

FRANCIS WHISLER

PETROLEUM GEOLOGIST

MEMBER AAPG

RUSSELL, KANSAS 67665



GEOLOGICAL REPORT FOR

CENTURY OIL CO.

925 O. W. Garvey Bldg.
Wichita, Kansas 67202

WELL: Chrisler No. 1
200' West of SE NW SE
Section 22-11s-16w
Ellis County, Kansas

DEC 21 1971

Contractor:

H-30, Inc. Rig #4

Elevations:

Laughlin-Simmons Co.
Kelly Bushing: 1764'
Ground Level: 1759'
Measurements from K.B.

Drilling Commenced:

December 7, 1971

Drilling Completed:

December 18, 1971

Casing Record:

249' of 8 5/8" surface casing, cemented with 175 sx.

Samples:

Saved and examined from 2600' to 3390', R.T.D. Zones of interest described in this report. Samples will be sent to the Kansas Sample Bureau at Wichita, Kansas.

Drilling Time:

Kept and recorded from 2600' to 3390', R.T.D. A copy of the drilling time is included with this report.

Drillstem Tests:

6 by Superior Testers, and 1 by Sun Testers.

Electric Logs:

None

Formations:

Depths:	Datums:
915-956	/ 849
2687	- 923
2929	- 1165
2951	- 1187
2979	- 1215
3217	- 1453
3227	- 1463
3275	- 1511
3293	- 1529
3313	- 1549
3348	- 1584
3390	- 1626

Anhydrite:

Topeka Lime:

Heebner Shale:

Toronto Lime:

Lansing-Kansas City:

Base of Kansas City:

Marmaton Sand:

Conglomerate Sand:

Conglomerate Chert:

Simpson Shale:

Arbuckle Dolomite:

Total Depth:

mailed copy - partners 12/21/71
Kerry H. Hargrett
Sandra

Lithology, zones of interest; and Test Data:

Topeka Lime:

- 2718-2722: Lime; light gray, dark gray, crystalline, with rare spotty oil stain, slight show of free oil and faint oil odor. Slight porosity. Tested by drillstem test #1.
- 2744-2750: Lime; dark gray, crystalline, dense, with rare scattered oil stain, and poor porosity. Tested by drillstem test #1.
- 2754-2760: Lime; gray-buff, fine crystalline, mottled appearance, slight chalky, with rare scattered oil stain and faint oil odor. Slight porosity. Tested by drillstem test #1.

DRILLSTEM TEST No. 1 from 2709 to 2760: Tool open 30 minutes with weak blow. Tool shut in 30 minutes. Tool open 30 minutes with weak blow. Tool shut in 30 minutes.

Recovery:	65' of mud with few spots of oil
Initial BHP:	992 psi
Final BHP:	960 psi
Flow Pressures:	80 to 96 psi

- 2920-2924: Lime; gray-buff, crystalline, chalky and slight fossiliferous, with trace of oil stain. Not considered of any value.

Toronto Lime:

- 2951-2956: Lime; white, buff, crystalline, slight cherty, with scattered light oil stain, slight show of free oil and faint oil odor. Slight porosity. Tested by drillstem test #2.

DRILLSTEM TEST No. 2. from 2927-2960: Tool open 30 minutes with very weak blow. Tool shut in 30 minutes. Tool open 30 minutes with very weak blow. Tool shut in for 30 minutes.

Recovery:	50' of mud with a few oil spots
Initial BHP:	1047 psi
Final BHP:	984 psi
Flow pressures:	32 to 56 psi

Lansing-Kansas City:

- 3008-3015: Lime; white, light gray, crystalline, chalky, cherty, and trace of fine oolitic lime. Rare oil stain, nor free oil or odor. Poor visible porosity. Considered to be of no value. (Tested mostly water of offset abandoned well).
- 3026-3042: Lime; white, light gray, buff, crystalline to chalky, and mostly dense. Trace of light and dark oil stain. No free oil or odor. Increase of stain in lower part. Tested by drillstem test #3.

Lithology, cont

3052-3056: Lime; white, buff, crystalline, chalky and cherty. Scattered oil stain, and poor porosity. Tested by drillstem test 3.

3060-3068: Lime; white, light gray, buff, crystalline, vuggy, and chalky. Scattered light oil stain, with show of free oil and faint oil odor. Some chert. Tested by drillstem test #3.

DRILLSTEM TEST No. 3, 3029 to 3068: Tool open 30 minutes with very weak blow four minutes. Tool shut in 30 minutes. Tool open for 30 minutes, with no blow. Tool shut in 30 minutes.

