SIMON PETROLEUM TECHNOLOGY

WELL: 2/7-14

Print: 1964 F	Units: M [✓ F]	Top	Bottom	Scale	TD
Length: 25 FT	Initials: JPK	190	11110	1/500	11 122

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SIMON PETROLEUM TECHNOLOGY SPT

COMPLETION LOG

F

11122 190

PHILLIPS PETROLEUM COMPANY

2 4 JUNI 1980
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COMPOSITE LOG

COMPANY Phillips Petroleum Co. Norway WELL NUMBER 2/7-14

COUNTRY Norway

CO-ORDINATES 56° 29' 20.299" N PRODUCTION LICENCE 018

03° 14' 2.646" E LICENCE BLOCK 2/7

DATE SPUDDED 9 August, 1979 DATE COMPLETED 28 January, 1980

ELEVATION: KB 82' DF WATER DEPTH 232'

TOTAL DEPTH 11,122' PBTD - STATUS Suspended oil well

CASING RECORD 30" at 487'; 20" at 1,997'; 13 3/8" at 5,006'; 9 5/8" at 10,065'; 7" at 11,057'

GEOLOGIST J. Miller, E. Waldman, and T. Andresen

REMARKS

TESTING AND COMPLETION SUMMARY DST No. 1 (10,980'-10,990') Recovered 73 barrels water cushion + 129.3 barrels formation fluid (85% water, 15% oil and water emulsion); DST No. 2 (10,700'-10,760') Flowed 1425 BOPD + 1.11 MMCFGPD + 9087 BWPD; DST No. 3 (10,583'-10,614') Flowed 2.07 MMCFGPD + 2494 BWPD; DST No. 4 (10,464'-10,536') Flowed 3476 BOPD + 3.05 MMCFGPD, with less than 1% water; DST No. 5 (10,336'-10,396') Flowed 476 BOPD + 507.4 MMCFGPD, with 5% sediment and water.

LEGEND

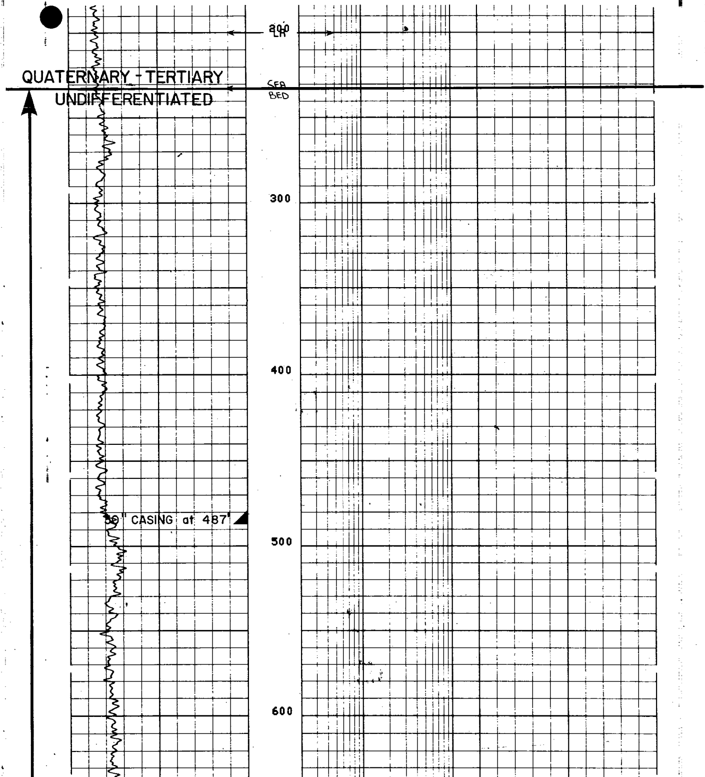
Percentage of Drill Cuttings with:
20 40 60 80
Trace Poor Fair Good Excell

▦	Limestone	⁘	Conglomerate	⁙	Porosity (one dot= 5%)
▦	Dolomite	◸	Breccia		
▦	Dolomitic Limestone	▤	Granite Wash (Arkose)	▥	Oil Stain or Oil Fluorescence and Cut in CCl_4
▦	Argillaceous Limest.	░	Sandstone	▥	Gas show in Mud or Cuttings
▦	Sandy Limestone	⁚	Siltstone	↕	Gas (positive D.S.T)
▦	Silty Limestone	▭	Sandy Shale	ϕ	Oolites
⌒	Coquina Limestone (50%+ fossil frag)	▭	Silty Shale	F	Fossils
⊥	Chalk	▭	Shale & Clay, light grey, green, red, brown	P	Pyrite
⊤	Marl	▤	Shale, dark grey - black	~	Glauconite
▧	Gypsum	⊥	Calcareous Shale	∆	Siderite
▨	Anhydrite	⊥	Dolomitic Shale	○	Limonite Nodules
▩	Salt (NaCl)	▬	Coal, Lignite	∞	Phosphate
⊞	Salt casts	▲	Chert	⊘	Carbonate Nodules

KKKK	Polyhalite, Sylvite (potassium salts)	B	Bentonite	NS	No Samples

SCALE 1:500

			ILD (OHMM)		
			20.00 2000.		
			ILD (OHMM)	CILD(MM/M)	
			0.2000 20.00	4000. 0.0	
GR (GAPI)			SFLU(OHMM)	TENS(LB)	
0.0 150.0			20.00 2000.	10000. 0.0	
SP (MV)			SFLU(OHMM)	DT (US/F)	
-40.00 10.00			0.2000 20.00	250.0 50.00	



