HYDROCARBON SHOW REPORT

DATE: 25 November 1984 SHOW NO: 1

OPERATOR: Steele Energy Corporation

WELL: Keys 1-28

COUNTY and STATE: Wheeler County, Oregon

TYPE SHOW: Gas INTERVAL: From 1190 To 1200

DRILLING RATE: Before 80'/hr During 60'/hr After 80'/hr

MUD WEIGHT: Before 9.0 During 8.9 After 8.9

SALINITY: Before - During - After -

HOT WIRE ANALYSIS

AVERAGE GAS: Before 0.5 units During 17 units After 5.0 units

MAXIMUM GAS DURING SHOW: 22 units MUD WEIGHT CUT TO: 8.9

INFRARED GAS ANALYSIS

C_1 100 % C_2 - % C_3 - % C_4 - %

O_2 - % N_2 - % CO_2 - % H_2S - %

CHROMATOGRAPHIC ANALYSIS

	Before	Maximum Range During	After
C_1	0 %	100 %	100 %
C_2	%	%	%
C_3	%	%	%
C_4	%	%	%

FLUORESCENCE

PERCENT: None % COLOR: TYPE CUT:

REMARKS:

SHOW RATING

___ NON-PRODUCTIVE ___ POSSIBLY PRODUCTIVE

X PROBABLY NON-PRODUCTIVE ___ PROBABLY PRODUCTIVE

DST RESULTS

SERVICE COMPANY: TEST TYPE:

TIME OPEN: CHOKE: BLOW: EST. MCFPD

FLUID RECOVERY: EST. GRAVITY: EST. BOPD:

IHP: ISIP: FP: FSIP: FHP:

LITHOLOGY: Fractured andesite underlying 150+ feet of tight tuff

REMARKS: First gas show of well. Apparently high pressure, low volume gas in a fractured andesite flow capped by impermeable clayey tuff.

GEOLOGIST: Lanny H. Fisk

SIGNATURE: Lanny H. Fisk

HYDROCARBON SHOW REPORT

DATE: 26 November 1984 SHOW NO. 2

OPERATOR: Steele Energy Corporation

WELL: Donnelly Dome No. 1 (Keys 1-28)

COUNTY and STATE: Wheeler County, Oregon

TYPE SHOW: Gas INTERVAL: From 1985' To 2050'

DRILLING RATE: Before 100'/h During 150'/h After 120'/h

MUD WEIGHT: Before 9.3 During 9.0 After 9.0

SALINITY: Before _____ During _____ After _____

HOT WIRE ANALYSIS

AVERAGE GAS: Before 12 units During 45 units After 15 units

MAXIMUM GAS DURING SHOW: 45 units MUD WEIGHT CUT TO: 9.0

INFRARED GAS ANALYSIS

C_1 98 % C_2 2 % C_3 ---- % C_4 ---- %

O_2 _____ % N_2 _____ % CO_2 _____ % H_2S _____ %

CHROMATOGRAPHIC ANALYSIS

	Before	Maximum Range During	After
C_1	100 %	98 %	100 %
C_2	0 %	2 %	0 %
C_3	--- %	--- %	--- %
C_4	--- %	--- %	--- %

FLUORESCENCE

PERCENT: None % COLOR: _____ TYPE CUT: _____

REMARKS: _____

SHOW RATING

_____ NON-PRODUCTIVE _____ POSSIBLY PRODUCTIVE

__X__ PROBABLY NON-PRODUCTIVE _____ PROBABLY PRODUCTIVE

DST RESULTS

SERVICE COMPANY: _____ TEST TYPE: _____

TIME OPEN: _____ CHOKE: _____ BLOW: _____ EST. MCFPD _____

FLUID RECOVERY: _____ EST. GRAVITY: _____ EST. BOPD: _____

IHP: _____ ISIP: _____ FP: _____ FSIP: _____ FHP: _____

LITHOLOGY: Tuff with interbedded dirty coal

REMARKS: Probably coal gas but 2% ethane indicates that it is thermogenic.

GEOLOGIST: Lanny H. Fisk

SIGNATURE: Lanny H. Fisk

HYDROCARBON SHOW REPORT

DATE: 26 November 1984 SHOW NO. 3

OPERATOR: Steele Energy Corporation

WELL: Donnelly Dome No. 1 (Keys 1-28)

COUNTY and STATE: Wheeler County, Oregon

TYPE SHOW: Gas INTERVAL: From 2306' To 2323'

DRILLING RATE: Before 60'/h During 150'/h After 70'/h

MUD WEIGHT: Before 9.0 During 8.9 After 9.0

SALINITY: Before ____ During ____ After ____

HOT WIRE ANALYSIS

AVERAGE GAS: Before 16 units During 30 units After 18 units

MAXIMUM GAS DURING SHOW: 34 units MUD WEIGHT CUT TO: 9.9

INFRARED GAS ANALYSIS

C_1 100 % C_2 --- % C_3 --- % C_4 --- %

O_2 ____ % N_2 ____ % CO_2 ____ % H_2S ____ %

CHROMATOGRAPHIC ANALYSIS

	Before	Maximum Range During	After
C_1	100 %	100 %	100 %
C_2	--- %	--- %	--- %
C_3	____ %	____ %	____ %
C_4	____ %	____ %	____ %