Recovery: 5' of drilling mud
Initial BHP: 96 psi
Final BHP: 64 psi
Flow pressures: 32 to 32 psi

3110-3120: Lime; white, light gray, buff, crystalline, slight chalky, with trace of vuggy porosity. Rare light oil stain. No free oil and no odor. (This zone supposedly produced on abandoned offset well). Tested by drillstem #4.

DRILLSTEM TEST No. 4: 3091-3120: Tool open 30 minutes with weak blow. Tool shut in 30 minutes. Tool open 30 minutes with no blow. Tool shut in 30 min.

Recovery: 30' drilling mud with slight show of oil
Initial BHP: 744 psi
Final BHP: 744 psi
Flow Pressures: 48 to 56 psi

3132-3136: Lime; white, light gray, chalky crystalline, and partly fine oolitic, with rare oil stain and no free oil. Tested by drillstem test #5.

3151-3156: Lime; white, light gray, chalky crystalline, with oolitic porosity. Rare scattered oil stain, and no free oil. Questionable faint odor. Tested by drillstem test #5.

DRILLSTEM TEST No. 5 from 3127 to 3167: Tool open 30 minutes with weak blow. Tool shut in 30 minutes. Tool open 60 minutes with weak blow. Tool shut in 30 minutes.

Recovery: 50' of muddy water
Initial BHP: 880 psi
Final BHP: 800 psi
Flow pressures: 48 to 80 psi

3181-3192: Lime; white, light gray, crystalline, slight oolitic, and tan vuggy, with scattered oil stain, slight show of free oil and oil odor. (This zone produced on abandoned offset well). Tested by drillstem test #6.

DRILLSTEM TEST No. 6: 3165 to 3193: Tool open 30 minutes with weak blow for 20 minutes. Tool shut in 30 minutes. Tool open 30 minutes with no blow. Tool shut in 30 minutes.

Recovery: 10' Of drilling mud
Initial BHP: 112 psi
Final BHP: 64 psi
Flow pressures: 40 to 48 psi

Lithology, cont.

Marmaton Sand:

3227-3235: White, chalky, very fine sandy lime, and grading to very fine grained, calcareous sandstone. Rare oil stain, no free oil and no odor. Only slight porosity. Considered to be of no commercial value. This zone tested muddy water on abandoned offset well.

Conglomerate Sand:

3275-3280: Sand; medium to coarse grained, clear, subrounded, with good clustering. Abundant shales, and some lime. Scattered dark oil stain and some dead oil stain. Appeared porous. Tested by drillstem test #7.

3280-3293: Shale; abundant soft, red-maroon, and gray-green

Conglomerate Chert:

3293-3305: Chert; red, yellow, and various colored cherts. Abundant sand clusters as above, with dark and dead oil stain. Appeared porous. Tested by drillstem test #7.

DRILLSTEM TEST No. 7: 3266 to 3305: Tool open 30 minutes with weak blow for 12 minutes. Tool shut in 30 minutes. Tool open 30 minutes with no blow. Tool shut in 30 minutes.

Recovery:	7' of drilling mud
Initial BHP:	43 psi
Final BHP:	34 psi
Flow pressures:	17 to 17 psi

Simpson Shale:

3313-3348: Shale; brown, maroon, green, and some waxy green shales with fine sand inclusions. Some evidence of yellow crystalline dolomite (Simpson Dol), and no shows of oil.

Arbuckle Dolomite:

3348-3390: Dol; buff, crystalline, oolitic and cherty in the upper part and grading to light gray, fine to medium crystalline, porous in lower part. No shows of oil.

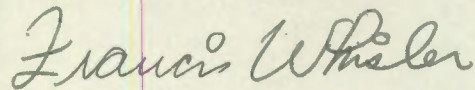
Remarks & Recommendations:

On top of the Lansing, the Chrisler #1 ran one foot lower than the offset abandon-producing well. On top of the Arbuckle, the Chrisler ran eleven feet higher.

Several zones of oil staining, that appeared to have some commercial value were tested by drillstem test, and the results were negative. Porosity and permeability seemed to be lacking, as no good fluid recoveries obtained. Structurally, the test should have been high enough to produce.

Because of the negative results on drillstem tests, it was advised that the Chrisler #1 be plugged and abandoned as a dry hole.

