SIDE ONE

STATE CORPORATION COMMISSION OF KANSAS
OIL & GAS CONSERVATION DIVISION

WELL COMPLETION OR RECOMPLETION FORM
ACO-1 WELL HISTORY

DESCRIPTION OF WELL AND LEASE

Operator: License # 6166
Name Bill Chew, Inc.
Address 117 W. Main, P.O. Box 90
City/State/Zip Lyons, KS 67554

Purchaser Clear Creek, Inc.

Operator Contact Person Bill Chew
Phone 316-257-5587

Contractor: License # 5142
Name Sterling Drilling Co.

Wellsite Geologist Wayne Lebsack
Phone 316-257-3825

Designate Type of Completion
[XX] New Well [ ] Re-Entry [ ] Workover

[XX] Oil [ ] SWD [ ] Temp Abd
[ ] Gas [ ] Inj [ ] Delayed Comp.
[ ] Dry [ ] Other (Core, Water Supply etc.)

If OWWO: old well info as follows:
Operator
Well Name
Comp. Date Old Total Depth

WELL HISTORY

Drilling Method:
[XX] Mud Rotary [ ] Air Rotary [ ] Cable

12/15/83	12/28/83	1-11-84
Spud Date	Date Reached TD	Completion Date

4370	
Total Depth	PBTD

Amount of Surface Pipe Set and Cemented at 425 feet
Multiple Stage Cementing Collar Used? [ ] Yes [ ] No
If yes, show depth set feet
If alternate 2 completion, cement circulated
from feet depth to w/ SX cmt

API NO. 15- 185-21,913-0000

County Stafford

SE/4 Sec. 2 Twp. 25 Rge. 14 [ ] East [XX] West

1650 Ft North from Southeast Corner of Section
2310 Ft West from Southeast Corner of Section
(Note: Locate well in section plat below)

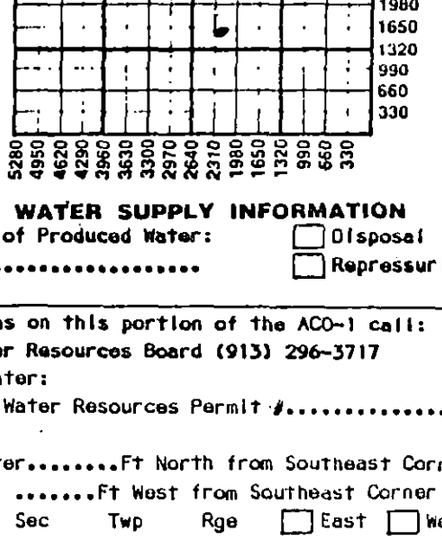
Lease Name Easterly North Well # 1

Field Name Cephas

Producing Formation Viola

Elevation: Ground 1958 KB 1967

Section Plat



WATER SUPPLY INFORMATION

Disposition of Produced Water: [ ] Disposal
Docket # [ ] Repressuring

Questions on this portion of the ACO-1 call:
Water Resources Board (913) 296-3717

Source of Water:
Division of Water Resources Permit #

[ ] Groundwater Ft North from Southeast Corner
(Well) Ft West from Southeast Corner of
Sec Twp Rge [ ] East [ ] West

[ ] Surface Water Ft North from Southeast Corner
(Stream, pond etc) Ft West from Southeast Corner
Sec Twp Rge [ ] East [ ] West

[ ] Other (explain)
(purchased from city, R.W.D. #)

INSTRUCTIONS: This form shall be completed in duplicate and filed with the Kansas Corporation Commission, 200 Colorado Derby Building, Wichita, Kansas 67202, within 90 days after completion or recompletion of any well. Rule 82-3-130 and 82-3-107 apply.
Information on side two of this form will be held confidential for a period of 12 months if requested in writing and submitted with the form. See rule 82-3-107 for confidentiality in excess of 12 months.
One copy of all wireline logs and drillers time log shall be attached with this form. Submit CP-4 form with all plugged wells. Submit CP-111 form with all temporarily abandoned wells.

All requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Signature William T. Chew
Title President Date 1/27/84

Subscribed and sworn to before me this 27 day of January, 19 84
Notary Public Susan Clark
Date Commission Expires 11-3-89

SUSAN CLARK
NOTARY PUBLIC
STATE OF KANSAS
MY APPT. EXPIRES 11-3-89

K.C.C. OFFICE USE ONLY
F [ ] Letter of Confidentiality Attached
C [ ] Wireline Log Received
C [ ] Drillers Timelog Received
Distribution
[✓] KCC [ ] SWD/Rep [ ] NGPA
[✓] KGS [ ] Plug [ ] Other (Specify)

Sec. 2 Twp. 25 Rge. 14W

Form ACO-1 (7-84)

1 7 1985

SIDE TWO

Operator Name Bill Chew, Inc. Lease Name Easterly North Well # 1

Sec. 2 Twp. 25 Rge. 14 ☐ East ☒ West County Stafford

WELL LOG

INSTRUCTIONS: Show important tops and base of formations penetrated. Detail all cores. Report all drill stem tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface during test. Attach extra sheet if more space is needed. Attach copy of log.

