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FROM CONFIDENTIAL

WELL HISTORY
ENSIGN OPERATING CO.
NO. 1-19 COBERLY PARTNERSHIP
ZIEGENBALG PROSPECT
SE NW SE SEC. 19, T15S, R28W
GOVE COUNTY, KANSAS

BY

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STRIP LOG (WITH DRILL TIME, LITHOLOGY AND HOT WIRE MEASUREMENTS)	ATTACHED

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SYNOPSIS

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The Ensign Operating Co. No. 1-19 Coberly Partnership, SE NW SE Sec. 19 T15S, R28W, Gove County, Kansas, was a 4350-foot wildcat well to test the Pennsylvanian Lansing in the Ziegenbalg Prospect. The basis for the prospect was an interpretation of geophysical and subsurface data. The Pennsylvanian Lansing I and J intervals were the main exploratory objectives of this wildcat well.

The Pennsylvanian Lansing I and J intervals were structurally low to the offset wells and the interpreted structural position. Lithologic samples had a weak oil show in both intervals. A drill-stem test of the Lansing J interval recovered water.

An evaluation of the potential oil reservoirs by an examination of the lithologic samples was hampered by the size of the cuttings. The cuttings were smaller than normal in size. The drill string was under compression during drilling. The whipping action of the drill string pulverizes the cuttings as they come up the hole. This is a common drilling problem with drilling rigs in Kansas.

An evaluation of lithologic samples, a drill-stem test and borehole geophysical logs indicate that the well contains no commercially producible oil or gas. The well was plugged and abandoned on September 26, 1992.

GENERAL WELL INFORMATION

Operator: Ensign Operating Co.

Well Name: No. 1-19 Coberly Partnership API No. 15-063-21 439

Location: SE NW SE Sec. 19, T15S, R28W, 1560' FSL, 2100' FEL

County: Gove

State: Kansas

Prospect: Ziegenbalg

Elevation: G.L. 2464' K.B. 2469'

Date Spudded: September 19, 1992 @ 4:45 P.M.

Date Drilling Completed: September 25, 1992 @ 11:55 A.M.

Total Depth: Driller 4350' Logger 4352'

Status: Plugged and Abandoned

Drill-Stem Tests: DST No. 1 3880'-3923' Lansing J
30-30-30-30
I.O. Strong blow throughout.
F.O. Weak blow throughout.
Rec: 60' Watery mud. 25% water, 75% mud w/show oil.
180' Muddy water. 65% water, 35% mud.
1130' Water/ Rw 0.08 @73°F, 56 000 ppm Chlorides
HP 1827-1828 psi
FP 500-565:665-676 psi
SIP 665-676 psi
BHT 126° F

Western Testing Co., Inc. Ray Schwager, Testor

Cores: None

Logging Program: DIL/GR/SP 0' - 4351'
BCN/DEN/GR/Cal 3131' - 4333'
SON/GR 202' - 4351'

Davis Great Guns Logging, Inc. Steve Giebler Engineer

Sample Program: 10' Samples 3331'-4350'
Samples examined and described at well site. Samples were caught on depth intervals by rig crews. Samples were lagged by geologist. All depths reported herein are lagged depths.

Mud Logging: None

Mud Program: MUD-CO Inc.

Lost Circulation: None

Drilling Engineer: Herb Brady

Contractor: Murfin Drilling Co.
Rig No. 3, Keith Van Pelt, Tool Pusher

<u>Bit Record:</u>	No.	Size	Make	Type	Depth Out	Feet	Hours
	1	12.250"	SEC	S33S	234'	229'	2.50
	2	7.875"	HTC	J2	2120'	2001'	17.50
	3	7.875"	HTC	ATJ11H	4350'	2230'	74.00
	Total Rotating Hours		94.00				
	Average Feet/Hour		46.28				

Deviation Record: 1/2° @ 234'
1/2° @ 2120'
1 1/8° @ 3923'
3/4° @ 4350'

DAILY DRILLING REPORT

No. 1-19 Coberly Partnership

7:00 A.M. Reports

1	September 19, 1992		0' (0') MIRT, Spud @ 4:45 P.M.
2	Sun	20	234' (234') Set 8 5/8" @ 234'. Plug Down @ 10:45 P.M., Hr. Drill Plug @ 7:00 A.M.
3	Mon	21	2235' (2001')
4	Tue	22	3010' (1009')
5	Wed	23	3695' (685')
6	Thru	24	3923' (228') DST No. 1 3880'-3923' Lansing J
7	Fri	25	4270' (347')
8	Sat	26	4350' (80') Logging, Plug and Abandon.