FLUORESCENCE

PERCENT: None % COLOR: ____ TYPE CUT: ____

REMARKS: ____

SHOW RATING

____ NON-PRODUCTIVE ____ POSSIBLY PRODUCTIVE

X PROBABLY NON-PRODUCTIVE ____ PROBABLY PRODUCTIVE

DST RESULTS

SERVICE COMPANY: ____ TEST TYPE: ____

TIME OPEN: ____ CHOKE: ____ BLOW: ____ EST. MCFPD ____

FLUID RECOVERY: ____ EST. GRAVITY: ____ EST. BOPD: ____

IHP: ____ ISIP: ____ FP: ____ FSIP: ____ FHP: ____

LITHOLOGY: Coal interbedded with tuffs

REMARKS: Coal gas

GEOLOGIST: Lanny H. Fisk

SIGNATURE: Lanny H. Fisk

HYDROCARBON SHOW REPORT

DATE: 29 November 1984 SHOW NO. 4

OPERATOR: STEELE ENERGY CORPORATION

WELL: Donnelly Dome No. 1 (Keys 1-28)

COUNTY and STATE: Wheeler County, Oregon

TYPE SHOW: Gas INTERVAL: From 3279' To 3355'

DRILLING RATE: Before 25'/h During 40'/h After 15'/h

MUD WEIGHT: Before 10.5 During 10.5 After 10.5

SALINITY: Before --- During --- After ---

HOT WIRE ANALYSIS

AVERAGE GAS: Before 2.0 units During 10 units After 3.0 units

MAXIMUM GAS DURING SHOW: 15 units MUD WEIGHT CUT TO: _____

INFRARED GAS ANALYSIS

C_1 _____ % C_2 _____ % C_3 _____ % C_4 _____ %

O_2 _____ % N_2 _____ % CO_2 _____ % H_2S _____ %

CHROMATOGRAPHIC ANALYSIS

	Before	During Maximum Range Top	During Maximum Range Bottom	After
C_1	100 %	97	96 %	98 %
C_2	--- %	3	0 %	0 %
C_3	--- %	---	4 %	2 and decreasing
C_4	--- %	---	--- %	%

FLUORESCENCE

PERCENT: 2-5 % COLOR: yel-grn and golden orng TYPE CUT: None

REMARKS: Mineral fluorescence of calcite and an unknown mineral.

SHOW RATING

X NON-PRODUCTIVE

_____ POSSIBLY PRODUCTIVE

_____ PROBABLY NON-PRODUCTIVE

_____ PROBABLY PRODUCTIVE

DST RESULTS

SERVICE COMPANY: _____ TEST TYPE: _____

TIME OPEN: _____ CHOKE: _____ BLOW: _____ EST. MCFPD _____

FLUID RECOVERY: _____ EST. GRAVITY: _____ EST. BOPD: _____

IHP: _____ ISIP: _____ FP: _____ FSIP: _____ FHP: _____

LITHOLOGY: Sh, dk brn, slty, carb, cly, sft

REMARKS: Although a small show, quite significant. Propane component demonstrates organic thermal maturation has produced thermogenic gases.

GEOLOGIST: Lanny H. Fisk

SIGNATURE: Lanny H. Fisk

HYDROCARBON SHOW REPORT

DATE: 10 December 1984 SHOW NO. 5

OPERATOR: Steele Energy Corporation

WELL: Donnelly Dome No. 1 (Keys 1-28)

COUNTY and STATE: Wheeler County, Oregon

TYPE SHOW: Gas INTERVAL: From 3990' To 5000'

DRILLING RATE: Before 10'/h During 20'-200'/h After 12'/h

MUD WEIGHT: Before 10.8 During 8.7-9.1 After 8.7

SALINITY: Before --- During --- After ---

HOT WIRE ANALYSIS

AVERAGE GAS: Before 2-3 units During 6 units After 2 units

MAXIMUM GAS DURING SHOW: 14 units MUD WEIGHT CUT TO: ---

INFRARED GAS ANALYSIS

C_1 100 % C_2 ____ % C_3 ____ % C_4 ____ %

O_2 ____ % N_2 ____ % CO_2 ____ % H_2S ____ %

CHROMATOGRAPHIC ANALYSIS

	Before	Maximum Range During	After
C_1	100 %	99.6 %	100 %
C_2	____ %	0.4 %	____ %
C_3	____ %	____ %	____ %
C_4	____ %	____ %	____ %

FLUORESCENCE

PERCENT: None % COLOR: ____ TYPE CUT: ____

REMARKS: ____

SHOW RATING

____ NON-PRODUCTIVE X POSSIBLY PRODUCTIVE

____ PROBABLY NON-PRODUCTIVE ____ PROBABLY PRODUCTIVE

DST RESULTS

SERVICE COMPANY: ____ TEST TYPE: ____

TIME OPEN: ____ CHOKE: ____ BLOW: ____ EST. MCFPD ____

FLUID RECOVERY: ____ EST. GRAVITY: ____ EST. BOPD: ____

IHP: ____ ISIP: ____ FP: ____ FSIP: ____ FHP: ____

LITHOLOGY: Sandstone, gy-grn, volc, por cons or frac, calc, w some tuf

REMARKS: Although small, gas shows from this thick interval may be significant because they clearly represent trapped accumulation of gas in reservoir quality sandstone. Thus, this interval could contain commercial quantities of low-pressure, high-volume gas.

GEOLOGIST: Lanny H. Fisk

SIGNATURE: Lanny H. Fisk