

SCANNED

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MAY 14 1981

COLO. OIL & GAS CONS. COMM.



Geologic Report

#1 R. V. Borchert
#6 Schmidt
SW NE
Sec 31 T 2 N R 53 W
Washington Co., Colorado

360-9705

Contractor: Empire Drilling Co.
Tool Pusher: Art Anderson

Elevation: 4629 GL
4638 KB

Casing: 8 5/8 at 110' KB w/125 sx

Chronology: 4/25/81 Spudded surface hole 11 P.M.
4/26/81 Drilling at 900'
4/27/81 Drilling at 1749'
4/28/81 Drilling at 3492'
4/29/81 Drilling at 4174'
4/30/81 Drilling at
5/01/81 Drilling at 4909'
5/02/81 Plugging TD 4950'

Bit Record:	Run	Make	Type	Size	Depth Out
	1	HTC	OSC3H5	7 7/8	3645
	2	STC	DTJ	7 7/8	4695
	3	STC	DTJ	7 7/8	4950

Sample Description:

4200-4210 NS
4210-4220 Marlstone
4220-4230 Marlstone redish-gray oolitic beding NS No Apparent p & p
4320-4330 Marlstone oolitic crushed no visible p & P no beding
4700-4710 Black gray shale and bentonite
4710-4720 Shale black fissile, gray rounded bentonite, white-tan
4720-4730 Shale blk & gray, bentonite - white & purple
4730-4740 Shale a.a; sltst, brn, gra, dirty
4740-4750 Shale, gray black; sltst, gra & dirty
4750-4760 Shale, black, fissile; gray, soft, rounded
4760-4770 Shale a.a.; sltst, gray
4770-4780 Shale a.a. w/sltst, gray, hard, tite
4780-4790 Shale a.a.; white bentonite
4790-4800 Ss f-med; f-g porosity; f-dull yellow flour
4800-4810 Ss vf-f, gray-white, clean; spotty flour
4810-4815 Ss vfg-f, white, clean, clear, sub round; some lt br st & flour
4815-4820 Ss a.a.; flour decreas; sltst lt gray

DVR	✓
FJP	
HHM	✓
JAM	✓
JJD	✓
RLS	
CGM	

4820-25 Ss a.a.; shale apparently increasing; flour & lt stain in Ss vfg clean
4825-30 Ss vf-f, clean, lt brn st in pt; some brite yellow flour
4830-35 Ss f-med, clean white, wel sorted, good p & p, poor stain & flour
4835-40 Ss lt gra, vfg, white, clean, poor p & p; some spotty stains
4840-45 Shale blk & gray; Ss, few grns, med with flour
4845-50 Ss vf-f, some lt brn st, glauc; low dull flour; shale gray-blk;
bentonite, white
4850-55 Ss vf-f; glauc and shale gray-black
4855-60 Shale gra-blk; trace Ss; NS
4860-65 Shale blk-gra; sltst; dead oilstain; bentonite, white; small amt
Ss, gray
4865-70 Shale, gray black, bentonitic
4870-75 Shale, gray-black
4875-80 Shale, black-gray, bentonitic
4880-85 Shale, gray-black
4885-90 Shale, black-gray, aragonite, bentonite
4890-95 Med grn well sorted, ex p&p, wet
4895-
4900 Sltst, gra-white; Ss vf-med grained, clean in pt; ex p & P; poor showing
4900-05 Sltst white, clean; Ss med gr; excellent p & p; no show
4905-10 Hvy sltst, gra, dirty; Ss, med grn a.a.; bentonite, white
4910-15 Ss vf-med gr; brn st; some good p & p; spotty flour
4915-20 Shale, gray black; trace Ss; No show
4920-25 Ss gray-blk; bentonite, white; sltst
4930-35 Ss, f grnd; occasional med grnd; with spotty show; shale
4935-40 Shale a.a.; siltst, vf; ss, white, clean
4940-45
4945-50 Shale, grn soft; blk fissile; siltst, white

Logging program:

Type logs:	IES	
Contractor:	Dresser - Atlas	
Engineer:	Lester Lebsock	
Log Tops:	Niobrara	3936'
	Carlisle	4267'
	Greenhorn	4474'
	Bentonite	4673'
	D sand	4750'
	J sand	4838'
	T.D.	4926'

DST #1 4766-4770' see charts

No cores were cut

Remarks: This well was structurally high to all adjacent wells; it appears to be approaching the pinch out.