FORMATION TOPS No. 1-19 COBERLY PARTNERSHIP

G.L. 2464' K.B. 2469'	Landmark No. 1-19 Coberly SE SE SE 19-15S-28W K.B. 2489'	Drill Time and Samples	Wire Line Geophysical Logs
Tertiary	Surface +2484'	Surface +2464'	Surface +2464'
Cretaceous			
Turonian			
Niobrara			
Fort Hays	146' +2343'	NDT	106' +2363'
Cenomanian			
Greenhorn	440' +2049'	NDT	403' +2066'
Graneros	553' +1936'	NDT	530' +1939'
Albian			
Dakota	590' +1899'	NDT	564' +1905'
Kiowa	895' +1594'	NDT	862' +1607'
Cheyenne	990' +1499'	NDT	964' +1505'
Permian			
Leonardian			
Nippewalla Gr.			
Blaine	1344' +1145'	1340' +1129'	1324' +1145'
Cedar Hills	1452' +1037'	1440' +1029'	1440' +1029'
Sumner Gr.			
Stone Corral	1906' +583'	1890' +579'	1888' +581'
Ninnescah	1938' +551'	1923' +546'	1922' +547'
Wellington	2228' +261'	2208' +261'	2206' +263'
Wolfcampian			
Chase Gr.			
Herington	2423' +66'	2405' +64'	2404' +65'
Krider	2445' +45'	2433' +36'	2432' +37'
Winfield	2495' -6'	2473' -4'	2476' -7'
Towanda	2560' -71'	2542' -73'	2540' -71'
Wreford	2665' -176'	2658' -180'	2654' -176'
Council Grove Gr.	2700' -211'	2680' -211'	2680' -211'
Pennsylvanian			
Virgilian			
Wabaunsee	3228' -739'	3210' -741'	3208' -739'
Douglas Gr.			
Heebner	3610' -1121'	3995' -1126'	3594' -1125'
Missourian			
Lansing-Kansas City	3647' -1158'	3630' -1161'	3630' -1161'
B	3673' -1184'	3652' -1183'	3657' -1188'
C	3695' -1206'	3674' -1205'	3680' -1211'
D	3724' -1235'	3707' -1238'	3708' -1239'
E	3758' -1269'	3738' -3742'	3742' -1273'
F	3804' -1315'	3789' -1320'	3788' -1319'
G	3814' -1325'	3799' -1330'	3798' -1319'
H	3841' -1352'	3824' -1355'	3822' -1353'
I	3875' -1386'	3861' -1392'	3860' -1391'
Stark Shale	3901' -1412'	3901' -1413'	3880' -1411'

FORMATION TOPS No. 1-19 COBERLY PARTNERSHIP

	G.L. 2464' K.B. 2469'	Landmark No. 1-19 Coberly SE SE SE 19-15S-28W K.B. 2489'	Drill Time and Samples	Wire Line Geophysical Logs
Pennsylvanian				
Kansas City Gr.				
	Hushpuckney Shale	3936' -1447'	3923' -1454'	3922' -1453'
	Base Kansas City Gr	3980' -1491'	3962' -1493'	3962' -1493'
Desmoinesian				
	Marmaton Gr.	4005' -1516'	3976' -1507'	3980' -1511'
	Shale Marker	4098' -1609'	4072' -1603'	4074' -1605'
	Pawnee	4140' -1651'	4114' -1645'	4114' -1645'
	Fort Scott	4172' -1683'	4144' -1675'	4144' -1675'
	Cherokee Gr.	4200' -1711'	4172' -1703'	4172' -1703'
	Terra Rossa	4277' -1788'	4236' -1767'	4236' -1767'
Mississippian				
Meramecian				
	St. Louis	4307' -1818'	4259' -1790'	4258' -1789'
Total Depth		4351' -1862'	4350' -1881'	4352' -1883'

Ensign Operating Co.
No. 1-19 Coberly Partnership
SE NW SE Sec. 19, T15S, R28W
Gove County, Kansas

Sample examination commenced at 3331 feet and continued to total depth at 4350 feet. Samples were caught by crews on depth intervals and lagged by geologist. All depths reported herein are lagged depths. A 10 foot sample interval was used from 3331 feet to 4350 feet.

