

LEASE NAME **LADSON** WELL NO. **1** TEST NO. **2** 6920.0 - 7075.0
 LEGAL LOCATION SEC. - TWP. - RANG. **24-1S-31E** FIELD AREA **HILDCAT** COUNTY **ROOSEVELT** STATE **NEW MEXICO** DR
 HANSON OPERATING COMPANY, INCORPORATED
 LEASE OWNER/COMPANY NAME

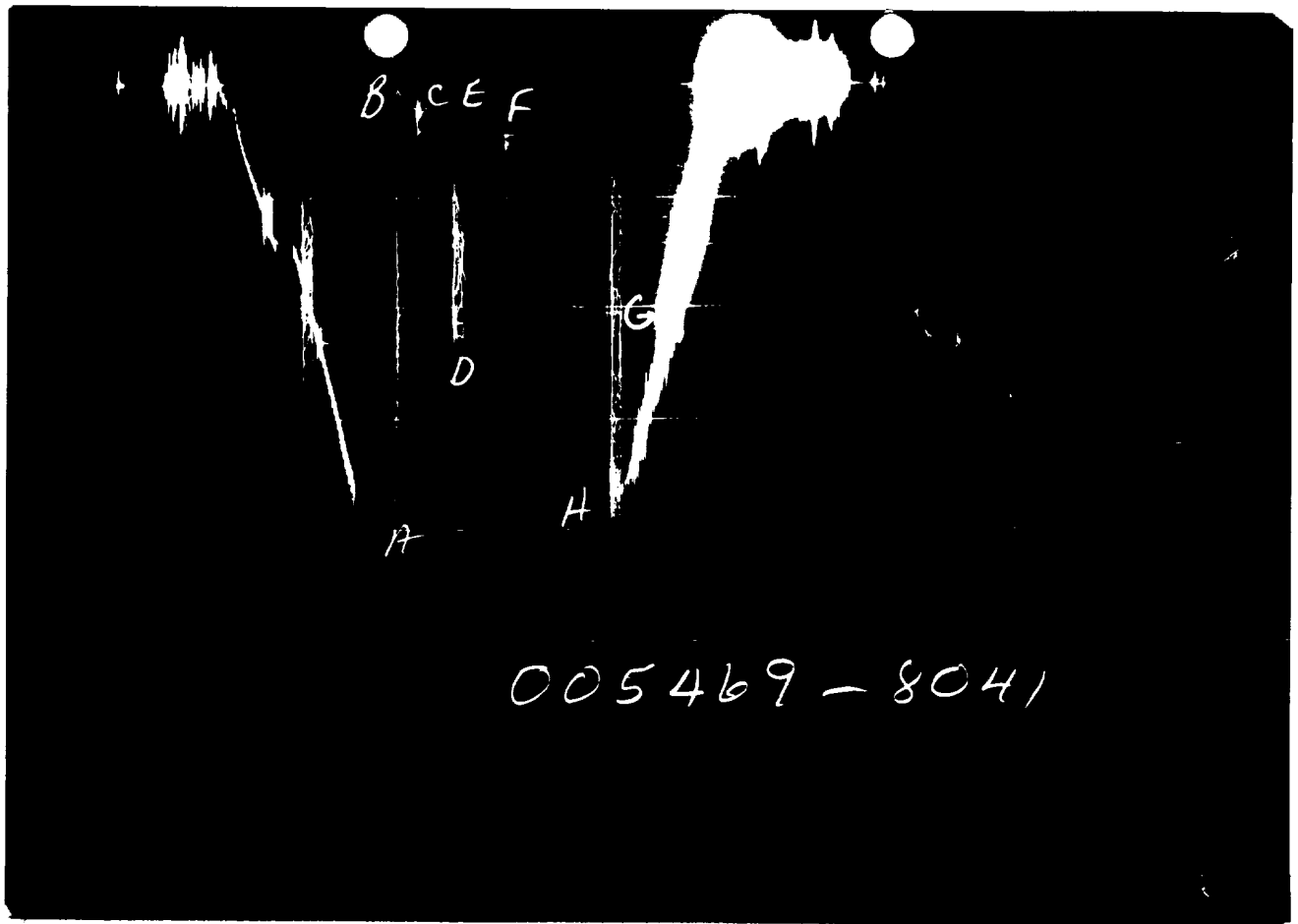
HANSON OPERATING COMPANY, INCORPORATED

LEASE : LADSON

WELL NO. : 1
TEST NO. : 2

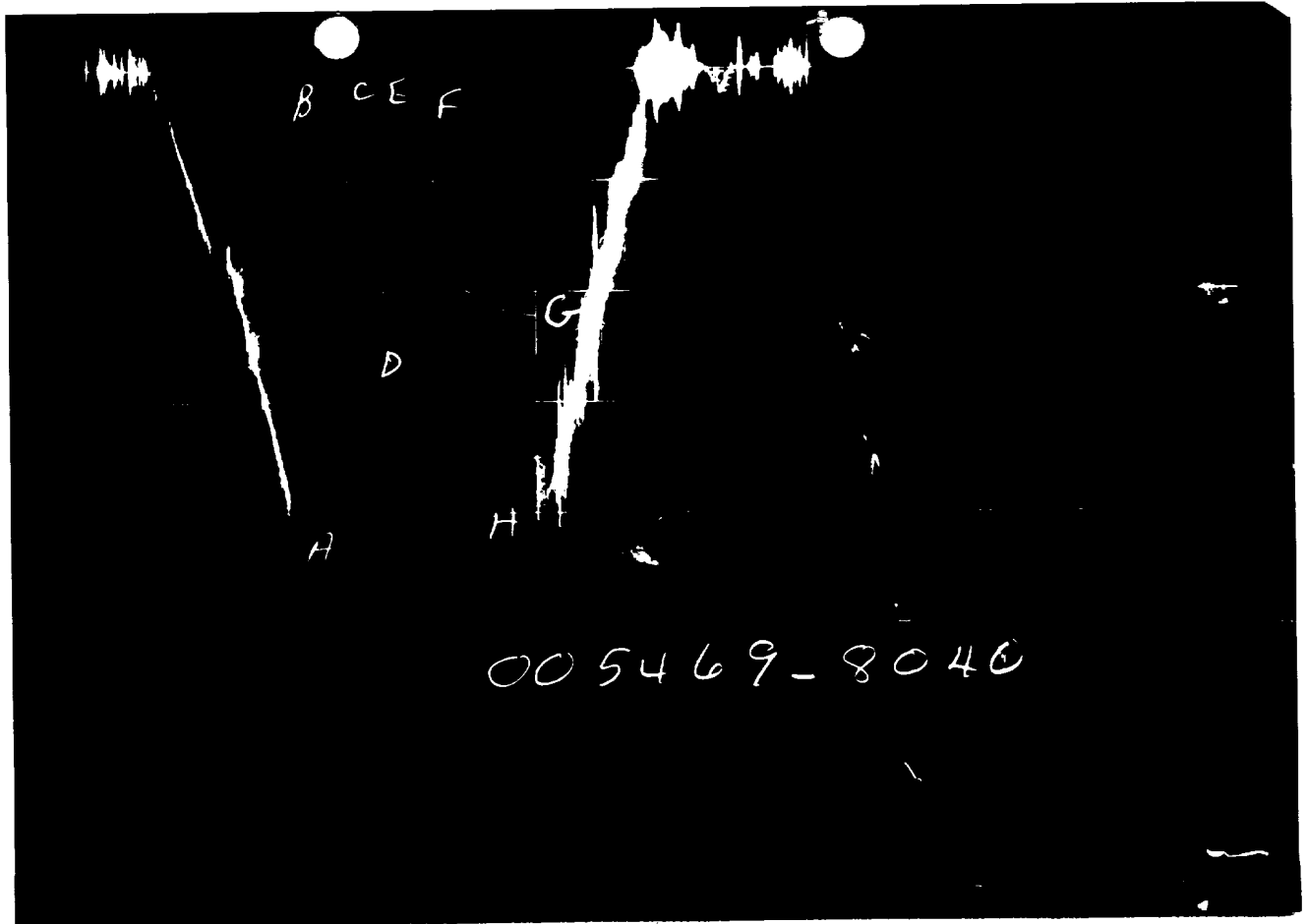
TICKET NO. 00546900
04-MAY-90
HOBBS.

