217-22405

Tucker
WIRELINE SERVICES

COMPENSATED NEUTRON
PEL DENSITY LOG

~~CONFIDENTIAL~~ RELEASED
JH 10-22-10

File No. :	TUL-54830
Company :	RUNNING FOXES PETROLEUM, INC.
Well :	STONER 4-7B-4
Field :	WILDCAT
County :	VERNON
State :	MISSOURI
Country :	U.S.A.

RECEIVED
OCT 22 2009
Mo Oil & Gas Council

Location : PERMIT # 22405
630' FNL & 540' FWL
NW

Sect : 07 Twp : 36N Rge : 33W

Recorded By : C. GREEVER
Witnessed By : J. TAGLIERI

Date : JUL 29 2009		
Run No. : 1		
Permanent Datum :	GL	
Drilling Measured From :	GL	
Log Measured From:	GL	
Above Permanent Datum :	0.00	FT
Depth--Driller :	428.0	FT
Depth--Logger :	428.0	FT
Bottom Log Interval :	405.0	FT
Top Log Interval :	20.0	FT
Casing Depth--Driller:	20.0	FT
Casing Depth--Logger :	20.0	FT
Casing Diameter :	7.000	IN
Bit Size :	5.875	IN
Unit No. : TRK 118		
Location : TULSA		

Elevations :
KB : FT
DF : FT
GL : 879.00 FT

Additional Services
PIT

The customer is hereby warned that by providing the log data herein, T. W. S. does not agree to provide any interpretation of log data, conversion of log data to physical rock parameters or recommendations. T. W. S. does not guarantee or warrant either expressly or impliedly, the accuracy of any interpretation of log data, conversion of log data to physical rock parameters or recommendations which may be given by T. W. S. personnel. Any interpretation, conversion or recommendation is not part of the consideration for the agreement between the parties and is not part of any part of the charge by T. W. S. for its services. Any user of the log data is warned that said user is not entitled to rely on intepretations, conversions or recommendations as aforesaid.

Run Number 1

Depth To Fluid	0.0	FT		
Fluid Type In Hole :	NATIVE			
Density :	0.000	LBS/GAL		
Viscosity :	0.000	SEC/QT		
pH :	0.000			
Fluid Loss :	0.000	CC		
Salinity :	0.000	KPPM		
RM Source :	MEASURED			
RM :	9.000	OHMM at	78	F
RM at BHT :	8.795	OHMM at	80	F
RMF Source :	CALCULATED			
RMF :	7.650	OHMM at	78	F
RMF at BHT :	7.474	OHMM at	80	F
RMC Source :	CALCULATED			
RMC :	9.900	OHMM at	78	F
RMC at BHT :	9.672	OHMM at	80	F
Max Recorded Temp. :			80	F
Time Circulation Stopped :	JUL 29 2009 @ 10:00			
Operating Rig Time, Hrs. :			2.0	

- Source Serial Numbers -

Gamma	1903-GW
Neutron	21166B

- Sonde Serial Numbers -

GRTB	GRT-BC-43
CNT	CNP-AD-34
LDTNG	LDP NG 01
PIT_B	PIT-AC-25

Casing Strings

Size (IN)	Weight (LB/FT)	Bottom (FT)
7.000	32.00	20.00

- Comments -

ALL PRESENTATIONS AS PER CLIENTS REQUEST>

GRT, CNT, LDT AND PIT RUN IN COMBINATION.
CALIPERS ORIENTED IN X-Y AXIS
2.71 G/CC USED TO CALCULATE PORSITY
PHIN IS CALIPER CORRECTED
ANNULAR HOLE VOLUME CALCULATED USING 4.5'' PRODUCTION CASING

GRT: GRP.
CNT: PHIN, CLCNIN.
LDT: PORL, LCORN, PECLN, LDENN, CLLDIN.
PIT: ILD , ILM, SFLAEC, CIRD, SPU.

OPERATORS:
R. AUSTIN
L. BARTO

THANK YOU FOR USING TUCKER WIRELINE SERVICES!!!!!!!!!!!!!!!!!

Tool String Schematic

Total Tool Length 43.49 ft.
Maximum Outside diameter 4.00 in.
Net Weight in Air 243.00 lbs.

Tool Zero

Tool: GRTB Length: 3.40 ft. O.D.: 3.60 in.
Sonde ID : GRT BC 43

Measure Point	Stack Offset	Tool Offset	Bottom Offset
GRP	2.00	2.00	41.49

3.40 ft.

