



00500093

TECHNICAL SERVICES, Security Life Bldg. • Suite 1350 • 1616 Glenarm • Denver, Colorado 80202 • Phone: (303) 573-8027

Contractor <u>Murfin Drilling</u>	Top Choke <u>1/4"</u>	Flow No. 1 <u>15</u> Min.
Rig No. <u>23</u>	Bottom Choke <u>3/4"</u>	Shut-in No. 1 <u>60</u> Min.
Spot <u>--</u>	Size Hole <u>7 7/8"</u>	Flow No. 2 <u>60</u> Min.
Sec. <u>28</u>	Size Rat Hole <u>--</u>	Shut-in No. 2 <u>120</u> Min.
Twp. <u>14S 15S</u>	Size & Wt. D. P. <u>4 1/2" HXO 16.60#</u>	Flow No. 3 <u>--</u> Min.
Rng. <u>42W</u>	Size Wt. Pipe <u>--</u>	Shut-in No. 3 <u>--</u> Min.
Field <u>West Weskan NONE</u>	I. D. of D. C. <u>2 1/4"</u>	Bottom
County <u>Cheyenne</u>	Length of D. C. <u>466 ft.</u>	Hole Temp. <u>90°F</u>
State <u>Colorado</u>	Total Depth <u>5701 ft.</u>	Mud Weight <u>9.3#</u>
Elevation <u>--</u>	Interval Tested <u>4350-4396 ft.</u>	Gravity <u>--</u>
Formation <u>Lansing</u>	Type of Test <u>Inflate</u>	Viscosity <u>56</u>
	<u>Straddle</u>	

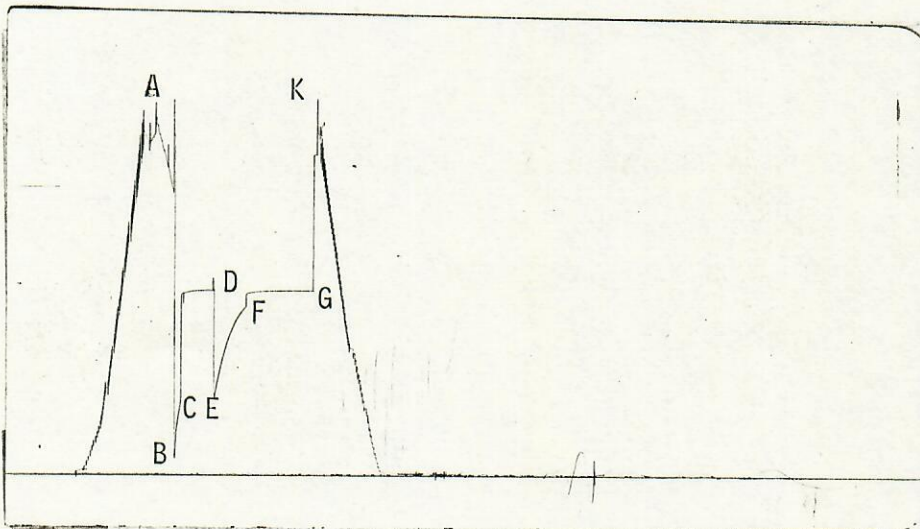
Tool opened @ 3:30 p.m.

Outside Recorder

PRD Make Kuster K-3  
No. 12769 Cap. 3000 @ 4356'

Press	Corrected
Initial Hydrostatic A	2258
Final Hydrostatic K	2223
Initial Flow B	99
Final Initial Flow C	462
Initial Shut-in D	1179
Second Initial Flow E	477
Second Final Flow F	1071
Second Shut-in G	1177
Third Initial Flow H	--
Third Final Flow I	--
Third Shut-in J	--

Lynes Dist.: Oklahoma City OK  
Our Tester: Carson Helton  
Witnessed By: Fred J. Clausen



Did Well Flow — Gas No Oil No Water No

RECOVERY IN PIPE:

2358 ft. Sulphur water = 29.15 Bbls

Blow Description:

1st Flow: Tool opened with a 1" blow, increasing steadily to a 3 psi blow at the end of the flow.

2nd Flow: Tool opened with a 1" blow, increasing steadily to a 6 psi blow at the end of the flow.

Comments: The test results indicate a mechanically successful test. The flow and shut-in curves suggest very high permeability within the zone tested.

