

CHENEY TESTING COMPANY, INC.

P. O. Box 367

HILL CITY, KANSAS 67642



00514282

DRILL-STEM TEST DATA

JUL 6 1984

Company	Champlin Petroleum Company	Test No.	DENVER DISTRICT DRILLIN
Well Name & Number	Bledsoe #5	Zone Tested	Marmaton
Company Address	7600 E. Orchard, Suite 300 Englewood Co.	Date	6/12/84
Company Rep.	Fred Marchetti	Tester	Richard Elliott
Contractor	H-30 Drilling Company	Elevation	4893 KB
Location: Sec. 31 Twp. 12s Rge. 50w Co. Chey. State Colo.		Est. Feet of Pay	

Recorder No. 13637 Type AK-1 Range 6075 PSI

Recorder Depth 5509 Clock # 27804

(A) Initial Hydrostatic Mud 2746 PSI

(B) First Initial Flow Pressure 200 PSI

(C) First Final Flow Pressure 200 PSI

(D) Initial Shut-in Pressure 1419 PSI

(E) Second Initial Flow Pressure 269 PSI

(F) Second Final Flow Pressure 303 PSI

(G) Final Shut-in Pressure 1419 PSI

(H) Final Hydrostatic Mud 2702 PSI

Temperature 139

Mud Weight 9.1 Viscosity 50

Fluid Loss 6.8

Interval Tested 5495-5515

Anchor Length 20

Top Packer Depth 5488

Bottom Packer Depth 5495

Total Depth 5515

Drill Pipe Size 4 1/2 XH

Wt. Pipe I. D. Fl. Run

Recovery-Total Feet 570

Recovered 2430 Feet Of gas in pipe.

Recovered 300 Feet Of gassy oil. Gravity: 36 API corrected.

Recovered 70 Feet Of gassy oil cut mud, 55% gas, 20% oil, 25% mud.

Recovered 100 Feet Of gassy oil cut mud, 70% gas, 10% oil, 20% mud.

Recovered 100 Feet Of gassy oily watery mud, 60% gas, 10% water, 20% mud.

Recovered Feet Of

Extra Equipment Bowen Jars, Safety Joint, Sampler

Price of Job \$1830.00

Recorder No. 13278 Type AK-1 Range 4400 PSI

Recorder Depth 5512 Clock # 25719

Tool Open Before I.S.I. 15 Mins.

Initial Shut-in 60 Mins.

Flow Period 60 Mins.

Final Shut-in 120 Mins.

Top Choke Size 1" Hole Size 7 7/8"

Bottom Choke Size 3/4" Rubber Size 6 3/4"

Tool Open @ 3:05 AM

Blow Remarks 1st open: Fair to strong blow, 4 minutes to bottom.

2nd open: Good to strong blow, 1 minute to bottom.

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WRS	
MM	
HHM	
JAM	
RCC	
LAR	
CGM	
ED	

Drill Collars: 2.25 Ft. Run: 586

CHENEY TESTING CO., INC.

P. O. BOX 367

HILL CITY, KANSAS 67642 COLO. OIL & GAS CONS. COMM.

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FLUID SAMPLER DATA

Ticket No.	9066	Date	6/12/84
Company Name	Champlin Petroleum Company		
Lease	Bledsoe #5	Test No.	2
County	Cheyenne	Sec. 31	Twp. 12s Rge. 50w

SAMPLER RECOVERY

Gas	1.08 ft ³	ML
Oil	450	ML
Mud	50	ML
Water	1000	ML
Other		ML
Pressure	120	P.S.I.
Total	1500	ML

PIT MUD ANALYSIS

Chlorides	3,000	ppm
Resistivity	1.90 ohms @	60.5 °F
Viscosity	50	
Wt.	9.1	
Filtrate	6.8	cc
Other		

SAMPLER ANALYSIS

Resistivity	0.21 ohms @	77.6 °F
Chlorides	22,000	ppm
Gravity	36	Corrected @ 60°F

PIPE RECOVERY

TOP:

Resistivity		ohms @		°F
Chlorides				ppm

MIDDLE:

Resistivity	0.19 ohms @	86.3 °F
Chlorides	26,000	ppm

BOTTOM:

Resistivity	0.21 ohms @	75.5 °F
Chlorides	29,000	ppm

INITIAL SHUT-IN

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RECORDER NO: 13278 DEPTH: 5515 FT. OIL & GAS CONS. COMM.

INITIAL FLOW TIME (T): 15 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
0	0.000	176.6
5	0.602	742.7
10	0.398	1071.5
15	0.301	1173.1
20	0.243	1224.9
25	0.204	1265.8
30	0.176	1294.5
35	0.155	1318.7
40	0.138	1336.4
45	0.125	1355.2
50	0.114	1366.2
55	0.105	1379.4
60	0.097	1390.5

FINAL SHUT-IN

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RECORDER NO: 13278 DEPTH: 5515 FT.