Respectfully submitted;

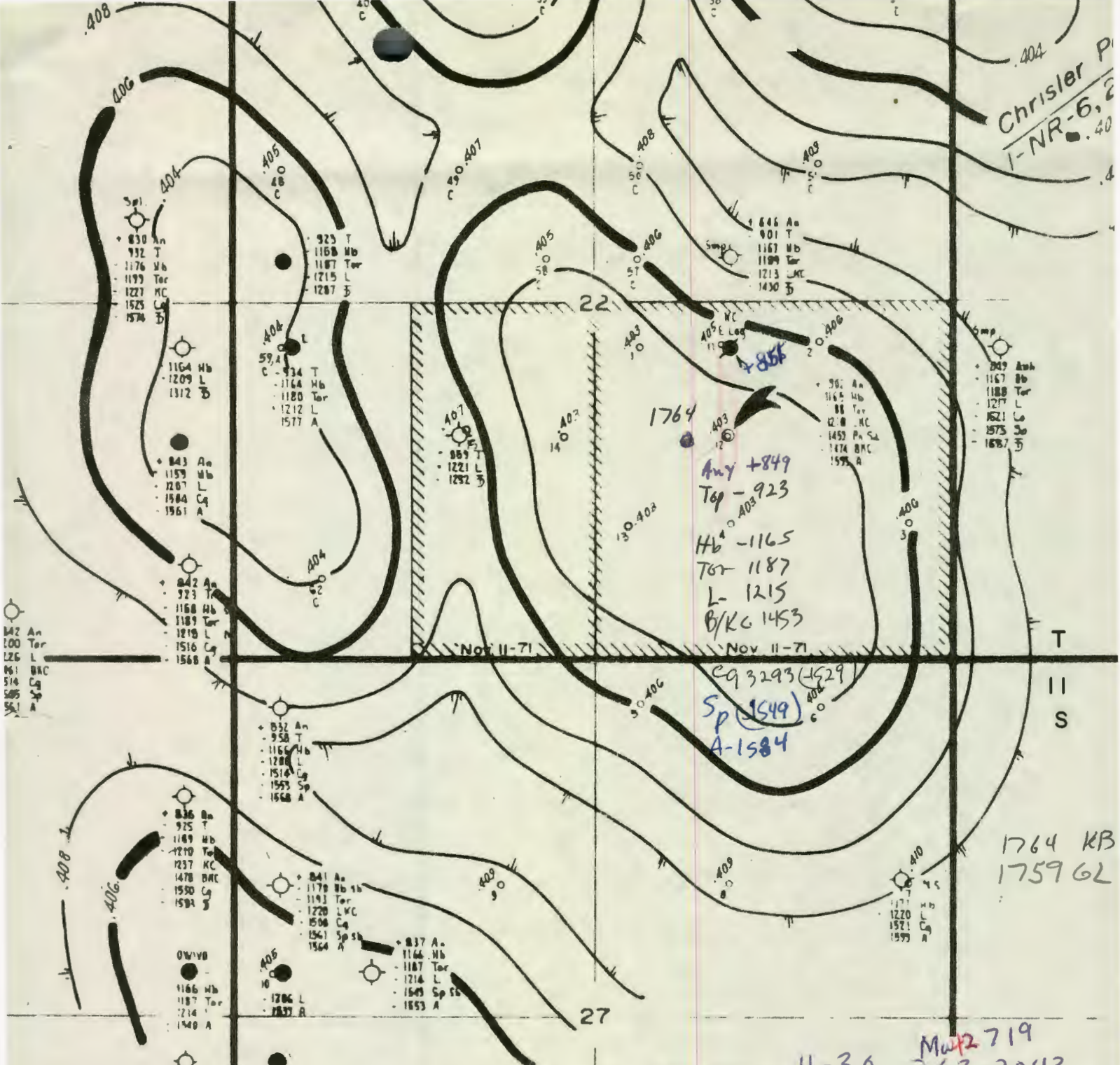
A handwritten signature in cursive script, reading "Francis Whisler". The ink is dark and the handwriting is fluid, with the first letters of "Francis" and "Whisler" being capitalized and prominent.

Francis Whisler

DRILLING TIME:

2600-2650:	1 1 2 3 3	3 2 3 2 3	2 2 1 2 2	2 2 2	3 2	3 2 3 2 3	
	2 2 2 3 3	3 2 2 1 2	1 1 $\frac{1}{2}$ $\frac{1}{2}$ 1	1 1 2	2 2	2 2 2 2 3	
2650-2700:	2 3 4 3 3	2 2 2 2 2	2 2 2 2 2	2 3 2	2 2	2 3 2 3 3	vis. 45
	3 3 3 2 3	3 2 2 2 3	2 3 3 4 4	3 6 4	4 4	3 3 3 3 3	
2700-2750:	4 5 5 4 5	4 4 5 5 4	5 4 5 3 4	4 4 5	3 3	4 5 3 6 4	vis. 52
	5 5 4 6 6	5 3 5 7 7	6 5 3 4 3	3 4 5	5 6	7 8 7 8 8	
2750-2800:	6 6 6 4 3	4 5 4 4 5	2 3 3 3 3	4 4 4	3 4	4 3 5 4 5	New bit 2760
	4 6 4 6 5	5 4 4 4 5	4 4 4 3 1	2 1 2	3 3	2 3 2 4 5	
2800-2850:	6 3 3 4 3	3 3 3 3 3	3 4 4 5 5	4 5 5	5 7	6 7 5 6 5	vis. 40
	6 5 3 4 6	5 5 5 6 6	5 6 6 8 8	4 3 3	3 3	5 5 6 5 5	
2850-2900:	6 5 5 5 3	2 4 8 6 4	5 7 5 4 5	8 5 5	5 5	5 3 2 1 2	
	3 5 3 4 7	5 5 5 5 6	6 5 4 4 3	3 5 6	5 5	3 4 4 3 3	vis. 42
2900-2950:	4 4 4 5 5	4 6 3 5 5	6 5 6 6 6	7 6 7	7 5	6 6 7 8 8	
	6 9 7 6 4	4 3 3 4 5	11 4 5 4 6	5 5 4	3 5	6 6 5 5 5	vis. 42
2950-3000:	6 6 5 5 8	8 9 11 9 9	5 5 4 3 4	3 3 2	3 3	3 3 2 2 2	New bit 2960
	1 2 1 1 3	4 4 3 5 1	1 2 1 1 2	1 3 3	3 3	3 3 3 4 2	
3000-3050:	3 3 3 3 3	2 3 3 4 5	4 5 4 4 5	5 5 5	4 4	3 3 4 4 3	
	4 5 6 5 4	5 4 5 5 5	4 5 4 4 5	5 4 3	2 4	4 3 5 3 3	vis. 42
3050-3100:	3 5 7 6 5	3 4 4 6 4	1 2 3 4 5	5 6 6	8 8	9 6 4 6 7	vis. 39
	6 9 9 8 6	7 7 9 9 8	8 9 8 9 8	9 7 5	6 6	5 6 5 5 5	vis. 40
3100-3150:	4 2 6 8 6	5 4 6 5 4	6 6 6 6 7	6 4 5	7 6	5 7 7 8 4	Rerun bit 3120
	10 11 7 6 4	6 7 6 5 5	7 11 12 11 13	15 4	7 7 6	7 6 6 5 6	
3150-3200:	6 3 4 4 4	6 8 9 9 10	8 7 8 9 9	9 9 5	8 8	4 3 11 7 5	vis. 40
	4 4 7 4 5	4 5 4 4 9	8 8 8 8 8	9 6 8	5 7	6 7 8 9 7	New bit 3193
3200-3250:	8 5 3 5 5	5 2 4 5 5	5 4 3 4 6	6 5 3	3 4	4 3 4 4 4	
	3 5 5 4 4	5 3 5 5 5	4 5 5 3 3	3 5 4	5 2	4 3 4 4 4	
3250-3300:	4 4 5 5 5	5 4 5 4 4	6 5 6 5 6	6 6 5	6 6	5 4 5 6 6	vis. 41
	4 5 4 5 4	3 5 8 9 8	6 6 7 6 6	6 5 4	3 3	4 3 5 3 3	
3300-3350:	6 4 3 4 3	2 3 3 4 5	6 6 6 8 9	8 14 12 14	17	14 14 16 7 8	New bit 3305
	8 16 17 15	15 12 11 11 10 11	10 11 11 10 11	9 9 10 10 10			vis. 37
	9 8 6 4 2						
3350-3390:	3 7 9 7 5	8 6 4 8 8	5 10 9 5 8	7 6 6	6 5	3 5 4 7 4	
	2 4 9 8 6	10 6 5 5 5	7 8 7 9 9				vis. 42

Chrisler P
I-NR-6.2



200' west of
SE 80 SE

EI-17596L

Francis Whistler
~~Howard Switzer~~

PROSPECT : CHRISLER EAST POOL
COUNTY : ELLIS STATE : KANSAS

CENTURY OIL CO.