Drill Stem Tests Taken	☒ Yes	☐ No
Samples Sent to Geological Survey	☐ Yes	☒ No
Cores Taken	☐ Yes	☒ No

Formation Description ☐ Log ☐ Sample

Name Top Bottom

Drill Stem Test No. 1

3733'-3758' Open 45", closed 45", open 45", closed 45". There was a 5 inch blow building to the bottom of the bucket within 8 minutes. There was no gas to surface.

Initial closed-in pressure ..... 1014 psi
Initial flowing pressure ..... 68-178 psi
Final closed-in pressure ..... 980 psi
Final flowing pressure ..... 203-262 psi
Bottom hole temperature..... 107° F

There was 687' of heavy oil and gas cut mud recovered.

CASING RECORD ☐ New ☐ Used

Report all strings set-conductor, surface, intermediate, production, etc.

Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs/Ft.	Setting Depth	Type of Cement	#Sacks Used	Type and Percent Additives

PERFORATION RECORD		Acid, Fracture, Shot, Cement Squeeze Record	
Shots Per Foot	Specify Footage of Each Interval Perforated	(Amount and Kind of Material Used)	Depth

TUBING RECORD Size Set At Packer at Liner Run ☐ Yes ☐ No

Date of First Production | Producing Method ☐ Flowing ☐ Pumping ☐ Gas Lift ☐ Other (explain).....

	Oil	Gas	Water	Gas-Oil Ratio	Gravity
Estimated Production Per 24 Hours	N/A Bbls	MCF	Bbls	CFPB	

METHOD OF COMPLETION Production Interval

Disposition of gas: ☐ Vented ☐ Sold ☐ Used on Lease

☐ Open Hole ☐ Perforation
☐ Other (Specify) .....

☐ Dually Completed
☐ Commingled

NOV 17

WAYNE LEBSACK
PETROLEUM GEOLOGIST
603 SOUTH DOUGLAS
LYONS, KANSAS 67554

Chew Oil and Gas Company
117 West Main
Lyons, Kansas 67554

Geological Report for:
Easterly No. 1
530' FWL, 890' FSL of Sec. 2
Sec. 2 T25S-R14W
Stafford County, Kansas

CONTRACTOR:	Sterling Drilling, Rig No. 1
DATE COMMENCED:	December 15, 1983
DATE ROTARY COMPLETED:	December 28, 1983
TOTAL DEPTH:	4370' feet
SURFACE CASING:	8-5/8" inch @ 425' feet
ELEVATIONS:	1958' Ground Level; 1967' Kelly Bushing
SAMPLES AND DRILLING TIME LOGGED:	3300' to 4370'(TD)
DAVIS GAS DETECTOR USED:	970' to 4370' (TD)
OTHER LOGS:	Welex Radiation Guard, Compensated Density, and Computer Analyzed Log.

RECEIVED
STATE CORPORATION COMMISSION
JUL 14 1986
CONSERVATION DIVISION
Wichita, Kansas

GEOLOGICAL FORMATION TOPS

FORMATION	DRILLING TIME DEPTH	ELECTRIC LOG DEPTH	SUB-SEA DEPTH ELECTRIC LOG
Howard Ls	not called	3012'	-1045
Severy Sh	not called	3060'	-1093
Topeka Ls	not called	3092'	-1125
Heebner Sh	3510'	3508'	-1541
Douglas Sh	3551'	3547'	-1580
Brown Ls	3646'	3648'	-1681
Lansing	3680'	3678'	-1711
Mississippi	4034'	4034'	-2067
Kinderhook Sh	4048'	4046'	-2079
Viola Ls/Dol.	4104'	4111'	-2144
Simpson Sh	4270'	4271'	-2304
Simpson Sd	4278'	4290'	-2323
Arbuckle Dol.	4316'	4318'	-2351

INTERVALS OF INTEREST

FORMATION (depth E-log)	DESCRIPTION
Howard Ls	A 17.5 unit gas detector response was recorded. (3012'-3026')
Lansing (3702'-3706')	A white medium crystalline limestone with fair intergranular porosity, fossil fragment, pinpoint, and vugular porosity. There was a slight show of light oil. Average log porosity is 8.3%, average water saturation is 47.4%. Average drilling time was 2 min/ft.
(3733'-3738')	A white coarse crystalline limestone with good vugular porosity. This interval had a slight show of light oil. The average log porosity is 7%, average water saturation is 40%. The average drilling time was 3 min/ft.
(3748'-3754')	A white slightly oolitic crystalline limestone with good intergranular porosity. There was a good show of free oil and gas in the wet samples along with a strong odor. Average log porosity is 11.9%, average water saturation is 46.8%. Average drilling rate was 1 min/ft.