- 3331 - 3342 Shale (70%), gray, red. Limestone (30%), gray, mudstone, wackestone. Cuttings are very small in size, drilling with water. Most of shale is probably cavings.
- 3342 - 3352 Shale (80%), gray, red. Limestone (20%), gray, mudstone, wackestone.
- 3352 - 3362 Shale (80%), gray, red, light gray. Limestone (20%), gray, mudstone, wackestone.
- 3362 - 3367 Shale (75%), gray, red, light gray. Limestone (25%), gray, mudstone, wackestone.
- 3367 - 3376 Shale (85%), gray, red, light gray. Limestone (15%), gray, mudstone, wackestone. Poor sample quality.
- 3376 - 3382 Shale (90%), red, gray, light gray. Limestone (10%), gray, mudstone, wackestone.
- 3382 - 3393 Shale (90%), red, gray, light gray. Limestone (10%), gray, mudstone, wackestone.
- 3393 - 3408 Shale (85%), red, gray, light gray. Limestone (15%), gray, mudstone, wackestone.
- 3408 - 3416 Limestone (50%), gray, tan, mudstone, wackestone. Shale (50%), gray, red, black.
- 3416 - 3427 Limestone (55%), gray, tan, mudstone, wackestone. Shale (45%), gray, red, black. Drilling with water, poor sample quality.
- 3427 - 3434 Limestone (80%), gray, tan, wackestone, mudstone. Shale (20%), gray, red.
- 3434 - 3448 Limestone (80%), gray, tan, wackestone, mudstone. Shale (20%), gray, red.
- 3448 - 3459 Limestone (85%), gray, tan, wackestone, mudstone. Shale (15%), gray, red.

- 3459 - 3471 Limestone (90%), gray, tan, wackestone, mudstone. Shale (10%), gray, red.
- 3471 - 3477 Limestone (90%), gray, tan, wackestone, mudstone. Shale (10%), gray, red, black.
- 3477 - 3488 Limestone (80%), tan, grayish tan, wackestone, mudstone. Shale (20%), gray, red, black.
- 3488 - 3502 Limestone (80%), tan, grayish tan, wackestone, mudstone. Shale (20%), gray, red, black.
- 3502 - 3514 Limestone (85%), tan, grayish tan, wackestone, mudstone. Shale (15%), gray, black, red. Drilling with water, cuttings are very small in size.
- 3514 - 3519 Limestone (65%), tan, grayish tan, wackestone, mudstone. Shale (35%), gray, black, red. Displacing water in hole with drilling mud.
- 3519 - 3524 Limestone (80%), tan, grayish tan, wackestone, mudstone. Shale (20%), gray, black, red. Displacing water in hole with drilling mud.
- 3524 - 3528 Limestone (90%), tan, grayish tan, wackestone, mudstone. Shale (10%), gray, black, red. Displacing water in hole with drilling mud.
- 3528 - 3540 Limestone (95%), tan, buff, light grayish tan, wackestone, mudstone. Shale (5%), gray, black, red. Sample quality is improving.
- 3540 - 3552 Limestone (95%), tan, buff, wackestone, mudstone, some packstone. Shale (5%), gray, black.
- 3552 - 3568 Limestone (100%), buff, tan, wackestone, mudstone, some packstone. Shale (trace), gray, black, green.
- 3568 - 3580 Limestone (90%), buff, tan, wackestone, mudstone, some packstone. Shale (10%), gray, black. Displacing water in hole with drilling mud, sample quality is improving.
- 3580 - 3588 Limestone (95%), tan, grayish tan, wackestone, mudstone. Shale (5%), gray, black.
- HEEBNER 3588' -1119'
- 3588 - 3600 Limestone (90%), tan, grayish tan, wackestone, mudstone. Shale (10%), black, gray.
- 3600 - 3612 Limestone (60%), grayish tan, tan, wackestone, mudstone. Shale (40%), black, gray.
- LANSING 3620' -1151'
- 3612 - 3626 Limestone (95%), grayish tan, tan, buff, wackestone, mudstone. Shale (5%), gray, black. Chert (trace), white, tan.

