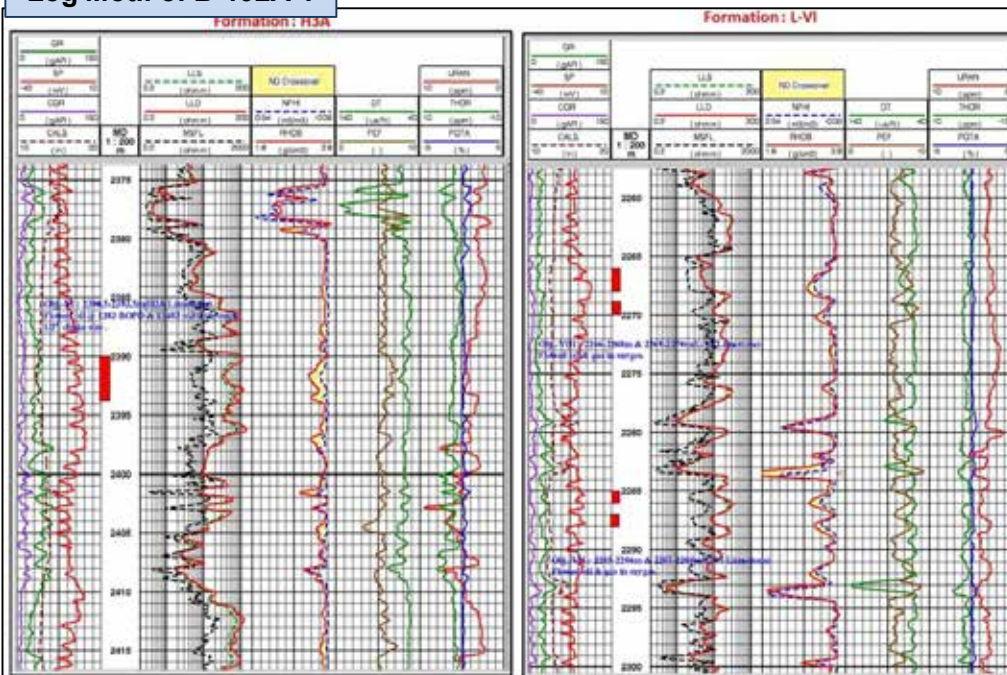


Initial testing details:

Initial testing details of D-31-1:

2794-2799m (5/8") Qg:10,873m³/d, Ql:864bpd

Log Motif of B-192A-1



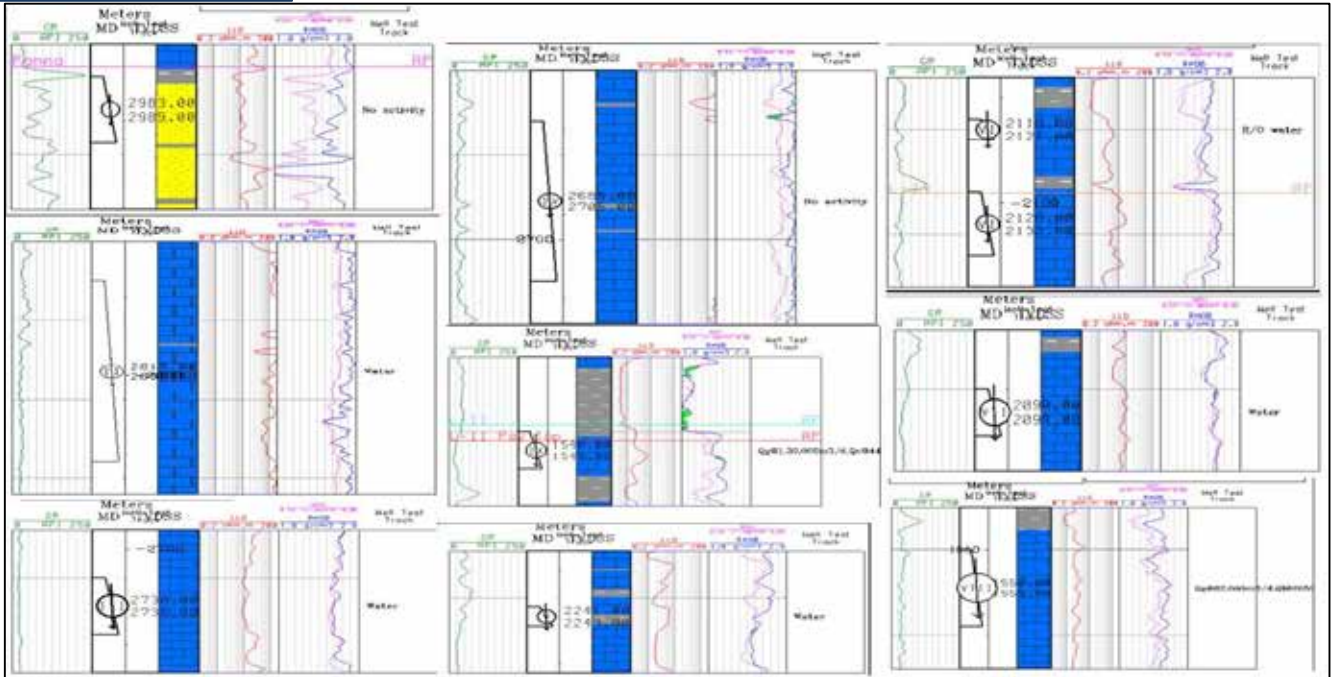
Initial testing details:

2390.5-2393.5m(H3 A). Flowed oil @1283 BOPD & gas @ 11482m³/d through 1/2" choke

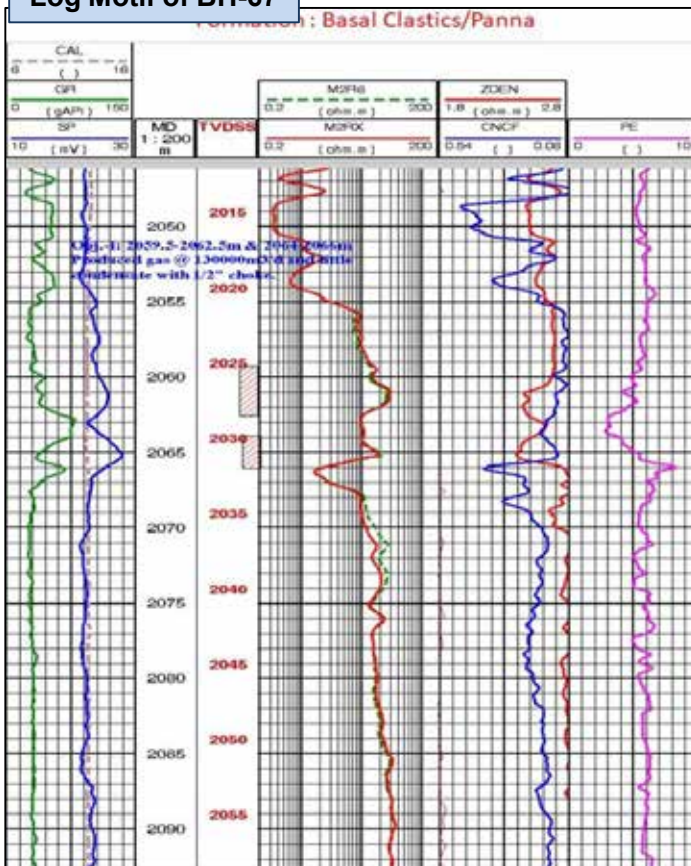


MB/OSDSF/D31/2018

Log Motif of D-12-1



Log Motif of BH-77



Initial testing details:

1540-1544m Qg:1,36,000 m3/d, Qc:440 bpd;
 1550-1555, Qg:82,000m3/d, Qc:205 bpd;
 1550-1559m, Qg:12,000m3/d, Qc:20 bpd WC
 80%. All rates with 1/2

Initial testing details of BH-67:

2059.5-2062.5m & 2064-2066m.
 Produced gas @ 130000m3/d and little
 condensate with 1/2" choke size.

Initial testing details of BH-70:

2111-2106m TCP. Qo:416bpd, Qg:726m3/d
 (1/2")



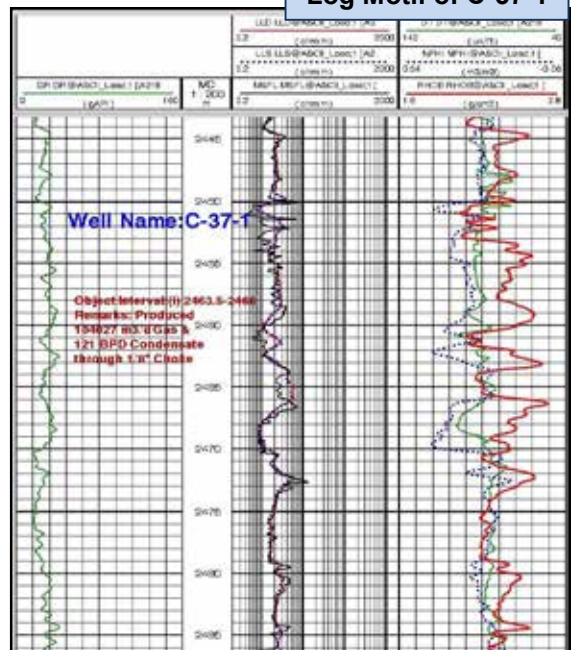
MB/OSDSF/NMT/2018

| Field(s) | C-37 | C-43 | NMT |
|--------------------|----------------------------------|-------------------------|--------------------------|
| Location | Mumbai Offshore | | |
| Area, SKM | 38.49 | 25.66 | 32 |
| Year of discovery | 1994-95 | 1995-96 | 2003-04 |
| Main Payzone & Age | Mahuva & Daman (Early Oligocene) | Daman (Early Oligocene) | Mahuva (Early Oligocene) |
| Oil Inplace, MMT | - | - | - |
| Gas Inplace, BCM | 1.33 | 0.3 | 5.49 |
| 3D Seismic, SKM | 25.78 | | 36.05 |
| 2D Seismic, LKM | 64.9 | | 85.44 |
| Wells drilled | 2 | 2 | 1 |
| Wells dry | 1 | Nil | Nil |
| Nearest Platform | - | - | - |
| Nearest City | Mumbai | | Diu |

