



00417688

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SEP 28 1972

COLORADO OIL & GAS COMS. COMM.

DATA SHEET

OPERATOR: Paine and Associates

WELL: No. 1 Box Elder Farms

LOCATION: C SW SE Section 6, Township 3 South, Range 65 West

COUNTY: Adams

STATE: Colorado

AREA: Second Creek Field

ELEVATION: 5378' Ground; 5388' K.B.

CONTRACTOR: Western Drilling Company, Denver, Colorado
PUSHER: Bill Walker

EQUIPMENT: RIG NO: 2
TYPE: U-15
PUMP: Gardner-Denver GXN
DERRICK: L. C. Moore
PIPE: 4-1/2 X Hole
COLLARS: 5-3/4" O.D. (14)

COMMENCED: August 5, 1972

SURFACE PIPE: Set 258' of 8-5/8" casing at 271' K.B. with 200 sx.
Plug down at 12:30

DRILLING FLUID: American Mud Co. (Chem-Gel)

SAMPLES: 30' samples 1900'-5000' 30' samples 5500'-7500'
10' samples 5000'-5500' 5' samples 7500'-T.D.

GEOLOGIST: Richard B. Oleson, Denver, Colorado

CORES: No cores taken

DRILL STEM TESTS: Virg's Testers, Byers, Colorado
Straddle test in "D" Sand

LOGGING: Dresser-Atlas (Induction Electrolog and Compensated
Densilog with Gamma Ray and Caliper)

TOTAL DEPTH: 8551 Driller; 8526' Logger

STATUS: Plugged and Abandoned

COMPLETED DRILLING: August 18, 1972

WELL HISTORY

<u>DATE</u>	<u>DEPTH (7:00 A.M.)</u>	<u>REMARKS</u>
August 5, 1972		Set 258' of 8-5/8" csg. @271' K.B. with 200 sx. Plug down @ 12:30 P.M.
August 6, 1972	1060	Drilling
August 7, 1972	2900	Drilling
August 8, 1972	3680	Drilling
August 9, 1972	5102	Drilling
August 10, 1972	5653	Trip for bit
August 11, 1972	6332	Drilling
August 12, 1972	7020	Drilling
August 13, 1972	7580	Drilling
August 14, 1972	7856	Trip for bit
August 15, 1972	8150	Trip for bit
August 16, 1972	8333	Drilling
August 17, 1972	8302	Trip for bit
August 18, 1972	8492	Drilling
August 19, 1972	8551	Logging
August 20, 1972	8551 Driller T.D. 8526 Logger	Ran logs and DST Plugged and Abandoned

STRAIGHT HOLE TESTS

<u>DATE</u>	<u>DEPTH</u>	<u>DEVIATION</u>
August 10, 1972	5653	1-1/4°
August 12, 1972	7309	1°
August 16, 1972	8366	3/4°

FORMATION TOPS

<u>FORMATION</u>	<u>LOG TOP</u>	<u>KB DATUM</u>
Sussex	5222	+ 166
Niobrara	7548	-2160
Timpas	7890	-2502
Greenhorn	8104	-2716
"D" Sand	8281	-2893
"J" Sand	8345	-2957
Dakota Sand	8482	-3094

BIT RECORD

<u>NO.</u>	<u>SIZE</u>	<u>MAKE</u>	<u>TYPE</u>	<u>FOOTAGE</u>
1	7-7/8	Reed	YT3AJ	1723
2	7-7/8	Smith	DTJ	1509
3	7-7/8	Smith	DTJ	1478
4	7-7/8	Hughes	OSC3J	672
5	7-7/8	Reed	YT3J	679
6	7-7/8	Smith	DTJ	977
7	7-7/8	Smith	DTJ	547
8	7-7/8	Hughes	CIC	294
9	7-7/8	Hughes	WD7J	183
10	7-7/8	Hughes	WD7J	33
11	7-7/8	Hughes	WDR	16
12	7-7/8	Smith	5Js	169

LOG CALCULATIONS

<u>FORMATION</u>	<u>DEPTH</u>	<u>POROSITY</u>	<u>WATER SATURATION</u>
Sussex Sand	5306-5320	Tight	100%
"D" Sand	8282-8285	5%	100%
"D" Sand	8285-8302	Tight	100%
"D" Sand	8302-8305	4%	100%
"D" Sand	8305-8314	Tight	100%
"J" Sand	8345-8352	5%	100%
"J" Sand	8372-8382	4%	100%
"O" Sand	8482-8500	Tight	100%