- 3626 - 3636 Limestone (75%), buff, tan, wackestone, mudstone. Shale (25%), gray, greenish gray, black.
- 3636 - 3645 Limestone (90%), buff, tan, wackestone, mudstone, trace oolitic packstone. Shale (10%), gray, black, greenish gray.
- 3645 - 3652 Limestone (100%), buff, light tan, wackestone, mudstone. Shale (trace), gray, black. Chert (trace), white.

LANSING B 3652' -1183'

- 3652 - 3662 Limestone (85%), buff, light tan, wackestone, mudstone. Shale (15%), gray, black, greenish gray. Chert (trace), white.
- 3662 - 3672 Limestone (95%), tan, buff, wackestone, mudstone, some packstone and oolitic packstone. Shale (5%), gray, black. Chert (trace), white.

LANSING C 3674' -1205'

- 3672 - 3680 Limestone (100%), buff, tan, wackestone, mudstone, some packstone and oolitic packstone. Shale (trace), gray, black, greenish gray. Chert (trace), white.
- 3680 - 3692 Limestone (100%), buff, tan, wackestone, mudstone, some packstone and oolitic packstone. Shale (trace), gray, black, greenish gray.
- 3692 - 3706 Limestone (100%), buff, light tan, wackestone, mudstone. Shale (trace), gray, greenish gray, black.

LANSING D 3707' -1238'

- 3706 - 3714 Limestone (100%), buff, light tan, wackestone, mudstone, some packstone. Shale (trace), gray, black, greenish gray.
- 3714 - 3721 Limestone (90%), buff, tan, wackestone, mudstone. Shale (10%), gray, black, light gray.
- 3721 - 3726 Limestone (95%), buff, tan, wackestone, mudstone. Shale (5%), gray, black, light gray.

LANSING E 3738' -1269'

- 3726 - 3742 Limestone (85%), buff, tan, wackestone, mudstone. Shale (15%), gray, black, light gray. Chert (trace-5%), white.
- 3742 - 3754 Limestone (90%), buff, tan, wackestone, mudstone. Shale (10%), gray, black, light gray. Chert (trace), white.
- 3754 - 3764 Limestone (100%), buff, light tan, wackestone, mudstone. Shale (trace), gray, black, light gray. Chert (trace), white.

- 3764 - 3776 Limestone (100%), buff, light tan, wackestone, mudstone. Shale (trace), gray, black, light gray. Chert (trace), white.
- 3776 - 3784 Limestone (90%), buff, tan, grayish tan, wackestone, mudstone. Shale (10%), gray, black, light gray.
- LANSING F 3789' -1320'
- 3784 - 3796 Limestone (90%), grayish tan, tan, buff, mudstone, wackestone. Shale (10%), gray, black, light gray. Chert (trace), white.
- LANSING G 3799' -1330'
- 3796 - 3806 Limestone (85%), tan, buff, wackestone, mudstone. Shale (15%), gray, black, light gray.
- 3806 - 3816 Limestone (90%), tan, buff, wackestone, mudstone. Shale (10%), gray, black, light gray. Chert (trace), white.
- 3816- 3824 Limestone (100%), tan, buff, wackestone, mudstone. Shale (trace), gray, black, light gray.
- LANSING H 3824' -1355'
- 3824 - 3832 Limestone (85%), grayish tan, tan, wackestone, mudstone. Shale (20%), gray, black, light gray. Chert (trace), white.
- 3832 - 3842 Limestone (85%), tan, grayish tan, wackestone, mudstone, trace vuggy porosity with bitumen and brown oil stain, dull yellow fluorescence, bleeding cut, good delayed residual ring. Shale (15%), gray, black, light gray. Chert (trace), white.
- 3842 - 3852 Limestone (90%), buff, tan, wackestone, mudstone. Shale (10%), gray, greenish gray, black.
- LANSING I 3861' -1392'
- 3852 - 3862 Limestone (85%), tan, buff, wackestone, mudstone, some packstone, trace vuggy porosity with light brown oil stain, dull yellow fluorescence, delayed streaming cut, good residual ring. Shale (15%), gray, black. Chert (trace), gray, tan. Circulated sample.
- 3862 - 3872 Limestone (90%), tan, buff, wackestone, mudstone, some packstone, trace oolitic packstone, trace vuggy porosity with light brown oil stain, yellow fluorescence, bleeding cut, good residual ring. Shale (10%), gray, black, light gray. Circulated sample.
- 3872 - 3873 Limestone (95%), tan, buff, wackestone, mudstone, some packstone, trace oolitic packstone, trace limestone with vuggy porosity, light brown oil stain, yellow fluorescence, bleeding cut, good delayed residual ring. Shale (5%), gray black, light green. Circulated sample.

