

REPORT COPY

GEOLOGICAL REPORT

CASINO PETROLEUM

Zahorsky 'A' #1
990' FSL & 330' FEL
Section 14-20S-11W
Barton County, Kansas

15-009-24860-00-00

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

OPERATOR: Casino Petroleum Company

WELL: Zahorsky 'A' #1
API # 15-009-24,860-00-00

LOCATION: 990' from the South Line
330' from the East Line
Section 14-20S-11W
Barton County, Kansas

FIELD: Chase-Silica

CONTRACTOR: Southwind Drilling Inc. (Rig #2)

DRILLING COMMENCED: 08-11-2005

DRILLING COMPLETED: 08-18-2005

DRILLING TIME: One (1) foot drilling time was recorded
from 2400' to 3308' RTD.

SAMPLES: Samples were saved and examined from 2550'
to 3308' RTD.

ELEVATIONS: 1748' Ground Level 1757' Kelly Bushing

MEASUREMENTS: All depths are measured from 1757' K.B.

CASING RECORD: 8 5/8" Surface Casing set @ 266' with 240 sxs. 60/40 poz
5 1/2" Production Casing set @ 3305' with 125 sxs.

FORMATION TESTING: Four (4) tests were run by Superior Testing, Inc.

MUD: Dombar Mud, Inc. (Chemical Mud)

OPEN HOLE LOGS: Log-Tech (CNL-CDL, DIL, & MEL)

PRODUCTION: Oil

FORMATION TOPS:

FORMATION	SAMPLE	LOG	DATUM
ANHYDRITE	*****	461'	+1296'
BASE ANHYDRITE	*****	477'	+1280'
HOWARD	2498'	2498'	- 741'
TOPEKA	2598'	2599'	- 842'
HEEBNER SHALE	2864'	2862'	-1105'
TORONTO	2881'	2879'	-1122'
DOUGLAS	2893'	2892'	-1135'
BROWN LIME	2986'	2986'	-1227
LANSING	3012'	3010'	-1253'
ARBUCKLE	3263'	3261'	-1504'
LOG TOTAL DEPTH	*****	3307'	-1550'
ROTARY TOTAL DEPTH	3308'	*****	-1551'

SAMPLE DESCRIPTIONS AND TEST DATA:

(All depths have been corrected to log measurements.)

TOPEKA:

2630-2638 Limestone, tan and buff, fossiliferous, slightly chalky, with poor visible porosity, no shows of oil were noted.

2772-2781 Limestone, buff and gray, oolitic and slightly fossiliferous, chalky in part, with trace of interoolitic and interparticle porosity, no shows of oil were noted.

TORONTO:

2879-2891 Limestone, white and gray, finely crystalline, slightly chalky, with trace of vugular pinpoint porosity, with black tarry asphaltic staining, no show of free oil, no odor.

LANSING:

3016-3021 Limestone, gray and white, oolitic and slightly fossiliferous, with slight spotted staining, slightly chalky, very slight show of oil on break, no odor.

3030-3035 Limestone, gray and white, finely crystalline, slightly oolitic and fossiliferous, as above, trace of scattered staining, slightly cherty, no show of free oil, no odor.

3048-3052 Limestone, cream and tan, dense to finely crystalline, slightly fossiliferous and oolitic, with poor to fair visible interparticle porosity, slight staining, very slight show of oil on break, light odor.

3090-3094 Limestone, tan and cream, very finely crystalline, oolitic and oolitic, with fair visible oolitic porosity, fair show of gassy free oil, fair spotted staining and saturation, fair to good odor. (Covered by D.S.T. No. 1)