Tool: CNT Length: 9.30 ft. O.D.: 4.50 in.
Sonde ID : CNP AD 34
Source ID : 21166B
Pad ID : CNP AD 34

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLCN	9.40	6.00	34.09
PHIN	10.24	6.84	33.25

12.70 ft.

Tool: LDTNG Length: 9.30 ft. O.D.: 4.00 in.
Sonde ID : LDP NG 01
Source ID : 1903 GW
Pad ID : LDP NG 01

Measure Point	Stack Offset	Tool Offset	Bottom Offset
CLLD	18.70	6.00	24.79
PEL	19.70	7.00	23.79
PES	20.10	7.40	23.39
LDEN	19.70	7.00	23.79
LCOR	19.70	7.00	23.79

22.00 ft.

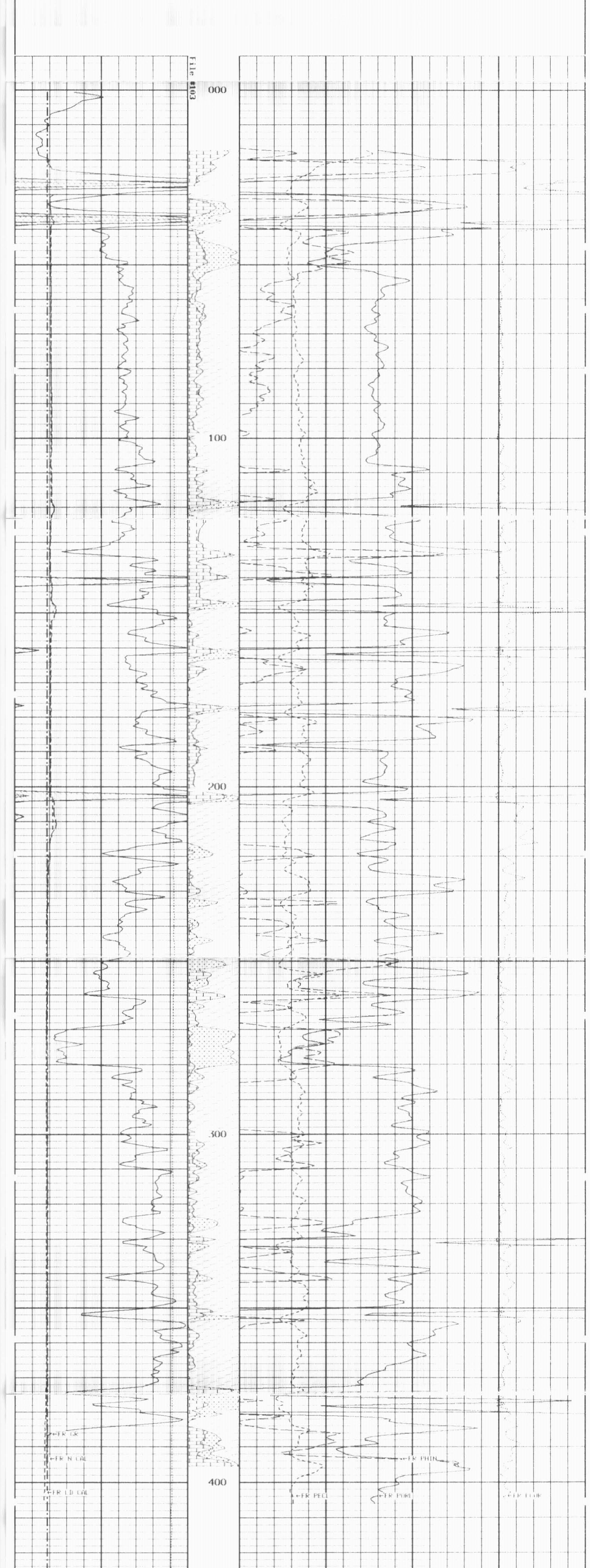
Tool: PIT Length: 21.49 ft. O.D.: 3.63 in.
Sonde ID : PIT AC 25

Measure Point	Stack Offset	Tool Offset	Bottom Offset
ILD	30.92	8.92	12.56
ILM	32.10	10.10	11.39
SFLU	39.49	17.49	4.00
SP	42.60	20.60	0.88

TWT 43.49 ft.

