

# Tim J. Lauer

Petroleum Geologist

## GEOLOGIST'S REPORT

DRILLING TIME AND SAMPLE LOG

ELEVATIONS  
KB 1950'  
GL 1940'

COMPANY & WELL  
Coral Prod Corp #4-1 B. Keenan

LOCATION  
1450' FNL, 1750' FEL, NE/4

SEC 4 TWSP 22s RGE 14w

COUNTY Stafford STATE Kansas

COMPANY Coral Production Corporation  
LEASE # 4-1 B. Keenan  
FIELD \_\_\_\_\_  
LOCATION 1450' FNL, 1750' FEL, NE/4  
SEC 4 TWSP 22s RGE 14w  
COUNTY Stafford STATE Kansas  
CONTRACTOR Maverick Drilling Rig #106  
SPUD 11-1-2012 COMP 11-8-2012  
RTD 11-8-2012  
MUD UP 2828' LTD none  
TYPE MUD Chemical

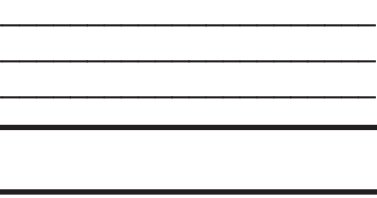
ELEVATIONS  
KB 1950'  
DF \_\_\_\_\_  
GL 1940'  
Measurements Are All From Kelly Bushing

CASING  
CONDUCTOR \_\_\_\_\_  
SURFACE 8-5/8" @ 858'  
PRODUCTION none

ELECTRICAL SURVEYS  
none

SAMPLES SAVED FROM 1000' TO RTD  
DRILLING TIME KEPT FROM 1000' TO RTD  
SAMPLES EXAMINED FROM 2970' TO RTD  
GEOLOGICAL SUPERVISION FROM 2970' TO RTD  
GEOLOGIST ON WELL Tim J. Lauer

FORMATION TOPS	ELECTRIC LOG	SAMPLE LOG
Topeka	2943	(-993)
Heebner	3315	(-1365)
Lansing	3445	(-1495)
Base Ks. City	3684	(-1734)
Viola	3727	(-1777)
Simpson Shale	3768	(-1818)
Simpson Sand	3788	(-1838)
Arbuckle	3816	(-1866)
Total Depth	3821	(-1971)



REMARKS

Due to structural position and drill stem test results, operator elected to plug and abandon the location.

Respectfully submitted,

*Tim J. Lauer*  
Tim J. Lauer  
11/8/2012

SPUD 6:15 PM 11-1-2012  
RTD 7:50 PM 11-8-2012

"BIT RECORD"  
1) JZ QX20J (Rerun)  
Under Surface to 3047'  
2) JZ QX20J (Rerun)  
3047 to 3821' Rot TD

"VERTICAL SURVEYS"  
1/4" @ 863'  
3/4" @ 1846'  
3/4" @ 2870'  
1/2" @ 3047'  
3/4" @ 3650'

11-1-2012 - MIRT, RUMT  
Spud @ 6:15 PM

11-2-2012 - 7:00 AM  
Drig @ 790'

11-3-2012 - 7:00 AM  
Drig @ 1437'  
Set 8 5/8" @ 858'

11-4-2012 - 7:00 AM  
Drig @ 2650'

11-5-2012 - 7:00 AM  
Drig @ 3160'  
(Bit trip at 3047')

11-6-2012 - 7:00 AM  
Drig @ 3552'

11-7-2012 - 7:00 AM  
Drig @ 3660'

11-8-2012 - 9:30 AM  
RTD @ 3821'

Decision made to  
Plug & Abd. location  
5' Arb Pen

Mud Check at 2870':  
(After displace and init. mud-up)  
vis: 58 wt: 8.8 Chlor: 3.000  
LCM: NA Ph: 11.5 WL: 8.8  
(displace native fluid @ 2828')

Geologist on location 2970'  
6:40 PM 11-4-2012

Pipe Strap on bit trip at 3047'  
Board: 3025.21'  
Strap: 3025.12'  
Diff: 0.09' short

Rig Check at 3120':  
vis: 47 wt: 9.0 LCM: NA

Rig Check at 3252':  
vis: 45 wt: 8.9 LCM: NA

Mud Check at 3197':  
vis: 46 wt: 8.9 Chlor: 4.000  
LCM: NA Ph: 10.5 WL: 8.8

Rig Check at 3273':  
vis: 52 wt: 9.0+ LCM: NA

Rig Check at 3523':  
vis: 50 wt: 9.3 LCM: NA

Mud Check at 3580':  
LCM: NA Ph: 10.0 WL: 9.6

DST (1) 3650'-3650'  
30-45-60  
Blow: wk blow, built to 25" on FFP  
no blowback on ISIP  
wk blow, built to 15" on FFP  
no blowback on FSIP

100' Mdy Wtr, NS  
(0% gas, 1% oil, 18% mud, 82% wtr)  
IHP: 1828 FFP: 41-67  
IFP: 17-39 FSIP: 67-5  
ISIP: 679 FHP: 1813  
Temp: 110°F  
Chlorides MUD: 5,000 PPM  
DST: 90,000 PPM  
Rw = 0.13 Othms @ 49°F  
Both Shut-in curves broken over

Mud Check at 3688':  
vis: 50 wt: 9.4 Chlor: 5,500  
LCM: NA Ph: 10.5 WL: 9.6

DST (2) 3654'-3798'  
30-30-30-60  
Blow: weak, built to 34" on FFP  
no blowback on ISIP  
surge on open, no blow on FFP  
no blowback on FSIP

12% VSOCM (good odor)  
(0% gas, 1% oil, 99% mud, 0% wtr)  
IHP: 1836 FFP: 28-28  
IFP: 25-26 FSIP: 174  
ISIP: 126 FHP: 1820  
Temp: 107°F  
Chlorides MUD: 5,500 PPM  
DST: NA  
Rw = NA  
\*Note: Both Shut-in curves still building

Rig Check at 3802':  
vis: 56 wt: 9.3 LCM: 2#

Rot TD reached  
7:50 AM 11/8/2012

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KB 1950'  
GL 1940'

