

WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 3/29/83
CUSTOMER: WHITE & ELLIS DRILLING
WELL: 1 TEST: 1
ELEVATION (KB): 1886
SECTION: 25
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

TICKET #18224
LEASE: COMBS
GEOLOGIST: ?

FORMATION:
TOWNSHIP: 29S

INTERVAL TEST FROM: 2072 FT TO: 2185 FT TOTAL DEPTH: 2185 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2067 FT SIZE: 6 5/8 IN PACKER DEPTH: 2072 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR:

MUD TYPE: PREMIX VISCOSITY: 29
WEIGHT: 9.6 WATER LOSS (CC):
CHLORIDES (P.P.M.): 110000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 244 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 1807 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 23+90DC FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD 3" BUILDING TO GOOD.
10" DEPLETING TO 2".
FINAL FLOW PERIOD 1" BLOW THROUGHOUT.

RECOVERED: 60 FT OF: PREMIX MUD.
RECOVERED: 140 FT OF: WATERY PREMIX MUD. 85% MUD; 15% WATER.
RECOVERED: 60 FT OF: VERY SLIGHTLY GASSY MUDDY WATER.
RECOVERED: FT OF: 8% MUD; 92% WATER. CHLORIDES 25000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

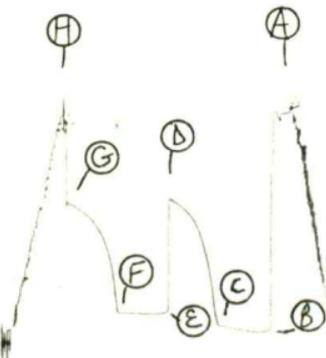
REMARKS:

TIME SET PACKER(S): 1:45 AM TIME STARTED OFF BOTTOM: 3:45 AM
WELL TEMPERATURE: 85 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1008 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 62 PSI TO (C) 91 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 645 PSI
FINAL FLOW PERIOD MIN: 30 (E) 145 PSI TO (F) 145 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 624 PSI
FINAL HYDROSTATIC PRESSURE (H) 997 PSI

TKT # 18224

1566

I



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 3/30/83 TICKET #18225
CUSTOMER: WHITE & ELLIS DRILLING LEASE: COMBS
WELL: 1 TEST: 2 GEOLOGIST: ?
ELEVATION (KB): 1886 FORMATION: INDIAN CAVE
SECTION: 25 TOWNSHIP: 29S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 2790 FT TO: 2850 FT TOTAL DEPTH: 2850 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 2785 FT SIZE: 6 5/8 IN PACKER DEPTH: 2790 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR:

MUD TYPE: PREMIX VISCOSITY: 33
WEIGHT: 9.2 WATER LOSS (CC):
CHLORIDES (P.P.M.): 30000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 335 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 2434 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 28+32DC FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD WEAK 1" DEPLETING TO 1/4".
FINAL FLOW PERIOD WEAK 1/4".

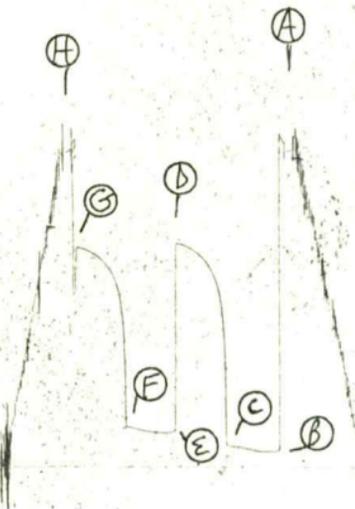
RECOVERED: 305 FT OF: WATERY MUD. CHLORIDES 40000 PPM.
RECOVERED: FT OF: 40% WATER; 60% MUD; WITH VERY FEW OIL SPOTS.
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 1:30 PM TIME STARTED OFF BOTTOM: 3:30 PM
WELL TEMPERATURE: 98 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1356 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 70 PSI TO (C) 98 PSI
INITIAL CLOSED IN PERIOD MIN: 30 (D) 966 PSI
FINAL FLOW PERIOD MIN: 30 (E) 147 PSI TO (F) 170 PSI
FINAL CLOSED IN PERIOD MIN: 30 (G) 950 PSI
FINAL HYDROSTATIC PRESSURE (H) 1356 PSI

TKT # 18225

I.