BEST IMAGE  
AVAILABLE

Operator Wintershall Oil & Gas Corp.  
Address 5675 DTC Blvd., #200  
Englewood, CO 80111

Well Name and No. Hu11 #28-32

Date

10-18-85

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No. Final Copies 9

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WINTERSHALL OIL & GAS CORP.  
DST#: 4  
HULL #28-32  
4350 - 4396ft.

Page 1

Location: SEC. 28 T15S R42W  
Test Type: INFLATE STRADDLE  
Formation: LANSING

Recorder Number: 12769  
Recorder Depth: 4356 ft.

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE (T+dt)/dt psi	ABSCISSA	PRESSURE SQUARED psi <sup>2</sup> /10 <sup>6</sup>
A	INITIAL HYDROSTATIC	0.00		2258.0		
B	START OF 1st FLOW	0.00		99.0		
C	END OF 1st FLOW	15.00		462.0		
	1st SHUTIN PERIOD	0.00	0.0	462.0	0.0000	
		1.00	553.0	1015.0	16.0000	
		2.00	688.0	1150.0	8.5000	
		3.00	695.0	1157.0	6.0000	
		4.00	697.0	1159.0	4.7500	
		5.00	698.0	1160.0	4.0000	
		6.00	695.0	1157.0	3.5000	
		7.00	698.0	1160.0	3.1429	
		8.00	701.0	1163.0	2.8750	
		9.00	702.0	1164.0	2.6667	
		10.00	705.0	1167.0	2.5000	
		15.00	707.0	1169.0	2.0000	
		20.00	711.0	1173.0	1.7500*	
		25.00	712.0	1174.0	1.6000*	
		30.00	713.0	1175.0	1.5000*	
		35.00	714.0	1176.0	1.4286*	
		40.00	716.0	1178.0	1.3750*	
		45.00	716.0	1178.0	1.3333*	
		50.00	717.0	1179.0	1.3000*	
		55.00	717.0	1179.0	1.2727*	
D	END OF 1st SHUTIN	60.00	717.0	1179.0	1.2500*	
E	START OF 2nd FLOW	0.00		477.0		
F	END OF 2nd FLOW	60.00		1071.0		
	2nd SHUTIN PERIOD	0.00	0.0	1071.0	0.0000	
		1.00	82.0	1153.0	76.0000	
		2.00	86.0	1157.0	38.5000	
		3.00	88.0	1159.0	26.0000	
		4.00	89.0	1160.0	19.7500	
		5.00	91.0	1162.0	16.0000	
		6.00	91.0	1162.0	13.5000	
		7.00	92.0	1163.0	11.7143	
		8.00	92.0	1163.0	10.3750	
		9.00	93.0	1164.0	9.3333	
		10.00	93.0	1164.0	8.5000	

BEST IMAGE  
AVAILABLE



WINTERSHALL OIL & GAS CORP.  
 DST#: 4  
 HULL #28-32  
 4350 - 4396 ft.

Page 2

Location: SEC. 28 T15S R42W  
 Test Type: INFLATE STRADDLE  
 Formation: LANSING

Recorder Number: 12769  
 Recorder Depth: 4356 ft.

TIME-PRESSURE LISTING

CHART LABEL	COMMENTS	TIME MIN.	DELTA P psi	PRESSURE (T+dt)/dt psi	ABSCISSA	PRESSURE SQUARED psi <sup>2</sup> /10 <sup>6</sup>
		15.00	97.0	1168.0	6.0000*	
		20.00	98.0	1169.0	4.7500*	
		25.00	99.0	1170.0	4.0000*	
		30.00	101.0	1172.0	3.5000*	
		35.00	102.0	1173.0	3.1429*	
		40.00	103.0	1174.0	2.8750*	
		45.00	103.0	1174.0	2.6667*	
		50.00	103.0	1174.0	2.5000*	
		55.00	103.0	1174.0	2.3636*	
		60.00	104.0	1175.0	2.2500*	
		65.00	104.0	1175.0	2.1538*	
		70.00	104.0	1175.0	2.0714*	
		75.00	104.0	1175.0	2.0000*	
		80.00	104.0	1175.0	1.9375*	
		85.00	104.0	1175.0	1.8824*	
		90.00	104.0	1175.0	1.8333*	
		95.00	104.0	1175.0	1.7895*	
		100.00	104.0	1175.0	1.7500*	
		105.00	104.0	1175.0	1.7143*	
		110.00	104.0	1175.0	1.6818*	
		115.00	106.0	1177.0	1.6522*	
G	END OF 2nd SHUTIN	120.00	106.0	1177.0	1.6250*	