FORMATION TEST NO. 1			
Lansing-Kansas City ('F' & 'G' zones)			
Tested from 3074'-3097'			
<i>Strong blow to BOB in 3 min.</i>	30 min.	I.H.P.	1459#
<i>Fair blow-back</i>	45 min.	I.F.P.	22# -28#
<i>Strong blow to BOB in 1 min.</i>	45 min.	I.S.I.P.	<u>747#</u>
<i>Fair blow-back</i>	60 min.	F.F.P.	37# -48#
		F.S.I.P.	<u>749#</u>
		F.H.P.	1442#
(SEE PRESSURE CHARTS AT END OF REPORT)			
RECOVERY:	1900' Gas in Pipe		
	33' Oil Cut Mud (10% Gas, 10% Oil, 80% Mud)		
	<u>62' Oil Cut Mud (60% Gas, 10% Oil, 20% Mud, 10% Water)</u>		
	95' Total Liquid Recovery		
TEMPERATURE:	97*		
CHLORIDES:	50,000 ppm (Recovery) 6,200 ppm (System)		

3148-3156 Limestone, tan and cream, finely crystalline, slightly oolitic and oolitic, with poor visible oolitic porosity, trace of scattered staining, no show of free oil, no odor.

3164-3170 Limestone, gray and tan, dense, finely crystalline, slightly oolitic, with poor visible porosity, no shows of oil were noted.

3181-3194 Limestone, tan and gray, finely crystalline, slightly oolitic and oolitic, with poor to fair visible intercrystalline and interoolitic porosity, trace of staining, very slight show of oil on break, light odor.

ARBUCKLE:

3261-3265 Dolomite, tan, fine to medium crystalline, with fair to good visible intercrystalline and slightly pinpoint porosity, light brown staining and saturation, slight show of free oil, fair to good odor. (Covered by D.S.T. No. 2)

FORMATION TEST NO. 2

Arbuckle

Tested from 3250'-3265'

		I.H.P.	1585#
<i>Strong blow to BOB in less than 1 min.</i>	30 min.	I.F.P.	209# -794#
<i>Good blow-back</i>	30 min.	I.S.I.P.	<u>868#</u>
<i>Fair blow to BOB in 4 min.</i>	30 min.	F.F.P.	804# -870#
<i>Fair blow-back</i>	30 min.	F.S.I.P.	<u>872#</u>
		F.H.P.	1551#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 120' Gas in Pipe
 1870' Oil Cut Water

TEMPERATURE: 105*

CHLORIDES: N/A (Recovery) 6,100 ppm (System)

3266-3275 Dolomite, tan and light tan, fine to medium crystalline, with fair visible intercrystalline porosity, fair spotted staining, slight show of free oil, good odor, as above.

3278-3290 Dolomite, tan and white, fine to medium crystalline, with fair to good visible intercrystalline and pinpoint vugular porosity, fair show of gassy, free oil, good odor. (Covered by D.S.T. No. 3)

FORMATION TEST NO. 3

Arbuckle

Tested from 3278'-3290'

		I.H.P.	1580#
<i>Strong Blow to BOB in 1 min.</i>	15 min.	I.F.P.	328# -685#
<i>No blow-back</i>	45 min.	I.S.I.P.	<u>893#</u>
<i>Strong Blow to BOB in 1 min.</i>	15 min.	F.F.P.	701# -853#
<i>No blow-back</i>	60 min.	F.S.I.P.	<u>895#</u>
		F.H.P.	1539#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 1880' Salt Water

TEMPERATURE: 105*

CHLORIDES: N/A ppm (Recovery) 6,100 ppm (System)

3291-3301 Dolomite, as above.

3302-3306 Dolomite, tan and brown, finely crystalline, sucrosic, friable, with fair to good visible intercrystalline porosity, fair show of free oil on break, fair to good staining, good odor. (Covered by D.S.T. No. 4)

FORMATION TEST NO. 4

Arbuckle

Tested from 3302'-3306'

<i>Strong Blow to BOB in 1 min.</i>	05 min.	I.H.P.	1646#
<i>No blow-back</i>	30 min.	I.F.P.	117# -471#
<i>Fair Blow to BOB in 2 min.</i>	05 min.	I.S.I.P.	<u>931#</u>
<i>Very weak blow-back</i>	30 min.	F.F.P.	152# -223#
		F.S.I.P.	<u>907#</u>
		F.H.P.	1635#

(SEE PRESSURE CHARTS AT END OF REPORT)

RECOVERY: 60' Gas in Pipe
 558' Slightly Oil Cut Water

TEMPERATURE: N/A

CHLORIDES: N/A ppm (Recovery) 6,000 ppm (System)

SUMMARY:

The Zahorsky 'A' #1 was under geological supervision from 2550' to 3308' RTD. 5 1/2" production casing was run based on the positive structural position, positive results from D.S.T. No.'s 1 and 2, and in reviewing the open hole logs.