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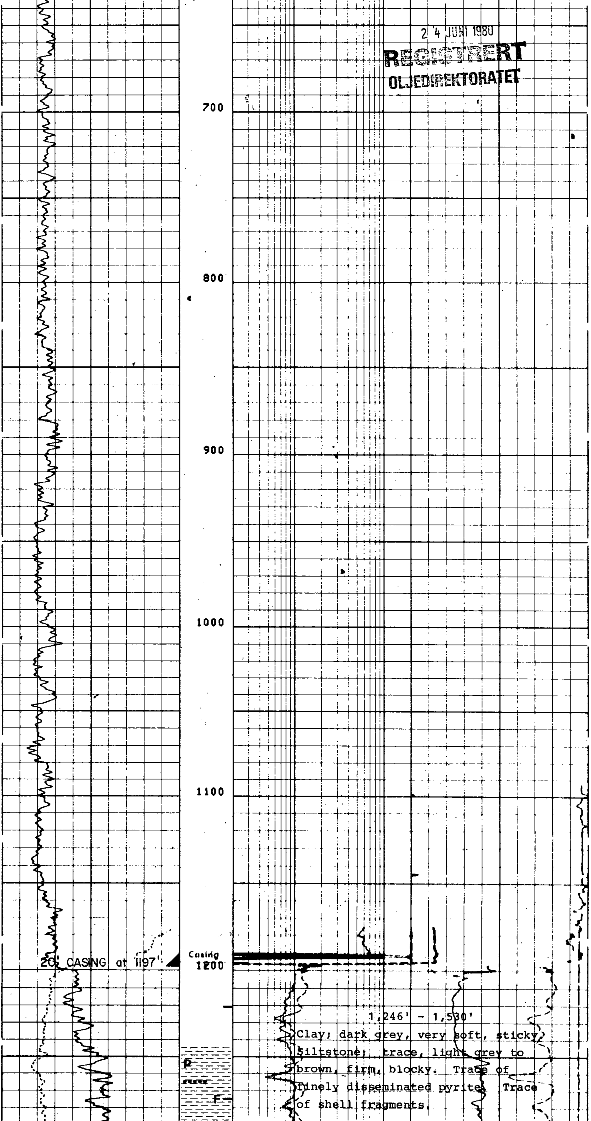
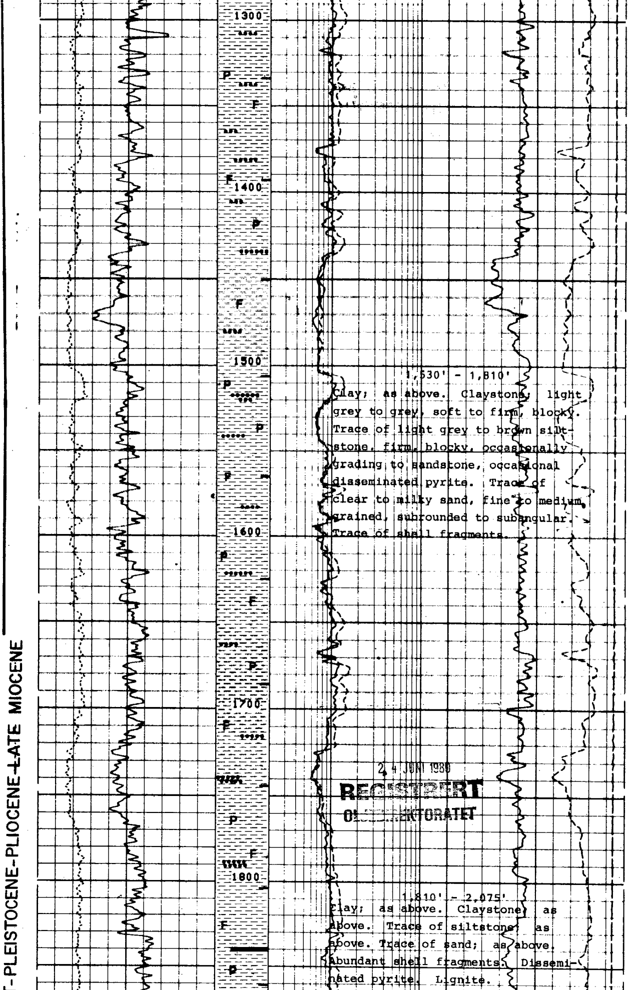


1,246' - 1,530'

Clay; dark grey, very soft, sticky. Siltstone; trace, light grey to brown, firm, blocky. Trace of finely disseminated pyrite. Trace of shell fragments.



1,530' - 1,810'

Clay; as above. Claystone; light grey to grey, soft to firm, blocky. Trace of light grey to brown siltstone, firm, blocky, occasionally grading to sandstone, occasional disseminated pyrite. Trace of clear to milky sand, fine to medium grained, subrounded to subangular. Trace of shell fragments.

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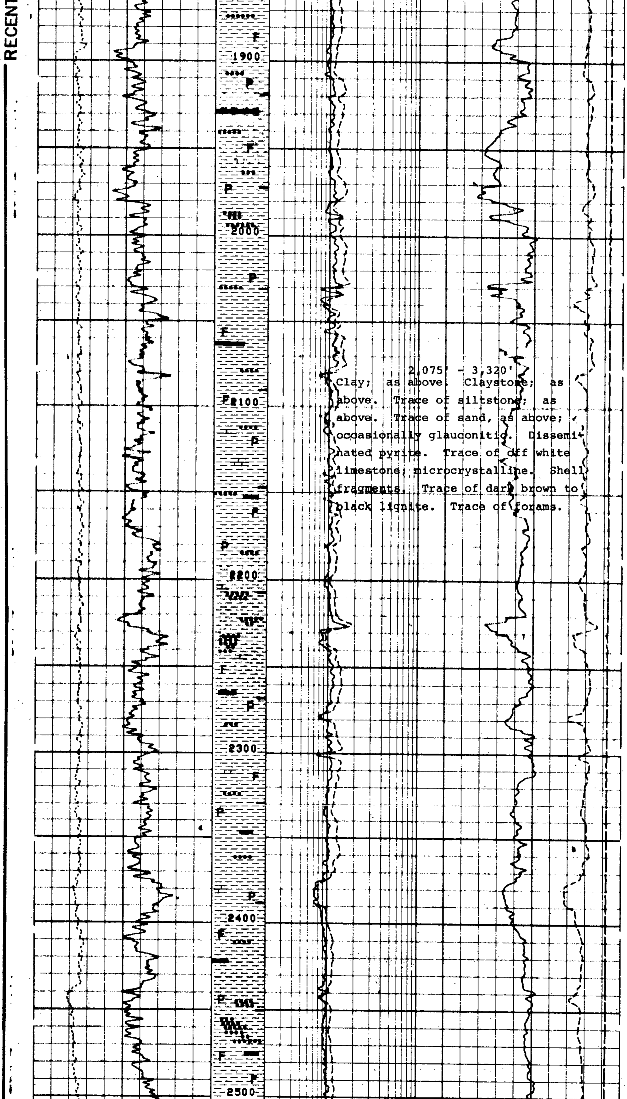
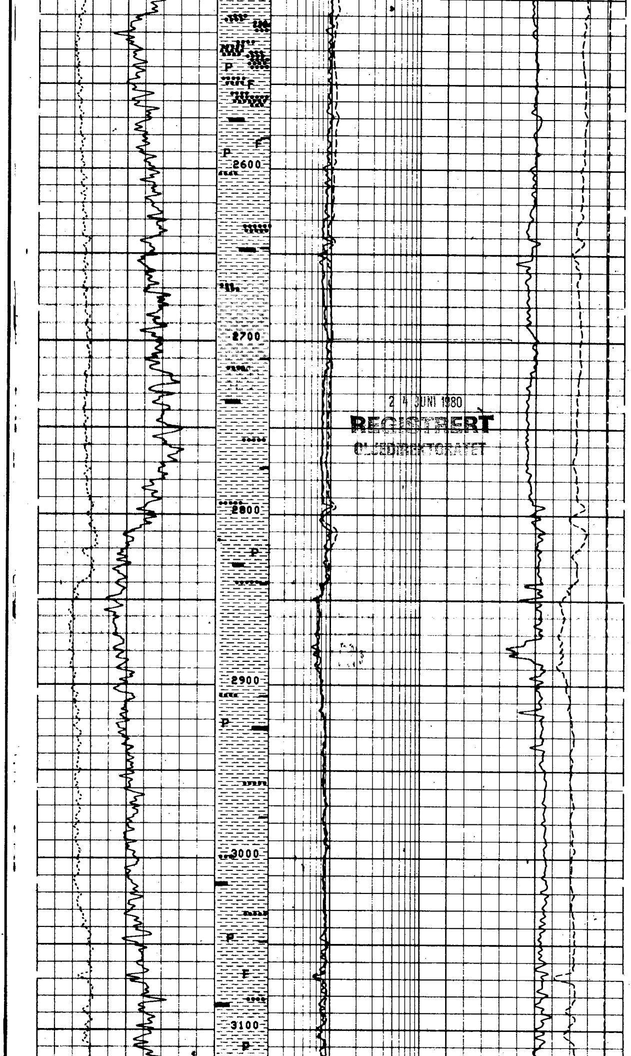
1,810' - 2,075'