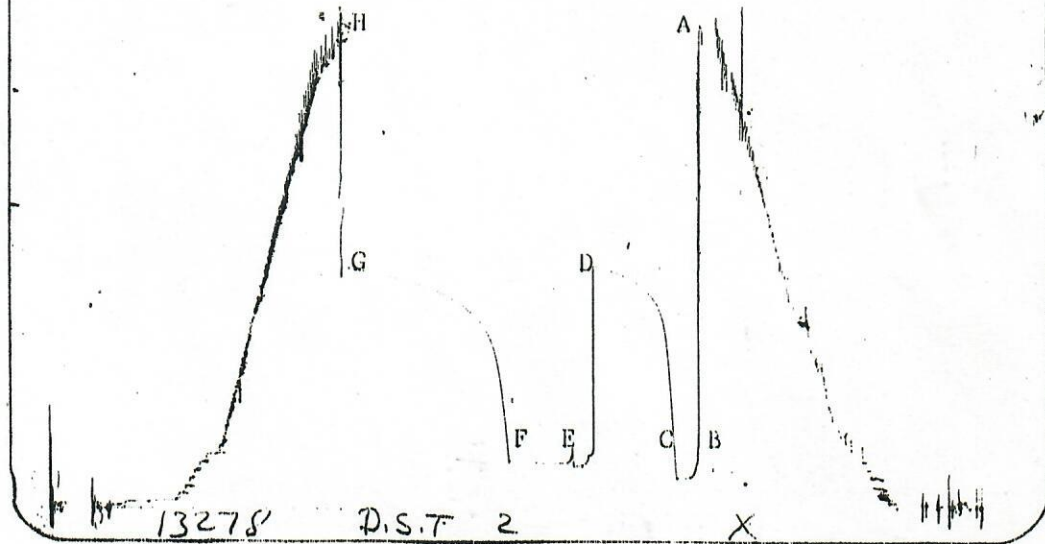
TOTAL FLOW TIME: 75 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)
0	0.000	270.4
5	1.204	801.2
10	0.929	952.4
15	0.778	1026.3
20	0.677	1076.0
25	0.602	1115.7
30	0.544	1151.0
35	0.497	1177.5
40	0.459	1200.7
45	0.426	1222.7
50	0.398	1242.6
55	0.374	1256.9
60	0.352	1272.4
65	0.333	1282.3
70	0.316	1292.3
75	0.301	1304.4
80	0.287	1314.3
85	0.275	1325.4
90	0.263	1336.4
95	0.253	1344.1
100	0.243	1353.0
105	0.234	1361.8
110	0.226	1367.3
115	0.218	1372.8
120	0.211	1378.3

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This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	2746	2741
(B) First Initial Flow Pressure	200	176.6
(C) First Final Flow Pressure	200	176.6
(D) Initial Closed-in Pressure	1419	1390.5
(E) Second Initial Flow Pressure	269	243.9
(F) Second Final Flow Pressure	303	270.4
(G) Final Closed-in Pressure	1419	1328.3
(H) Final Hydrostatic Mud	2702	2697

CHENEY TESTING CO, INC.
CALCULATION OF FORMATION CHARACTERISTICS
FROM DST DATA

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COLO. OIL & GAS CONS. COMM.

FOR: CHAMPLIN PETROLEUM COMPANY
BLED SOE #5 DST # 2
SEC 31-12S-50W FORMATION: MARMATON
CHEYENNE COUNTY, COLORADO ELEVATION: 4893 KB

TEST PARAMETERS

TEST INTERVAL: 5495 - 5515	EST PAY: 4
TIME INTERVAL: 15 - 60 - 60 - 120	VISCOSITY OF FLUID: 3.5
INITIAL FLOW PRESS: 176.6- 176.6	HOLE SIZE: 7.875
FINAL FLOW PRESS: 243.9- 270.4	D.C. CAPACITY: 0.00492
SHUT-IN PRESS(I-F): 1390.5-1378.3	W.P. CAPACITY: 0.00708
BOTTOM HOLE TEMPERATURE: 139	D.P. CAPACITY: 0.01402
TOTAL FEET OF RECOVERY: 570	TOTAL BARRELS RECOVERY: 2.8017

EXTRAPOLATED INITIAL SHUT-IN PRESSURE (PSI): 1493
SLOPE (PSI-CYCLE): 1194 POINTS USED: 6

EXTRAPOLATED FINAL SHUT-IN PRESSURE (PSI): 1545
SLOPE (PSI-CYCLE): 812 POINTS USED: 7

CALCULATIONS

AVERAGE PRODUCTION RATE (B/D)	: 53.79
TRANSMISSIBILITY (MD-FT/CP)	: 10.77
PERMEABILITY (MD)	: 9.43
PRODUCTIVITY INDEX (B/D/PSI)	: 0.0348
DAMAGE RATIO	: 0.287
APPROXIMATE RADIUS OF INVESTIGATION (FT)	: 26.6
DRAWDOWN FACTOR (%)	: -3.483
POTENTIOMETRIC SURFACE (FT)	: 2960.86

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OIL & GAS CONS. COMM.

HORNER PLOT

CHAMPLIN PETROLEUM COMPANY

BLEDSOE #5

WST # 2 DEPTH: 5515

RECORDER NO. 13278

INITIAL SHUT-IN: \diamond FINAL SHUT-IN: \square

LOG((T+DT)/DT)

1.0 0.9 0.8 0.7 0.6 0.5 0.4 0.3 0.2 0.1 0.0

PRESSURE (PSI)

1600

1450

1300

1150

1000

850