The D sand was 26' in overall thickness. The first bench had 4' of sand; the second bench was only 3-4' in thickness. This zone did have good show and was tested.

The J sand was tight at the top with excellent P & P near base which was water wet.

The test was plugged and abandon as a dry hole.

Phone
(303) 522-2050

Mile-Hi Testers, Inc.

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Box 453
Sterling, CO 80751

Contractor Empire Drlg. Co.
Rig No. 6
Spot SW-NE
Sec. 31
Twp. 2 N
Rng. 53 W
Field Wildcat
County Washington
State Colorado
Elevation 4636' K.B.

Surface Choke 1"
Bottom Choke 3/4"
Hole Size 7 7/8"
Rat Hole Size ---
DP Size & Weight 4 1/2" XH 16.60
Wt. Pipe ---
I.D. of DC 2 1/2"
Length of DC 495'
Total Depth 4929' (driller)
Type of Test Straddle

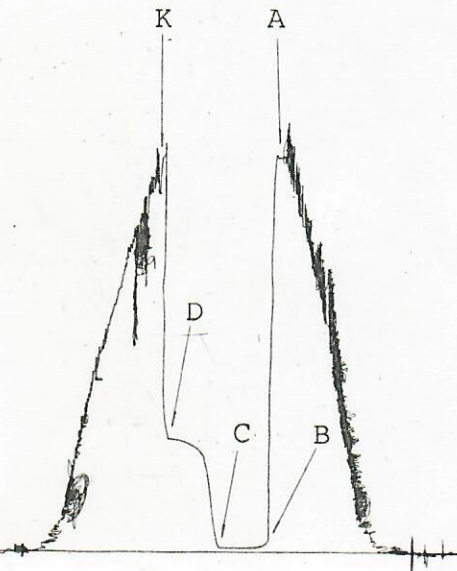
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Mud Type Gel-Chemical
Weight 10.5
Viscosity 55
Water Loss 4.9
Filter Cake 2/32
Resistivity 3.0 @ 80 OF
1650 Ppm. NaCl
Bottom
Hole Temp. 143° F

Opened Tool @ 15:48 hrs.
Flow No. 1 (60) 59* min.
Shut-in No. 1 (60) 63* min.
Flow No. 2 None Taken min.
Shut-in No. 2 " " min.
Flow No. 3 " " min.
Shut-in No. 3 " " min.
*Corrected

Recorder Type Kuster AK-1
No. 11038 Cap. 5075 psi
Depth 4785 feet
Inside [X] Outside []

Initial Hydrostatic	A	2610
Final Hydrostatic	K	2612
Initial Flow	B	74
Final Initial Flow	C	29
Initial Shut-in	D	751
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---



Pipe Recovery: 25' Mud = 0.15 bbl.

Recovery R W - 3.0 @ 82° F = 1600 ppm. NaCl.

Co. Rep. Jack Fish
Tester Duane Custer

Surface blow:
1st flow:

Tool opened with a weak blow, slowly increased to bottom of bucket in 10 minutes; began to decrease after 30 minutes to a 1" blow at end of flow period. No gas to surface.