Q FINAL HYDROSTATIC 0.00 2223.0

\* VALUES USED FOR EXTRAPOLATIONS

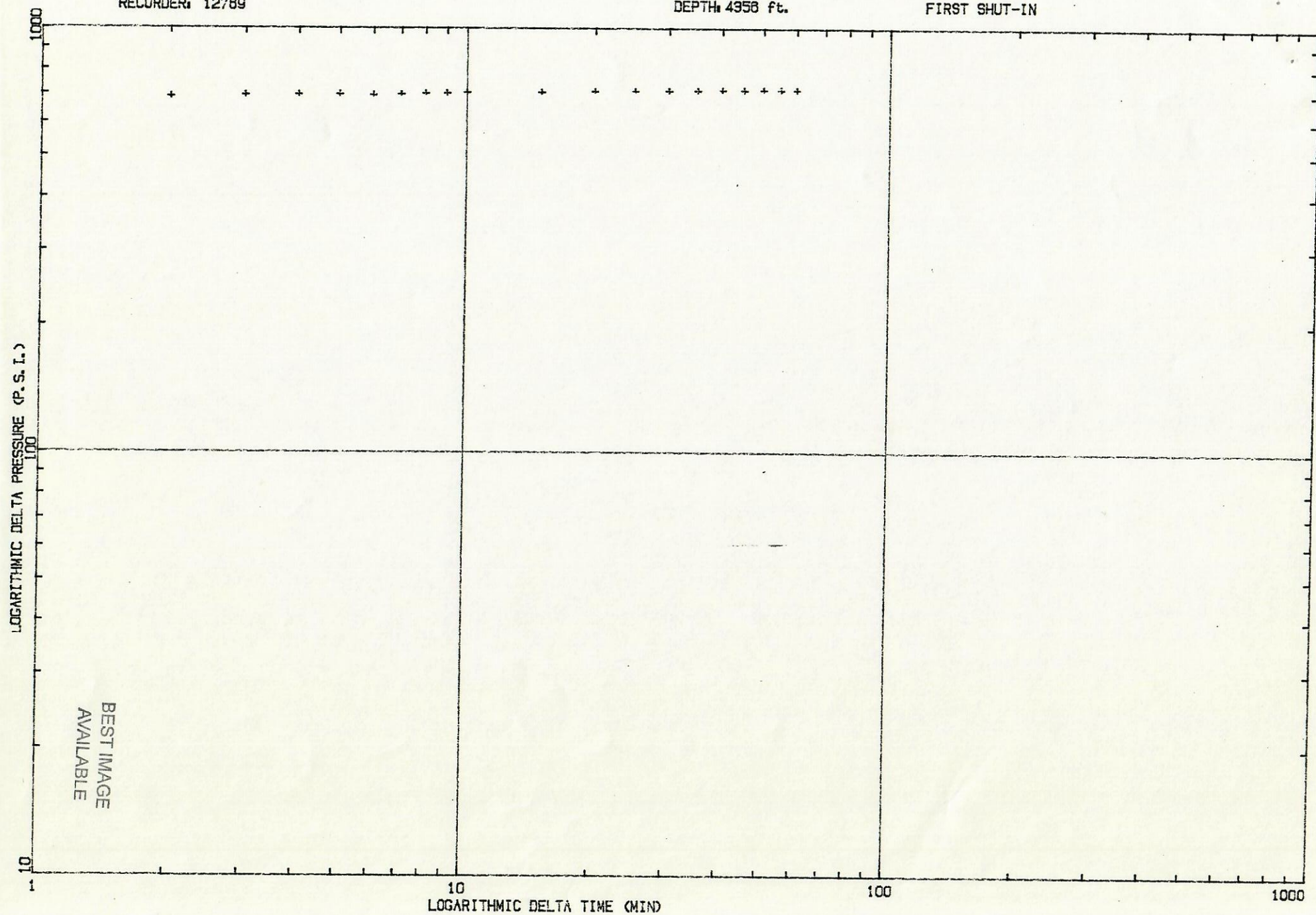
1st SHUT-IN:  
 HORNER EXTRAPOLATION 1184.14 PSI  
 HORNER SLOPE 48.92 psi/cycle