Clay; as above. Claystone; as above. Trace of siltstone; as above. Trace of sand; as above. Abundant shell fragments. Disseminated pyrite. Lignite.



2,075' - 3,320'

Clay; as above. Claystone; as above. Trace of siltstone; as above. Trace of sand, as above; occasionally glauconitic. Disseminated pyrite. Trace of off white limestone; microcrystalline. Shell fragments. Trace of dark brown to black lignite. Trace of forams.



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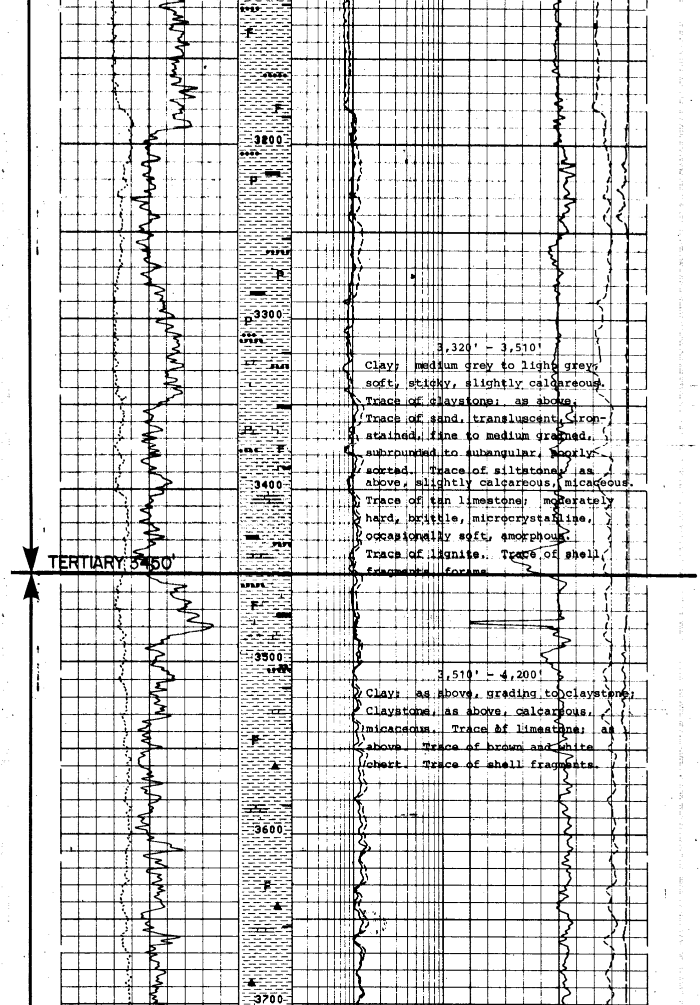
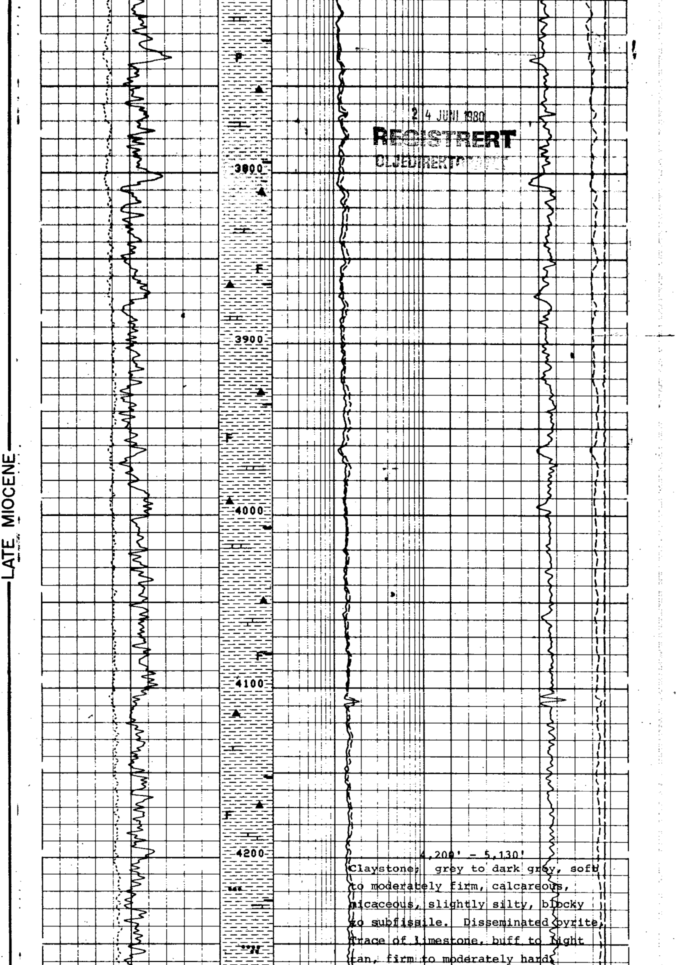


3,320' - 3,510'

Clay; medium grey to light grey, soft, sticky, slightly calcareous. Trace of claystone; as above. Trace of sand, transluscent, iron-stained, fine to medium grained, subrounded to subangular, poorly sorted. Trace of siltstone; as above, slightly calcareous, micaceous. Trace of tan limestone; moderately hard, brittle, microcrystalline, occasionally soft, amorphous. Trace of lignite. Trace of shell fragments, forams.

