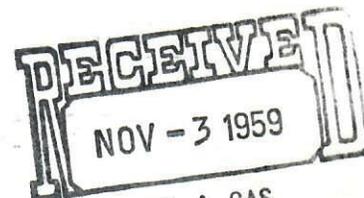




DATA SHEET AND DISCUSSION



OIL & GAS
CONSERVATION COMMISSION

LOCATION: NW NW (661 feet South of North line and 664 feet East of West line), Section 28, Township 2 North, Range 54 West, Washington County, Colorado.

COMMENCED: October 11, 1959

COMPLETED: October 15, 1959

CONTRACTOR: Exeter Drilling Company

CASING: Set 3 joints, 90 feet of 8 5/8 inch, 24 pound, 8 rd. thread new casing at 100 feet with 85 sacks of cement, 2% Calcium Chloride, 4% Gel.

MEASUREMENTS: All measurements are taken from the kelly bushing approximately 7 feet above the ground elevation.

ELEVATION: 4513 Ground (Osborne) 4520 Kelly Bushing

<u>Formation</u>	<u>Sample Tops</u>	<u>Log Tops</u>	<u>Datums</u>
Niobrara	3970	3974	+ 546
Timpas	4339	4340	+ 180
Carlile	4392	4395	+ 125
Greenhorn	4475	4479	+ 41
Mowry	4713	4718	- 198
Brown Lime	4723	4723	- 203
"D" Sand	4807	4805	- 285
"J" Siltstone	4866	4870	- 350
"J" Sand	4884	4884	- 364
Total Depth	4932	4937	- 417

DISCUSSION: The "D" Sand, 4805 (-285) was 41 feet lower than #1 and 18 feet lower than #2, which was not expected from the sub surface work. Also the top part of the sand was shaled out with the only shows noted in the core being in 2 feet of reworked sand in the top, a 3 inch sand stringer near 4830, and 8 inches between 4834 and 4835. There were beds of clean sand below 4845 which were water bearing. This well indicates a low shaled out area between the old producing wells to the northwest and the production to the southeast.

The "J" Sand, 4884 (-364) was drilled to 4937 with no shows noted in the samples or indicated on the log.

The well was plugged October 15, 1959 by filling it with heavy mud from the total depth to the bottom of the surface pipe (4937 to 100). A 10 sack cement plug was set in the bottom 30 feet of the surface pipe 100 to 70, then the casing was filled with heavy mud to within 20 feet of the top. A 7 sack cement plug was set in the top 20 feet of the surface pipe (30 to 10).

Discussion (Continued)

All measurements are taken from the kelly bushing which was approximately 7 feet above the ground.

Submitted by,
George D. Volk
GEORGE D. VOLK
Petroleum Geologist

GDV:sh

SAMPLE LOG

3900-10	Shale dark gray		
20	Ditto		
30	Ditto		
40	Ditto		
50	Ditto		
60	Ditto		
70	Ditto		
3970	<u>Niobrara</u>		
80	Ditto		
90	Ditto		
4000	Ditto; little shale dark gray mottled buff calcareous		
4000-10	Ditto; little ditto		
20	Shale gray to dark gray mottled white to brown calcareous and shale dark gray		
30	Ditto and ditto		
40	Ditto and ditto		
50	Ditto; little ditto		
60	Ditto; trace ditto		
70	Same		
80	Same		
90	Same		
4100	Same		
4100-10	Same		
20	Same		
30	Same		
40	Same		
50	Same		
60	Same		
70	Same		
80	Same		
90	Same		
4200	Same		
4200-10	Same		
20	Same		
30	Same		
40	Same		
50	Same; trace limestone gray shaley dense		
60	Same; trace ditto		
70	Same; trace ditto		
80	Same; trace ditto		
90	Same; trace ditto		
4300	Same; trace ditto		
4300-10	Same		
20	Same		
30	Same		
4339	<u>Timpas</u>		
4340	Same		
50	Same		
60	Limestone white to buff dense; shale dark gray; little calcareous shale as above		
70	Ditto;	Ditto	Little ditto
80	Ditto	Ditto	little ditto

Sample Log (Continued)

4380-90	Limestone white to buff dense; Shale dark gray; Little calcareous shale as above
4392	<u>Carlisle</u>
4400	Ditto; ditto; little ditto
4400-10	Ditto; ditto; little ditto
20	Shale dark gray; little limestone white dense; trace ditto
30	Ditto; little ditto; trace ditto
40	Ditto; little ditto; trace ditto
50	Ditto; little ditto; trace ditto
60	Ditto; trace ditto; trace ditto
4475	<u>Greenhorn</u>
70	Ditto; trace ditto; trace ditto
80	Ditto; trace ditto
90	Ditto; trace ditto; trace siltstone gray
4500	Ditto; trace ditto; trace ditto
4500-10	Ditto; little siltstone gray; trace limestone buff crystalline
20	Ditto; little ditto
30	Ditto; little ditto
40	Ditto; little ditto
50	Ditto; trace ditto
60	Ditto; trace ditto; trace limestone gray crystalline
70	Ditto
80	Ditto
90	Ditto
4600	Ditto; little limestone white dense and chert light brown
4600-10	Ditto; trace ditto; trace ditto; trace siltstone gray
20	Ditto; trace siltstone gray
30	Ditto
40	Ditto
50	Ditto
60	Ditto
70	Ditto; trace siltstone gray
80	Ditto; trace ditto
90	Ditto; trace ditto partly calcareous
4700	Ditto; trace ditto partly calcareous
4700-10	Ditto; trace ditto
20	Ditto; trace ditto
4715	<u>Mowry</u>
4723	<u>Brown Lime</u>
30	Ditto; trace ditto; trace limestone buff crystalline
40	Ditto; trace ditto
50	Ditto; trace ditto; trace limestone gray to buff crystalline
60	Ditto; trace ditto; trace ditto
65	Ditto
70	Ditto
75	Ditto
80	Ditto
85	Ditto
90	Ditto
95	Ditto
4800	Shale dark gray to black
4800-05	Ditto
4807 (-287)	<u>"D" Sand</u>
10	Ditto