2nd SHUT-IN  
 HORNER EXTRAPOLATION 1179.68 PSI  
 HORNER SLOPE 15.26 psi/cycle

OPERATOR: WINTERSHALL OIL & GAS CORP.  
LOCATION: SEC. 28 T15S R42W  
RECORDER: 12789

WELL NAME: HULL #28-32  
DST #: 4  
DEPTH: 4358 ft.

FIRST SHUT-IN





OPERATOR: WINTERSHALL OIL & GAS CORP.

WELL NAME: HULL #28-32

LOCATION: SEC. 28 T15S R42W

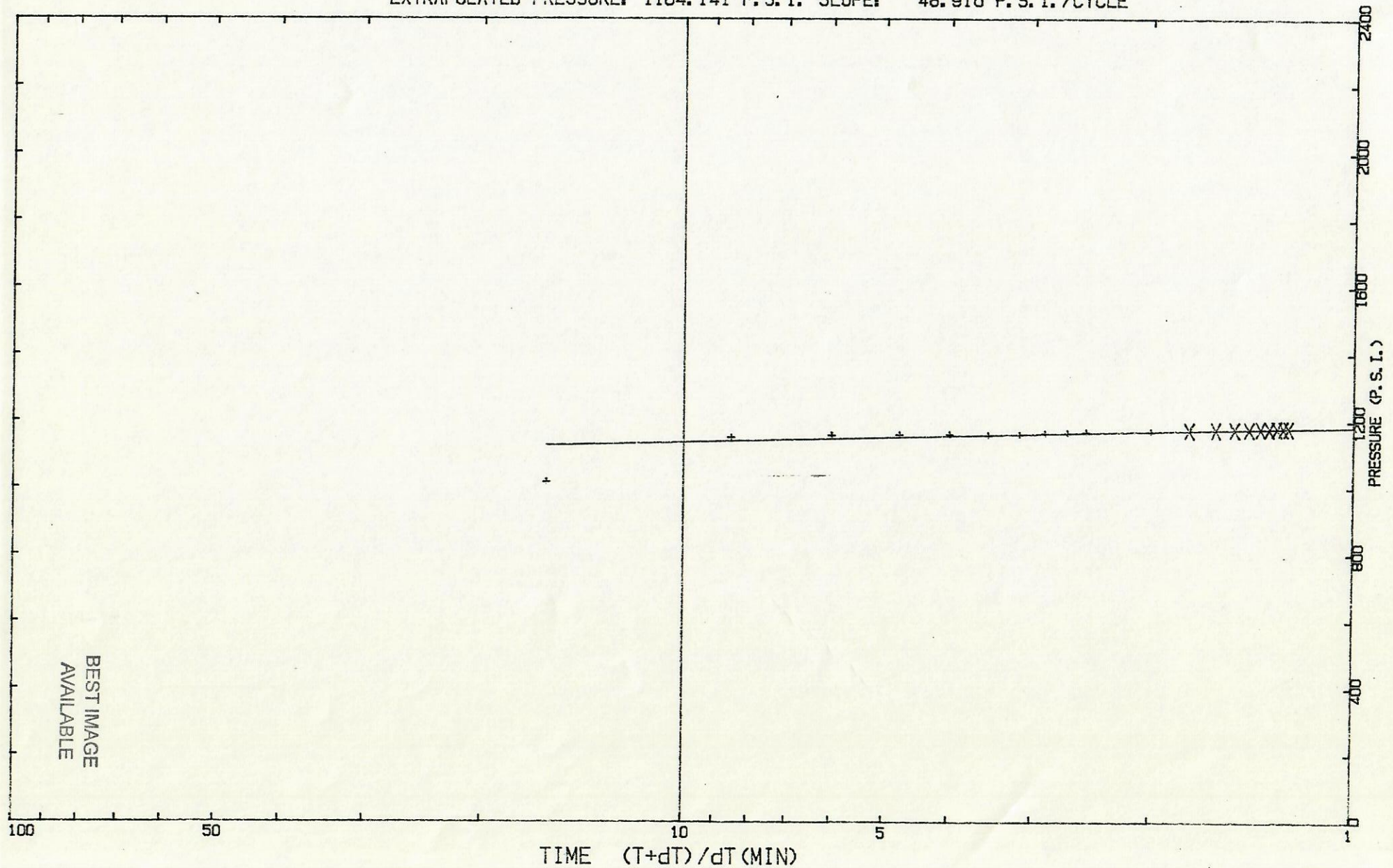
DST #: 4

FIRST SHUT-IN

RECORDER: 12769

DEPTH: 4356 ft.

