

CONFIDENTIAL

15-185-23111

24-215-12W
Report Copy

ORIGINAL

Geological Report

KCC

DEC 27 2000

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for



RELEASED

DEC 27 2001

FROM CONFIDENTIAL

L. D. DRILLING, INC.

**Wilson No. 1-A
SW SW NE Section 24-21S-12W
Stafford County, Kansas**

RECEIVED
KANSAS CORPORATION COMMISSION

DEC 29 2000

CONSERVATION DIVISION
WICHITA, KS

Todd E. Morgenstern
Petroleum Geologist
Sunflower Bank Building
P.O. Box 251
Ellinwood, Kansas 67526

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ORIGINAL

OPERATOR: L. D. Drilling, Inc.

WELL: Wilson No. 1-A
API # 15-185-23,111 0000

KCC

DEC 27 2000

LOCATION: SW-SW-NE
2310' from the North Line
2310' from the East Line
Section 24-21S-12W
Stafford County, Kansas

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DEC 27 2000

FIELD: Steve (Ext.)

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CONTRACTOR: L. D. Drilling, Inc. Rig 1

DRILLING COMMENCED: 11-10-2000

RELEASED

DRILLING COMPLETED: 11-18-2000

DEC 27 2001

DRILLING TIME: One (1) foot drilling time was recorded
from 2700' to 3616' RTD.

FROM CONFIDENTIAL

SAMPLES: Samples were saved and examined from 2750'
to 3616' RTD.

ELEVATIONS: 1813' Ground Level 1818' Kelly Bushing

MEASUREMENTS: All depths are measured from 1818' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 339' with 240 sxs. 60/40 poz

FORMATION TESTING: Eight (8) test were run by Diamond Testing Co.
Roger D. Friedly, Tester

MUD: Dombar Mud & Chemical Company (Chemical Mud)

OPEN HOLE LOGS: No Open Hole Logs were run.

PRODUCTION: Dry and Abandoned

FORMATION TOPS:

FORMATION	SAMPLE	DATUM
ANHYDRITE	598'	+1220
BASE ANHYDRITE	624'	+1194
TOPEKA	2783'	- 965'
HEEBNER SHALE	3074'	-1256'
TORONTO	3096'	-1278'
DOUGLAS	3108'	-1290'
BROWN LIME	3201'	-1383'
LANSING	3216'	-1398'
BASE KANSAS CITY	3454'	-1636'
CONGLOMERATE	3484'	-1666'
SIMPSON SHALE	3508'	-1690'
ARBUCKLE	3554'	-1736'
ROTARY TOTAL DEPTH	3616'	-1798'

SAMPLE DESCRIPTIONS AND TEST DATA:

TOPEKA: No shows of oil were noted throughout the Topeka.

TORONTO:

3096-3107 Limestone, white and gray, very finely crystalline, slightly fossiliferous, chalky in part, no shows of oil were noted.

LANSING:

3233-3242 Limestone, white, tan and light brown, finely crystalline, fossiliferous, with fair interfossiliferous and slightly pinpoint porosity, chalky with slight show of free oil on break, very light odor. (Covered by D.S.T. No. 1)

3248-3256 Limestone, white and tan, very finely crystalline, dense, oolitic, and slightly fossiliferous, chalky, no shows of oil were noted. (Covered by D.S.T. No. 1)

3264-3269 Limestone, white and tan, very finely crystalline, dense, slightly oolitic and fossiliferous, with poor visible porosity, scattered staining, with slight pinpoint porosity, no odor. (Covered by D.S.T. No. 1)

3272-3276

Limestone, tan and light brown, finely crystalline, fossiliferous, with fair to good visible interfossiliferous and slightly vugular porosity, slight to fair show of free oil, light odor. (Covered by D.S.T. No. 1)

FORMATION TEST NO. 1

Lansing-K.C. ("A"- "C")

Tested from 3229'-3283'

Weak to 1 3/4 in. Blow

30 min.

I.H.P.

1556#

No Blow-Back

30 min.

I.F.P.

33# - 33# plugging

Weak to 3/4" Blow

30 min.

I.S.I.P.

394#

No Blow-Back

30 min.

F.F.P.

