

DRILL STEM TEST DATA

BOTTOM HOLE CHOKE	5/8"	SURFACE	adj.	CUSHION	none	LOCATION	3775'	G.L.
TIME TOOL OPENED	10:49 P.M.			RECORDER DATA				
TOOL OPEN BEFORE I.S.I.P.	30	MIN.	TYPE	AK-1	CAPACITY	8475#		
INITIAL SHUT-IN	1 HRS.	0	MIN.	TOP	13832	DEPTH	5108	
TOOL OPEN	2 HRS.	0	MIN.	BOTTOM	13833	DEPTH	5214	
FINAL SHUT-IN	4 HRS.	5	MIN.	CLOCK TOP	18 Hr.	BOTTOM	24 Hr.	
SURFACE ACTION Preflow: Open with a weak blow increasing to 13 1/2" of water at 30 min.								
Final Flow: Open with a weak blow increasing slowly to 3" on water @ 10 min.								
4 1/2" of water @ 20 min.; 6 1/2" of water @ 30 min.; 7" of water								
@ 40 min.; 7 1/2" of water @ 50 min.; Stabilized @ 8" of water								
from 60 - 120 min.								
RECOVERY 430' Total Fluid								
15' Oil cut mud								
180' Slight oil & gas cut mud and sulfur water								
235' formation water (sulfur water)								
Top Chl. Oil & Mud								
Mid Chl. 15,000 PPM Rw. 0.48 @ 60°								
Bot Chl. 35,000 PPM Rw. 0.23 @ 60°								
SUCCESSFUL TEST Yes								

COMPANY Amerind Oil Company
 LEASE NAME & NO. State "16" #1-K 2000/8-12
 INTERVAL TESTED 5125 - 5217 92'
16-17-37

	RECORDER NO.
	13832
A (INITIAL HYDROSTATIC PRESSURE)	2201 P.S.I.
B (INITIAL PRE-FLOW PRESSURE)	78 P.S.I.
C (FINAL PRE-FLOW PRESSURE) 30 MIN.	55 P.S.I.
D (INITIAL SHUT-IN PRESSURE) 60 MIN.	1574 P.S.I.
E (INITIAL FLOW PRESSURE)	148 P.S.I.
F (FINAL FLOW PRESSURE) 120 MIN.	181 P.S.I.
G (FINAL SHUT-IN PRESSURE) 246 MIN.	1494 P.S.I.
H (FINAL HYDROSTATIC PRESSURE)	2180 P.S.I.

HOLE AND MUD DATA

TOTAL DEPTH	5217	MAIN HOLE	7 7/8
DEPTH OF CSG.	4500	CASING SIZE	8 5/8
MUD WT.	8.4	VISCOSITY	28
WATER LOSS	-	CAKE	-
TYPE MUD	Fresh Water		
CHLORIDE	6,000		
RESISTIVITY	1.15	@ 60 °F	

TOOL DATA

NO. PACKERS		2			
SIZE PACKERS		6 3/4			
CONVENTIONAL TEST		yes			
TYPE TOOL	DEPTH	LENGTH	I.D.	O.D.	
4½ XH DP		4460	3.8	4.5	
4½ XH DC		595	2.3	6.0	
Cir Sub	5054	1			
1 DC		31			
Shut-in		6			
Sampler		3			
Hyd Tool		5			
Jars		6			
Recorder		5			
Safety Jt.		2			
Packer	5119	6			
Packer	5125	6			
Perf					
2 DC					
Recorder		92'			
DRLG. CONT.		Moranco	RIG #	7	