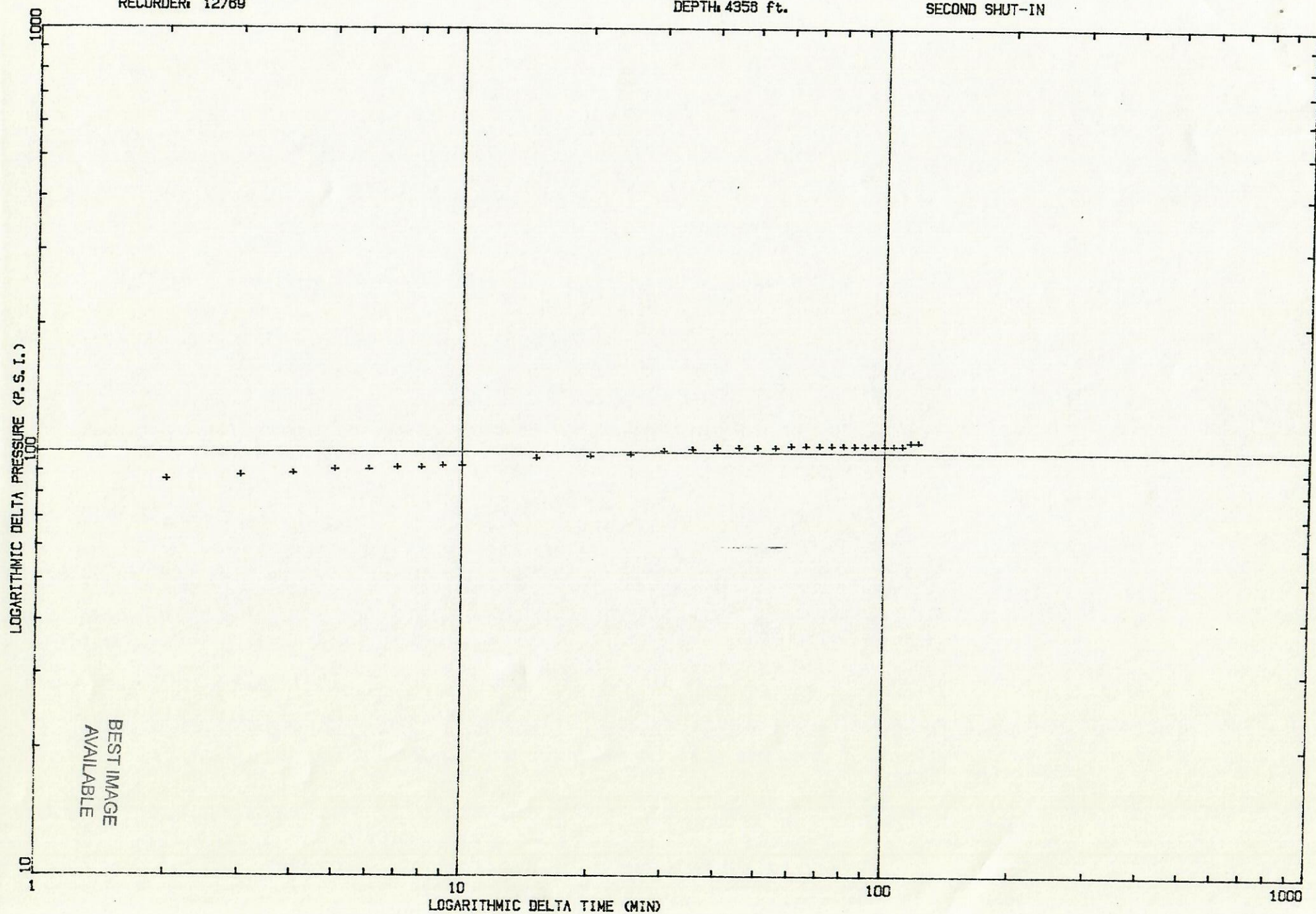
EXTRAPOLATED PRESSURE: 1184.141 P. S. I. SLOPE: 48.916 P. S. I. /CYCLE



OPERATOR: WINTERSHALL OIL & GAS CORP.  
LOCATION: SEC. 28 T15S R42W  
RECORDER: 12789

WELL NAME: HULL #28-32  
DST #: 4  