3,510' - 4,200'

Clay; as above, grading to claystone; Claystone, as above, calcareous, micaceous. Trace of limestone; as above. Trace of brown and white chert. Trace of shell fragments.



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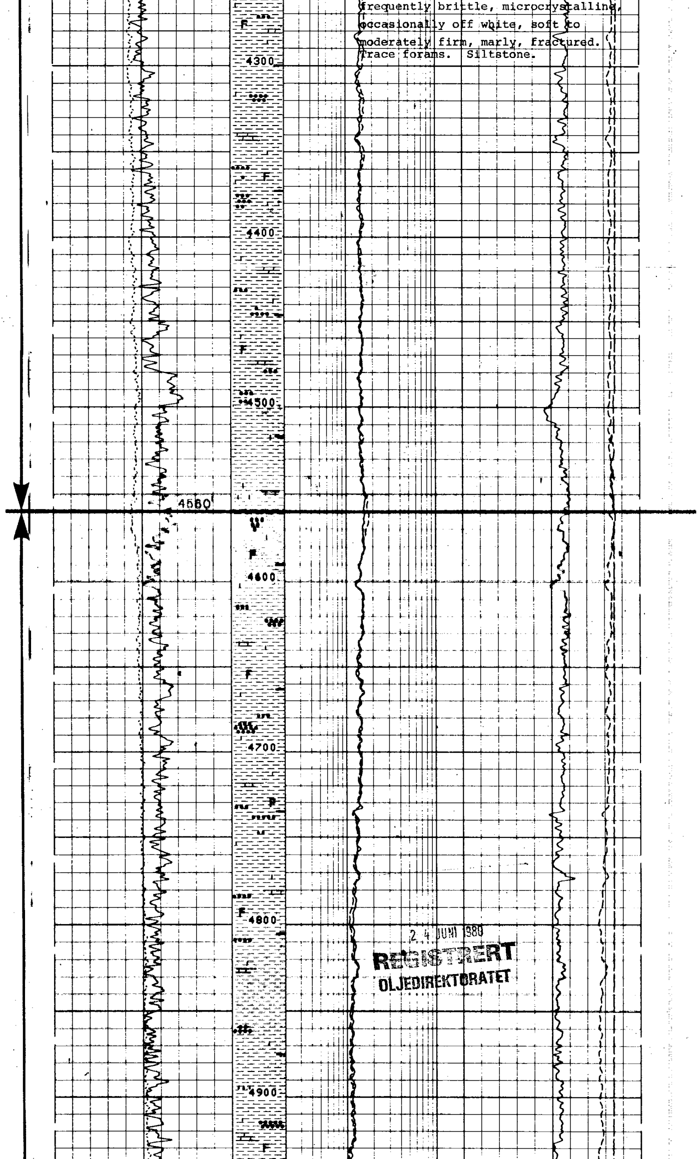
4,200' - 5,130'

Claystone, grey to dark grey, soft to moderately firm, calcareous, micaceous, slightly silty, blocky to subfissile. Disseminated pyrite, trace of limestone, buff to light tan, firm to moderately hard, frequently brittle, microcrystalline, occasionally off white, soft to moderately firm, marly, fractured. Trace forams. Siltstone.



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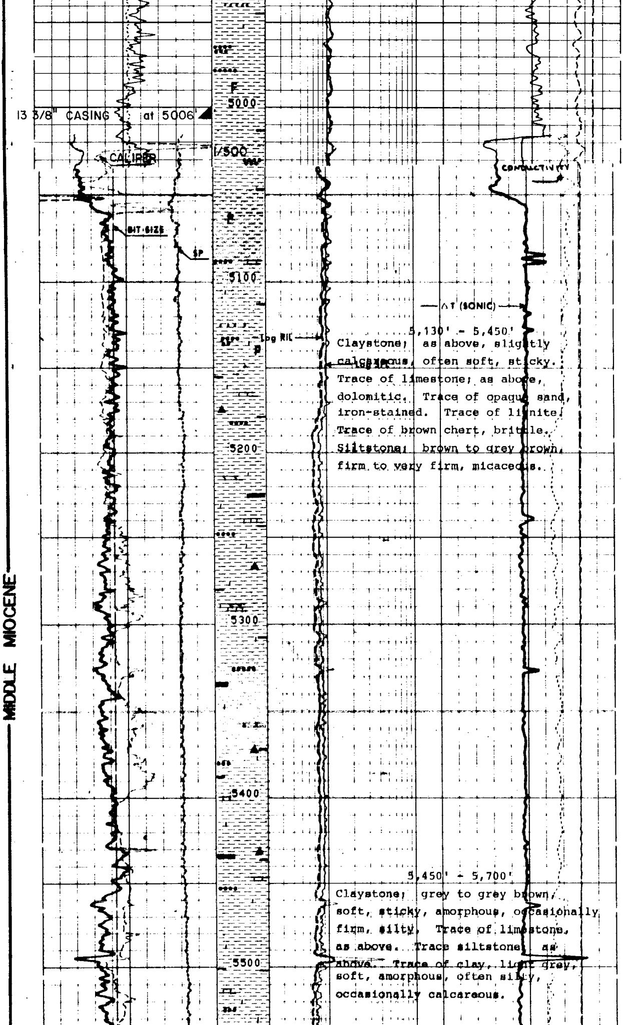
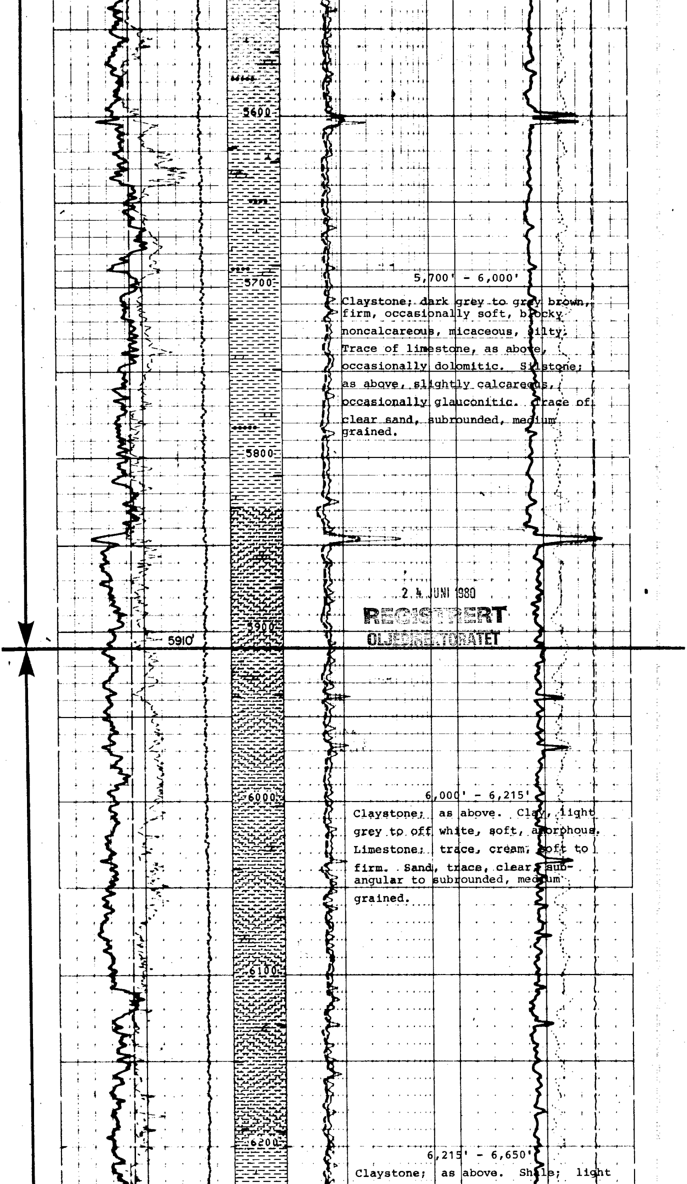


