GEOLOGICAL SOCIETY
508 East Murdock
Wichita, Kansas

KANSAS GEOLOGICAL SOCIETY
508 East Murdock
Wichita, Kansas

15-163-20322

21-8-19W
SW SE NW
Elev. 2052' KB
P63 BOPD + tr wtr arb

nov ~~OCT 7 1980~~ NOV 7 1970

CONTRACTOR'S WELL LOG

OPERATOR:	Abercrombie Drilling, Inc.
CONTRACTOR:	Abercrombie Drilling, Inc.
WELL NAME:	STICE #1
LOCATION:	SW SE NW, Sec. 21-8S-19W Rooks County, Kansas
GEOLOGIST:	Jack K. Wharton
SPUD DATE:	August 24, 1970
COMPLETION DATE:	September 4, 1970

0	130	Rock & Sand
130	600	Shale
600	860	Shale & Sand streaks
860	910	Shale & Shells
910	960	Shale
960	1180	Sand
1180	1482	Shale
1482	1518	Anhydrite
1518	1900	Shale
1900	2050	Shale & Lime
2050	2218	Lime
2218	2625	Shale & Lime
2625	3090	Lime & Shale
3090	3500	Lime
3500	3505	Dolomite
	3505	Rotary Total Depth

Drilled 259' of 12¼" surface hole. Set 8 5/8" surface csg. at 249' w/150 sx. Sunset cement. Cement did circulate. Plug was down at 8:00 p.m. 8-24-70. Ran 4½" csg., and set @3501' w/35 sx. 50-50 posmix, 2% gel, 12# gilsonite per sx. and 65 sx. common cement, 10% gel, 1% c.c., & 3# friction reducer. Set D.V. tool @1500', cement w/250 sx. 50-50 posmix, 4% gel. Cement circulated. Job completed 10:15 a.m., 9-4-70.

SAMPLE TOPS		ELEVATION
Anhydrite	1482 (+570)	2052 K.B.
B/Anhydrite	1518 (+534)	2050 D.F.
Topeka	2992 (-940)	2044 G.L.
Heebner	3199 (-1147)	
Toronto	3220 (-1168)	
Lansing	3236 (-1184)	
Arbuckle	3487 (-1435)	

STATE OF KANSAS)
) SS
COUNTY OF SEDGWICK)

Jerry A. Langrehr, President of Abercrombie Drilling, Inc., does hereby state that the above and foregoing is a true and correct copy of the log of the STICE #1, SW SE NW, Sec. 21-8S-19W, Rooks County, Kansas.

ABERCROMBIE DRILLING, INC.

By: [signature]

State Geological Survey
WICHITA BRANCH

21-8-19W

DAILY DRILLING REPORT

Abercrombie Drilling, Inc.
801 Union Center; Wichita, Kansas

OPERATOR:	Abercrombie Drilling, Inc.
CONTRACTOR:	Abercrombie Drilling, Inc.
WELL NAME:	STICE #1
LOCATION:	SW SE NW, Sec. 21-8S-19W Rooks County, Kansas
GEOLOGIST:	Jack K. Wharton
TEST:	(Approx. 3450') Arbuckle