SAMPLER REPORT

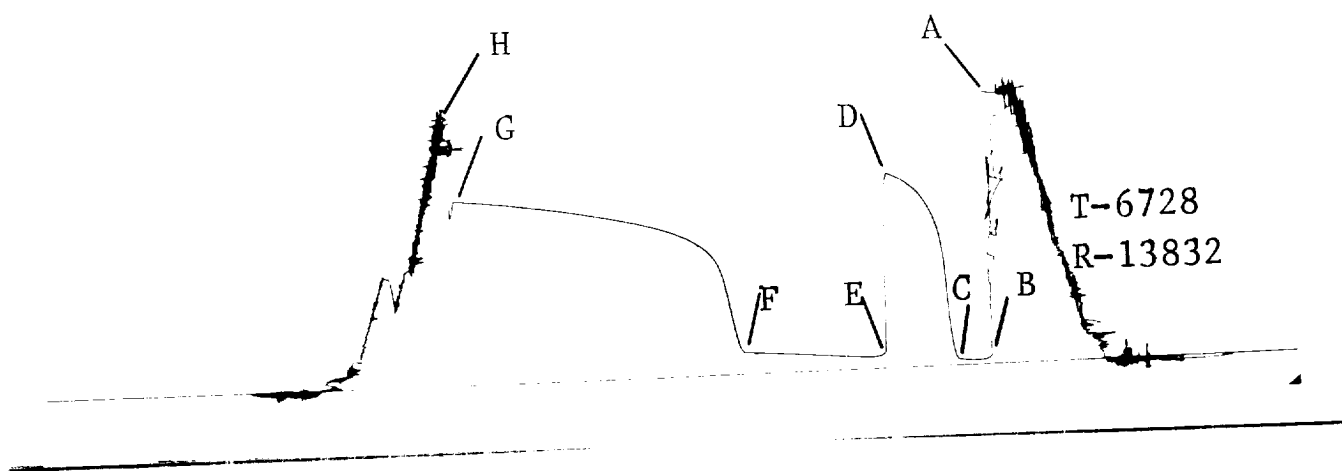
PRESSURE IN SAMPLER	130	PSI
BHT	115 °F @	5107 F.T.
OIL:	0	CC.
WATER:	1600	CC.
MUD:	0	CC.
GAS:	.045	CU.FT.
RESISTIVITY	.23 @	60 °F
CHLORIDE	35,000	PPM.
GRAVITY	•API @	°F
CAPACITY	1800	cc

REMARKS: _____

ESTER Don Terhune
 APPROVED BY: Jim Yeley

COUNTY Lea
 STATE New Mexico
 FORMATION San Andres

DATE October 7, 1988
 TICKET # 6728
 TEST # 1



RECORDER NO. 13832 DEPTH 5108 FT.

INITIAL FLOW

DT (MIN) PRESSURE (PSIG)

0	78.2
5	42.5
10	38.3
15	38.3
20	42.5
25	46.7
30	55.1

RECORDER NO. 13832 DEPTH 5108 FT.

FINAL FLOW

DT (MIN) PRESSURE (PSIG)

0	147.7
5	105.6
10	99.3
20	105.6
30	111.9
40	118.2
50	128.8
60	137.2
70	143.5
80	153.0
90	162.4
100	168.8
110	176.1
120	181.4

I Hyd 2201.0

F Hyd 2180.2

RECORDER NO. 13832 DEPTH 5108 FT.

INITIAL SHUT-IN

INITIAL FLOW TIME: T = 30 MIN.

<u>DT(MIN)</u>	<u>LOG((T+DT)/DT)</u>	<u>PRESSURE(PSIG)</u>	<u>DP(PSIG)</u>
0		55.1	0.0
1	1.491	63.5	8.4
2	1.204	86.7	31.6
4	.929	168.8	113.7
6	.778	276.2	221.1
8	.677	455.3	400.2
10	.602	653.4	598.3
12	.544	874.5	819.4
14	.497	969.2	914.1
16	.459	1078.6	1023.5
18	.426	1137.4	1082.3
20	.398	1187.9	1132.8
25	.342	1297.1	1242.0
30	.301	1370.5	1315.4
35	.269	1431.3	1376.3
40	.243	1473.3	1418.2
45	.222	1506.8	1451.7
50	.204	1532.0	1476.9
55	.189	1557.1	1502.0
60	.176	1573.9	1518.8

EXTRAPOLATED PRESSURE: 1898.0 PSI
SLOPE: 1775.2 PSI/LOG CYCLE
POINTS USED: 11

RECORDER NO. 13832 DEPTH 5108 FT.

FINAL SHUT-IN

TOTAL FLOW TIME: T = 150 MIN.

DT(MIN)	LOG((T+DT)/DT)	PRESSURE(PSIG)	DP(PSIG)
0		181.4	0.0
1	2.179	189.8	8.4
2	1.881	204.6	23.2
4	1.585	242.5	61.1
6	1.415	305.7	124.3
8	1.296	383.6	202.2
10	1.204	459.5	278.1
12	1.130	548.0	366.6
14	1.069	642.8	461.4
16	1.016	720.8	539.4
18	.970	798.7	617.3
20	.929	859.8	678.4
25	.845	950.3	768.9
30	.778	1002.9	821.5
35	.723	1044.9	863.5
40	.677	1076.5	895.1
45	.637	1101.7	920.3
50	.602	1126.9	945.5
55	.571	1147.9	966.5
60	.544	1168.9	987.6
70	.497	1200.5	1019.1
80	.459	1232.0	1050.6
90	.426	1257.2	1075.8
100	.398	1280.3	1098.9
110	.374	1301.3	1119.9
120	.352	1320.1	1138.8
150	.301	1376.8	1195.4
180	.263	1420.9	1239.5
210	.234	1458.6	1277.2
240	.211	1492.1	1310.7
246	.207	1494.2	1312.8

EXTRAPOLATED PRESSURE: 1735.4 PSI
SLOPE: 1176.3 PSI/LOG CYCLE
POINTS USED: 7

2800

HORNER PLOT

AMERIND OIL COMPANY

STATE "16" #1, DST #1

T-6728, REC. 13832

P_{hi} = 1898.0 psi 11 pts.

