



DRILL-STEM TEST DATA

Well Name <u>WESTERN MINERALS Y.T.F. 54</u>	Test No <u>FOUR</u>
Well Number <u>N. HOPE Y.T.F. 54</u>	Zone Tested _____
Company <u>WESTERN MINERAL LTD.</u>	Interval <u>10845-10970</u>
Conip Rep <u>MR. C.D. GILBREATH</u>	Tester <u>JOE HUGI</u>
Date <u>AUGUST 8, 1970</u>	

Type of Test DUAL STRADDLE BY-PASS RFS Tool No. 11 DRAINED AT LOCATION

Preflow _____ mins. ISI _____ mins. Flow 60 mins FSI 78 mins

Specify Inside or Outside	ins REC. No. <u>887</u>	outs REC. No. <u>888</u>	REC No. _____
	<u>7700</u> RANGE <u>12</u> HR CLOCK	<u>7900</u> RANGE <u>24</u> HR CLOCK	RANGE _____ HR CLOCK
DEPTH	<u>10832</u>		
Initial Hydro Mud Press	<u>5203</u>	<u>5249</u>	
Initial Shut-In Press			
Initial Flow Press	<u>1277</u>	<u>1559</u>	
Final Flow Press	<u>3902</u>	<u>4234</u>	
Final Shut-In Press	<u>4675</u>	<u>4704</u>	
Final Hydro Mud Press	<u>5203</u>	<u>5249</u>	

Mud Drop 20 Feet Fluid Loss _____ Mud Weight 9.7

Viscosity 300 Temperature °F 195 Net Pay Tested _____

Top Packer Depth 10845 Bottom Packer Depth 10970 Total Depth 14045

Drill Pipe Size 4 1/2" fh Wt. 16.6 Drill Collar I.D. 2 3/8" Ft Run 180

Surface Choke Size Closed Bottom Choke Size 1/2" Main Hole Size 8 3/4"

Anchor Size 4 1/2" OD Rat Hole Size _____ Feet of Rat Hole _____

Cushion Amount 3040 Type WATER Rubber Size 7 1/2"

Fluid Recovery Total Feet 8055

Recovered 275 Feet of MUDDY WATER

Recovered 3470 Feet of SLIGHTLY GAS CUT WATER CUSHION

Recovered 2560 Feet of GAS CUT DRILLING MUD

Recovered 1730 Feet of SULPHUROUS WATERY DRILLING MUD

Recovered _____ Feet of _____

Gas Recovery How Measured _____ Riser size: _____

_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day
_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day
_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day
_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day
_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day
_____ mins.	Temp. °F _____	Press Rdg. _____ psi	Orifice Size _____	= _____ MCF/Day

Bleed Off Time for Drill Pipe _____

REMARKS SMALL AIRFLOW DURING 1HR. FLOW. DUE TO POOR HOLE CONDITIONS
ONLY 1 FLOW AND 1 SHUT-IN WAS TAKEN



TESTING REPORT

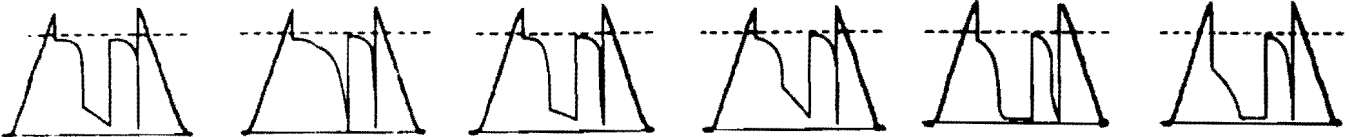


4S LANDING SUB		
4S CHAMBER		
4S TOOL OR P.O. SUB	5.00	
CO SUB	1.00	
SHUT IN TOOL	5.50	
R.F.S. No. 11	3.35	
R.F.S. No.		
HYDRAULIC TOOL	7.20	
JARS	6.00	
RECORDER No. 887 ins	5.00	DEPTH 10832
RECORDER No.		DEPTH
SAFETY JOINT	1.75	
BY PASS SUB	1.00	
1. PACKER DEPTH 10839	PACKER	6.00
2. PACKER DEPTH 10845	PACKER	5.00
	ANCHOR—SPECIFY	1.00
	Perfs	20.00
	BLANK OFF OR BY PASS SUB	1.00
	RECORDER No. 888 Outs	4.00 DEPTH 10867
	Drill Collars+ C.O.S.	95.90
3. PACKER DEPTH 10970	PACKER	3.00
		3.00
4. PACKER DEPTH 10976	PACKER	6.00
	ANCHOR—SPECIFY	
	Perfs	13.00
	RECORDER No.	DEPTH
	DRILL PIPE +C.O.S.	3046.00
	PERFS	4.00
TOTAL DEPTH 14045	BULLNOSE	3.00
		TOTAL TAIL PIPE 3075
		TOTAL TEST TOOL 108.80

