

15-195-22123

11-125-22w

Computer Inventoried

J E J

K C C

JUL 14 1993

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Geological Report

Chief Drilling, Inc.
Adams #3
150' EAST of NE/4 NW/4 SE/4
SECTION 11-T12S-R22W
TREGO COUNTY, KANSAS

RECEIVED
STATE CORPORATION COMMISSION

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CONSERVATION DIVISION
Wichita, Kansas

Chief Drilling, Inc.
Adams #3

J.E. Jespersen
Page 1

June 21, 1993

Chief Drilling, Inc.
ADAMS #3
150' E, NE/4 NW,4 SE/4
Section 11-T12S-R22W
Trego County, Kansas

Field: Sherfick NW
Elevations: 2352 Kelly Bushing
2349 Derrick Floor
2345 Ground Level

Wellsite Geologist: J.E. Jespersen
Contractor: Chief Drilling Inc.
Commenced: June 11, 1993
Completed: June 20, 1993
Rotary Total Depth: 4075 Feet
Log Total Depth: 4077 Feet
Surface Casing: 8 5/8" @ 249' with 160 sacks
Production Casing: None - Dry and Abandoned
Electrical Surveys: Wire Tech: Gamma Ray-Neutron-Guard-Caliper
Hole Size: 12 1/4" from surface to 249'
7 7/8" from 249 to 4075' (RTD)

General Information: Samples saved from 3300 to 4075' (RTD).
Drilling time kept from 1760-1925' and 3200 to
4075' (RTD). Samples examined from 3300 to 4075'
(RTD). Drilling supervised from 3325 feet to RTD.
Mud up at 3100'. Mud type, Chemical.

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Formation	LOG TOPS		SAMPLE TOPS		Structural Comparison
	Top	Datum	Top	Datum	
T/Anhydrite	1792 +	560	1796 +	556	2' High
B/Anhydrite	1838 +	514	1840 +	512	Flat
Topeka	3398 -	1046	3398 -	1046	3' Low
Heebner	3614 -	1262	3615 -	1263	2' Low
Lansing	3648 -	1296	3648 -	1296	3' Low
Muncie Creek	3776 -	1424	3776 -	1424	2' Low
Stark	3843 -	1491	3844 -	1492	2' Low
B/Kansas City	3883 -	1531	3888 -	1536	2' High
Marmaton	3967 -	1615	3968 -	1616	4' High

Reference Well or Structural Comparison: Chief Drilling #1 Adams, NW/4 SE/4 SE/4, Section 11-T12S-R22W.

Chronological History

DAILY PENETRATION

Date	Depth	Remarks	
6/11/93	0	Spud 10:00 AM - Set 8 5/8" @ 249' with 160 sacks. Plug down 1:30 PM - Drilled plug 9:30 PM.	
6/12	1015	<u>Anhydrite</u>	<u>1796-1840</u>
6/13	2465	Drilling	
6/14	2975	Drilling	
6/15	3490	<u>DST #1</u>	<u>3559-3595</u>
6/16	3662	<u>DST #2</u>	<u>3633-3662</u>
		<u>DST #3</u>	<u>3679-3717</u>
6/17	3717	<u>DST #4</u>	<u>3719-3745</u>
6/18	3840	<u>DST #5</u>	<u>3805-3840</u>
		<u>DST #6</u>	<u>3847-3885</u>
6/19	3933	<u>DST #7</u>	<u>3970-4000</u>
6/20	4075	RTD 12:15 AM Run WireTech Gamma Ray, Neutron, Guard, Caliper Logs Dry and Abandoned	

Chronological History (Cont'd)

 B I T R E C O R D

<u>No.</u>	<u>Size</u>	<u>Make</u>	<u>Type</u>	<u>Depth Out</u>	<u>Feet</u>	<u>Hours</u>
1	12 1/4	HTC	X3A	249	249	2 1/4
2	7 7/8	Sec	S83F	4075	3826	<u>111 1/2</u>
						113 3/4

 M U D R E C O R D

(Mud-Co)

<u>Chk.</u>	<u>Depth</u>	<u>WT</u>	<u>Vis</u>	<u>Fil</u>	<u>Ph</u>	<u>PV</u>	<u>YP</u>	<u>Gels</u>	<u>Chlorides</u>	<u>Solids</u>
1	3100	9.4	27	-	7.0	-	-	- / -	49,000	5.1%
2	3130	8.7	45	10.8	10.5	14	22	8/20	2,000	2.8%
3	3598	9.0	40	12.0	10.0	12	20	8/21	4,000	4.8%
4	3662	9.2	41	12.0	10.0	12	22	9/26	5,000	6.0%
5	3740	9.2	44	12.0	10.0	14	23	10/28	6,000	6.1%
6	3854	9.3	46	12.0	10.0	15	25	10/30	5,000	6.8%
7	4000	9.5	41	12.0	9.5	10	16	10/28	5,000	8.2%