5,130' - 5,450'

Claystone; as above, slightly calcareous, often soft, sticky. Trace of limestone; as above, dolomitic. Trace of opaque sand, iron-stained. Trace of lignite. Trace of brown chert, brittle. Siltstone; brown to grey brown, firm to very firm, micaceous.

5,450' - 5,700'

Claystone; grey to grey brown, soft, sticky, amorphous, occasionally firm, silty. Trace of limestone, as above. Trace siltstone, as above. Trace of clay, light grey, soft, amorphous, often silty, occasionally calcareous.



5,700' - 6,000'

Claystone; dark grey to grey brown, firm, occasionally soft, blocky noncalcareous, micaceous, silty. Trace of limestone, as above, occasionally dolomitic. Siltstone; as above, slightly calcareous, occasionally glauconitic. Trace of clear sand, subrounded, medium grained.

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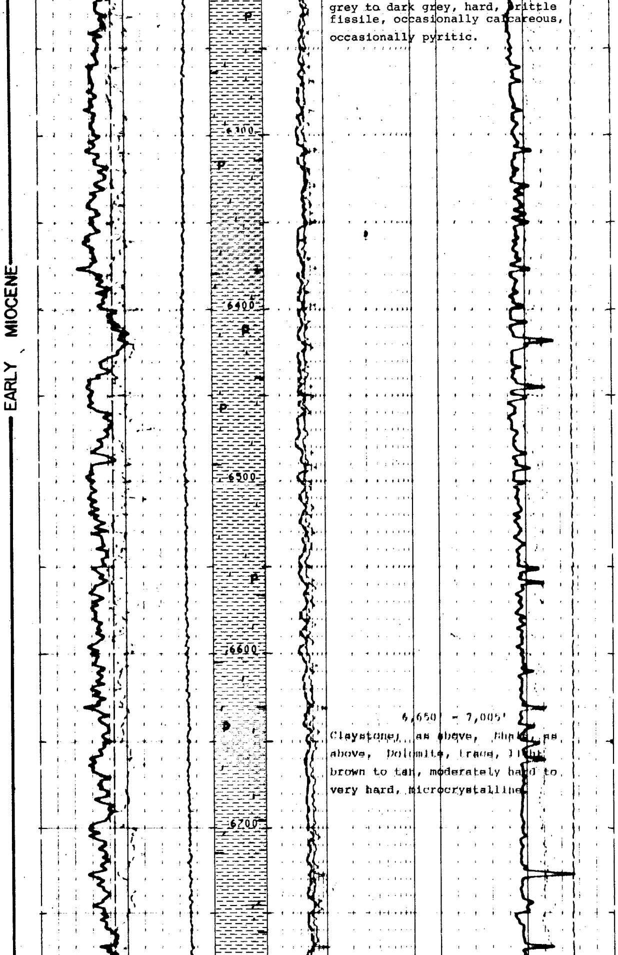
6,000' - 6,215'

Claystone; as above. Clay, light grey to off white, soft, amorphous. Limestone; trace, cream, soft to firm. Sand, trace, clear, subangular to subrounded, medium grained.

6,215' - 6,650'

Claystone; as above. Shale; light

grey to dark grey, hard, brittle fissile, occasionally calcareous, occasionally pyritic.



6,650' - 7,005'

Claystone, as above, Shale, as above, Dolomite, trace, light brown to tan, moderately hard to very hard, microcrystalline.