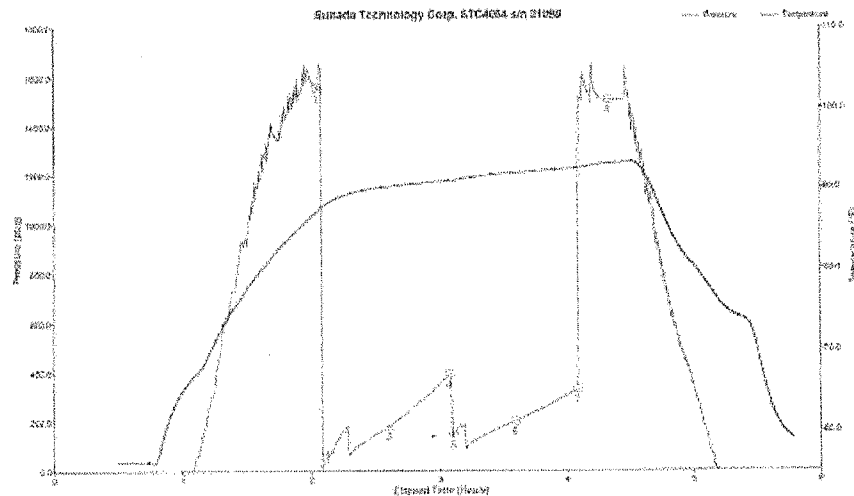
148# - 201# plugging

F.S.I.P.

332#

F.H.P.

1508#



RECOVERY: 20' Drilling Mud w/ Oil Specks in tool.

TEMPERATURE: 92*

CHLORIDES: n/a ppm (Recovery) 5,000 ppm (System)

3291-3295

Limestone, gray and tan, dense to very finely crystalline, fossiliferous, very chalky, with poor visible porosity, very slight show of oil on break, very light odor.

3310-3316

Limestone, tan and cream, finely crystalline, oolitic and slightly oolitic, with fair visible interoolitic porosity, chalky, with trace of scattered staining, no shows of free oil were noted.

3357-3365

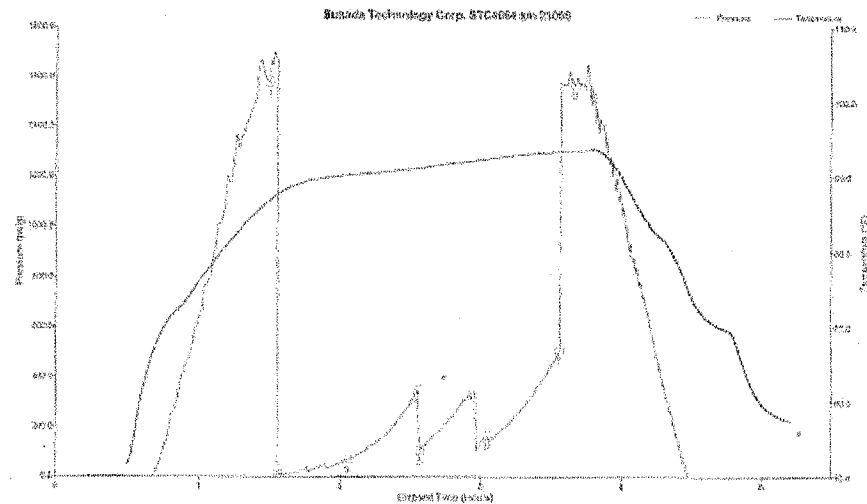
Limestone, tan and white, very finely crystalline, fossiliferous, with fair interfossiliferous porosity, very slight show of free oil, very chalky. (Covered by D.S.T. No. 2)

3375-3379 Limestone, white and tan, finely crystalline, oolitic and fossiliferous, with fair visible interfossiliferous and pinpoint vugular porosity, chalky, fair show of gassy, free oil, light odor. (Covered by D.S.T. No. 2)

FORMATION TEST NO. 2

Lansing-K.C. "H" & "I"
Tested from 3342'-3385'

<i>Weak Blow to 1 1/2 in. Blow</i>	30 min.	I.H.P.	1576#
<i>No Blow-back</i>	30 min.	I.F.P.	9# -71#
<i>Weak 1/4 in Blow</i>	30 min.	I.S.I.P.	350#
<i>No Blow-back</i>	30 min.	F.F.P.	106# -164# <i>plugging</i>
		F.S.I.P.	506#
		F.H.P.	1570#



RECOVERY: 25' Drilling Mud w/ few Oil Specks in tool.