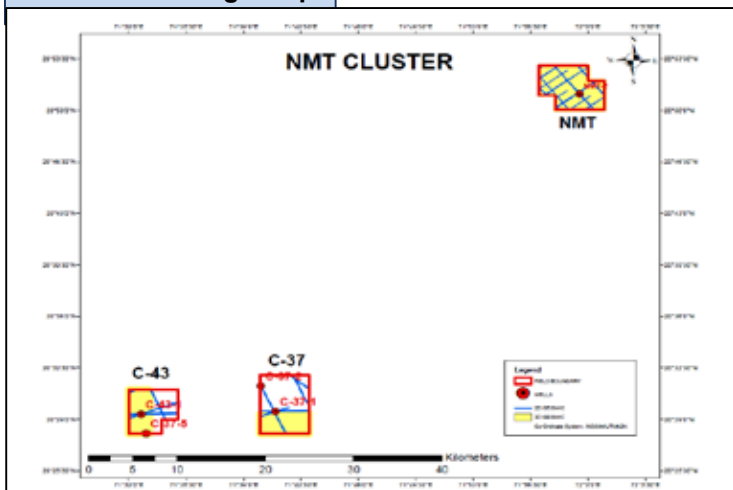
Location Map



Log Motif of C-37-1



Seismic Coverage Map



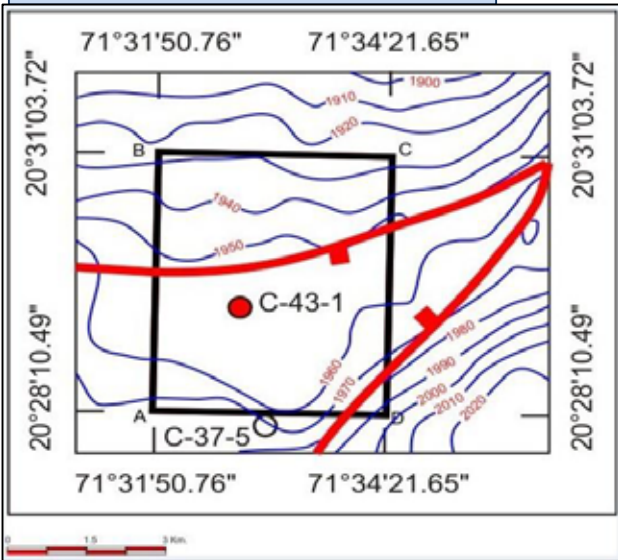
Initial testing details of C-37-1:

2645.5-2643| Bean(1/64 inch): 8| Qcond: 60 bcpd| Qgas: 41709 m3/d API: 48.9 deg
 2642-2641, 2639-2638| Qgas: 11227 m3/d
 Interval(m.): 2466-2463.5| Remarks: Qgas @ 41535 m3/d, Qcond @ 51 bbl/d.

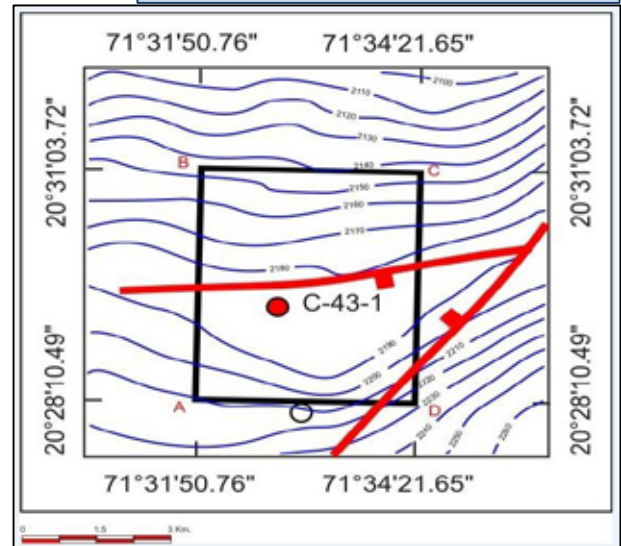


MB/OSDSF/NMT/2018

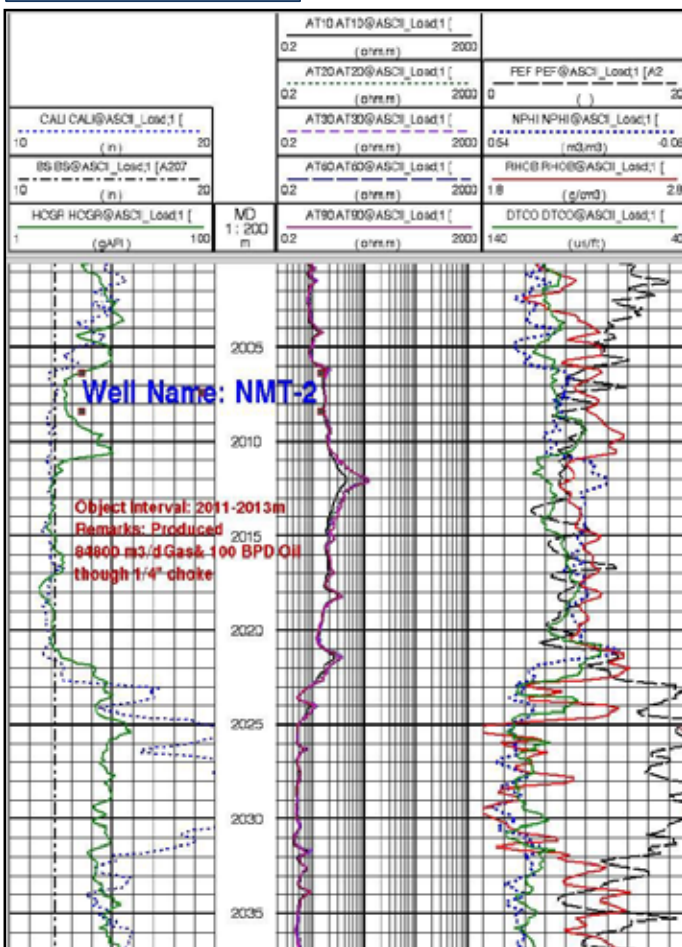
Depth structure map of DAMAN



Depth structure map of MAHUVA



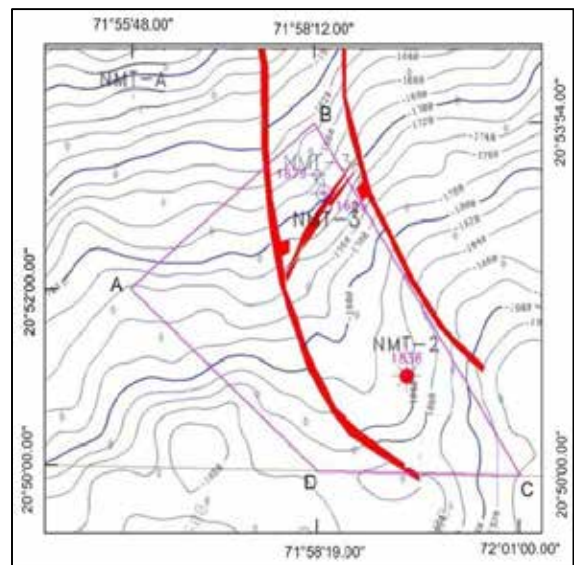
Log Motif of NMT-2



Initial testing details of C-43-1:
2289-2283m Qg- 16596 m3/d

Initial testing details of NMT-2:
2011-2013m.Qg : 84800m3/d,Qc: 100 BPD.Choke : 1/4"