SAMPLE DESCRIPTION

<u>DEPTH</u>	<u>LITHOLOGY</u>	
5010	100%	Grey-green shale
20	100	Grey-green shale
30	100%	Grey-green shale
40	100%	grey-green shale
50	100%	Grey-green shale
60	100%	Grey-green shale
70	100%	Grey-green shale
80	100%	Grey-green shale
90	100%	Grey-green shale
5100	100%	Grey-green shale
10	100%	Grey-green shale
20	100%	Grey-green shale
30	100%	Grey-green shale
40	100%	Grey-green shale
50	100%	Grey-green shale
60	100%	Grey-green shale, predominately dark grey
70	100%	Grey-green shale
80	100%	Grey-green shale
90	100%	Grey-green shale
5200	100%	Grey-green shale
10	100%	Grey-green shale
20	100%	Grey-green shale
30	100%	(Drilling break 5238) Grey-green shale
40	100%	Grey-green shale
50	100%	Shale, medium-dark grey, silty
60	100%	Shale
70	90%	Silty shale, 10% Fine grained, medium grey sandstone with black carbonaceous specks, shaley, no show, low permeability and porosity
80	100%	Dark grey shale- sandy
90	100%	Dark grey shale, trace sandstone as above, no show
5300	90%	Dark grey shale, 10% sandstone as above, no show
10	90%	Dark grey shale, 10% sandstone as above
20	80%	Dark grey shale, 20% white fine grained friable sandstone, no show
30	80%	Dark grey shale, 20% medium grained white glauconitic sandstone, no show
40	80%	Dark grey shale, 20% medium grained white glauconitic sandstone, no show
50	80%	Dark grey shale, 20% medium grained white glauconitic sandstone, no show

SAMPLE DESCRIPTION, Continued

DEPTH		LITHOLOGY
7810	100%	Black shale
20	100%	Black shale
30	100%	Black shale
40	100%	Black shale
50	100%	Black shale
60	90%	Black shale, 10% tan shale
70	90%	Black shale, 10% tan shale
80	100%	Black shale, trace tan shale
90	100%	Black shale, trace tan shale
7900	100%	Black shale
10	100%	Black shale, trace tan shale
20		Cavings
30	100%	Black shale
40	100%	Black shale
50	100%	Black shale
8280	100%	Black shale
90	100%	Black shale
8300-10	100%	Black shale
20	100%	Black shale, trace (2 pieces) clear quartzitic sandstone, very hard, no visible permeability or porosity. Trace light stain, fluorescence fair; fair cut
22	100%	Black shale, trace sandstone as above
25	90%	Black shale, 10% clear quartz, subangular grained sandstone, spotty stain, good fluorescence, low porosity and permeability; good cut
30	90%	Black shale, 10% sandstone as above
35	90%	Black shale, 10% sandstone as above
40	90%	Black shale, 10% sandstone as above
50	90%	Black shale, 10% sandstone as above
55	90%	Black shale, 10% sandstone as above
60	90%	Black shale, 10% sandstone as above
70	100%	Black shale
80	100%	Black shale
90	90%	Black shale, 10% white quartzitic sandstone, tight, low porosity and permeability, very dull fluorescence
8400	90%	Black shale, 10% white quartzitic sandstone, tight, low porosity and permeability, very dull fluorescence, no cut.
10	90%	Black shale, 10% white quartzitic sandstone tight, low porosity and permeability, very dull fluorescence, no cut
15	100%	Black shale
20	100%	Black shale
25	90%	Black shale, 10% light tan fine grained sandstone, no visible permeability or porosity, slight dull fluorescence; no cut
30	90%	Black shale, 10% sandstone as above

SAMPLE DESCRIPTION, Continued

DEPTH	LITHOLOGY	
8435	90%	Black shale, 10% sandstone as above
40	90%	Black shale, 10% sandstone as above
50	100%	Black shale
60	100%	Black shale
70	100%	Black shale
80	100%	Black shale
90	100%	Black shale
8500	90%	Black Shale, 10% dark tan, medium grained sandstone, low permeability and porosity, no show
05	100%	Black shale
10	100%	Black shale
15	90%	Black shale, 10% white medium grained sandstone, no show
20	90%	Black shale, 10% sandstone, as above
30	100%	Black shale
35	90%	Black shale, 10% white-light grey, fine grained sandstone, very poor cut
40	60%	Black shale, 40% sandstone as above
50	60%	Black shale, 40% sandstone as above
8551 Circulating sample	50%	Black shale, 50% light grey, fine grained sandstone



DRILL STEM TEST RECORD

DST NO. 1: 8284'-8348 ("D" Sand straddle test)

Tool open five minutes; sut in 30 minutes; open one hour; shut in two hours.
Very weak blow on preflow and only few bubbles on second opening.

Recovered: 500' gas in drill pipe and 1350' fluid (1100' gas cut water cushion with scum oil on top and trace oil throughout, 170' gas cut muddy water and 80' slightly oil and gas cut mud.

IHP	4396#	FHP	4357#
IFP	574#	FFP	583#
IFP-2	592#	FFP-2	612#
ISIP	3584#	FSIP	3563#

GEOLOGICAL COMMENTS

The Paine and Associates No. 1 Box Elder Farms was plugged and abandoned at a total depth of 8526 feet in the Dakota Sand. Plugging orders of a plug at 1450' to 1700' and 10 sacks of cement in the top and 15 sacks of cement in the base of the surface pipe, were received from the state Oil and Gas Commission. Oil and gas shows were encountered in the "D" Sand; however, the zone was to non-permeable to be economically productive according to the drill stem test results and log calculations.

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