Operator
Address

R.V. Borchert
Box 42
Sidney, Nebraska

69162

Well Name & No.
Formation
Test Interval

Schmidt #1
"D" Sand
4766' - 4770'

DST No.
Ticket No.
Date

1
311
5/1/81

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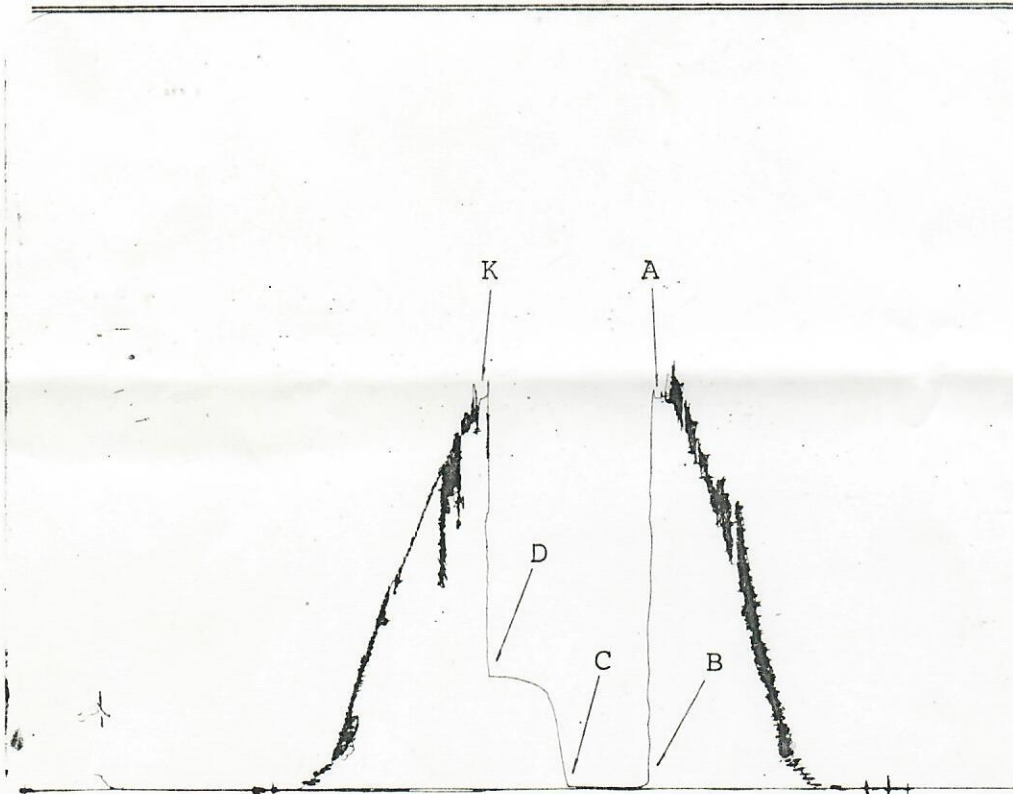
Mile-Hi Testers, Inc.

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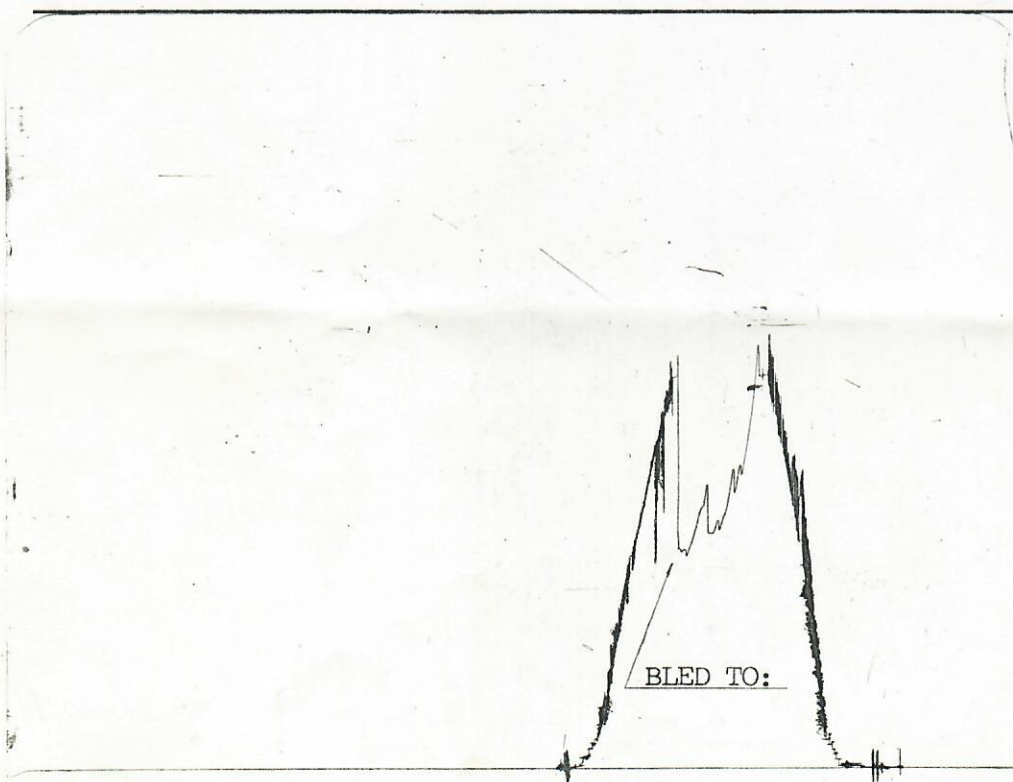
R.V. Borchert
Operator