- 3873 - 3877 Limestone (95%), buff, tan, wackestone, some packstone, trace oolitic packstone, mudstone, few pieces of limestone with vuggy porosity, light brown oil stain, yellow fluorescence, bleeding cut, good delayed residual ring. Shale (5%), black, gray, light gray.
- 3877 - 3881 Limestone (75%), tan, grayish tan, mudstone, wackestone. Shale (25%), black, gray, light gray, greenish gray.
- STARK SHALE 3882' -1413' LANSING J 3888' -1419'
- 3881 - 3890 Limestone (85%), tan, grayish tan, wackestone, mudstone, trace limestone with vuggy porosity, light brown oil stain, yellow fluorescence, bleeding cut, good delayed residual ring. Shale (15%), gray black, light gray, green.
- 3890 - 3900 Limestone (85%), tan, grayish tan, wackestone, mudstone, few pieces of limestone with vuggy porosity, light brown oil stain, yellow fluoorecence, bleeding cut, good delayed residual ring. Shale (15%), gray, black, light green.
- 3900 - 3912 Limestone (90%), grayish tan, tan, wackestone, mudstone. Shale (10%), gray, black, light gray.
- 3912 - 3916 Limestone (95%), grayish tan, tan, wackestone, mudstone. Shale (5%), gray, black.
- 3916 - 3918 Limestone (85%), grayish tan, gray, mudstone, wackestone. Shale (15%), gray, black, light gray. Chert (trace), gray. Circulated sample.
- 3918 - 3923 Limestone (85%), grayish tan, gray, mudstone, wackestone. Shale (15%), gray, black, light gray. Chert (trace), gray. Circulated sample.

DST No. 1 3880'-3923' Lansing J

30-30-30-30

I.O. Strong Blow Throughout

F.O. Weak Blow Throughout.

Rec: 60' Watery Mud. 25% Water, 75% Mud w/Show Oil.

180' Muddy Water. 65% Water, 35% Mud.

1130' Water. Rw 0.08 @ 73°F, 56 000 ppm Chlorides

HP 1827-1828 psi

FP 500-645:665-676 psi

SIP 665-676 psi

BHT 126° F

Western Testing Co., Inc. Ray Schwager, Testor

HUSHPUCKNEY SHALE 3923' -1454'

- 3923 -3929 Limestone (60%), gray, grayish tan, brown, wackestone, mudstone, some packstone. Shale (40%), black, gray.
- 3929 - 3937 Limestone (70%), gray, grayish brown, mudstone, some wackestone. Shale (30%), black, gray.
- 3937 - 3947 Limestone (80%), grayish tan, brown, light gray, mudstone, wackestone. Shale (20%), black, gray.
- 3947 - 3956 Limestone (85%), light gray, grayish tan, brown, mudstone, some wackestone. Shale (15%), gray, black.
- 3956 - 3962 Limestone (90%), light gray, grayish tan, mudstone, some wackestone. Shale (10%), black, gray.

BASE KANSAS CITY 3962' -1493'

- 3962 - 3978 Limestone (70%), light gray, grayish tan, grayish brown, mudstone, trace wackestone. Shale (30%), black, gray, pyritic.