P_{wf} = 1735.4 psi 7 pts.

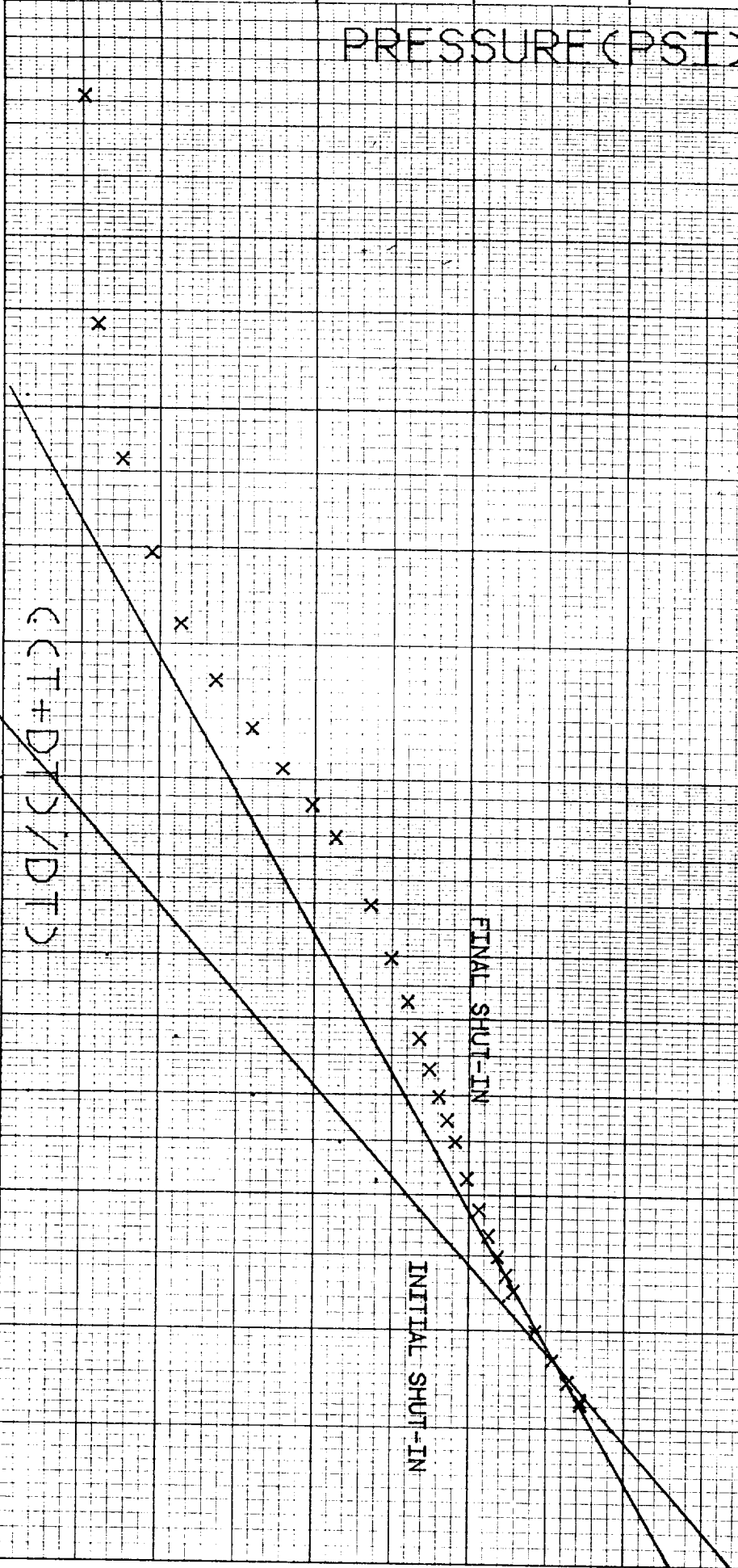
PRESSURE (PSI)

$(C(T+DT)/DT)$

FINAL SHUT-IN

INITIAL SHUT-IN

0 100.0 200 400 600 800 1000 1200 1400 1600 1800 2000 2200 2400 2600 2800



T-6728, REC. 13832

2500.0

DST #1

2000.0

1500.0

1000.0

500.0

0

PRESSURE (PSI)

TIME (MIN)

-500.0
-60:0 0:0 60:0 120:0 180:0 240:0 300:0 360:0 420:0 480:0

