21-13-20W

CARMEN SCHMITT, INC.
#1 Dreiling
SW SW NE Sec. 21 - T13S - R20W
Ellis County, Kansas

WELL SUMMARY

Well Name:	Carmen Schmitt, Inc. #1 Dreiling
Location:	SW SW NE Sec. 21 - T13S - R20W Ellis County, Kansas
Elevation:	2208 G.L. 2213 K.B.
Contractor:	Red Tiger Drilling Company - Rig No. 2
Spud Date:	3-1-88
Completion Date:	3-10-88

Bits:

Surface 12-1/4"	HTC A3X Retip	0'-240'
Bit #1 7-7/8"	HTC 52 Retip	240'-1292'
Bit #2 7-7/8"	WM 52CF R.R.	1292'-3267'
Bit #3 7-7/8"	WM 53CF M8C582	3267'-3885'

Cores: None

Tests:

D.S.T. #1 3657-3690 (Lansing/Kansas City Formation - 160' Zone & 175' Zone), op 15 si 15 op 5 si __ - weak blow, died in 9 minutes on initial open; no blow on final open - recovered 15' of drilling mud with no show of oil, IHP 1901#, ISIP 713#, FP 41#-41#/41#-41#, FSIP --, FHP 1881#.

D.S.T. #2 3777-3807 (Marmaton Formation), op 30 si 45 op 30 si 45, weak blow building to 2" blow on initial open; weak steady surface blow on final open - recovered 120' of muddy water with a few oil spots in tool, IHP 2035#, ISIP 1061#, FP 31#-51#/62#-62#, FSIP 948#, FHP 1952#.

D.S.T. #3 3808-3852 (Upper Conglomerate, Arbuckle Formation), op 30 si 30 op 30 si 30 - weak blow building to 1-1/2" in 15 minutes, decreasing to 1" blow on initial open; weak steady surface blow on final open - recovered 80' of oil cut mud (40% oil, 60% mud), IHP 2159#, ISIP 774#, FP 51#-51#/82#-82#, FSIP 631#, FHP 2004#.

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D.S.T. #4 3846'-3860' (Arbuckle Formation) op 45 si 45 op 45 si 45, weak blow building to 1-1/2" on initial open; took 25 minutes to start weak steady blow on final open - recovered 60' of highly oil cut gassy mud (10% gas, 40% oil, 50% mud), 80' of highly oil cut gassy mud (15% gas, 40% oil, 45% mud), IHP 2056#, ISIP 856#, FP 31#-31#/51#-51#, FSIP 764#, FHP 1983#.

Deviations: 240' - $1/2^{o}$ 3807' = $3/4^{o}$

Logs: Great Guns: R.A. Guard Log

Mud: Mud Co., Great Bend, Kansas

Status: Dry Hole

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CHRONOLOGICAL LOG

3-1-88	Move and rig up. Spud 12-1/4" surface hole @ 8:00 p.m.
3-2-88	Ran 7 Jts. (225.11') of new 8-5/8" 20# surface casing. Set @ 239' by Allied Cement w/140 sx. 60/40 Poz, 3% C.C., 2% Gel. Plug down @ 3:15 a.m. Drill plug out @ 11:15 a.m.
3-3-88	At 7:00 a.m. - Drilling @ 1731'.
3-4-88	At 7:00 a.m. - Drilling @ 2630'.
3-5-88	At 7:00 a.m. - Drilling @ 3220'. Bit trip. At 3:00 p.m. - Drilling @ 3298'.
3-6-88	At 7:00 a.m. - Drilling @ 3540'. Prepare to run D.S.T. #1 3657'-3690'.
3-7-88	Run D.S.T. #1. At 7:00 a.m. - TIH w/bit. At 9:00 a.m. - Drilling @ 3704'. Prepare to run D.S.T. #2 3777'-3807'.
3-8-88	Run D.S.T. #2. At 7:00 a.m. - Drilling @ 3807'. Run D.S.T. #3 3808'-3852'.
3-9-88	At 7:00 a.m. - Running D.S.T. #4. Drill to R.T.D. @ 3885'.
3-10-88	Log well. Plug and abandon the #1 Dreiling. Release rig @ 4:00 a.m.

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FORMATION LOG TOPS

Stone Corral	1534'	(+679)
Topeka	3220'	(-1007)
Heebner Shale	3452'	(-1239)
Toronto	3474'	(-1261)
Lansing/K.C.	3492'	(-1279)
Base/Lansing K.C.	3742'	(-1529)
Marmaton	3783'	(-1570)
Upper Conglomerate	3820'	(-1607)
Lower Conglomerate	----	----
Arbuckle	3836	(-1623)

SAMPLE DESCRIPTION

NOTE: Samples were examined wet, logged back on drilling time and corrected for log tops.