Respectfully submitted,


Todd E. Morgenstern

HESS OIL COMPANY

225 N. Market, Suite 300
Wichita, Kansas 67202

(316) 263-2243

GEOLOGICAL REPORT

WERTH #1

520' FSL, 2310' FWL of

SECTION 16 - 15S - 22W

TREGO COUNTY, KANSAS

15-195-22335-00-00

Commenced: 3-27-06

Surface Pipe: 8-5/8" @ 211' KB

Completed: 4-16-06

Elevations: 2203' GR, 2208' KB

Contractor: Mallard J.V.

Production Pipe: 5½"

One foot drilling time was kept from 1540' to 1620' KB and from 3500' to RTD. Ten foot drilling samples were kept (wet & dry) from 4000' to rotary total depth.

Following are sample tops, descriptions of zones of interest (including all shows of oil & gas), and the results of all drill stem tests.

<u>ANHYDRITE</u>	<u>1559</u>	<u>(+649)</u>
<u>BASE ANHYDRITE</u>	<u>1599'</u>	<u>(+609)</u>
<u>HEEBNER</u>	<u>3552</u>	<u>(-1344)</u>
<u>TORONTO</u>	<u>3576</u>	<u>(-1368)</u>
<u>LANSING</u>	<u>3592</u>	<u>(-1384)</u>

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Werth #1
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<u>STARK SHALE</u>	<u>3805</u>	<u>(-1597)</u>
<u>BASE KANSAS CITY</u>	<u>3854</u>	<u>(-1646)</u>
<u>MARMATON</u>	<u>3881</u>	<u>(-1673)</u>
<u>PAWNEE</u>	<u>3946</u>	<u>(-1738)</u>
<u>FORT SCOTT</u>	<u>4032</u>	<u>(-1824)</u>
<u>CHEROKEE SHALE</u>	<u>4055</u>	<u>(-1847)</u>
<u>CHEROKEE SAND</u>	<u>4139</u>	<u>(-1931)</u>

4139-46' KB

Clear, fine to medium grained, well rounded, fairly sorted, sandstone clusters & loose grains. Some white sharp cherts. Good show of free oil in good intergranular porosity, fair odor, good stain, and a strong cut.

ROTARY TOTAL DEPTH 4146 (-1938)

DRILL STEM TEST #1 4055 - 4146' KB 91' Anchor

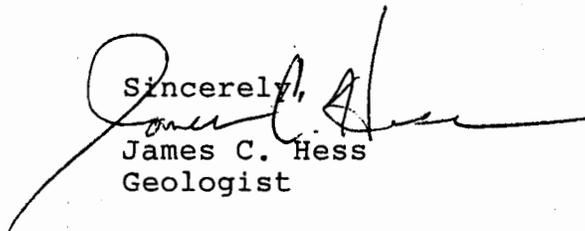
Blow: bottom of bucket in 6 min. then bottom of bucket 6 min. - again!

Times: Open 15, Closed 30, Open 15, Closed 30.

Recovered: 870' Mud Cut Oil

Pressures: IH 2000# IF 59 - 234# ISIP 1271#
FH 1897# FF 249 - 377# FSIP 1272#

It was decided NOT to run logs and open hole the pay zone. 5½" 14# casing was set 7' off bottom and cemented w/500 gals chemical mud flush & 150sx EA-II cement. A D.V. Tool was set @ 1520' KB and cemented to surface w/200sx SMDC. 30sx circulated to surface! Surface pipe was set on 3-27-06 due to lease expiration of 4-10-06, then planned repairs were made to the rig. The well was finished from 4-10-06 to 4-16-06.

Sincerely,

James C. Hess
Geologist

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