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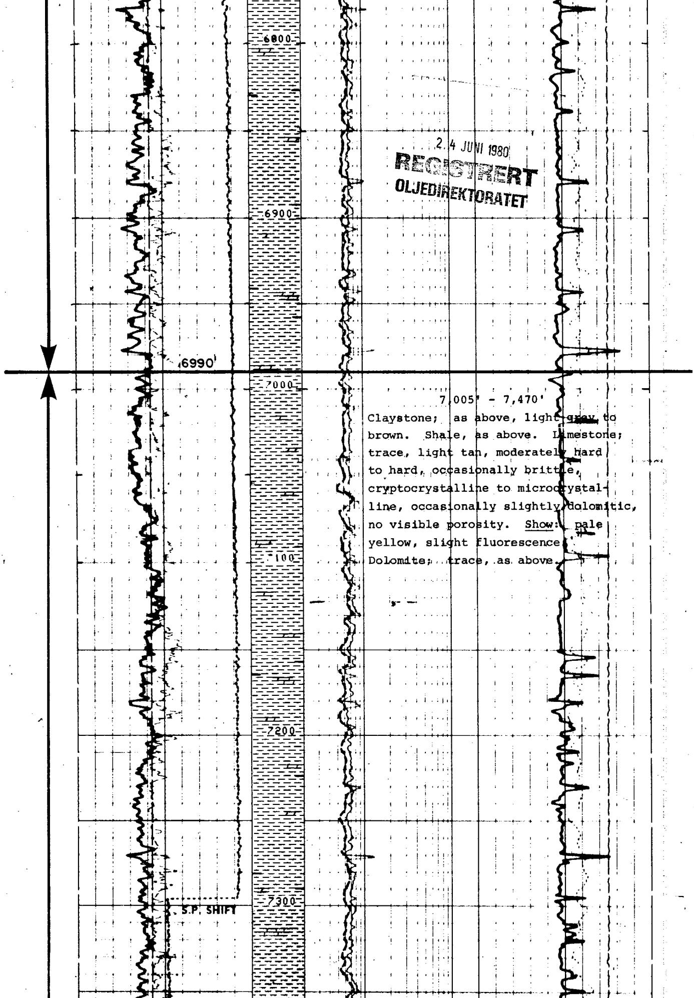
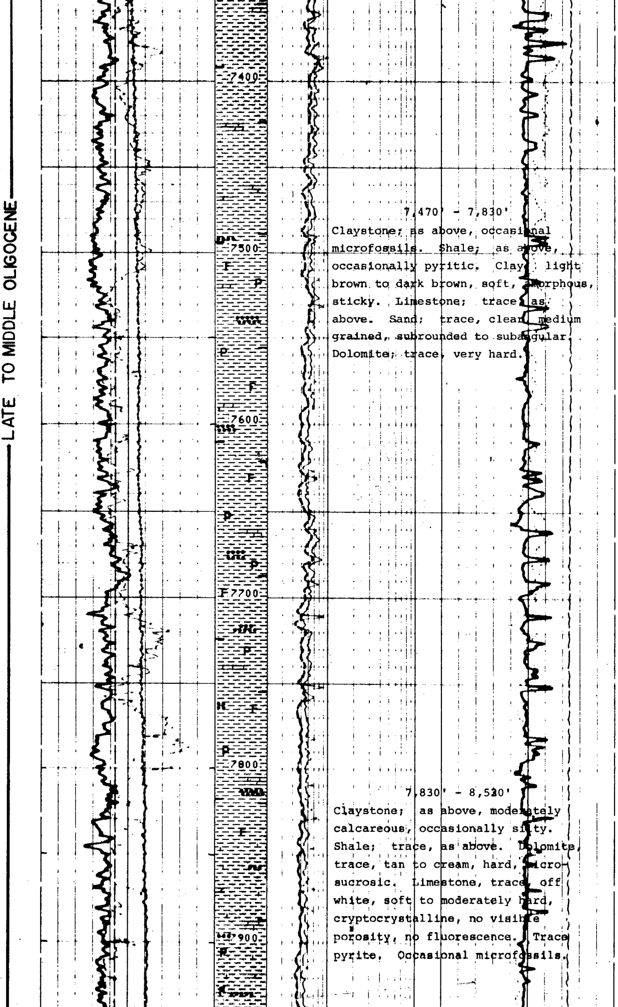


7,005' - 7,470'

Claystone; as above, light grey to brown. Shale, as above. Limestone; trace, light tan, moderately hard to hard, occasionally brittle, cryptocrystalline to microcrystalline, occasionally slightly dolomitic, no visible porosity. Show: pale yellow, slight fluorescence. Dolomite; trace, as above.



7,470' - 7,830'

Claystone; as above, occasional microfossils. Shale; as above, occasionally pyritic. Clay; light brown to dark brown, soft, amorphous, sticky. Limestone; trace, as above. Sand; trace, clean, medium grained, subrounded to subangular. Dolomite; trace, very hard.

7,830' - 8,520'

Claystone; as above, moderately calcareous, occasionally silty. Shale; trace, as above. Dolomite, trace, tan to cream, hard, microsucrosic. Limestone, trace, off white, soft to moderately hard, cryptocrystalline, no visible porosity, no fluorescence. Trace pyrite. Occasional microfossils.