DEPTH: 4358 ft.

SECOND SHUT-IN





OPERATOR: WINTERSHALL OIL & GAS CORP.

WELL NAME: HULL #28-32

LOCATION: SEC. 28 T15S R42W

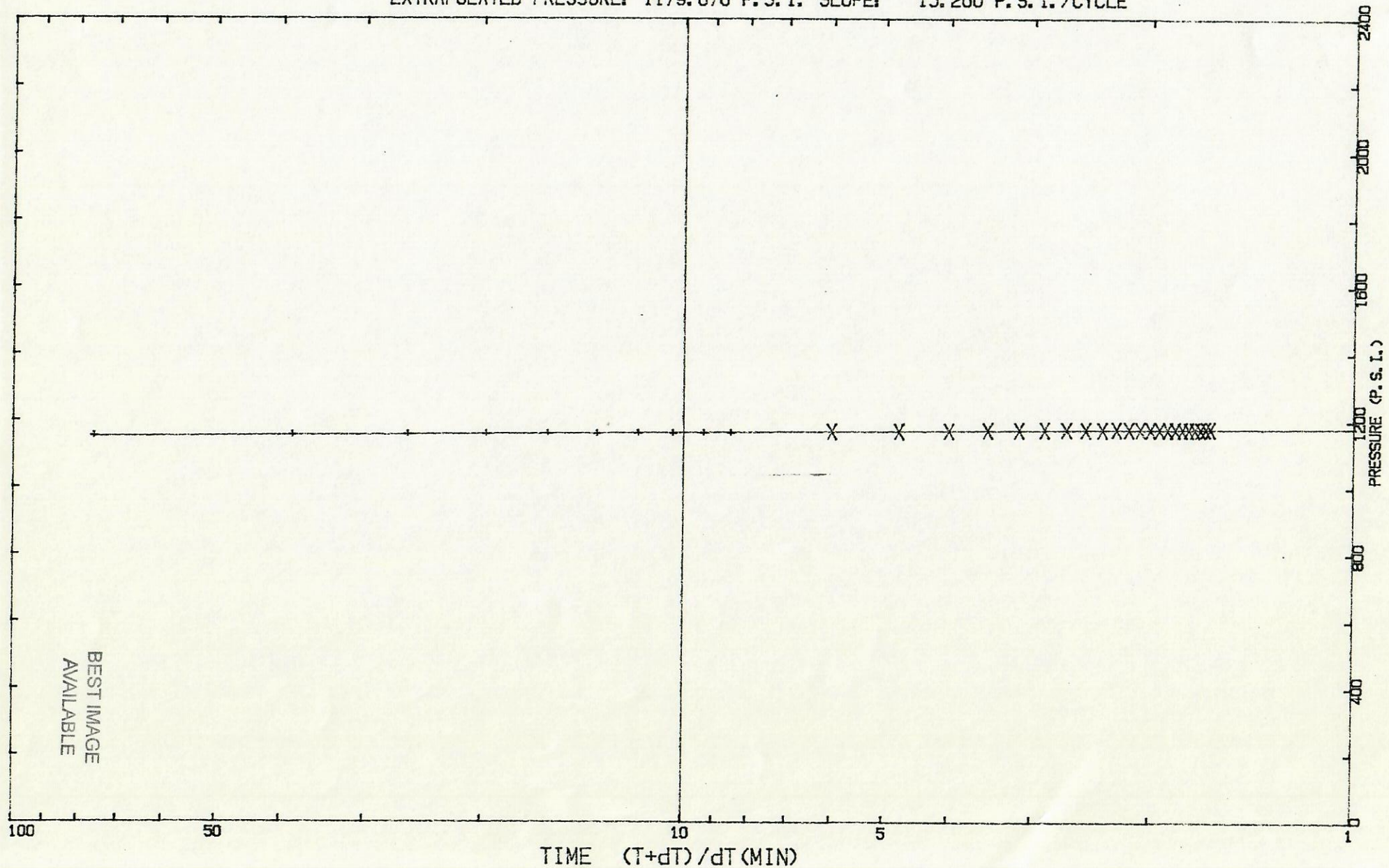
DST #: 4

SECOND SHUT-IN

RECORDER: 12769

DEPTH: 4356 ft.