Time Structure Map of Mahuva through NMT-2



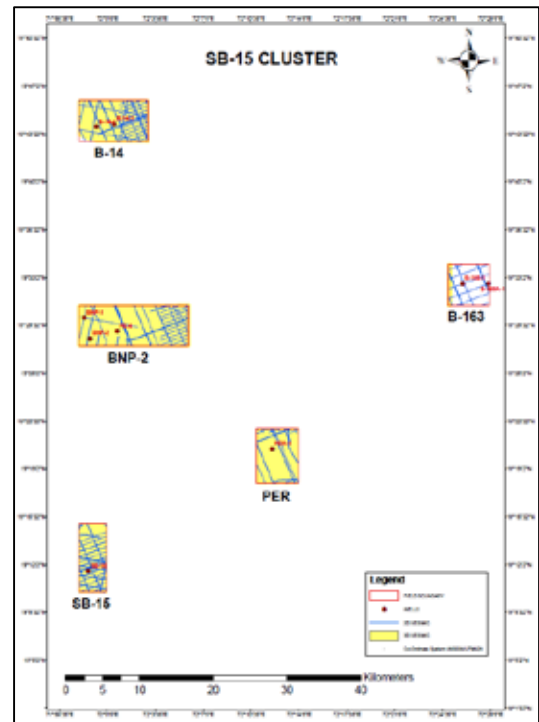
MB/OSDSF/SB15/2018

| Field(s) | B-163 | PER | BNP-2 | SB-15 | B-14 |
|--------------------|---------------------------------------|---|--------------------------------|---|-------------------|
| Location | Mumbai Offshore | | | | |
| Area, SKM | 29.04 | 38.77 | 77.61 | 32.39 | 48.35 |
| Year of discovery | 1990-91 | 2010-11 | 2008-09 | 2008-10 | 2000-01 |
| Main Payzone & Age | Mukta (Oligocene) | Panna (Paleocene to Early Eocene) | Bandra/ Tapti (Middle Miocene) | Panna (Paleocene to Early Eocene) | Bassein (Eocene) |
| Oil Inplace, MMT | - | 2.14 | - | 4.62 | - |
| Gas Inplace, BCM | 0.14 | 0.93 | 0.7 | 2.19 | 0.07 |
| 3D Seismic, SKM | 218.1 | | | | |
| 2D Seismic, LKM | 73.54 | 83.27 | 188.94 | 161.22 | 183.11 |
| Wells drilled | 2 | 1 | 3 | 1 | 2 |
| Wells dry | Nil | Nil | 2 | Nil | Nil |
| Nearest Platform | Vasai East & Bassein Field ~ 45-50 km | 42" Gas/ BPB-Hazira-TL and 42" Gas/ BPA-Hazira-TL | 16" WF(Gas) B-55 to BCPA | 28" HP Gas/SHG-BPB and 30" Oil & 28" gas /MNW-LFP | B-127 FPSO~ 35 km |
| Nearest City | Mumbai | | | | |