TOTAL TOOL ABOVE INTERVAL 46.80

TOTAL INTERVAL 125.00

DST CHARTS FOR COMPARATIVE VISUAL ANALYSIS



B HIGH PERMEABILITY STRONG DAMAGE EFFECT HIGH PERMEABILITY NO DAMAGE EFFECT MEDIUM PERMEABILITY STRONG DAMAGE EFFECT MEDIUM PERMEABILITY NO DAMAGE EFFECT LOW PERMEABILITY STRONG DAMAGE EFFECT LOW PERMEABILITY NO DAMAGE EFFECT



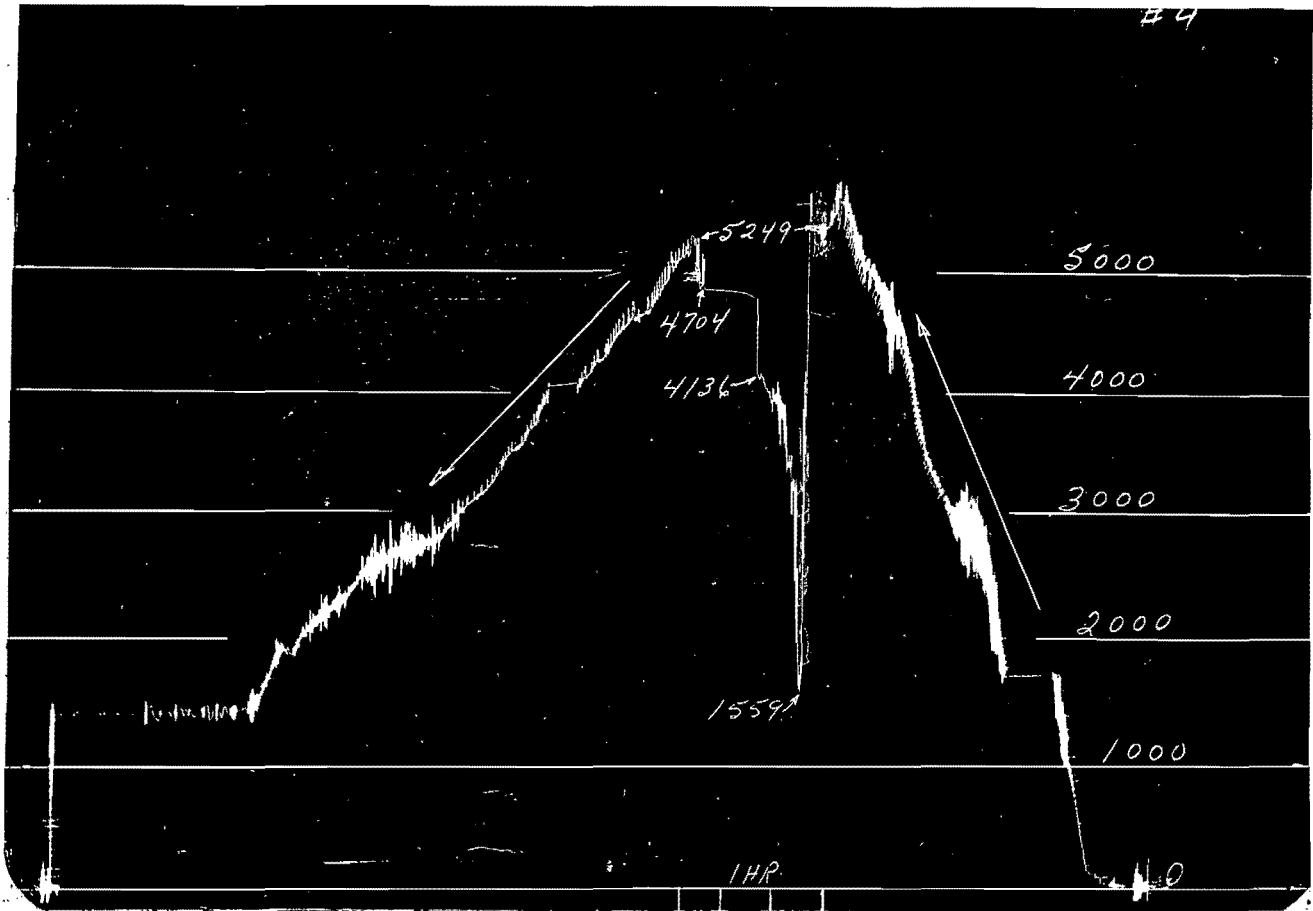
DST PRESSURE INCREMENTS

Recorder No. 887

Depth 10832

Points	INITIAL CIP				FINAL CIP			
	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG	Time Defl. "	T + θ	$\frac{T + \theta}{\theta}$	PSIG
1					0			3902
2					5			4598
3					10			4621
4					15			4633
5					20			4643
6					25			4650
7					30			4654
8					35			4659
9					40			4663
10					45			4665
11					50			4667
12					55			4669
13					60			4671
14					65			4673
15					70			4674
16					75			4675
17					78			4675
18								
19								
20								
21								
22								
23								
24								

#4



1HR