Drill Stem Test No. 1

3733'-3758' Open 45", closed 45", open 45", closed 45". There was a 5 inch blow building to the bottom of the bucket within 8 minutes. There was no gas to surface.

Initial closed-in pressure ..... 1014 psi
Initial flowing pressure ..... 68-178 psi
Final closed-in pressure ..... 980 psi
Final flowing pressure ..... 203-262 psi
Bottom hole temperature..... 107° F

There was 687' of heavy oil and gas cut mud recovered.

(3810'-3816')	A white-tan slightly chalky limestone that appears to have been originally oolitic, but secondary crystallization has destroyed some of its porosity (ooids). There was a good show of oil and gas in the wet samples when broken. The porosity consisted of vugs(few) and pinpoint channels. There was a 18 unit gas detector response. The average log porosity is 21.8%, average water saturation is 29.5%. The average drilling rate was 1 min/ft.
(3827'-3831')	A buff white oolitic limestone with approximately 25% oolicastic porosity visible in the samples. There was a slight show of dark oil. Some secondary crystallization along with the good porosity was logged. Average log porosity is 11.5%, average water saturation is 55%. Average drilling rate was 3 min/ft.
(3852'-3867')	A white fossil fragment and slightly oolitic limestone. Fair to poor porosity (intergranular) was observed along with a fair to poor show of oil. Average log porosity was 11.6%, average water saturation is 36%. Average drilling rate was 3 min/ft.
Mississippi	
(4041'-4045')	A brown-white granular chert. The chert is very indurated and will react very slightly to acid(HCL). The oil and gas were observed in the vugular porosity channels. A 26 unit gas detector response was recorded. Average log porosity is 20%, and the average water saturation is 100%*. The average drilling rate was 2 min/ft.
Viola	All shows of oil were contained in rhombohedral dolomite beds of this formation, and the white chalky limestone and chert beds were void of any oil.
(4120'-4126')	A light green-white rhombohedral crystalline dolomite with fair to poor porosity. There was a slight show of oil and gas. This dolomite reacted slightly to acid. A white translucent to opaque chert with no porosity was also present. Average log porosity is 12.7%, average water saturation is 65%. Average drilling time rate was 3 min/ft.

* The Computer log gave a high water saturation in this case due to the high shale content.

Viola	
(4171'-4177')	A tan coarse rhombohedral crystalline dolomite. A fair show of light oil was observed in the wet samples. This dolomite reacts well with acid. The average log porosity is 9.6%, average water saturation is 35.1%. The average drilling rate was 6 min/ft.
4225'	The rig stopped for Christmas at noon 12-23-83. This temporary TD is in the Viola limestone/dolomite and was drilling 8 min/ft. The mud had a 48 vis. and a 8.6 water loss. The rig began drilling again on 12-27-83 at 11:00am.
Simpson Sandstone	
(4290'-4295')	A gray fine grained well cemented sandstone with very poor porosity. Some black shale clasts were also present in the sand. The average drilling rate was 6 min/ft. There were no shows.
Arbuckle Dolomite	
(4319'-4337')	A tan medium crystalline dolomite with fair to poor porosity. A 6 to 10 gas response was recorded. No show of oil was logged. Average log porosity is 14.6%, average water saturation is 54.6%. The average drilling rate was 4.5 min/ft.

SUMMARY

STRUCTURAL COMPARISON

FORMATION	Easterly No.1 (this well)	Turner F-1 nw-sw-se all Sec. NW Offset	Bowker No. 2 ne-sw-se 2 T25S-R14W NE Offset	Bowker No. 1 sw-sw-se SW Offset
Heebner	-1541	-1537	-1540	-1546
Brown Ls	-1681	-1675	-1685	-1683
Lansing	-1711	-1707	-1713	-1712
Mississippi	-2067	BKC-(TD)	-2068	-2080
Kinderhook Sh	-2079	-----	-2082	-2101
Viola	-2144	-----	-2144	-2153
Simpson Sh	-2304	-----	-2302	-2306
Simpson Sd	-2323	-----	-2320	-2318
Arbuckle Dol.	-2351	-----	-2353	-2344

The samples and electric logs indicate possible pay zones in the Howard (gas), Lansing, Mississippi, and Viola formations. Casing was cemented to test for production.

SUBMITTED BY,

Wayne Lebsack

WAYNE LEBSACK
PETROLEUM GEOLOGIST

Steve McClain

STEVE MCCLAIN
GEOLOGIST