GEOLOGICAL REPORT

Energy - Three Inc.

No. 1 Werth 'A'

Sw - Ne - Sw

Sec. 24 - T 15 S - R 18 W

Ellis County, Kansas

Jerry J. Knobel

Energy - Three Inc.
P.O. Box 1505
Great Bend, Kansas

Re: Energy - Three Inc.
No. 1 Werth 'A'
Sw - Ne - Sw
Sec. 24 - T 15 S - R 18 W
Ellis County, Kansas

Dear Sirs:

The following is a Geological Report with a copy of the Sample Log attached on the above captioned well.

Drilling was supervised from 2900' to 3630', rotary total depth. Samples were examined from 2900' to rotary total depth.

All formation tops, zones of porosity and staining are based on electric log measurements. Formation tops, zones of porosity and staining as called from drilling time and drilling samples are in close agreement with those picked from the electric log.

Elevation (L&S)	1978 DF E. Log Depths:	1981 KB Subsea Datum:
Anhydrite	1138	(+ 843)
Base of Anhydrite	1180	(+ 801)
Topeka	2934	(- 956)
Heebner	3216	(- 1235)
Toronto	3236	(- 1255)
Lansing- Kansas City	3268	(- 1287)
Base of Kansas City	3494	(- 1513)
Cherty Conglomerate	3530	(- 1549)
Arbuckle Dolomite	3552	(- 1571)
RTD	3630	(- 1649)
LTD	3629	(- 1648)
4-½" @	3629	(- 1648)

ZONES OF INTEREST

Topeka (Top 2934)

2962 to 2970 — Tan chalky to fine crystalline lime. Scattered pinpoint porosity. No show.

3018 to 3022 — Tan chalky fossiliferous lime. Rare traces of pinpoint porosity. No show.

3052 to 3064	Tan fine crystalline chalky lime. No show.
3102 to 3112	Tan chalky to shaley fine crystalline lime. No show.
3152 to 3156 3164 to 3166 3170 to 3174	White and tan fine crystalline fossiliferous lime. Scattered traces of vugular to pinpoint porosity. Rare show of light free oil. Rare stain. No odor. (Judged no value.)
3184 to 3198	Tan fine crystalline to slightly sucrosic chalky limestone. Scattered intercrystalline porosity. No show.
Heebner (Top 3216)	
Toronto (Top 3236)	
3236 to 3242	White and tan fine crystalline lime. Poorly developed intercrystalline porosity. No show.
Lansing-Kansas City (Top 3268)	
3268 to 3278	White fine crystalline dense lime. No show.
3290 to 3294	White fine crystalline chalky lime. Poorly developed pinpoint to intercrystalline porosity. No show.
3306 to 3309	White fine crystalline lime. Scattered traces of poorly developed vugular porosity. Rare stain. (Judged no value.)
3347 to 3350 3360 to 3363	White and tan fine crystalline, cherty and oolitic lime. Dense. No show.
3400 to 3404	White and tan fine crystalline, cherty, fossiliferous lime. Dense. No show.
3427 to 3432	White fine crystalline to oolitic lime. Poorly developed intercrystalline porosity. Rare show oil and traces of light stain. (Judge no value.)
3445 to 3450 3451 to 3454	Pearl white fine crystalline slightly oolitic lime. Poorly developed porosity. No show.

3467 to 3470 3484 to 3487	Clean white fine crystalline slightly chalky lime. Poor porosity development. No show.

Base of Kansas City (Base 3494)

Cherty Conglomerate (Top 3530)

3530 to 3540	Orange and white cryptocrystalline to oolitic chert. Abundant veri colored shales. No show.

Arbuckle Dolomite (Top 3552)

3557 to 3560	White medium crystalline dolomite. Scattered intercrystalline porosity. Very scattered show oil. Very scattered stain. Good odor.

Drill Stem Test No. 1 (Superior Testing Co.)

3479 to 3558	30 - 45 - 15 - 60. First opening - weak blow for 8". Flush tool - no help. Second opening - no blow. Recovered 30 feet very slightly oil and gas cut mud and 30 feet drilling mud. IFP 117-134#. FFP 180 - 314#. ICIP 1151#. FCIP 1151#. Charts show moderate plugging action.
3563 to 3566	White medium crystalline dolomite. Scattered intercrystalline porosity. Better show light free oil. Good odor. (Included in DST No. 2)

Drill Stem Test No. 2 (Superior Testing Co.)

3491 to 3566	45 - 45 -45 - 45. First opening - weak building to fair blow. Second opening - weak blow. Recovered 690 feet fluid. This is separated into 30 feet oil and gas cut mud, 180 feet heavy oil and gas cut mud, 120 feet very heavy oil and gas cut mud, 240 feet froggy oil and 120 feet oily mud. IFP 141 - 267#. FFP 290 - 377#. ICIP 1080#. FCIP 1065#.
3570 to 3574	White medium crystalline dolomite. Very scattered stain. Good odor. Reads wet on electric log. (Judged no value.)
3586 to 3592 3600 to 3606	White and grey sandy to medium and coarse crystalline dolomite. Decreasing show of stain. Very rare show free oil. Slight odor. Reads wet on electric log. (Judged no value.)

3620 to 3630	White to grey colored sandy dolomite. Abundant pieces of red shale. No show oil. No stain. Slight odor. Reads wet on electric log. (Judged no value.)

Structurally, on top of the Lansing - Kansas City the Energy - Three Inc. No.1 Werth 'A' ran 4 feet high compared to the D. G. Hansen No. 1 Beilman, an abandoned Arbuckle producer, located one location northeast.

The Energy - Three Inc. No. 1 Werth 'A' Arbuckle top was 13 feet higher than that of the D. G. Hansen No. 1 Beilman.

4-½" production casing was set at 3629', 1 foot off bottom, with 125 sacks common cement, 12% salt. Zero point is 5 feet AGL.

Sincerely,

Jerry J. Knobel

Jerry J. Knobel

DRILLING INFORMATION ON THE NO.1 Werth 'A'

Drilling Contractor: Allen Drilling Company

Drillers: R.E. Dixon
Jim Riordan
Don Kern
Gary Christopher

Tool Pusher: Larry Curtis

Spud Date: 8-27-80

Date of RTD: 9-2 -80

Surface casing: 8-5/8" @ 1150' w/200 sx 60-40 posmix 2% gel, 3%CC followed by 200 sx common 2% gel, 3%CC

Production casing: 4-½" @ 3629' w/125 sx common 12% salt

TOTAL FOOTAGE DRILLED PER DAY
Under surface at 12:45 A.M. On 8-29-80

1530	Feet	At	7:00 A.M.	On	8-29-80
2730	"	"	"	"	8-30-80
3330	"	"	"	"	8-31-80
3558	"	"	"	"	9- 1-80
3566	"	"	"	"	9- 2-80
3630	"	"	6:59 P.M.	"	9- 2-80

BIT RECORD

Bit	Type	Footage
#1	Security S-86-F	1151 to 3630

MUD RECORD

Surface- 30 sx Davis gel, 3 sx lime, 7 sx hulls
2850 - 58 sx salt gel, 10 sx Davis gel, 5 sx hulls
3015 - 30 sx starch, 1 sx preservative
3535 - 8 sx starch
3561 - 25 sx salt gel, 5 sx Davis gel