EXTRAPOLATED PRESSURE: 1179.676 P.S.I. SLOPE: 15.260 P.S.I./CYCLE



WINTERSHALL OIL & GAS CORP.  
DST#: 4  
HULL #28-32  
4350 - 4396ft.

Page 1

Location: SEC. 28 T15S R42W  
Test Type: INFLATE STRADDLE  
Formation: LANSING

Recorder Number: 12769  
Recorder Depth: 4356

SAMPLE DATA  
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SAMPLE CHAMBER:  
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Capacity of sample chamber	2300	cc
Volume of sample.....	2300	cc
Pressure in sampler.....	50	psig
Where sampler was drained...	on location	

Sampler contained:  
Water 2300 cc mud-cut

RESISTIVITY DATA:  
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Top.....	8000 PPM NACL
Middle.....	1400 PPM NACL
Bottom.....	1800 PPM NACL
Sampler.....	1550 PPM NACL
Mud pit.....	7900 PPM NACL
Make-up Water...	FRESH WATER

BEST IMAGE  
AVAILABLE



WINTERSHALL OIL & GAS CORP.  
DST#: 4  
HULL #28-32  
4350 - 4396ft.

Page 1

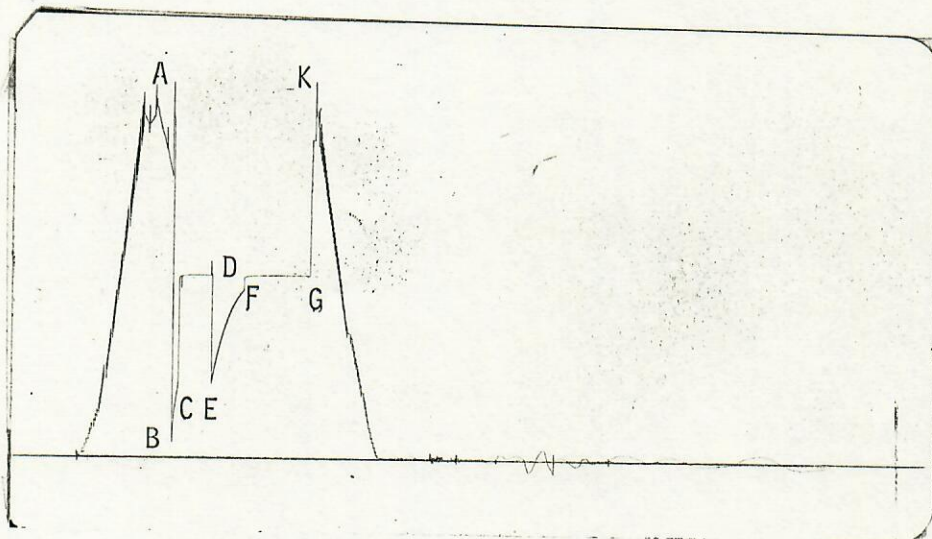
PRESSURE RECORDER NUMBER : 23277

DEPTH : 4356.00ft.  
TYPE : K-3

LOCATION : OUTSIDE  
CAPACITY : 2975.00psi

PRESSURE  
psi

A)Initial Hydro : 2258.0  
B)1st Flow Start: 95.0  
C)1st Flow End : 465.0  
D)END 1st Shutin: 1170.0  
E)2nd Flow Start: 489.0  
F)2nd Flow End : 1076.0  
G)END 2nd Shutin: 1170.0  
Q)Final Hydro. : 2207.0



TEST TIMES(MIN)  
1st FLOW : 15  
SHUTIN: 60  
2nd FLOW : 60  
SHUTIN: 120

BEST IMAGE  
AVAILABLE