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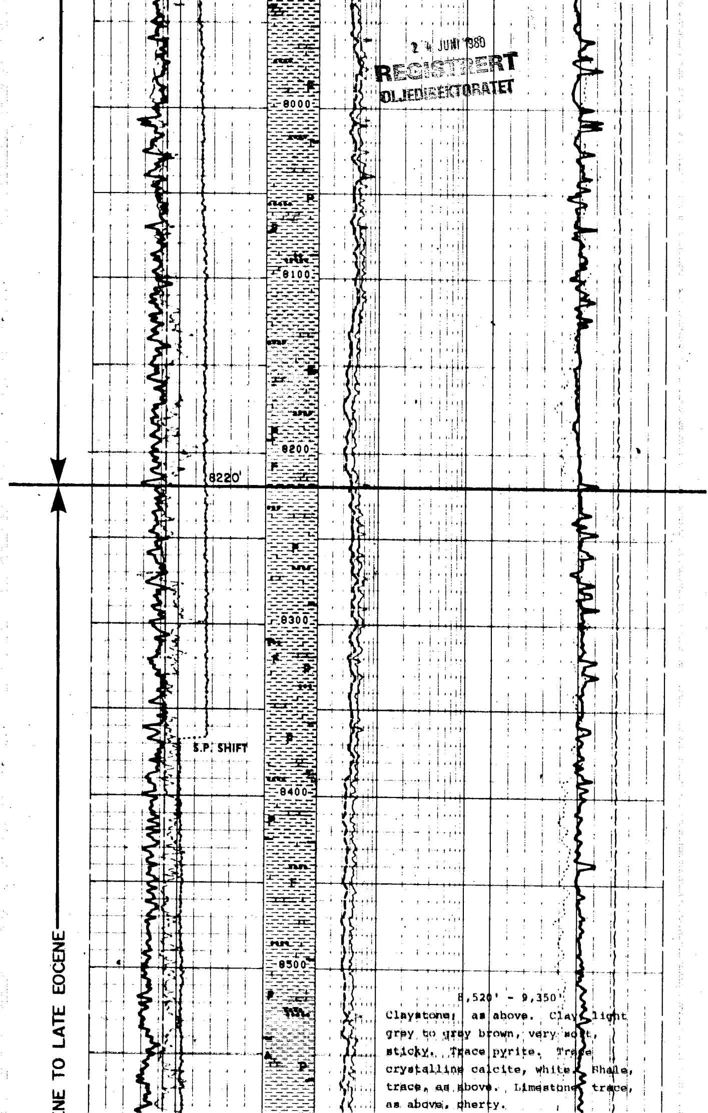
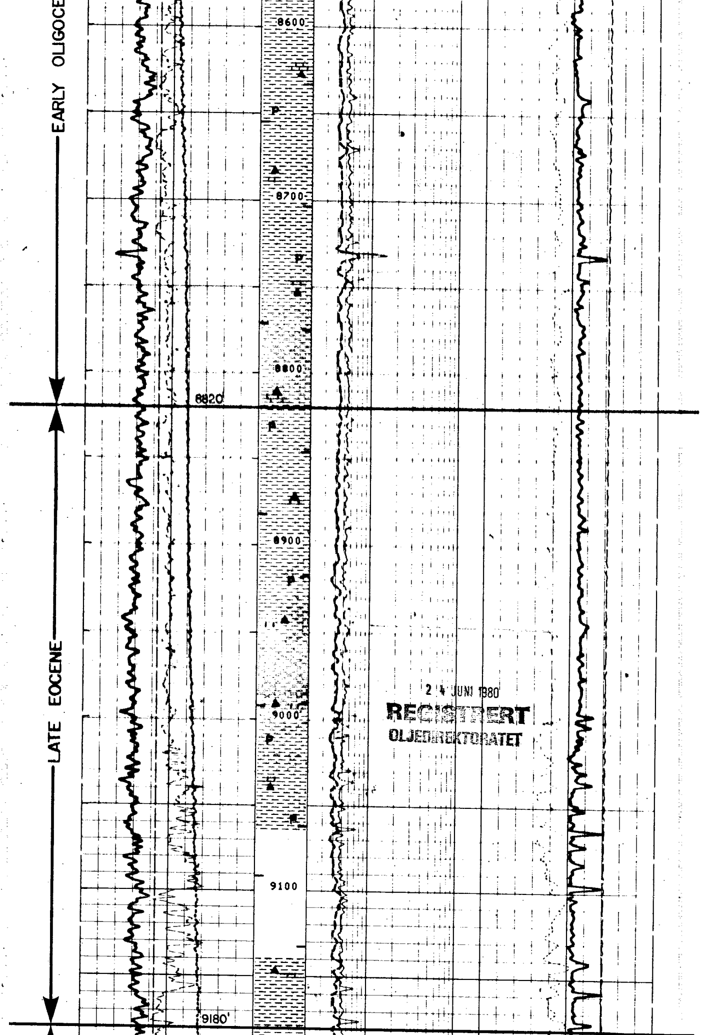


8,520' - 9,350'

Claystone, as above. Clay, light grey to grey brown, very soft, sticky. Trace pyrite. Trace crystalline calcite, white. Shale, trace, as above. Limestone, trace, as above, cherty.



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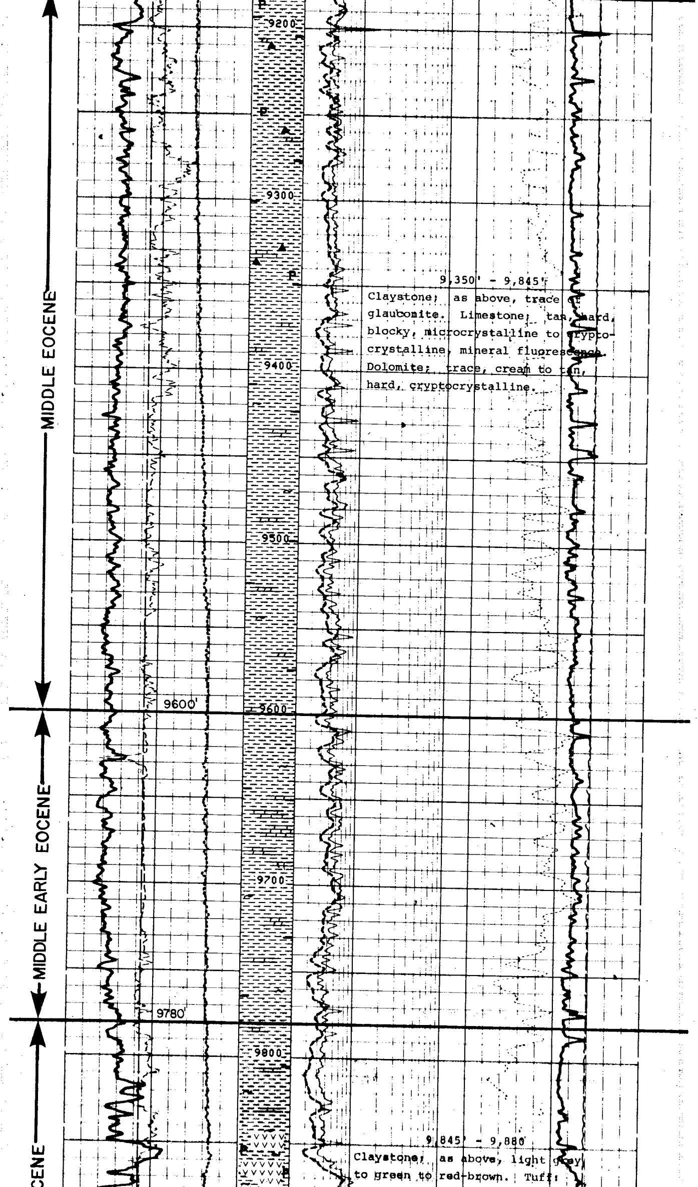
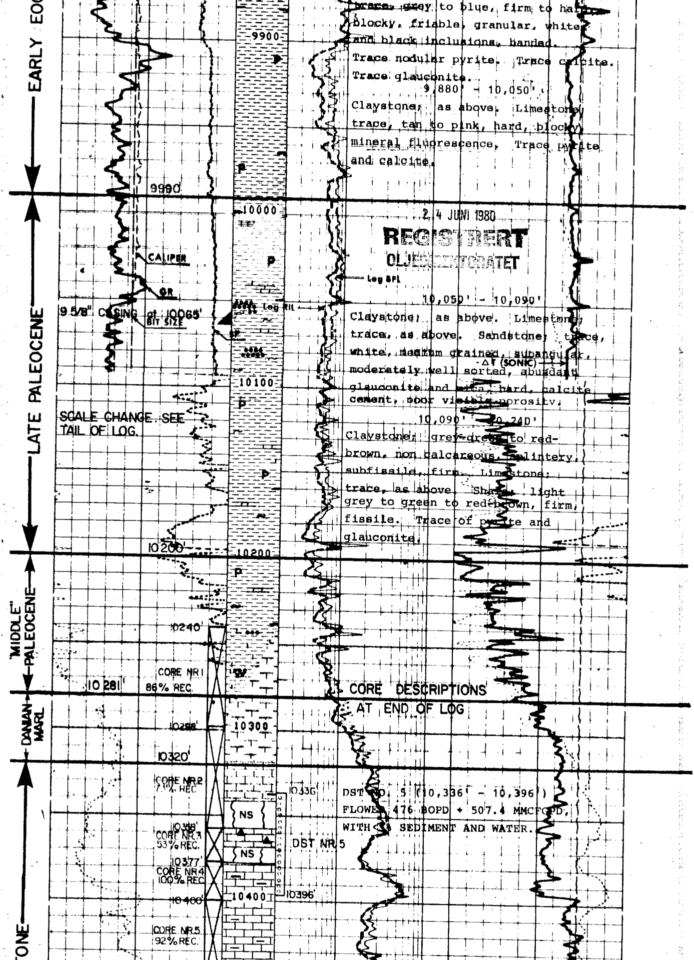