RECEIVED
 MAY 20 1990
 HOBBS, NEW MEXICO



GAUGE NO: 8041 DEPTH: 6902.0 BLANKED OFF: NO HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3752	3684.4			
B	INITIAL FIRST FLOW	46	41.6			
C	FINAL FIRST FLOW	227	231.1	25.0	24.3	F
C	INITIAL FIRST CLOSED-IN	227	231.1			
D	FINAL FIRST CLOSED-IN	2153	2165.9	41.0	42.2	C
E	INITIAL SECOND FLOW	227	251.7			
F	FINAL SECOND FLOW	455	443.4	60.0	58.6	F
F	INITIAL SECOND CLOSED-IN	455	443.4			
G	FINAL SECOND CLOSED-IN	2063	2085.1	120.0	120.8	C
H	FINAL HYDROSTATIC	3752	3787.6			



GAUGE NO: 8040 DEPTH: 7072.0 BLANKED OFF: YES HOUR OF CLOCK: 24

ID	DESCRIPTION	PRESSURE		TIME		TYPE
		REPORTED	CALCULATED	REPORTED	CALCULATED	
A	INITIAL HYDROSTATIC	3862	3769.0			
B	INITIAL FIRST FLOW	137	154.0			
C	FINAL FIRST FLOW	320	322.9	25.0	24.3	F
C	INITIAL FIRST CLOSED-IN	320	322.9			
D	FINAL FIRST CLOSED-IN	2322	2348.8	41.0	42.2	C
E	INITIAL SECOND FLOW	320	359.4			
F	FINAL SECOND FLOW	826	539.5	60.0	58.6	F
F	INITIAL SECOND CLOSED-IN	826	539.5			
G	FINAL SECOND CLOSED-IN	2254	2240.1	120.0	120.8	C
H	FINAL HYDROSTATIC	3862	3871.0			

EQUIPMENT & HOLE DATA

FORMATION TESTED: GRANITE WASH
 NET PAY (ft): 12.0
 GROSS TESTED FOOTAGE: 155.0
 ALL DEPTHS MEASURED FROM: KELLY BUSHING
 CASING PERFS. (ft): _____
 HOLE OR CASING SIZE (in): 7.875
 ELEVATION (ft): 4246.0
 TOTAL DEPTH (ft): 7075.0
 PACKER DEPTH(S) (ft): 6915, 6920
 FINAL SURFACE CHOKE (in): _____
 BOTTOM HOLE CHOKE (in): 0.750
 MUD WEIGHT (lb/gal): 10.10
 MUD VISCOSITY (sec): 46
 ESTIMATED HOLE TEMP. (°F): _____
 ACTUAL HOLE TEMP. (°F): 130 @ 7071.0 ft

TICKET NUMBER: 00546900
 DATE: 4-30-90 TEST NO: 2
 TYPE DST: OPEN HOLE
 FIELD CAMP: HOBBS.
 TESTER: STEVE LUSCOMBE
 WITNESS: DAVID SWEENEY
 DRILLING CONTRACTOR: W.E.K. DRILLING #3

FLUID PROPERTIES FOR RECOVERED MUD & WATER

SOURCE	RESISTIVITY	CHLORIDES
<u>MUD PIT</u>	<u>0.052 @ 80 °F</u>	<u>138500 ppm</u>
<u>TOP OF RECOVERY</u>	<u>0.052 @ 74 °F</u>	<u>132700 ppm</u>
<u>TOOL TOP</u>	<u>0.058 @ 60 °F</u>	<u>110500 ppm</u>
<u>SAMPLER</u>	<u>0.057 @ 60 °F</u>	<u>112500 ppm</u>
_____	_____ @ _____ °F	_____ ppm
_____	_____ @ _____ °F	_____ ppm