8-25-70		Moved in and rigged up. Drilled 259' of 12¼" surface hole. Set 8 5/8" surface csg. at 249' w/150 sx. Sunset cement. Cement did circulate. Plug was down at 8:00 p.m. 8-24-70.
	1212'	Bit #1
8-26-70	2075'	Bit #3
		Anhydrite 1482
		B/Anhydrite 1518
8-27-70	2384'	Down for Repairs
8-28-70		Started up at 3:15 a.m. 8-28-70.
	2400'	Bit #4
8-31-70	3190'	Bit #7 - Coming out of hole for DST #1
9-1-70		DST #1 (3170-3190) Open 30 min., shut in 30 min., open 60 min., shut in 30 min. Weak blow throughout test. Recovered 130' oil cut muddy water. IFP 35-50#, IBHP 1034#, FFP 72-93#, FBHP 1004#. BHT 104°.
	3282'	Heebner 3201 (-1149)
		Toronto 3222 (-1170)
		Lansing 3238 (-1186)
9-2-70	3320'	DST #2 (3265-3282) Open 10, shut 30 min., open 10 min., shut in 30 min. Weak blow for 7 min., then died. Recovered 2' mud with spots of free oil. IFP 20-20#, IBHP 30#, FFP 30-30#, FBHP 30#.
	3375'	DST #3 (3305-3323) Open 15 min., shut in 30 min., open 60 min., shut in 30 min. Weak to fair blow. Recovered 60' clean oil, 175' oil cut muddy water, 200' water. IFP 51-62#, IBHP 1137#, FFP 103-229#, FBHP 1075#. BHP 107°
9-3-70	3500'	Arbuckle 3489 (-1437)
9-4-70		DST #4 (3491-3505) Open 15 min., shut in 30 min., open 1 hr., shut in 30 min. Strong blow. Recovered 300' gas in pipe, 1950' gassy oil, 60' mud cut oil. IFP 143-154#, IBHP 1065#, FFP 225-830#, FBHP 1055#. Temp 112°.
	3505' RBTD	Ran 4½# csg., (9½#) and set @3501' w/35 sx. 50-50 posmix, 2% gel, 12# gilsonite per sx. and 65 sx. common cement, 10% gel, 1% c.c., and 3# friction reducer. Set D.V. tool @1500', cemented w/250 sx. 50-50 posmix, 4% gel. Cement circulated. Job completed 10:15 a.m., 9-4-70.

ELEVATION:
2052 K.B.
2050 D.F.
2044 G.L.

Anhydrite	1482	(+570)
B/Anhydrite	1518	(+534)
Topeka	2992	(-940)
Heebner	3199	(-1147)
Toronto	3220	(-1168)
Lansing	3236	(-1184)
Arbuckle	3487	(-1435)

9-9-70 Moved in and rigged up. Swabbed hole down to 1500'. Drilling on D.V. tool @1500'.

9-10-70 Drilling cement in shoe joint @3485'.

9-11-70 Drilled out and cleaned out to bottom. Found pipe set @3504'.* Tested well for 2 hrs. and it made 7 bbls. 1st hr., 4 bbls. 2nd hr.

9-12-70 Perforated well with 30 bullets (3499-3504), swabbed down and tested well for 5 hrs. Well tested 5.7 bbls. of oil per hr. swabbing 500 feet off bottom with a trace of water, possibly filtrate water unable to test it. We estimate if swabbed to bottom, the well would make 7 bbls. of oil per hr. Tore down rig and will put on pump. Dropped from report until state test is taken.

* While setting pipe after we had tagged bottom, pipe started sticking and we thought we had it 3 feet off bottom. However, we were wrong. We could not get too rough with the pipe because of the possilibity of tearing up our D.V. tool set in the Anhydrite. We feel that some of our oil was shut off behind the pipe even though it is perforated. It is a possibility we may need to plug off the bottom 2 feet and acidize this at a later date. We feel that this will depend upon how the well reacts.

10-16-70 Took state test 10-16-70 and well made 63.38 BOPD w/trace of water, 22° gravity.

21-8-19W

STICE #1, SW SE NW, Section 21-8S-19W, Rooks County, Kansas

Drill Stem Tests:

DST #1 (3170'-3190') Open 30 min., shut in 30 min., open 60 min., shut in 30 min. Weak Blow throughout test. Recovered 130' of oil cut muddy water. IFP 35-50#, IBHP 1034#, FFP 72-93#, FBHP 1004#.

DST #2 (3265'-3282') Open 10, Shut 30 min., open 10 min., Shut in 30 min. Weak blow for 7 minutes, then died. Rec. 2' mud with spots of free oil. IFP 20-20#, IBHP 30#, FFP 30-30#, FBHP 30#.

DST #3 (3305'-3323') Open 15 min., shut in 30 min., open 60 min., shut in 30 min. Weak to fair blow. Rec. 60' clean oil, 175' oil cut muddy water, 200' water. IFP 51-62#, IBHP 1137#, FFP 103#-229#, FBHP 1075#. BHP 107°.

DST #4 (3491'-3505') Open 15 min., shut in 30 min., open 1 hr., shut in 30 min. Strong blow. Rec. 300' gas in pipe, 1950' gassy oil, 60' mud cut oil. IFP 143#-154#, IBHP 1065#, FFP 225#-830#, FBHP 1055#. Temp. 112°.