9,350' - 9,845'

Claystone; as above, trace of glaubomite. Limestone; tan, hard, blocky, microcrystalline to cryptocrystalline, mineral fluorescence. Dolomite; trace, cream to tan, hard, cryptocrystalline.

9,845' - 9,880'

Claystone; as above, light gray to green to red-brown. Tuff;



trace, grey to blue, firm to hard, blocky, friable, granular, white and black inclusions, banded. Trace nodular pyrite. Trace calcite. Trace glauconite.

9,880' - 10,050'

Claystone; as above. Limestone; trace, tan to pink, hard, blocky, mineral fluorescence. Trace pyrite and calcite.

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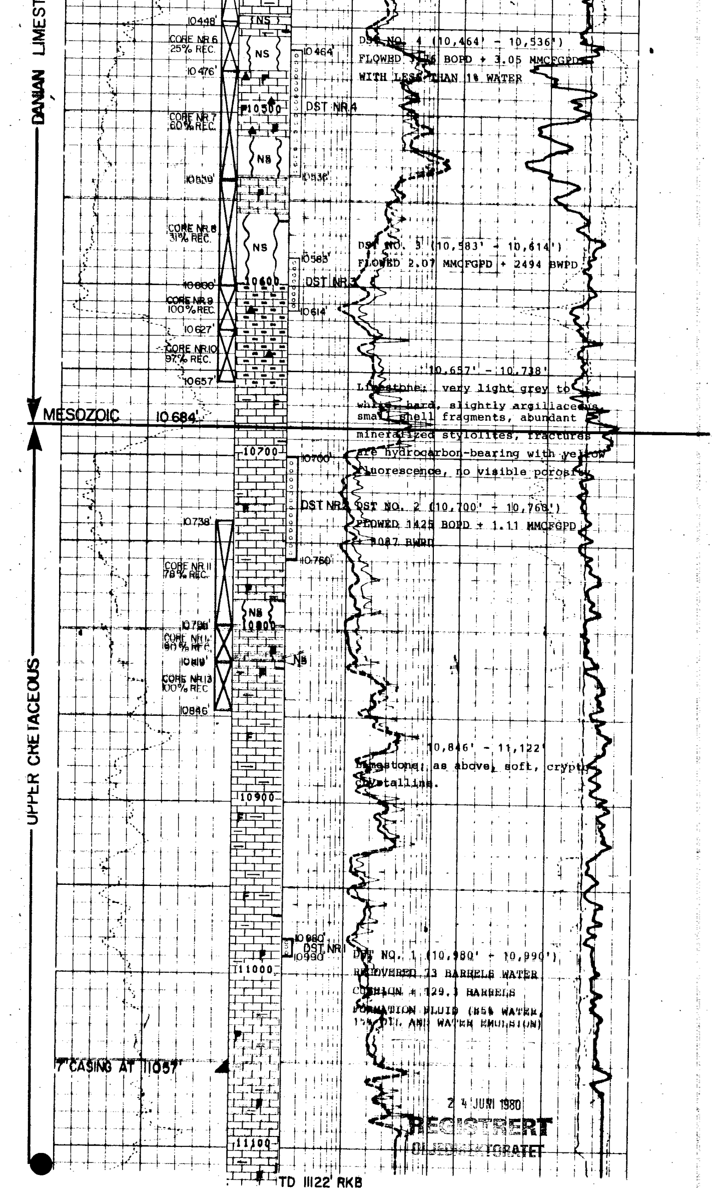
10,050' - 10,090'

Claystone; as above. Limestone; trace, as above. Sandstone; trace, white, medium grained, subangular, moderately well sorted, abundant glauconite and mica, hard, calcite cement, poor visible porosity.

10,090' - 10,240'

Claystone; grey-green to red-brown, non calcareous, splintery, subfissile, firm. Limestone; trace, as above. Shale; light grey to green to red-brown, firm, fissile. Trace of pyrite and glauconite.

DST NO. 5 (10,336' - 10,396')
FLOWED 476 BOPD + 507.4 MMCFGPD, WITH [illegible] SEDIMENT AND WATER.



DST NO. 4 (10,464' - 10,536')
FLOWED [illegible] BOPD + 3.05 MMCFGPD
WITH LESS THAN 1% WATER

DST NO. 3 (10,583' - 10,614')
FLOWED 2.07 MMCFGPD + 2494 BWPD

10,657' - 10,738'

Limestone: very light grey to white, hard, slightly argillaceous, small shell fragments, abundant mineralized stylolites, fractures are hydrocarbon-bearing with yellow fluorescence, no visible porosity.

DST NO. 2 (10,700' - 10,768')
FLOWED 1425 BOPD + 1.11 MMCFGPD
+ 3087 BWPD

10,846' - 11,122'

Limestone: as above, soft, cryptocrystalline.

DST NO. 1 (10,980' - 10,990')
RECOVERED 73 BARRELS WATER
CUSHION + 129.3 BARRELS
FORMATION FLUID (85% WATER,
15% OIL AND WATER EMULSION)

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20.00	SFLU(OHMM)	2000.
20.00	ILD (OHMM)	2000.
0.2000	ILD (OHMM)	20.00
0.2000	SFLU(OHMM)	20.00
0.0	SP (MV)	50.00
2000.	DUMM( )	0.0
10000.	TENS(LB)	0.0
150.0	DT (US/F)	50.00