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SCANNED

GEOLOGICAL WELL REPORT

TERRA MARINE ENERGY COMPANY

No. 2 Mitchell

SWSE Section 20-T2N-R54W

Washington County, Colorado

DVR	
FJP	
HHM	✓
JAM	✓
JJD	✓
RLS	
COM	

FORMATION TOPS

(Electric Log)

Niobrara Limestone	4014
Fort Hays Limestone	4370
Codell Sandstone	4410
Carlile Sandstone	4423
Greenhorn Limestone	4507
Graneros Shale	4583
Bentonite Marker	4736
"D" Sandstone	4824 (-288)
"J" Sandstone	4916 (-380)
Total Depth	4968

BIT RECORD

<u>Bit No.</u>	<u>Make</u>	<u>Size</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
1	STC	7-7/8	DTJ	3497	3397	21
2	HTC	7-7/8	OSC3J	4327	830	11
3	STC	7-7/8	DTJ	4918	581	13-3/4
4	SEC	7-7/8	S4TS	4960	42	4-1/2

DEVIATION SURVEYS

<u>Depth</u>	<u>Degrees</u>
3497	1/2
4327	2
4918	1-3/4

DRILLSTEM TESTS

Drillstem Test No. 1

4836-4848 - Straddle Test

Formation Tested:

"D" Sand

Results of Test:

Tool open for 15 minutes
Shut in for 30 minutes
Re-opened for 60 minutes
and Shut in for 60 minutes

Strong blow, gas to surface in 3 minutes, reaching 1,998 MCFPD in 10 minutes, and remaining steady for 40 minutes. Blow decreased to 1,911 MCFPD in final 10 minute open period.

Recovered 50' of mud and 100' mud cut water.
Rw 2.48 @ 50° = 3100 PPM.

.984 Cu. Ft. gas in sampler.
No water.

IHP	2705
FHP	2525
IFP	310-346
FFP	383-361
ISIP	894
FSIP	857

Drillstem Test No. 2

4918-4939 - Straddle Test

Formation Tested:

"J" Sand

Results of Test:

Tool open for 15 minutes
Shut in for 30 minutes
Re-opened for 60 minutes
and Shut in for 60 minutes

Fair blow increasing to strong blow then decreasing after 35 minutes.

Recovered 100' water cut mud and 1800' muddy water.
Rw 2.64 @ 50° = 2800 PPM

2200 cc water in sampler.
Rw 250 @ 50° = 3000 PPM

Drillstem Tests (Cont.)

IHP	2777
FHP	2651
IFP	248-420
FFP	478-857
ISIP	971
FSIP	967

SAMPLE DESCRIPTION

"D" SAND

- 4835 - 4840 Sandstone, light gray, fine grained, slightly salt and pepper, argillaceous, poor porosity and permeability, light stain, fair yellow fluorescence and cut.
- 4840 - 4845 No sample.
- 4845 - 4850 Sandstone, light gray, fine grained, carbonaceous, poor to fair porosity and permeability, scattered light yellow fluorescence and cut. One cluster of medium grained sandstone with good porosity and permeability, brown oil stain, bright yellow fluorescence and good cut.
- 4850 - 4855 Sandstone, light gray, very fine to fine grained, argillaceous, carbonaceous, poor to fair porosity and permeability, no visable stain, dull yellow fluorescence and slight cut.
- 4855 - 4860 Very poor sample (98% black shale).
- 4860 - 4875 Sandstone, light gray, fine grained, dirty, poor to good porosity and permeability, no show.
- 4875 - 4880 Sandstone, light gray, fine grained, few carbonaceous laminations, fair porosity and permeability, no show.
- 4880 - 4890 Sandstone, light gray, fine to medium grained, fairly clean, good porosity and permeability, no show.
- 4890 - 4900 Sandstone, light gray, medium grained, friable in part, good porosity and permeability, no show.
- 4900 - 4918 Shale, dark gray.

"J" SAND

- 4918 Circulate samples
30 minutes. Sandstone, light gray, fine to medium grained, fair to good porosity and permeability. No show.
- 4918 - 4925 Very poor sample after trip for bit. Mostly shale.
- 4925 - 4935 Sandstone, light gray, fine to medium grained, slightly carbonaceous, trace of glauconite, good porosity and permeability, no show.
- 4935 - 4940 Sandstone, light gray, very fine to medium grained, poor to fair porosity and permeability, no show. Trace of very fine grained tight silty sandstone with yellow fluorescence and slight cut.
- 4940 - 4960 Sandstone, light gray, fine grained, argillaceous, fair porosity and permeability, no show.
- 4960 Circulate samples
30 minutes - Sandstone as above.
60 minutes - Sandstone as above.

V. A. Farley
Petroleum Geologist