Sample Log (Continued)

4810 Circ. 30
Min. Shale dark gray to black; trace sand gray fine silty tight, partly weak fluorescence; trace siltstone gray

4810 Circ. 60
Min. Ditto; trace ditto; trace ditto

4810-55 See Core Description

4855-60 Shale dark gray to black; sand gray fine porous; partly silty, no show siltstone gray

65 Ditto; ditto; trace ditto

4866 "J" Siltstone

70 Ditto; little ditto; trace ditto

75 Ditto; little ditto; trace ditto

80 Ditto; little ditto; trace ditto; trace chert brown

4884 "J" Sand

85 Ditto; trace ditto; trace ditto; trace ditto

90 Ditto; trace siltstone gray to dark gray

95 Ditto and sand gray fine silty tight, no show, probably reworked

4900 Ditto and ditto

4900-05 Ditto and ditto

10 Ditto and ditto some hard quartzitic

15 Ditto; little ditto; some hard quartzitic

20 Ditto; trace argillite white

25 Ditto; trace ditto

30 Ditto; trace ditto; trace sand gray fine partly silty, no show

4932 Circ. 30
Min. Ditto; trace ditto; trace ditto

4932 Circ. 60
Min. Ditto; trace ditto; trace ditto

CORE DESCRIPTION AND CORE ANALYSIS RECORD

Core #1 4810 to 56 - Full Recovery

2' - 0" Reworked sand gray fine silty tight, staining, odor, and fluorescence, and shale dark gray. (Too tight to give up fluid)

3' - 0" Shale dark gray hard slight reworked with sand gray fine silty tight and siltstone gray

16' - 0" Thinly laminated and slightly reworked sand gray fine silty tight, no show, shale dark gray and siltstone gray. 2" show at 4830.

5' - 0" Same with beds of porous sand, 6" bed with show between 4834 and 35.

9' - 0" Same, no show

11' - 0" Sand gray fine partly silty porous, no show, with beds of reworked sand and shale (60% sand, 40% reworked)



REC'D 1 1959

PLAINS EXPLORATION COMPANY
MITCHELL NO. 3
RUBY
WASHINGTON COLORADO
C MW HW 28 27 24W

"D" SAND 1 of 1
DIAMOND CONVENTIONAL RP-2-2222
WATER BASE MUD 10-14-59
4521 KB DI
SERVICE NO. 8

1	4810-11	4.4	1.8	16.2	9.3	61.8	(2)	Sandstone, Fine-Grain, Thin Shale Laminations.
2	4831-32	34	15	15.0	0.0	82.8	(2)	Sandstone, Fine-Grain, Thin Shale Laminations, Vertical Fracture.
3	4834-35	54	45	14.6	11.6	49.4	(2)	Sandstone, Fine-Grain, Clean, Vertical Fracture.
4	4845-46	131	112	16.9	0.0	96.5	(2)	Sandstone, Fine-Grain, Clean.



PLAINS EXPLORATION COMPANY

MITCHELL NO. 3

RUBY

WASHINGTON COLORADO

C NW NW 25 21 54W

"D" SAND

DIAMOND CONVENTIONAL RP-2-2222

WATER BASE MUD 10-14-59

4521 KB DI

SERVICE NO. 8

1	4810-11	4.0	2.8	16.2	9.3	61.8	(2)	Sandstone, Fine-Grain, Thin Shale Laminations.
2	4831-32	26	15	15.0	0.0	82.8	(2)	Sandstone, Fine-Grain, Thin Shale Laminations, Vertical Fracture.
3	4834-35	54	46	14.6	11.6	49.4	(2)	Sandstone, Fine-Grain, Clean, Vertical Fracture.
4	4845-46	131	112	16.9	0.0	96.5	(2)	Sandstone, Fine-Grain, Clean.



121-06912

BIT RECORD

No	Make	Size	Type	From - To	Footage Drilled	Hours Run	Condition
1	CP ;	7 7/8	ESIC	90 - 3349	3257	15	Dull
2	Hughes	"	OSC3	3347 - 4571	1224	13	Dull
3	CP	"	ESIC	4571 - 4810	239	4	Green
*	Diamond	6 5/8	Core	4810 - 4855	45	7	Not Hurt
4	Hughes	7 7/8	OWV	4810 - 4932	122	9	WO

MJD RECORD

Date	Depth	Wt	Vis	St. Vis	Gel. Strength		pH	Water Loss in cc	Wall Cake in 32nds	Tester
					Initial	Final				
10/12/59	3028									
10/13/59	4718	10.2	52	32	1	2	8.5	5.1	1	Magcobar
10/14/59	4875	10.3	60	41	1	8	8.5	5.2	1	"