TENSION LBS	10000	0		
BIT SIZE INCHES (IN)	4	14		
DENSITY (X) CALIPER INCHES (IN)	14 / 4	24 / 14	Volume Quartz	PE CROSS SECTION BARNS/ELECTRON 0–10; DENSITY CORRECTION G/CC 0.25–0.25
NEUTRON (Y) CALIPER INCHES (IN)	14 / 4	24 / 14	Volume Calcite	NEUTRON POROSITY PERCENT (LIMESTONE MATRIX) 30–10
GAMMA RAY API UNITS	200 / 0	400 / 200	Volume Dolo/Shale	DENSITY POROSITY PERCENT (2.71 g/cc) 70 / 30 – 30 / 10

1:240 MAIN SECTION



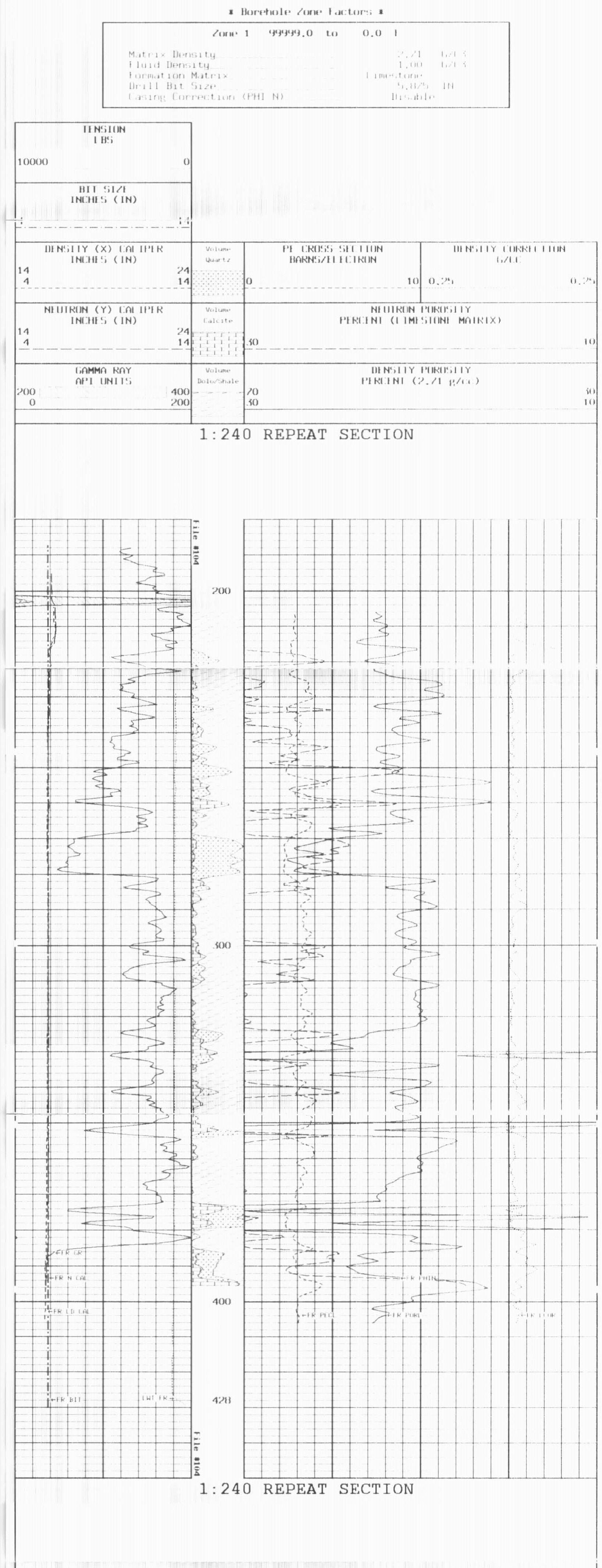
1:240 MAIN SECTION

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 1

Matrix Density	2.71	G/CC
Fluid Density	1.00	G/CC
Formation Matrix	Limestone	
Drill Bit Size	5.875	IN
Casing Correction (PHIN)	Disable	