SAMPLER DATA

P_{sig} AT SURFACE: 145.0
 cu.ft. OF GAS: 0.043
 cc OF OIL: _____
 cc OF WATER: _____
 cc OF MUD: 2300.0
 TOTAL LIQUID cc: 2300.0

HYDROCARBON PROPERTIES

OIL GRAVITY (°API): _____ @ _____ °F
 GAS/OIL RATIO (cu.ft. per bbl): _____
 GAS GRAVITY: _____

CUSHION DATA

TYPE _____ AMOUNT _____ WEIGHT _____

RECOVERED :

APPROXIMATELY 990' OF DRILLING FLUID

MEASURED FROM TESTER VALVE

REMARKS :

-----TIGHT HOLE-----

TYPE & SIZE MEASURING DEVICE : _____ TICKET NO: 00546900

TIME	CHOKE SIZE	SURFACE PRESSURE PSI	GAS RATE MCF	LIQUID RATE BPD	REMARKS
4-29-90					
1400					ON LOCATION
4-30-90					
0100					PICKED UP TOOLS
0130					MADE UP TOOLS
0300					STARTED IN HOLE
0658					ON BOTTOM
0700	BH				OPENED TOOL WITH A WEAK 1" BLOW IN BUCKET
0705	BH	1 OZ.			
0710		1.25 OZ.			
0715		1.5 OZ.			
0720		1.5 OZ.			
0725		1.25 OZ.			CLOSED TOOL
0806	BH				OPENED TOOL WITH A WEAK 1" BLOW IN BUCKET
0811		.5 OZ.			
0816		.75 OZ.			
0821		.75 OZ.			
0826		.5 OZ.			
0831		.5 OZ.			
0836		.5 OZ.			
0846		.5 OZ.			
0856		.5 OZ.			
0906		.5 OZ.			CLOSED TOOL
1106					OPENED BYPASS
1110					PULLED OUT OF HOLE

REMARKS :

TICKET NO: 00546900
 CLOCK NO: 5937 HOUR: 24

GAUGE NO: 8041
 DEPTH: 6902.0

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B 1	0.0	41.6			
2	4.0	84.1	42.5		
3	8.0	123.4	39.3		
4	12.0	160.2	36.8		
5	16.0	179.8	19.5		
6	20.0	206.8	27.0		
7	24.0	231.6	24.8		
C 8	24.3	231.1	-0.5		
FIRST CLOSED-IN					
C 1	0.0	231.1			
2	1.0	1363.3	1132.1	0.9	1.420
3	2.0	1546.3	1315.2	1.9	1.116
4	3.0	1695.0	1463.8	2.7	0.959
5	4.0	1762.6	1531.5	3.4	0.853
6	5.0	1808.4	1577.2	4.1	0.769
7	6.0	1847.0	1615.9	4.8	0.705
8	7.0	1875.6	1644.4	5.4	0.652
9	8.0	1895.7	1664.6	6.0	0.605
10	9.0	1904.5	1673.4	6.6	0.568
11	10.0	1916.1	1684.9	7.1	0.537
12	12.0	1932.6	1701.4	8.0	0.482
13	14.0	1966.1	1734.9	8.9	0.438
14	16.0	1995.0	1763.9	9.7	0.402
15	18.0	2019.6	1788.4	10.4	0.371
16	20.0	2038.9	1807.7	11.0	0.346
17	22.0	2059.3	1828.2	11.6	0.323
18	24.1	2069.9	1838.8	12.1	0.303
19	26.0	2084.3	1853.1	12.6	0.287
20	28.0	2099.8	1868.7	13.0	0.271
21	30.0	2119.3	1888.2	13.4	0.258
22	35.0	2145.9	1914.7	14.4	0.229
23	40.0	2162.0	1930.9	15.1	0.206
D 24	42.2	2165.9	1934.7	15.4	0.198
SECOND FLOW					
E 1	0.0	251.7			
2	10.0	298.6	46.9		
3	20.0	348.1	49.6		
4	30.0	367.5	19.3		
5	40.0	400.0	32.5		
6	50.0	427.3	27.3		
F 7	58.6	443.4	16.1		
SECOND CLOSED-IN					
F 1	0.0	443.4			