Location Map

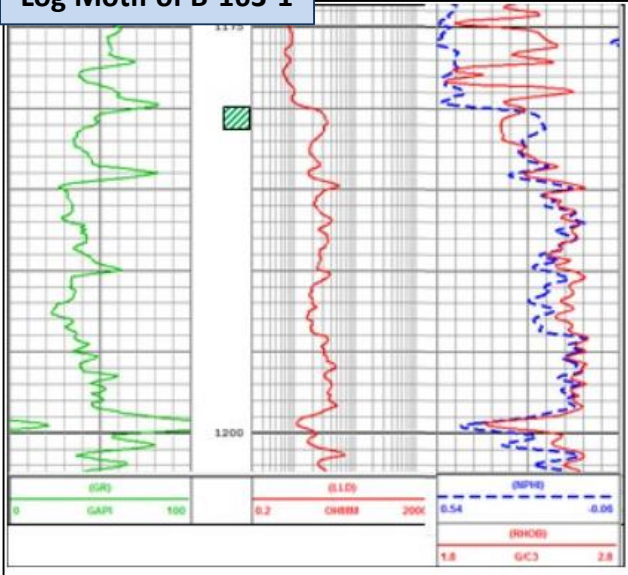


Seismic Coverage Map



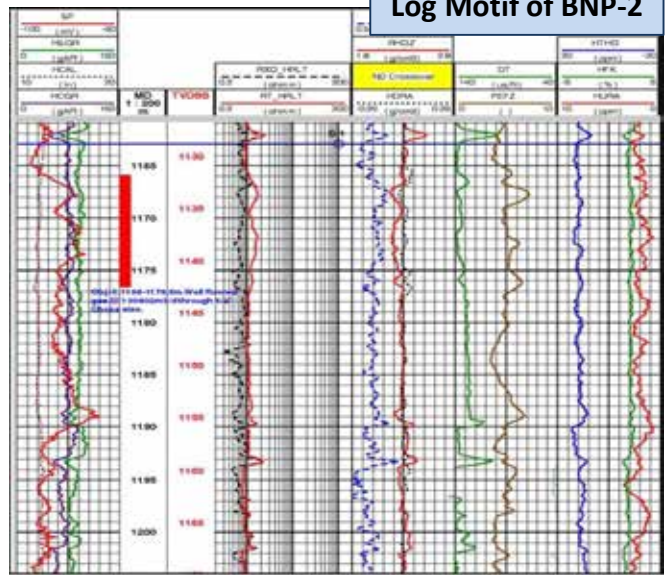
MB/OSDSF/SB15/2018

Log Motif of B-163-1



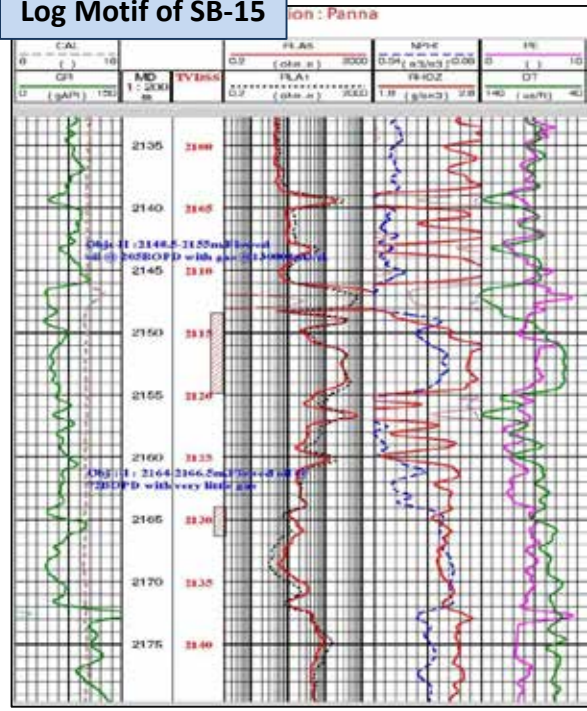
Initial testing details of B-163-1:
 1180-1182, Qg@1,50,392m3/day,
 1/2" choke

Log Motif of BNP-2



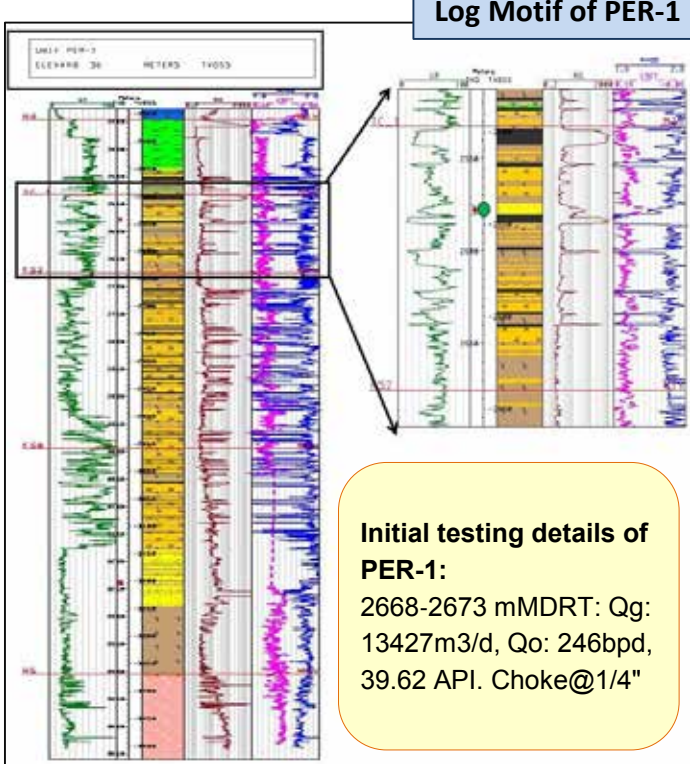
Initial testing details of BNP-2:
 1166-1176.5m. Qgas @ 130402
 through 1/2" choke

Log Motif of SB-15



Initial testing details of SB-15:
 2164-2166.5m. Flowed oil @ 72BOPD with
 very little gas 2148.5-2155m. Flowed oil @
 205BOPD with gas @ 130008m3/d

Log Motif of PER-1



Initial testing details of PER-1:
 2668-2673 mMDRT: Qg:
 13427m3/d, Qo: 246bpd,
 39.62 API. Choke@1/4"