Schmidt #1
Well Name and No.

1
DST No.



Inside Recorder		
PRD Make	Kuster AK-1	
No.	11039	Cap. 5150 @ 4780'
Press	Corrected	
Initial Hydrostatic	A	2611
Final Hydrostatic	K	2614
Initial Flow	B	61
Final Initial Flow	C	23
Initial Shut-in	D	760
Second Initial Flow	E	---
Second Final Flow	F	---
Second Shut-in	G	---
Third Initial Flow	H	---
Third Final Flow	I	---
Third Shut-in	J	---



Outside Recorder		
PRD Make	Kuster AK-1	
No.	11037	Cap. 5150 @ 4791'
Press	Corrected	
Initial Hydrostatic	A	
Final Hydrostatic	K	
Initial Flow	B	
Final Initial Flow	C	
Initial Shut-in	D	
Second Initial Flow	E	
Second Final Flow	F	
Second Shut-in	G	
Third Initial Flow	H	
Third Final Flow	I	
Third Shut-in	J	

Pressure Below Bottom Packer Bled To	1467
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R.V. Borchert
Operator

Schmidt #1
Well Name and No.

1
DST No.

INCREMENTAL READING DATA

Recorder No. 11038 @ 4785'

INITIAL SHUT-IN

Initial flow time, $t = 59$ min

ϕ (min)	$\log \frac{t + \phi}{\phi}$	Pressure (psi)
0		29
4	1.197	60
8	.923	177
12	.772	375
16	.671	531
20	.597	625
24	.539	663
28	.492	686
32	.454	702
36	.421	713
40	.394	724
44	.369	731
48	.348	737
52	.329	742
56	.313	746
60	.297	749
63	.287	751

Points Used: 5

Extrapolated Pressure: 817 psi

Slope: 228 psi/log cycle

Mile-Hi Testers, Inc.

Sampler Report

Company R.V. Borchert Date 5/1/81
Well Name & No. Schmidt #1 Ticket No. 311
County Washington State Colorado
Test Interval 4766' - 4770' DST No. 1

Total Volume of Sampler: 2150 cc.

Total Volume of Sample: 300 cc.

Pressure in Sampler: 0 psig

Oil: None cc.

Water: None cc.

Mud: 300 cc.

Gas: None cu. ft.

Other: None

Sample R W - 3.0 @ 80° F = 1650 ppm. NaCl.

Resistivity

Make Up Water 6.0 @ 75° F of Chloride Content 850 ppm.

Mud Pit Sample 3.0 @ 80° F of Chloride Content 1650 ppm.

Gas/Oil Ratio _____ Gravity _____ °API @ _____ °F

Where was sample drained On location.

Remarks: _____