REF	MINUTES	PRESSURE	ΔP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
2	1.0	1133.6	690.2	1.0	1.930
3	2.0	1362.3	918.8	2.0	1.622
4	3.0	1473.0	1029.6	2.9	1.451
5	4.0	1516.3	1072.8	3.8	1.340
6	5.0	1558.1	1114.7	4.7	1.249
7	6.0	1588.9	1145.5	5.6	1.171
8	7.0	1614.5	1171.1	6.5	1.108
9	8.0	1634.0	1190.6	7.3	1.057
10	9.0	1652.1	1208.7	8.2	1.007
11	10.0	1663.4	1220.0	8.9	0.969
12	12.0	1681.3	1237.9	10.5	0.897
13	14.0	1697.6	1254.2	12.0	0.839
14	16.0	1712.6	1269.1	13.4	0.792
15	18.0	1726.8	1283.4	14.8	0.749
16	20.0	1742.0	1298.6	16.1	0.711
17	22.0	1756.3	1312.8	17.4	0.679
18	24.0	1766.5	1323.0	18.6	0.649
19	26.0	1777.3	1333.9	19.8	0.622
20	28.0	1792.0	1348.6	21.0	0.597
21	30.0	1805.9	1362.4	22.0	0.576
22	35.0	1835.3	1391.8	24.6	0.528
23	40.1	1856.8	1413.4	27.0	0.487
24	45.0	1879.4	1436.0	29.2	0.454
25	50.0	1905.7	1462.3	31.2	0.425
26	55.0	1930.8	1487.4	33.1	0.399
27	60.0	1949.6	1506.2	34.8	0.377
28	70.0	1988.3	1544.9	38.0	0.340
29	80.0	2015.2	1571.7	40.7	0.309
30	90.0	2041.3	1597.8	43.2	0.284
31	100.0	2067.4	1623.9	45.3	0.262
32	110.0	2072.8	1629.3	47.3	0.244
G 33	120.8	2085.1	1641.7	49.2	0.227

REMARKS:




















TICKET NO: 00546900
 CLOCK NO: 4099 HOUR: 24

GAUGE NO: 8040
 DEPTH: 7072.0

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
FIRST FLOW					
B	1	0.0	154.0		
	2	4.0	176.9	22.9	
	3	8.0	218.1	41.2	
	4	12.0	252.0	33.9	
	5	16.0	275.8	23.8	
	6	20.0	297.3	21.5	
	7	24.0	322.3	25.0	
C	8	24.3	322.9	0.7	
FIRST CLOSED-IN					
C	1	0.0	322.9		
	2	1.0	480.0	157.1	0.9 1.415
	3	2.0	1168.8	845.8	1.9 1.112
	4	3.0	1496.4	1173.5	2.7 0.962
	5	4.0	1650.9	1328.0	3.5 0.846
	6	5.0	1812.9	1490.0	4.1 0.769
	7	6.0	1901.0	1578.0	4.8 0.703
	8	7.0	1950.9	1627.9	5.4 0.651
	9	8.0	1993.5	1670.6	6.0 0.607
	10	9.0	2021.9	1698.9	6.6 0.568
	11	10.0	2044.4	1721.4	7.1 0.536
	12	12.0	2077.9	1755.0	8.0 0.481
	13	14.0	2098.3	1775.4	8.9 0.437
	14	16.0	2133.1	1810.1	9.7 0.401
	15	18.0	2163.9	1841.0	10.4 0.371
	16	20.0	2190.7	1867.8	11.0 0.346
	17	22.0	2214.7	1891.8	11.6 0.323
	18	24.0	2228.6	1905.6	12.1 0.304
	19	25.0	2242.4	1919.5	12.6 0.287
	20	28.0	2259.4	1936.5	13.0 0.271
	21	30.0	2274.9	1951.9	13.4 0.258
	22	35.0	2320.2	1997.3	14.4 0.229
	23	40.0	2343.2	2020.2	15.1 0.206
D	24	42.2	2348.8	2025.9	15.4 0.198
SECOND FLOW					
E	1	0.0	359.4		
	2	10.0	407.8	48.3	
	3	20.0	446.7	39.0	
	4	30.0	473.8	27.0	
	5	40.0	497.8	24.1	
	6	50.0	519.8	22.0	
F	7	58.6	539.5	19.7	
SECOND CLOSED-IN					
F	1	0.0	539.5		