Contract Exploration Co., Inc.
918 Century Plaza Wichita Kansas

CONTOURED ON ANYH. TO APPROX. UNCONFORMITY (ISOTIME)
DATUM SEA LEVEL CONTOUR INTERVAL : 002 SEC
SCALE 1" = 1,000' DRAFTED BY F.G.V.
DATE 5-19-1971 APPROVED BY H.C. Schmitt

PST # 7 3266-3305
very wk blue 12" Rec 7' mud
FP 17-17 43-34

11-29 ~~MRT~~ Digging pits

12-6 MRT

12-7 Spud Today

12-8 Set 8 7/8 @ 249 w/ 175 SX plug down.
@ 5:15 AM 12/8

12-9 @ 1415 Arr 915-956 +849

12-10 @ 1563

12-11 @ 2003

12-12 @ 2593 Top 2687 (-923)

12-13 @ 2773 DST #1 2709-60 30-30-30-30
wk blue, Rec. 65' mud, few specks oil FP 80-96
BHP 9.92-960 #

12-14 Hb 2929 (-1165) DST #2 2927-60 30-30-30-30
Top 2951 (4187) very wk blue, 50' mud spts oil
32-56 # 1047-984 #

12-15 DST #3 3029-68 30-30-30-30 very wk blue 4"
Reopen / no blow Rec 5' mud, FP-32-32 #
SIP 96-64 #

Lans 2979 (4215) Prep to Run DST #4 3091-3120
wk blue 30" Reopen no blow
Rec 30' mud 5150
FP 48-56 744-744

12-16 DST #5 3127-67 30-30-30-30
wk blue thru out Rec 50' MW
48-80 880-800 #

12-17 DST #6 3165-93 30-30-30-30 wk blue 20" died,
Rec 10' mud FP 40-48 SIP 12-64 #
@ 3298

12-18 Sp 3313 (1549) Arr 3348 (1584) TD 3390 (1626)
D & A

GEOLOGICAL REPORT

CHRISLER EAST POOL PROSPECT

East Half of the Southwest Quarter (E/2 SW/4),
the Southeast Quarter (SE/4) Section 22-11S-16W

Ellis County, Kansas

INTRODUCTION

The area of interest consists of approximately 240 acres in Section 16-11S-16W, which is in the northeast corner of Ellis County, and located on a trend parallel to the strike and contained within the Central Kansas Uplift. The nearest producing pool is the Chrisler Pool, located on the western edge of the prospect.

GEOLOGY

Interpretation of both subsurface and seismic information indicate the possibility that the area of interest, the Chrisler East Pool, could be underlain with a structure similar in nature to the Chrisler South Pool, located 1/2 mile southwest.

The Chrisler South Pool discovery well was drilled in the SW SW NW of Section 27-11S-16W, by Rupp-Ferguson in June, 1958. It was completed for 292 barrels of oil per day from several zones in the Lansing-Kansas City at a depth of 3013-3158. (Reported by Independent Oil and Gas Service)

Another anomaly, similar in nature to the Chrisler South Pool, is the Chrisler Pool which is located adjacent to the western edge of the prospect. The discovery well was drilled in the SW SW NW of Section 22-11S-16W, by Pabco Drilling Company in May, 1952. It was completed for 25 barrels of oil per day from several zones in the Lansing-Kansas City from a depth of 3038-3102.

Subsequent to this, in August 1968, Prospect Oil and Shield Oil Production drilled the #1 Chrisler in the NE NW SE of Section 22-11S-16W. This well was completed for 73 barrels of oil per day plus 35% water from the Lansing-Kansas City, at a depth of 3186-3217, and was designated the discovery well of the Chrisler East Pool, and is located on the tract. The confirmation well, drilled one location north, was structurally low and was dry and abandoned. The discovery has since been plugged and abandoned.

PRODUCTION HISTORY

The Vance Rowe Reports for December, 1970, lists the Chrisler East Pool as having produced 6,225 barrels of oil before being abandoned.

The Chrisler Pool is listed as having produced a total of 156,394 barrels of oil. One well of the three(3) well field is still producing at an average of 7 barrels of oil per day.

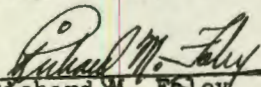
The Chrisler South Pool is listed as having produced 373,296 barrels of oil. The eight (8) well pool is still averaging 30 barrels of oil per day.

The nearest Arbuckle production is in the Leib East Pool, located 1 mile northwest of the prospect, (Section 16-11S-16W). Four (4) Wells in the Southwest Quarter were originally completed in the Arbuckle formation with Lansing-Kansas City behind the pipe. Vance Rowe Reports of December 1970, lists these wells as having produced 181,110 barrels of oil. Three (3) of the wells have recovered a total of 130,355 for a cumulative total of 311,465 barrels of oil.

CONCLUSIONS

Interpretation of seismic and subsurface data indicate an anomaly, including the Chrisler East Pool, could exist under the area of interest. It is recommended that a well be drilled in the SE NW SE/4, Section 22 to a depth sufficient to test both the Lansing-Kansas City formation and the Arbuckle dolomite.

Respectfully submitted,


Richard M. Foley