Chronological History (Cont'd)

D R I L L S T E M T E S T S
(Crown Testing)

No.	Interval	IFP	ISIP	FFP	FSIP	IHH-FHH
1	3559-3595 Recovered:	44-42/15 200' Water with few oil spots.	983/45	62-89/60	894/45	1710-1664
2	3633-3662 Recovered:	26-26/30 10' Muddy Water with few oil spots	357/30	26-26/30	339/45	1802-1710
3	3679-3717 Recovered:	99-55/15 10' Clean oil 20' Muddy Water	716/45	110-55/30	661/45	1902-1802
4	3719-3745 Recovered:	35-35/15 5' Mud with few spots of oil	133/45	35-35/30	89/45	1802-1710
5	3805-3840 Recovered:	62-44/15 5' Mud - no shows	1028/45	35-35/30	804/45	1983-1847
6	3847-3885 Recovered:	26-26/15 5' Mud - no shows	44/45	26-26/30	44/45	1985-1939
7	3970-4000 Recovered:	44-44/15 5' Muddy oil	1164/45	26-26/30	983/45	1985-1802

Geological Formations and Porosity Zones:

A detailed lithological log was maintained from 3300 feet to 4075 feet (RTD). The following are formation tops, recoveries of drill stem tests, descriptions of reservoirs containing shows of oil and descriptions of reservoirs felt pertinent to the accumulation of hydrocarbons in the area. The depths are interpolated from drillers measurements and measured from the kelly bushing.

T/Anhydrite	Sample	1796 +	556
	E-Log	1792 +	566
B/Anhydrite	Sample	1840 +	512
	E-Log	1838 +	514
Topeka	Sample	3398 -	1046
	E-Log	3309 -	1046

SL 3426-3432	Limestone, buff, fine crystalline, fossiliferous, sucrosic.
EL 3426-3432	Good fossilcast and intercrystalline porosity. No shows. Judged this zone to be of no commercial value.
SL 3465-3471	Limestone, light buff, fine crystalline, fossiliferous,
EL 3464-3472	sucrosic. Fair to good interfossiliferous and intercrystalline porosity. No shows.
SL 3478-3493	Limestone, light buff, fine crystalline, fossiliferous,
EL 3477-3492	sucrosic, cherty. Fair interfossiliferous and intercrystalline porosity. No shows. Judged this zone to be of no commercial value.
SL 3517-3522	Limestone, cream, fine crystalline, fossiliferous, sucrosic,
EL 3517-3521	chalky, cherty. Fair to good interfossiliferous and intergranular porosity. No shows. Judged this zone to be of no commercial value.

Geological Formations and Porosity Zones (Cont'd)

SL 3759-3766 Limestone, cream, fine crystalline, fossiliferous. Fair
EL 3760-3764 interfossiliferous porosity. *Poor show brown live free oil.*
Spotted brown oil stain; slight odor. Tested this zone.
(See DST #1) Due to the test results, judged this zone to
be of no commercial value.

SL 3580-3588 Limestone, light buff, fine crystalline, fossiliferous,
EL 3580-3586 sucrosic. Fair to good interfossiliferous porosity. *Poor
show light brown free oil.* Slight odor. Tested this zone.
(See DST #1) Due to the test results, judged this zone to
be of no commercial value.

DrillStem Test #1

3559-3595

Fair blow throughout both
flow periods

Recovered:

200' Water with few
oil spots

Initial Flow Pressures:

44# to 42# / 15 min.

Initial Shut-In Pressure:

983# / 45 min.

Final Flow Pressures:

62# to 89# / 60 min.

Final Shut-In Pressure:

894# / 45 min.

Initial Hydrostatic Pressure:

1710#

Final Hydrostatic Pressure:

1664#

Bottomhole Temperature:

119 degrees

Heebner

Sample 3615 -1263

E-Log 3614 -1262

Toronto

Sample 3632 -1280

E-Log 3633 -1281

SL 3633-3638 Limestone, light buff, fine crystalline, fossiliferous.
EL 3633-3636 Poor interfossiliferous porosity. *No free oil.* Rare
spotted brown oil stain; no odor. Tested this zone. (See
DST #2) Due to the test results, judged this zone to be of
no commercial value.