Zones of Interest:

Topeka 3220 (-1007)

Limestone, buff, crystalline, sucrosic, pinpoint & tr. of microvugular porosity, crumbly, chalky in part; spotted show of free oil (looks wet), bright fluorescence; slow, milky streaming cut (enhanced on break and with acid); good odor.
NOTE: This porous zone is structurally 4' low to the porous zone in the Herbert #1 which yielded water on a drill stem test.

Heebner Shale 3452 (-1239)

Shale, dark black w/greasy lustre, firm, soft, blocky, fissile.

Toronto 3474 (-1267)

Limestone, white, microcrystalline, crumbly, chalky, v. tight.

Lansing-Kansas City 3500 (-1288)

3492-3501: Limestone, buff to grey, microcrystalline, sucrosic, hard, tight; fossiliferous in part. No shows.

3503-3514: Limestone, buff to grey, microcrystalline, hard, tight. No shows.

3524-3536: Limestone, buff, microcrystalline, sucrosic, hard, tight; tr. chert. No shows.

3541-3556: Limestone, buff to lt. tan, microcrystalline, hard, tight; tr. dead oil stain (no free oil), no cut.

3566-3574: Limestone, buff to lt. tan, microcrystalline, hard, tight; tr. dead oil stain (no free oil), no cut.

3566-3574: Limestone, buff, microcrystalline, hard, tight; oolitic in part; v. spotty lt. stain. No odor.

3576-3588: Limestone, buff to lt. tan, crystalline, hard, tight; fossiliferous in part; scattered stain (no show of free oil); v. wk. odor.

3590-3613: Limestone, lt. buff to buff, crystalline, sucrosic, hard, tight, chalky in part; slight show of free oil (enhanced w/break), fluorescence; slow, milky cut; v. wk. odor.

3629-3644: Limestone, buff, crystalline, sucrosic, hard, tight; v. slight show of free oil. No odor.

3650-3670: Limestone, lt. buff, crystalline, slightly crumbly, fine pinpoint porosity; v. slight show of free oil. No odor.

3674-3688: Limestone, buff, crystalline, slightly crumbly, pinpoint porosity; show of free oil (enhanced w/break), dull fluorescence, streaming cut; v. weak odor.
Tested by D.S.T. #1.

3690-3718: Limestone, white to lt. buff, microcrystalline, hard, tight, chalky in part; v. scattered slight show of free oil (beaded), stain. No odor.

3721-3744: Limestone, white to lt. buff, crystalline, fossiliferous in part (micro-oolites), hard, tight; scattered show of free oil (enhanced w/break), fluorescence. No odor.

Marmaton 3783 (-1570)

Chert, lt. buff to orange, v. dense, hard.
Weathered chert: tan, sucrosic, hard, semi-tight; show of free oil (enhanced w/break - slow "popping" out of cutting), dull fluorescence; dull, slow, milky cut (enhanced w/break & "popping" cut w/acid); odor.
Tested by D.S.T. #2.

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Upper Conglomerate 3820 (-1607)

Sandstone, white, very fine grain conglomerate, quartzitic, rounded, sub-angular, well indurated, tightly cemented w/weak dolomitic cement; tight show of free oil (enhanced w/break - slow "popping" out of cutting), bright fluorescence, dull flash cut (slow "popping" milky cut w/acid); odor.
Tested by D.S.T. #3.

Arbuckle 3836 (-1623)

Dolomite, lt. buff, crystalline, sucrosic, weathered in part; fine pinpoint porosity increasing to fair pinpoint porosity with depth (intercrystalline porosity also increasing with depth); tight show of free oil in upper 27' of formation decreasing to very slight show of free oil then to no show of free oil (only scattered lt. stain) with depth through the formation; fluorescence, v. slow cut (good slow milky cut w/acid) decreasing w/depth to a v. weak cut only on break ("popping" weak cut w/acid); odor decreasing w/depth to a weak odor.
Tested by D.S.T. #3 and D.S.T. #4.

WELL SUMMARY

Carmen Schmitt, Incorporated's #1 Dreiling encountered the primary objective, the Arbuckle Formation, structurally flat with C&C Exploration's previously drilled #2 Herbert. However, effective Arbuckle porosity is not developed in the upper 27' of the formation, as evidenced by the recovery of oil cut mud from the two conclusive drill stem tests run over this interval. Since the base of the second drill stem test was structurally flat with the perforations in the #1 Herbert, 7' low to the bottom of the hole in the #1 Schumacher (the #2 Herbert and #1 Schumacher yielding free oil on drill stem tests of the Arbuckle Formation - both wells initially completed producing approximately 10% oil and 90% water) with an absence of developed effective porosity or permeability, it was deemed the Arbuckle Formation in the #1 Dreiling to be economically non-productive.

All other potentially productive zones in the #1 Dreiling were condemned on the basis of a lack of developed effective porosity, structural attitude and/or drill stem test results. As a result of the aforementioned data and information, it was decided by all parties present to plug and abandon the #1 Dreiling test well.

Respectfully submitted,

Richard P. O'Donnell
Petroleum Geologist
Sheets Oil Company