TEMPERATURE: 93*

CHLORIDES: n/a ppm (Recovery) 5,000 ppm (System)

3398-3402 Limestone, white and light gray, finely crystalline, oolitic and slightly oolitic, with poor visible intercrystalline and interoolitic porosity, very chalky, with trace of scattered spotted staining, dark, heavy appearing oil.

3415-3425 Limestone, white and tan, very finely crystalline, dense, oolitic, with white chert, chalky, no shows of oil were noted.

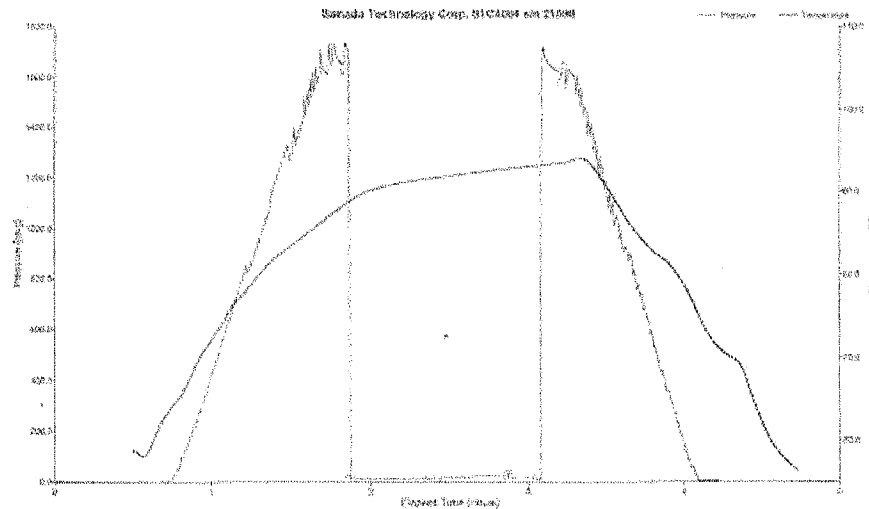
CONGLOMERATE:

3484-3492 Chert, tan, white, yellow and varied colored, mostly sharp, slightly tripolitic, with fair edge staining, slightly weathered edges, with slight pinpoint porosity, fair show of free oil, slightly gassy, light odor.
(Covered by D.S.T. No. 3)

FORMATION TEST NO. 3

Conglomerate
Tested from 3450'-3492'

<i>Weak Blow</i>	30 min.	I.H.P.	1648#
<i>No Blow-back</i>	30 min.	I.F.P.	12# -13#
<i>No Blow</i>	10 min.	I.S.I.P.	28#
<i>No Blow-back</i>	0 min.	F.F.P.	14# -13#
		F.S.I.P.	0#
		F.H.P.	1623#



RECOVERY: 15' Drilling Mud w/ Gassy Odor.

TEMPERATURE: 93*

CHLORIDES: n/a ppm (Recovery) 5,200 ppm (System)

3493-3507 Chert, as above, less show. (Covered by D.S.T. No. 4)

ARBUCKLE:

3555-3562

Dolomite, tan and light brown, finely crystalline, dense, with poor visible intercrystalline porosity, very slight show of free oil, strong odor. (Covered by D.S.T. No. 4)

3563-3565

Dolomite, tan and light brown, fine to medium crystalline, with fair to good visible intercrystalline porosity, slightly oolitic, with fair show of gassy, free oil, strong odor. (Covered by D.S.T. No. 4)

FORMATION TEST NO. 4

Arbuckle

Tested from 3452' -3565'

Weak Blow building to 3 in.

45 min.

I.H.P.

1656#

No Blow-back

45 min.

I.F.P.

18# -1011# *plugging*

Weak Blow building to 1 in.

45 min.

I.S.I.P.

1070#

No Blow-back

45 min.

F.F.P.