REF	MINUTES	PRESSURE	AP	$\frac{t \times \Delta t}{t + \Delta t}$	$\log \frac{t + \Delta t}{\Delta t}$
SECOND CLOSED-IN - CONTINUED					
	2	1.0	895.6	356.1	1.0 1.923
	3	2.0	1159.5	619.9	1.9 1.633
	4	3.0	1367.9	828.4	2.9 1.460
	5	4.0	1547.5	1008.0	3.8 1.336
	6	5.0	1604.1	1064.5	4.8 1.242
	7	6.0	1649.3	1109.7	5.6 1.172
	8	7.0	1700.1	1160.6	6.5 1.106
	9	8.0	1729.4	1189.9	7.3 1.056
	10	9.0	1753.9	1214.4	8.1 1.011
	11	10.0	1776.4	1236.9	8.9 0.969
	12	12.0	1807.1	1267.5	10.5 0.899
	13	14.0	1829.8	1290.2	12.0 0.840
	14	16.0	1845.7	1306.1	13.4 0.792
	15	18.0	1865.0	1325.4	14.8 0.748
	16	20.0	1878.6	1339.1	16.1 0.712
	17	22.0	1891.3	1351.8	17.4 0.678
	18	24.0	1904.5	1364.9	18.6 0.648
	19	25.0	1917.0	1377.4	19.8 0.622
	20	28.0	1930.1	1390.6	20.9 0.598
	21	30.0	1943.3	1403.8	22.0 0.576
	22	35.0	1972.6	1433.1	24.6 0.528
	23	40.0	2001.7	1462.1	27.0 0.488
	24	45.0	2027.1	1487.6	29.2 0.454
	25	50.0	2058.0	1518.4	31.2 0.425
	26	55.0	2081.6	1542.1	33.1 0.399
	27	60.0	2103.4	1563.9	34.8 0.377
	28	70.0	2143.3	1603.8	38.0 0.339
	29	80.0	2179.4	1639.9	40.7 0.309
	30	90.0	2203.5	1664.0	43.2 0.284
	31	100.0	2221.7	1682.2	45.3 0.262
	32	110.0	2230.3	1690.8	47.3 0.244
G	33	120.8	2240.1	1700.5	49.2 0.227

REMARKS:

		O.D.	I.D.	LENGTH	DEPTH	
1		DRILL PIPE.....	4.000	3.340	6259.0	
3		DRILL COLLARS.....	6.000	2.500	531.0	
50		IMPACT REVERSING SUB.....	6.000	2.750	1.0	6790.5
3		DRILL COLLARS.....	6.000	2.500	90.0	
5		CROSSOVER.....	5.875	2.250	1.0	
62		MULTIPLE CIP SAMPLER.....	5.000	0.750	9.0	6890.0
14		EXTENSION JOINT.....	5.000	0.870	5.0	
14		EXTENSION JOINT.....	5.000	0.870	5.0	
80		AP RUNNING CASE.....	5.000	2.250	4.0	6902.0
15		JAR.....	5.000	1.750	5.0	
16		VR SAFETY JOINT.....	5.000	1.000	3.0	
70		OPEN HOLE PACKER.....	7.000	1.530	5.0	6915.0
70		OPEN HOLE PACKER.....	7.000	1.530	5.0	6920.0
19		ANCHOR PIPE SAFETY JOINT.....	5.750	1.500	4.0	
5		CROSSOVER.....	6.000	2.750	1.0	
3		DRILL COLLARS.....	6.000	2.500	120.0	
5		CROSSOVER.....	6.125	3.000	1.0	
20		FLUSH JOINT ANCHOR.....	5.750	3.000	22.0	
81		BLANKED-OFF RUNNING CASE.....	5.750		4.0	7072.0
TOTAL DEPTH					7075.0	

EQUIPMENT DATA