MARMATON 3976' -1507'

- 3978 - 3987 Limestone (85%), light gray, grayish tan, grayish brown, mudstone, wackestone. Shale (15%), black, gray.
- 3987 - 3994 Limestone (75%), light grayish tan, wackestone, packstone, some mudstone. Shale (25%), gray, black.
- 3994 - 4008 Limestone (85%), grayish tan, tan, wackestone, mudstone. Shale (15%), gray, greenish gray, black.
- 4008 - 4018 Limestone (75%), grayish tan, tan, wackestone, mudstone, trace tan oolitic packstone, trace vuggy porosity with light brown oil and black bitumen stain, dull yellow fluorescence, streaming cut, delayed residual ring. Shale (25%), gray, greenish gray, black.
- 4018 - 4026 Limestone (80%), grayish tan, tan, wackestone, mudstone, trace oolitic packstone, trace of oomoldic packstone has oomoldic and vuggy porosity, light brown oil stain and dark brown-black bitumen stain, dull yellow fluorescence, streaming cut, delayed residual ring. Shale (20%), gray, black, greenish gray.
- 4026 - 4038 Shale (55%), gray, greenish gray, black. Limestone (45%), tan, light grayish tan, wackestone, mudstone, some tan oolitic packstone, trace vuggy and oomoldic porosity, light brown oil stain and dark brown-black bitumen stain, dull yellow fluorescence, streaming cut, delayed residual ring.
- 4038 - 4050 Shale (50%), gray, black, greenish gray. Limestone (50%), tan, grayish tan, mudstone, wackestone.

- 4050 - 4059 Limestone (90%), tan, light grayish tan, wackestone, mudstone, some packstone. Shale (10%), gray, greenish gray, black.
- 4059 - 4070 Limestone (90%), tan, buff, light grayish tan, wackestone, mudstone, trace packstone, trace vuggy porosity with dark brown bitumen stain and brown oil stain, very dull yellow fluorescence, streaming cut, delayed residual ring. Shale (10%), gray, greenish gray, black.
- SHALE MARKER 4072' -1603'
- 4070 - 4080 Limestone (80%), light grayish tan, tan, mudstone, wackestone, trace packstone. Shale (20%), gray, greenish gray, black.
- 4080 - 4091 Limestone (85%), tan, buff, light grayish tan, wackestone, mudstone. Shale (15%), gray, black, greenish gray.
- 4091 - 4099 Limestone (70%), tan, buff, light grayish tan, mudstone, wackestone, trace tan oolitic packstone. Shale (30%), gray, black, greenish gray.
- 4099 - 4111 Limestone (80%), buff, tan, light grayish tan, mudstone, wackestone. Shale (20%), gray, black, greenish gray.
- PAWNEE 4114' -1675'
- 4111 - 4120 Limestone (65%), buff, tan, light grayish tan, wackestone, mudstone. Shale (35%), black, gray, greenish gray.
- 4120 - 4129 Limestone (75%), tan, buff, grayish tan, mudstone, wackestone. Shale (25%), black, gray, greenish gray.
- 4129 - 4136 Limestone (85%), grayish tan, tan, light gray, mudstone, wackestone. Shale (15%), gray, greenish gray, black.
- FORT SCOTT 4144' -1675'
- 4136 - 4152 Limestone (75%), grayish tan, tan, mudstone, some wackestone, trace tan oolitic packstone. Shale (25%), gray, black, greenish gray.
- 4152 - 4157 Limestone (80%), grayish tan, tan, mudstone, wackestone. Shale (20%), black, gray, greenish gray.
- 4157 - 4168 Limestone (85%), grayish tan, grayish brown, mudstone, some wackestone. Shale (15%), black, gray.
- CHEROKEE 4172' -1703'
- 4168 - 4178 Limestone (70%), grayish tan, grayish brown, tan, mudstone, wackestone. Shale (30%), gray, black, greenish gray.

- 4178 - 4186 Limestone (80%), tan, grayish tan, grayish brown, wackestone, some oolitic packstone, mudstone. Shale (20%), black, gray.
- 4186 - 4196 Limestone (75%), tan, grayish tan, wackestone, mudstone, some oolitic packstone with black bitumen stain. Shale (25%), black gray, greenish gray.
- 4196 - 4208 Limestone (90%), light grayish tan, tan, wackestone, mudstone, some packstone, trace vuggy porosity with brown oil stain and dark brown bitumen stain, very dull yellow fluorescence, streaming cut, delayed residual ring. Shale (10%), black, gray.
- 4208 - 4216 Limestone (70%), light grayish tan, tan, mudstone, wackestone. Shale (30%), gray, black, bright green, greenish gray.
- 4216 - 4228 Limestone (90%), buff, tan, grayish tan, mudstone, wackestone. Shale (10%), gray, greenish gray, black.
- 4228 - 4236 Limestone (90%), buff, tan, light grayish tan, wackestone, mudstone, trace tan oolitic packstone. Shale (10%), gray, black, greenish gray.