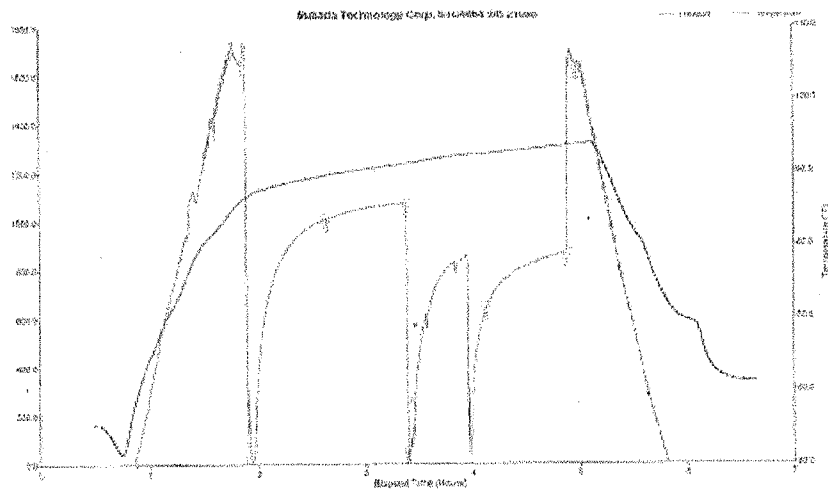
59# -647#

F.S.I.P.

869# *plugging*

F.H.P.

1633#



RECOVERY:

30' Slightly Oil Specked Drilling Mud

25' Oil & Gas Cut Mud (6% oil, 10% gas, 84% mud)

55' Total Fluid

TEMPERATURE:

94*

CHLORIDES:

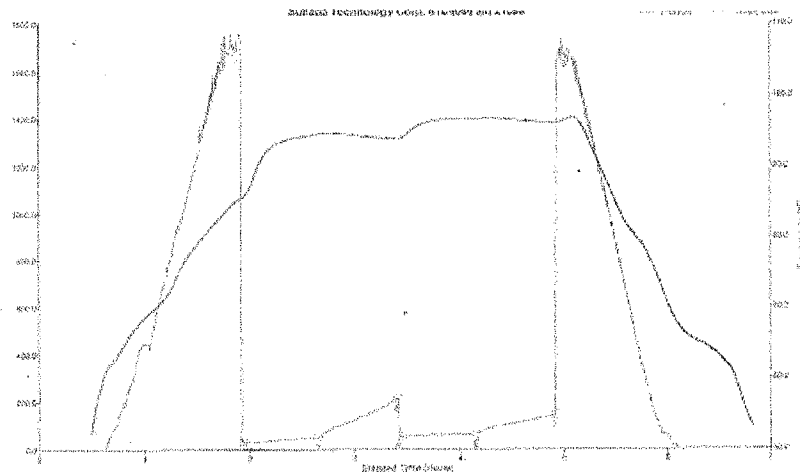
n/a ppm (Recovery) 8,500 ppm (System)

3566-3578 Dolomite, light tan and brown, finely crystalline, with fair to good visible intercrystalline and pinpoint porosity, brown staining and saturation, good show of free oil, good odor. (Covered by D.S.T. No. 5)

FORMATION TEST NO. 5

Arbuckle
Tested from 3562'-3578'

<i>Good Blow building to Strong Blow</i>	45 min.	I.H.P.	1687#
<i>1 3/4 in. Blow-back</i>	45 min.	I.F.P.	33# - 49#
<i>Weak building to 10 1/4 in.</i>	45 min.	I.S.I.P.	215#
<i>1 in. Blow-back</i>	45 min.	F.F.P.	54# - 65#
		F.S.I.P.	145#
		F.H.P.	1676#



RECOVERY: 373' Gas in Pipe
30' Clean Oil (41 gravity @ 60*)
62' Gassy Mud Cut Oil (14% gas, 25% mud, 61% Oil)
42' Gassy Mud Cut Oil (18% gas, 40% mud, 42% Oil)
20' Gassy Oil Cut Mud (14% gas, 20% oil, 60% Mud)
154' Total Fluid