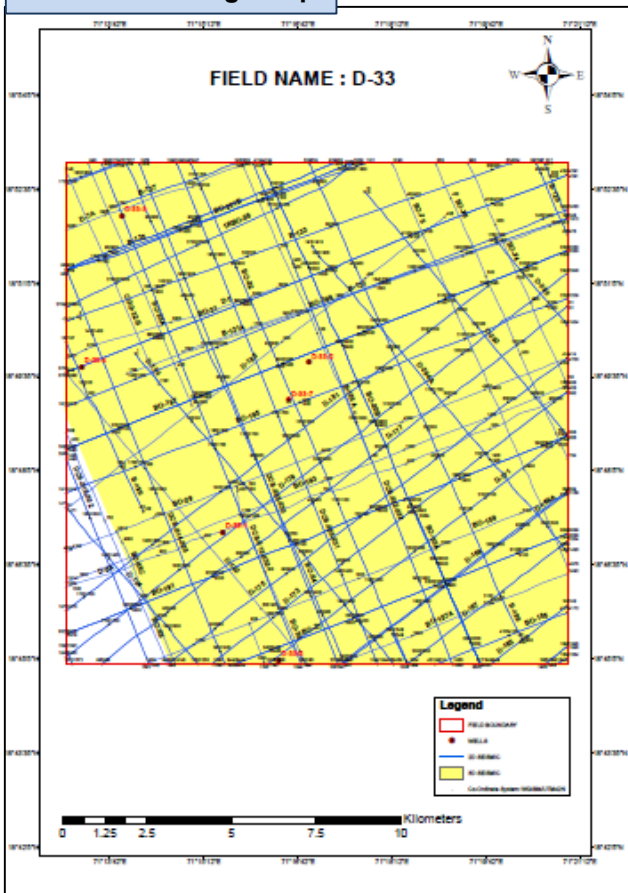
MB/OSDSF/D33/2018

Location Map

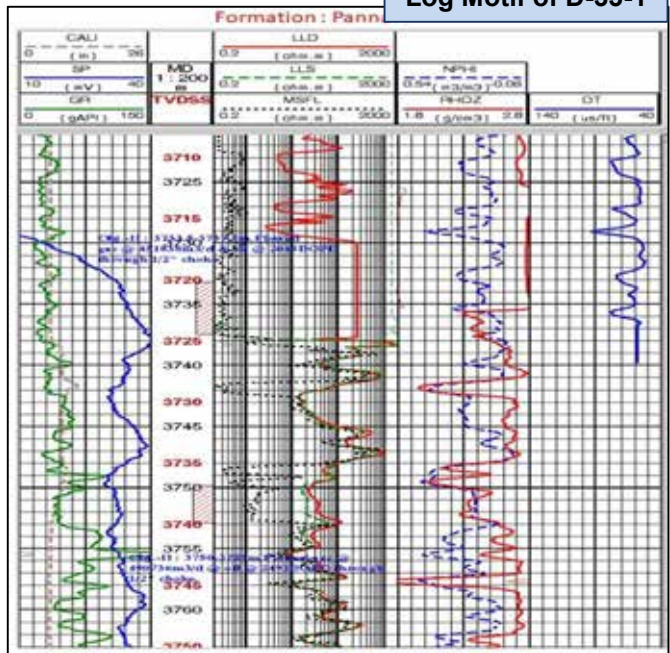


| | |
|--------------------|-----------------------------------|
| Field(s) | D-33 |
| Location | Mumbai Offshore |
| Area, SKM | 207.55 |
| Year of discovery | 2004-05 |
| Main Payzone & Age | Panna (Paleocene to Early Eocene) |
| Oil Inplace, MMT | 23.9 |
| Gas Inplace, BCM | 16.7 |
| 3D Seismic, SKM | 200.06 |
| 2D Seismic, LKM | 1240.18 |
| Wells drilled | 6 |
| Wells dry | 2 |
| Nearest City | Mumbai |

Seismic Coverage Map



Log Motif of D-33-1



Initial testing details

Well D-33-1: 3733.5-3737.5m, Flowed gas

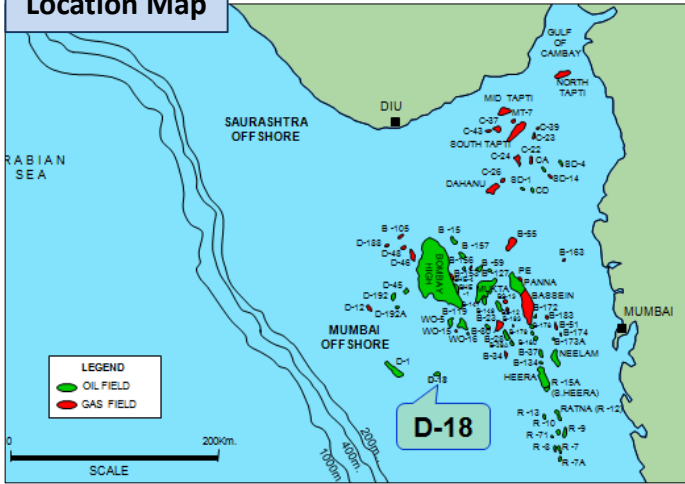
@451838m³/d and oil @ 2045BOPD through 1/2" choke and 3750-3753m, Flowed gas @490736m³/d and oil @ 2491BOPD through 1/2" choke