1:240 REPEAT SECTION



1:240 REPEAT SECTION

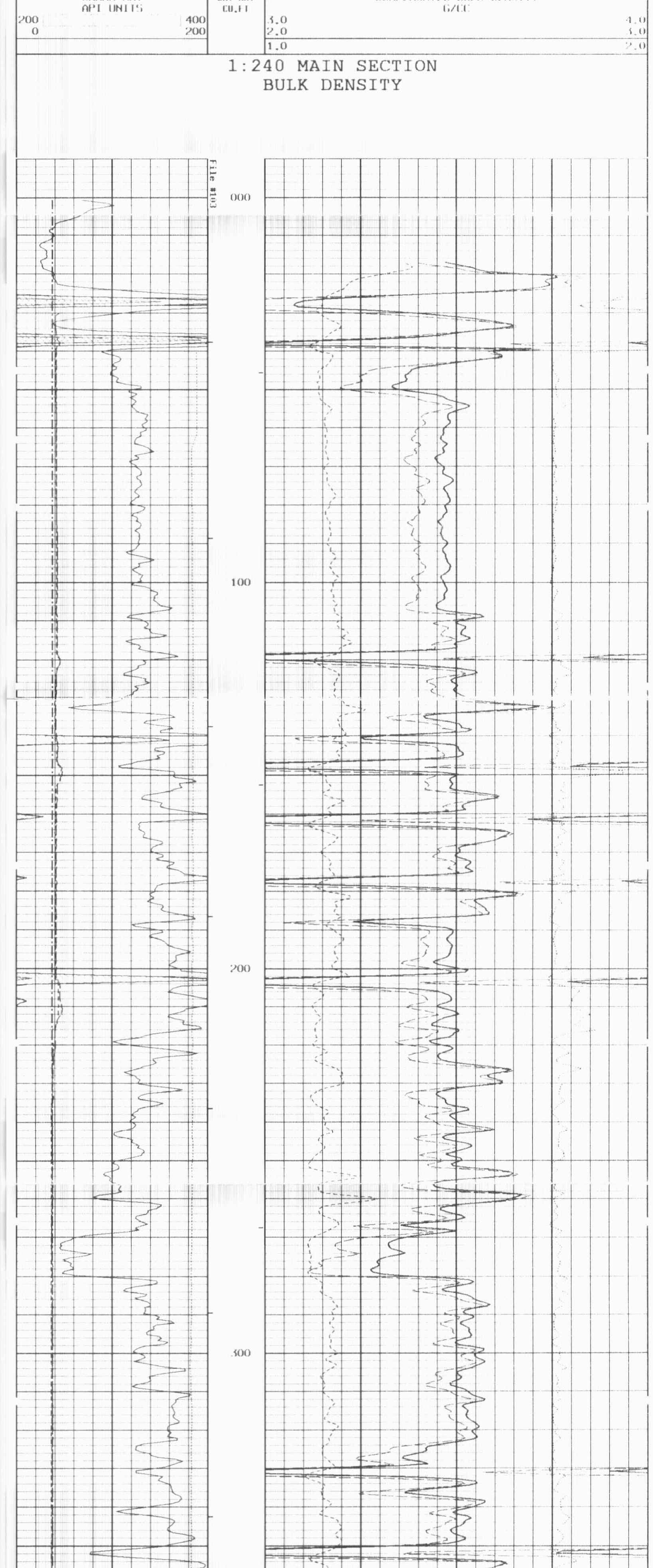
* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 1

Matrix Density	2.71	G/CC
Fluid Density	1.00	G/CC
Formation Matrix	Limestone	
Drill Bit Size	5.875	IN
Casing Correction (PHIN)	Disable	

GAMMA RAY API UNITS 0–200 / 200–400; -BHV BHV- 0.0; COMPENSATED BULK DENSITY G/CC 1.0–4.0 / 2.0–3.0

1:240 MAIN SECTION
BULK DENSITY



1:240 MAIN SECTION
BULK DENSITY

* Borehole Zone Factors *

Zone 1 99999.0 to 0.0 1

Matrix Density	2.71	G/CC
Fluid Density	1.00	G/CC
Formation Matrix	Limestone	
Drill Bit Size	5.875	IN
Production Casing Diameter	4.500	IN
Casing Correction (PHIN)	Disable	

* Calibration Summary *

Shop Calibration
GRTB
Performed : 24 Apr 2000 Time : 10:19
Sensor Suite : GR 405 ID : GRT BC 43

Shop Calibration
CNT
Performed : 08 Jul 2009 Time : 12:39
Sensor Suite : BHC NEUT ID : CNP AD 34
Source ID : 21166B

	Tank Measured	Tank Calibrated	Verification Jig	Unit
N/F	3.7001	3.6890	3.6890	
Porosity	20.7	20.5	20.5	%

Performed : 03 OCT 2007 Time : 10:36
Sensor Suite : CALIPER ID : CNP AD 34

Shop Calibration
LDTNG
Performed : 00 XXX 0000 Time : 00:00
Sensor Suite : CALIPER ID : LDP NG 01

Performed : 08 Jul 2009 Time : 10:33
Sensor Suite : DENSITY ID : LDP NG 01
Source ID : 1903 GW

Short Space

Long Space