Geological Formations and Porosity Zones (Cont'd)

	Lansing	Sample	3648 -1296
		E-Log	3648 -1296
	(A-Zone)		
SL 3650-3654	Limestone, white, very fine crystalline, oolitic. Poor to		
EL 3648-3657	fair interoolitic porosity. <i>Very poor show brown live free</i>		
	<i>oil.</i> Spotted brown oil stain; slight odor. Tested this		
	zone. (See DST #2) Due to the test results, judged this		
	zone to be of no commercial value.		
	<u>DrillStem Test #2</u>	<u>3633-3662</u>	
	Very weak blow throughout IFP		
	No blow FFP		
	Recovered:	10' Muddy water with	
		few oil spots	
	Initial Flow Pressures:	26# to 26# / 30 min.	
	Initial Shut-In Pressure:	357# / 30 min.	
	Final Flow Pressures:	26# to 26# / 30 min.	
	Final Shut-In Pressure:	339# / 45 min.	
	Initial Hydrostatic Pressure:	1802#	
	Final Hydrostatic Pressure:	1710#	
	Bottomhole Temperature:	119 degrees	
	(B-Zone)		
SL 3690-3697	Limestone, cream and white, very fine crystalline, oolitic,		
EL 3689-3694	fossiliferous. Fair interfossiliferous and interoolitic		
	porosity. <i>Rare show brown live free oil.</i> Spotted light		
	brown oil stain; faint odor. Tested this zone. (See DST		
	#3) Due to the test results, judged this zone to be of no		
	commercial value.		
	(D-Zone)		
SL 3704-3707	Limestone, buff, fine crystalline, oolitic. Fair		
EL 3704-3709	interoolitic and oolitic porosity. <i>Rare show light brown</i>		
	<i>free oil.</i> Rare spotted brown oil stain; very faint odor.		
	Tested this zone. (See DST #3) Due to the test results,		
	judged this zone to be of no commercial value.		

Geological Formations and Porosity Zones (Cont'd)

DrillStem Test #3

3679-3717

Very weak blow throughout IFP

No blow FFP

Recovered:

10' Clean oil

20' Muddy water

Initial Flow Pressures:

95# to 55# / 15 min.

Initial Shut-In Pressure:

716# / 45 min.

Final Flow Pressures:

110# to 55# / 30 min.

Final Shut-In Pressure:

661# / 45 min.

Initial Hydrostatic Pressure:

1902#

Final Hydrostatic Pressure:

1802#

Bottomhole Temperature:

119 degrees

(E-Zone)

SL 3721-3725

Limestone, white, fine crystalline, oolitic, fossiliferous.

EL 3724-3726

Fair interfossiliferous and interoolitic porosity. *Poor show light brown free oil.* Spotted light brown oil stain; no odor. Tested this zone. (See DST #4) Due to the test results, judged this zone to be of no commercial value.

(F-Zone)

SL 3736-3738

Limestone, light buff, fine crystalline, fossiliferous, oolitic. Fair interfossiliferous and vugular porosity.

EL 3736-3738

Poor show light brown free oil. Spotted light brown oil stain; questionable odor. Tested this zone. (See DST #4) Due to the test results, judged this zone to be of no commercial value.

Geological Formations and Porosity Zones (Cont'd)

DrillStem Test #4

3719-3745

Weak blow, died in 6 min. IFP

No blow FFP

Recovered:

5' Mud w/few oil spots

Initial Flow Pressures:

35# to 35# / 15 min.

Initial Shut-In Pressure:

133# / 45 min.

Final Flow Pressures:

35# to 35# / 45 min.

Final Shut-In Pressure:

89# / 45 min.

Initial Hydrostatic Pressure:

1802#

Final Hydrostatic Pressure:

1710#

Bottomhole Temperature:

119 degrees

(G-Zone)

SL 3750-3755

EL 3746-3748

Limestone, white to cream, fine crystalline, slightly chalky. Poor intercrystalline porosity. No shows. No odor.

Judged this zone to be of no commercial value.

Muncie Creek

Sample 3776 -1424

E-Log 3776 -1424

(H-Zone)

SL 3789-3800

EL 3788-3800

Limestone, cream, very fine crystalline, dense. No visible porosity. No shows.

Judged this zone to be of no commercial value.

(I-Zone)

SL 3813-3818

EL 3810-3813

Limestone, white, fine crystalline, fossiliferous. Fair interfossiliferous porosity. **No show free oil.** Spotted to saturated dark brown oil stain; no odor. Tested this zone.

(See DST #5) Due to the test results, judged this zone to be of no commercial value.