Well D-33-2, 3630-3634m, 394 bopd and Gas 162046 m³/d



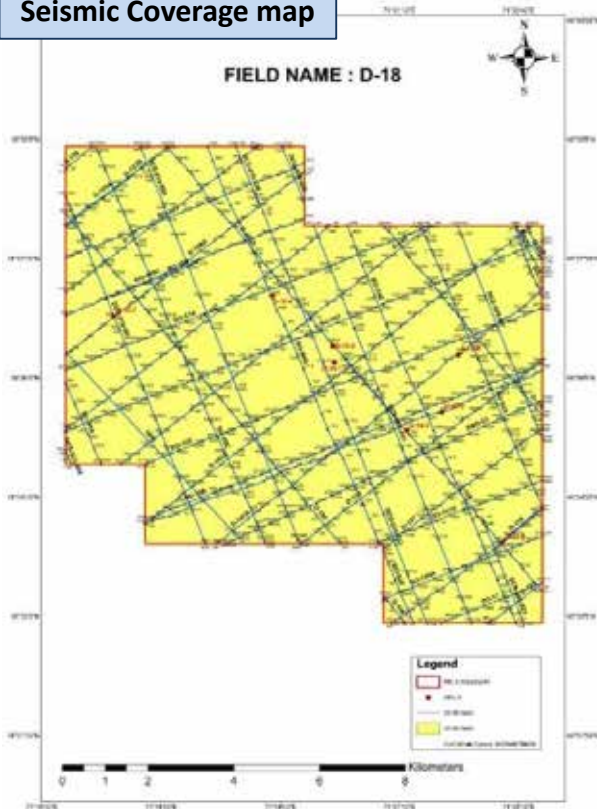
MB/OSDSF/D18/2018

Location Map

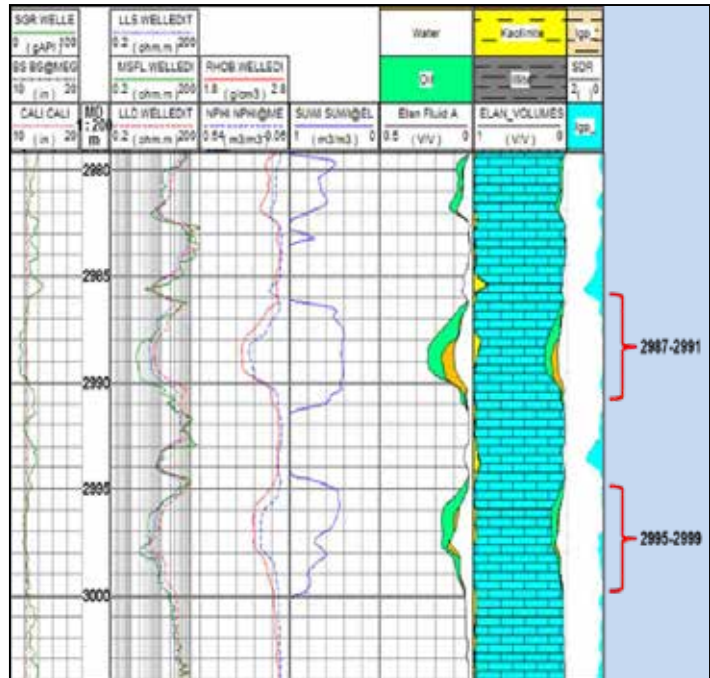


| | |
|---------------------------------|-------------------------|
| Field(s) | D-18 |
| Location | Mumbai Offshore |
| Area, SKM | 90.86 |
| Year of discovery | 1985-86 |
| Main Payzone & Age | L-VI & Mukta, Oligocene |
| Oil Inplace, MMT | 14.78 |
| Gas Inplace, BCM | 2.06 |
| 3D Seismic, SKM | 90.86 |
| 2D Seismic, LKM | 554 |
| Wells drilled | 8 |
| Wells dry | 1 |
| Nearest Surface facility | D1 FPSO ~ 25km |
| Nearest City | Mumbai |

Seismic Coverage map



Log motif – Well D-18-1



Initial testing details:

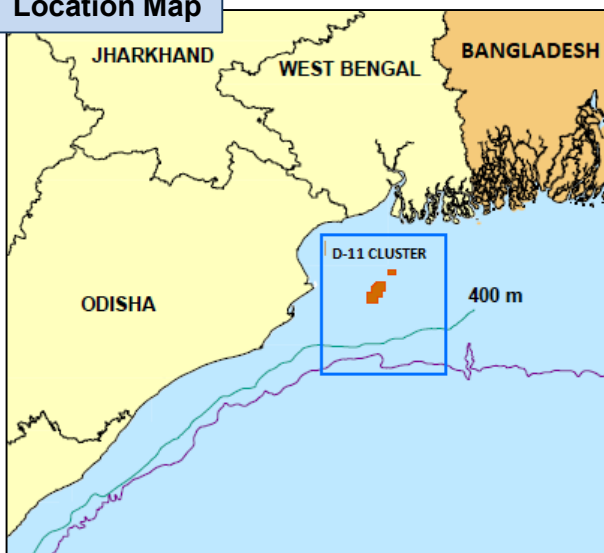
Top of formation: ~2987m Lower pay in Well D-18-1
 Reservoir Pressure: ~4250 psi , Lower pay in Well D-18-1
 Well D-18-1, Oil-3403bbl, Gas- 20508m3/d
 Well D-18-2, Oil-3656bbl, Gas- 16600m3/d
 Well D-18-3, Oil-1310bbl, Gas- 16978m3/d



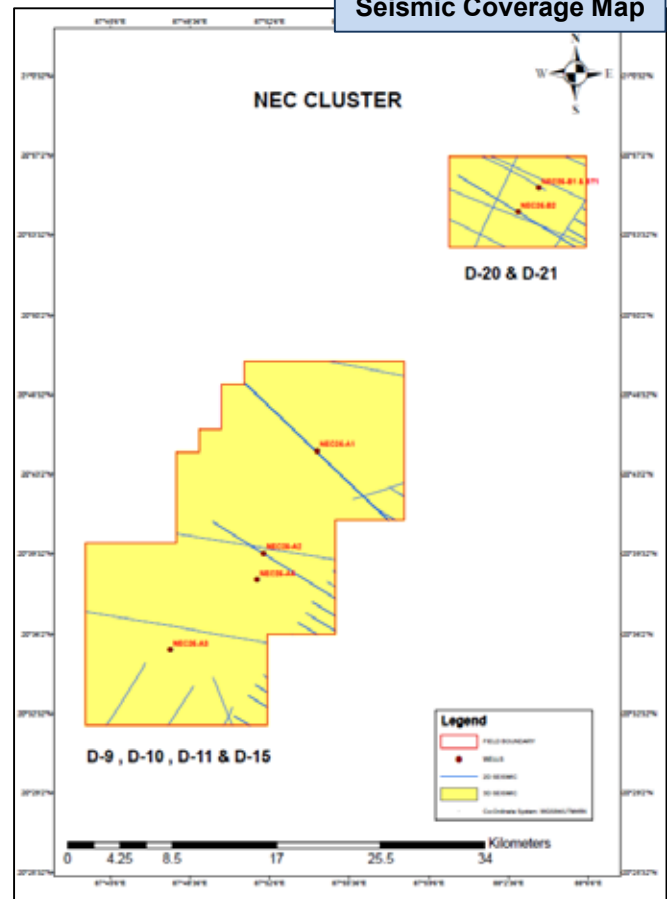
NEC/OSDSF/D11/2018

| Field(s) | D-9 | D-10 | D-11 | D-15 | D-20 | D-21 |
|--------------------|--|----------------|----------------|---------|---------|---------------|
| Location | Bengal-Purnea Basin/ Mahanadi Offshore | | | | | |
| Area, SKM | 464.66 | | | | 76.78 | |
| Year of discovery | 2004-05 | | | | 2005-06 | |
| Main Payzone & Age | Mid Miocene | Early Pliocene | Lower Pliocene | Miocene | | Upper Miocene |
| Oil Inplace, MMT | - | - | - | - | - | - |
| Gas Inplace, BCM | 5.15 | 1.08 | 6.48 | 1.78 | 0.44 | 1.61 |
| 3D Seismic, SKM | 541.44 | | | | | |
| 2D Seismic, LKM | 180.08 | | | | 71.81 | |
| Wells drilled | 04 | | | | 03 | |
| Wells dry | Nil | | | | 01 | |
| Nearest City | Bhubaneswar | | | | | |