TEMPERATURE: 97*

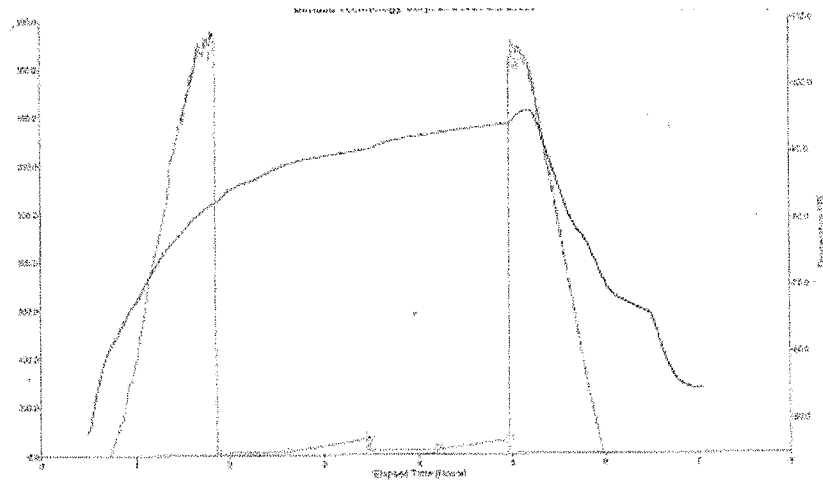
CHLORIDES: N/A ppm (Recovery) 8,500 ppm (System)

3579-3590 Dolomite, tan, gray and becoming white, fine to medium crystalline, slightly rhombic, with fair to good visible intercrystalline and slightly vugular porosity, good, dark staining and complete saturation, good show of free oil and odor. (Covered by D.S.T. No. 6)

FORMATION TEST NO. 6

Arbuckle
Tested from 3578'-3590'

<i>Weak to 6 in.</i>	45 min.	I.H.P.	1698#
<i>Weak 1/4 in. Blow-back</i>	45 min.	I.F.P.	8# - 14#
<i>Weak 1/4 in</i>	45 min.	I.S.I.P.	74#
<i>Weak surface Blow-back</i>	45 min.	F.F.P.	15# - 22#
		F.S.I.P.	61#
		F.H.P.	1882#



RECOVERY: 60' Gas in Pipe
40' Oil & Gas Cut Mud (20% gas, 26% oil, 54% mud w/ trace wtr.)

TEMPERATURE: 94*

CHLORIDES: N/A ppm (Recovery) 11,500 ppm (System)

3592-3601

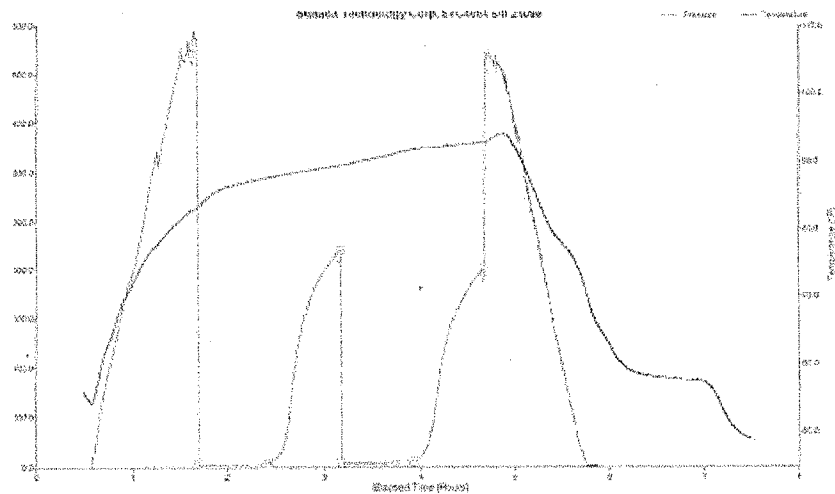
Dolomite, tan, light gray, and white, fine to medium crystalline, slightly rhombic, with fair visible intercrystalline and pinpoint porosity, fair show of free oil, light odor. (Covered by D.S.T. No. 7)

FORMATION TEST NO. 7

Arbuckle

Tested from 3591'-3601'

<i>Weak 1/in. building to 2 in.</i>	45 min.	I.H.P.	1687#
<i>No Blow-back</i>	45 min.	I.F.P.	9# - 13#
<i>Weak 1/4 in. building to 1 in.</i>	45 min.	I.S.I.P.	884#
<i>No Blow-back</i>	45 min.	F.F.P.	18# - 19#
		F.S.I.P.	806#
		F.H.P.	1662#



RECOVERY: 30' Gas in Pipe
34' Oil Cut Watery Mud (2% oil, 8% filtrate wtr., 90% mud)
w/ good show of free oil in tool.