Geological Formations and Porosity Zones (Cont'd)

(J-Zone)
SL 3828-3834 Limestone, light buff, fine crystalline, oolitic. Poor to
EL 3828-3832 fair interoolitic and vugular porosity. **Poor show brown
live free oil.** Spotted brown oil stain; faint odor. Tested
this zone. (See DST #5) Due to the test results, judged
this zone to be of no commercial value.

DrillStem Test #5

3805-3840

Weak blow throughout IFP

No blow FFP

Recovered:

5' Mud, no shows

Initial Flow Pressures:

62# to 44# / 15 min.

Initial Shut-In Pressure:

1028# / 45 min.

Final Flow Pressures:

35# to 35# / 30 min.

Final Shut-In Pressure:

804# / 45 min.

Initial Hydrostatic Pressure:

1983#

Final Hydrostatic Pressure:

1847#

Bottomhole Temperature:

119 degrees

Stark

Sample 3844 -1492

E-Log 3843 -1491

(K-Zone)
SL 3849-3854 Limestone, light buff, fine crystalline, fossiliferous.
EL 3848-3852 Poor to fair interfossiliferous porosity. **No free oil.**
Spotted dark oil stain; no odor. Tested this zone. (See
DST #6) Due to the test results, judged this zone to be of
no commercial value.

Hushpuckney

Sample 3868 -1516

E-Log 3868 -1516

Geological Formations and Porosity Zones (Cont'd)

(L-Zone)
SL 3871-3876 Limestone, cream, fine crystalline, fossiliferous. Poor to
EL 3876-3880 fair interfossiliferous porosity. **No free oil.** Rare
spotted light brown oil stain; questionable odor. Tested
this zone. (See DST #6) Due to the test results, judged
this zone to be of no commercial value.

DrillStem Test #6

3847-3885

Weak blow, died in 3 min. IFP

No blow FFP

Recovered:

5' Mud, no shows

Initial Flow Pressures:

26# to 26# / 15 min.

Initial Shut-In Pressure:

44# / 45 min.

Final Flow Pressures:

26# to 26# / 30 min.

Final Shut-In Pressure:

44# / 45 min.

Initial Hydrostatic Pressure:

1985#

Final Hydrostatic Pressure:

1939#

Bottomhole Temperature:

119 degrees

Base Kansas City

Sample 3888 -1536

E-Log 3883 -1531

Marmaton

Sample 3968 -1616

E-Log 3967 -1615

SL 3979-4000
EL 3971-4000

Chert, milky, tan, jasper, fresh to tripolitic. Fair spongy
porosity in tripolitic chert. **Fair show light brown gassy
free oil.** Spotted to saturated brown oil stain;
questionable odor.

Geological Formations and Porosity Zones (Cont'd)

DrillStem Test #7

3970-4000

Weak blow throughout IFP

No blow FFP

Recovered:

15' Muddy oil

Initial Flow Pressures:

44# to 44# /15 min.

Initial Shut-In Pressure:

1164 / 45 min.

Final Flow Pressures:

26# to 26# / 30 min.

Final Shut-In Pressure:

983# / 45 min.

Initial Hydrostatic Pressure:

1985#

Final Hydrostatic Pressure:

1802#

Bottomhole Temperature:

119 degrees

SL 4022-4030
EL NP

Limestone, light buff, cryptocrystalline, cherty, slightly chalky. Possible fractured porosity, dense. *No free oil.* Rare spotted light brown oil stain; no odor. Judged this zone to be of no commercial value.

SL 4039-4040
EL NP

Chert, white, fresh to tripolitic, fossiliferous. Rare show gilsonitic stain. *No free oil*; no odor. Judged this zone to be of no commercial value.

SL 4040-4061
EL NP

Chert, white, fresh to slightly tripolitic, fossiliferous, oolitic. Poor spongy-leached porosity. Barren, no shows. No odor. Judged this zone to be of no commercial value.

Rotary Total Depth 4075 (-1723)

Electric Log Total Depth 4077 (-1725)

Wire Tech Gamma Ray - Neutron - Guard - Caliper Logs

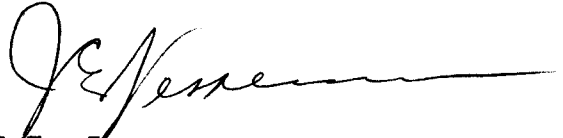
DRY and ABANDONED

Remarks and Recommendations

Recommend this well be plugged and abandoned.

Structurally this well ran 2 feet low compared to the Adams #1, the southeast offset. All zones of porosity with any oil show were drillstem tested with negative results. No other zones merit any further testing.

Respectfully submitted,

A handwritten signature in cursive script, appearing to read 'J.E. Jespersen', written in black ink.

J.E. Jespersen