Location Map

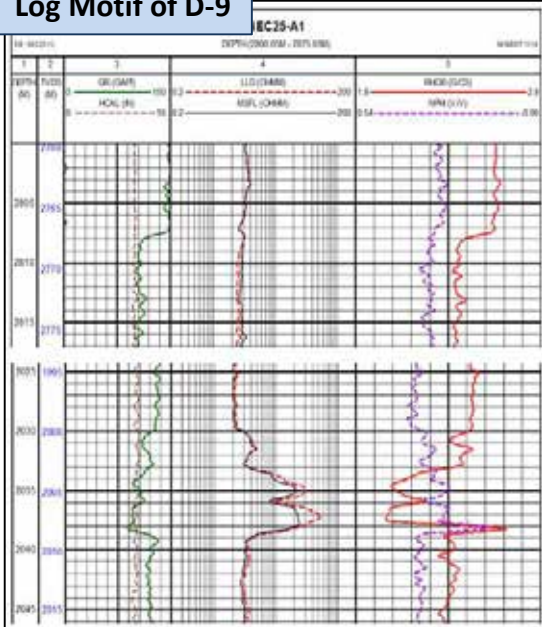


Seismic Coverage Map



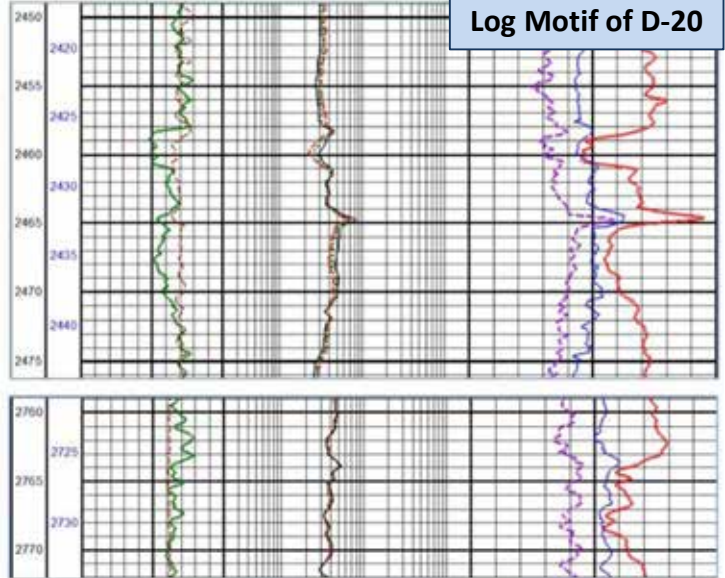
NEC/OSDSF/D11/2018

Log Motif of D-9



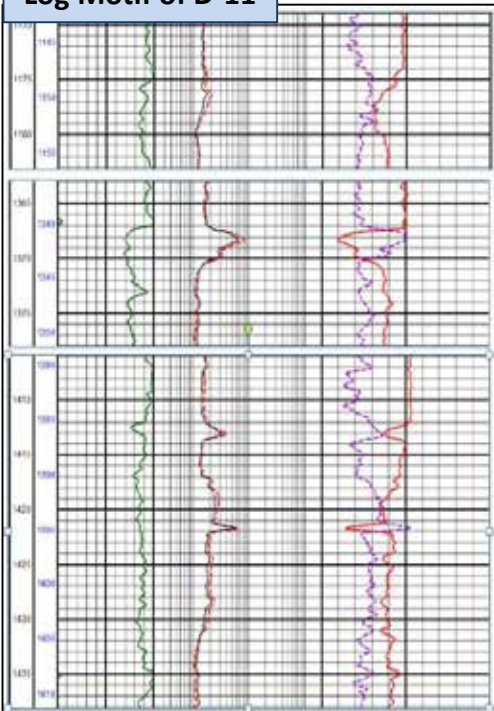
Initial testing details:
2033-2045m, Qg: 26.29MMSCFD @80/64".

Log Motif of D-20



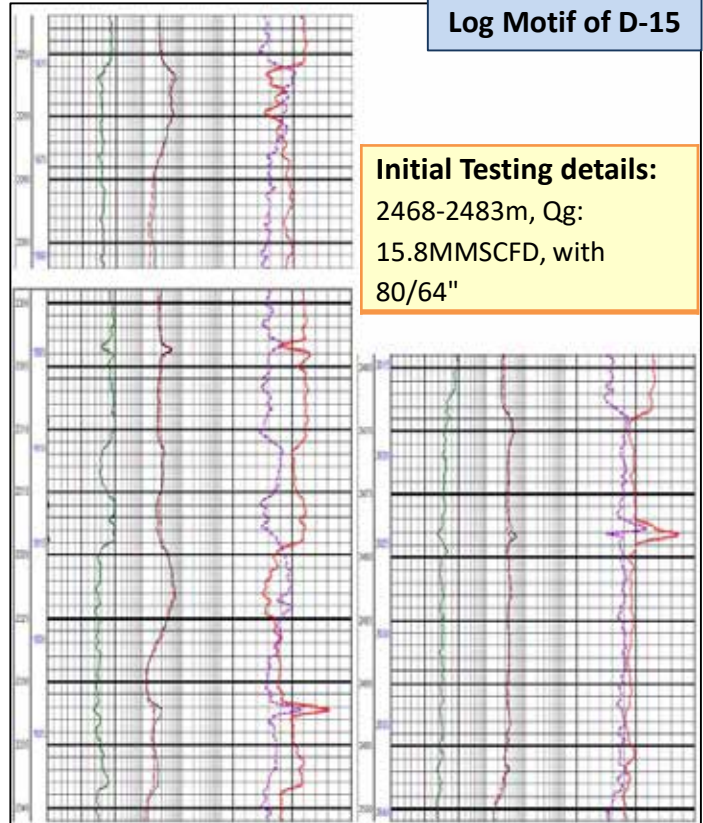
Initial testing details:
Well D-20; 2788-2797m, Gas; 5.4 mmscfd
Well D-21; 2578-2586m; Gas- 14.6 mmscfd

Log Motif of D-11



Formation Dynamic Testing details:
1411-1413m & 1417-1425m, Qg:
16.5MMSCFD with 48/64"

Log Motif of D-15



Initial Testing details:
2468-2483m, Qg:
15.8MMSCFD, with
80/64"



Contact us:

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(Under Ministry of Petroleum & Natural Gas)

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