TEMPERATURE: 93*

CHLORIDES: 11,500 ppm (Recovery) 10,000 ppm (System)

3608-3616 Dolomite, gray and white, fine to medium crystalline, with fair visible intercrystalline and pinhole porosity, as above, slight show of free oil, light odor. (Covered by D.S.T. No. 8)

FORMATION TEST NO. 8

Arbuckle

Tested from 3603'-3616'

Weak building 3 1/4 in.

No Blow-back

Weak building to 1 1/2 in

No blow back

45 min.

45 min.

45 min.

45 min.

I.H.P.

I.F.P.

I.S.I.P.

F.F.P.

F.S.I.P.

F.H.P.

1689#

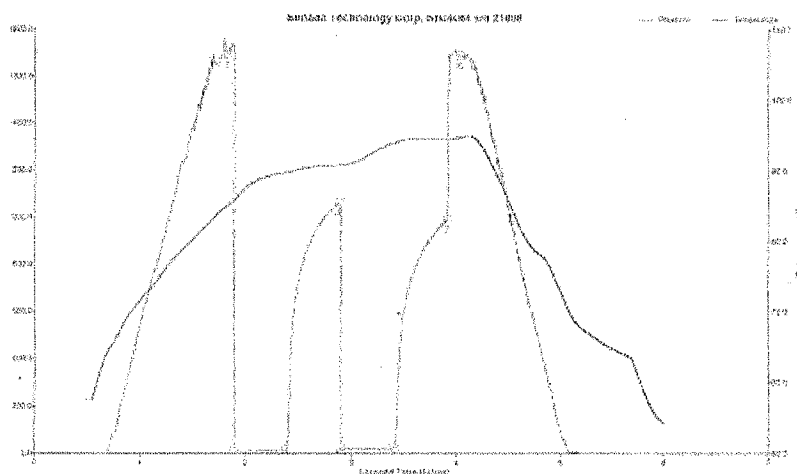
8# - 15#

1065#

16# - 24#

992#

1690#



RECOVERY: 34' Muddy Water (47% mud, 53% water)
w/ few oil speck in tool.

TEMPERATURE: 95*

CHLORIDES: 15,000 ppm (Recovery) 11,500 ppm (System)

DRILLING RECORD:

Date	Daily Drilling Record	
11-10-00	7:00 AM	Spud well. Set 8 5/8" Surface Casing.
11-11-00	7:00 AM	Drilling depth at 344'.
11-12-00	7:00 AM	Drilling depth at 1680'.
11-13-00	7:00 AM	Drilling depth at 2640'. Geologist on location, 2800'.
11-14-00	7:00 AM	Drilling depth at 3283'. DST # 1.
11-15-00	7:00 AM	Drilling depth at 3385', DST # 2 & DST # 3.
11-16-00	7:00 AM	Drilling depth at 3560', DST # 4 & DST # 5.
11-17-00	7:00 AM	Depth at 3578', Ran DST # 6.
11-18-00	7:00 AM	Depth at 3601' Ran DST # 7 & DST # 8, Plugging.

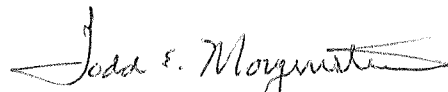
STRUCTURAL COMPARISION:

	L.D. Drilling No. 1-A Wilson SW SW NE Sec. 24-21S-12W D&A	Rex & Morris No.1 Stevenson 'A' SW NW NW Sec. 24-21S-12W Oil	Kansas Petroleum No. 1 Wilson SW SW SW Sec. 24-21S-12W Oil
ANHYDRITE	+1220'	n/a	+1240'
BASE ANHYDRITE	+1194'	n/a	+1220'
TOPEKA	-965'	-969	-972'
HEEBNER SHALE	-1256'	-1256'	-1261'
BROWN LIME	-1383'	-1385'	-1388'
LANSING	-1398'	-1398	-1406'
BASE KANSAS CITY	-1636'	n/a	-1642'
CONGLOMERATE	-1666'	n/a	-1679'
SIMPSON SHALE	-1690'	n/a	-1721'
ARBUCKLE	-1736'	-1729'	-1781'

SUMMARY:

The No. 1-A Wilson was under geological supervision from 2750' to 3616' RTD. With the lack of any reservoir development and the negative results of eight (8) drill stem tests, it was recommended that this well be plugged and abandoned.

Respectfully submitted,


Todd E. Morgenstern