TERRA ROSSA 4236' -1767'

- 4236 - 4246 Limestone (80%), grayish tan, tan, buff, wackestone, mudstone, trace white fine grained oolitic packstone, some limestone with red hematitic stain. Shale (20%), gray, black, greenish gray. Chert (trace), white.
- 4246 - 4259 Limestone (90%), buff, white, tan, fine grained packstone, wackestone, mudstone, oolitic packstone. Shale (10%), gray, black, red, reddish brown. Chert (trace), white, orange, red.

MISSISSIPPIAN UNCONFORMITY 4259' -1790'

- 4259 - 4270 Limestone (90%), buff, white, wackestone, packstone, oolitic packstone. Shale (5%), gray, black, ochre, red, reddish brown. Chert (5%), white, orange, light gray.
- 4270 - 4276 Limestone (90%), buff, white, wackestone, packstone, oolitic packstone. Shale (5%), gray, black, red, reddish brown, ochre. Chert (5%), white, yellow, red, orange, gray.
- 4276 - 4281 Limestone (95%), buff, white, wackestone, packstone, oolitic packstone, some with red hematitic stain. Shale (5%), gray, black red, ochre. Chert (trace), white, orange, gray.
- 4281 - 4291 Limestone (80%), buff, white, wackestone, packstone, oolitic packstone, some with red hematitic stain. Shale (5%), gray, black, light gray. Dolomite (10%), tan, fine crystalline. Chert (5%) white, gray, orange.

- 4291 - 4308 Limestone (95%), buff, white, wackestone, packstone, oolitic packstone, some with red hematitic stain. Shale (5%), gray, black, red. Dolomite (10%), tan, fine crystalline. Chert (trace), white, gray, orange.
- 4308 - 4320 Limestone (80%), grayish tan, buff, tan, wackestone, packstone, oolitic packstone with red hematitic stain. Shale (20%), gray waxey, black, gray light grayish green, red, ochre. Chert (trace), white, gray.
- 4320 - 4329 Limestone (90%), grayish tan, buff, tan, wackestone, packstone. Shale (10%). gray, black, greenish gray. Chert (trace), white, gray, orange.
- 4329 - 4336 Limestone (95%), grayish tan, tan, wackestone, packstone. Shale gray, black, red, green. Chert (trace), white, gray, orange.
- 4336 - 4342 Limestone (90%), grayish tan, tan, wackestone, packstone. Shale gray, black. Chert (trace), white, gray. Circulated sample.
- 4342 - 4348 Limestone (95%), grayish tan, tan, wackestone, packstone. Shale gray, black. Chert (trace), white, gray. Circulated sample.
- 4348 - 4350 Limestone (75%), grayish tan, tan, wackestone, coarse grained packstone. Dolomite (20%), tan, fine crystalline. Shale (5%), gray, black. Chert (trace), white, gray, tan. Circulated sample.

TOTAL DEPTH DRILLER 4350 FEET.
 TOTAL DEPTH LOGGER 4352 FEET.

SUMMARY

The Ensign Operating Co. No. 1-19 Coberly Partnership, SE NW SE Sec. 19 T15S, R28W, Gove County, Kansas, was a 4350-foot wildcat well to test the Pennsylvanian Lansing in the Ziegenbalg Prospect. The basis for the prospect was an interpretation of geophysical and subsurface data. The Pennsylvanian Lansing I and J intervals were the main exploratory objectives of this wildcat well.

No significant shows of oil were observed in the lithologic samples. Poor shows of oil were observed in the Lansing I and Lansing J intervals. The Lansing J interval was drill-stem tested. This test recovered water. The structural position of the prospective reservoirs was low.

An evaluation of lithologic samples, a drill-stem test and borehole geophysical logs indicate that the well contains no commercially producible oil or gas. The well was plugged and abandoned on September 26, 1992.