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/2/83 TICKET #18751
CUSTOMER: WHITE & ELLIS DRILLING LEASE: COMBS
WELL: 1 TEST: 3 GEOLOGIST: DIXON
ELEVATION (KB): 1886 FORMATION: LANSING
SECTION: 25 TOWNSHIP: 29S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 3908 FT TO: 3943 FT TOTAL DEPTH: 3943 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 3903 FT SIZE: 6 5/8 IN PACKER DEPTH: 3908 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS DRLG
MUD TYPE: CHEMICAL VISCOSITY: 50
WEIGHT: 9.3 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 13000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 335 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3552 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 35 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 IN

BLOW: STRONG BLOW THROUGHOUT BOTH FLOW PERIODS.

RECOVERED: 1750 FT OF: GAS IN PIPE.
RECOVERED: 40 FT OF: GASSY DRILLING MUD WITH SLIGHT OIL STAIN.
RECOVERED: 120 FT OF: 50% GAS; 15% OIL; 8% MUD; 27% WATER
RECOVERED: 120 FT OF: 30% GAS; 28% OIL; 8% MUD; 34% WATER.
RECOVERED: 120 FT OF: 15% GAS; 40% OIL; 12% MUD; 33% WATER.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: CHLORIDES 62000 PPM.

TIME SET PACKER(S): 1:30 AM TIME STARTED OFF BOTTOM: 4:30 AM
WELL TEMPERATURE: 138 °F
INITIAL HYDROSTATIC PRESSURE: (A) 1919 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 57 PSI TO (C) 89 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 1271 PSI
FINAL FLOW PERIOD MIN: 60 (E) 143 PSI TO (F) 143 PSI
FINAL CLOSED IN PERIOD MIN: 45 (G) 1160 PSI
FINAL HYDROSTATIC PRESSURE (H) 1919 PSI

1566

TKT # 18751

I.



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/3/83
CUSTOMER: WHITE & ELLIS
WELL: 1
ELEVATION (KB): 1891
SECTION: 25
RANGE: 13W
GAUGE SN #1566

TEST: 4
FORMATION: KANSAS CITY
TOWNSHIP: 29S
COUNTY: PRATT
RANGE: 4300

TICKET #18752
LEASE: COMBS
GEOLOGIST: MIKE DIXON
STATE: KANSAS
CLOCK: 12

INTERVAL TEST FROM: 4242 FT TO: 4266 FT TOTAL DEPTH: 4266 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4237 FT SIZE: 6 5/8 IN PAKER DEPTH: 4242 FT SIZE: 6 5/8 IN
PACKER DEPTH: FT SIZE: IN PAKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS
MUD TYPE: CHEMICAL VISCOSITY: 46
WEIGHT: 9.2 WATER LOSS (CC): 13.2
CHLORIDES (P.P.M.): 20000
JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 335 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 3886 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 24 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD STRONG BLOW.
FINAL FLOW PERIOD STRONG SLIGHTLY
DEPLETING TO GOOD.

RECOVERED: 3200 FT OF: GAS IN PIPE.
RECOVERED: 30 FT OF: GASSY OIL CUT DRILLING MUD.
RECOVERED: FT OF: 5% OIL; 95% MUD.
RECOVERED: 60 FT OF: GASSY OIL & WATER CUT MUD.
RECOVERED: FT OF: 10% OIL; 10% WATER; 80% MUD.
RECOVERED: 60 FT OF: 15% OIL; 55% MUD; 30% WATER.
RECOVERED: 60 FT OF: 20% GAS; 30% OIL; 40% WATER; 10% DRILLING MUD.
RECOVERED: FT OF: CHLORIDES 52000 PPM.
RECOVERED: FT OF:

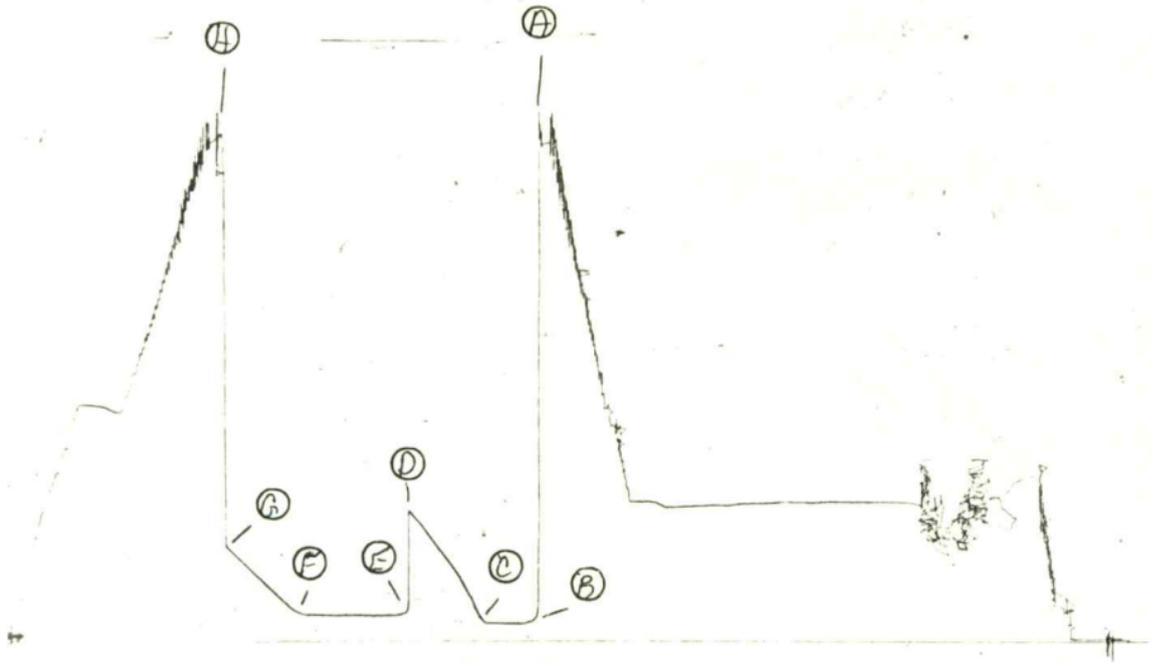
REMARKS:

TIME SET PACKER(S): 9:00 PM TIME STARTED OFF BOTTOM: 12:00 AM
WELL TEMPERATURE: 130 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2148 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 85 PSI TO (C) 88 PSI
INITIAL CLOSED IN PERIOD MIN: 45 (D) 575 PSI
FINAL FLOW PERIOD MIN: 60 (E) 120 PSI TO (F) 120 PSI
FINAL CLOSED IN PERIOD MIN: 45 (G) 417 PSI
FINAL HYDROSTATIC PRESSURE (H) 2148 PSI

TKT 18-152

1560

I



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/5/83
 CUSTOMER: WHITE & ELLIS *Young Oil Company*
 WELL: 1 TEST: 5 1
 ELEVATION (KB): 1891 *1537* FORMATION: VIOLA *K.C.*
 SECTION: 25 *14* TOWNSHIP: 29S
 RANGE: 13W *18W* COUNTY: PRATT *Kiowa* STATE: KANSAS
 GAUGE SN #1566 RANGE: 4300 CLOCK: 12
 1000 4500

INTERVAL TEST FROM: 4461 FT TO: 4470 FT TOTAL DEPTH: 4470 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4456 FT SIZE: 6 5/8 IN PACKER DEPTH: 4461 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: ~~WHITE & ELLIS~~
 MUD TYPE: CHEMICAL VISCOSITY: 46
 WEIGHT: 9.4 WATER LOSS (CC): 12.8
 CHLORIDES (P.P.M.): 19000
 JARS - MAKE: SERIAL NUMBER:
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 335 FT I.D.: 2.2 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4105 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 21 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 9 FT SIZE: 5 1/2 IN
 SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
 MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 XH IN

BLOW: INITIAL FLOW PERIOD GAS TO SURFACE IN 2 MINUTES.
 SEE ATTACHED GAS SHEET FOR MEASUREMENTS.

750' *oil*
 RECOVERED: 75 FT OF: DRILLING MUD.
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS:

TIME SET PACKER(S): 6:00 AM TIME STARTED OFF BOTTOM: 9:00 AM
 WELL TEMPERATURE: 134 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2256 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 168 PSI TO (C) 128 PSI
 INITIAL CLOSED IN PERIOD MIN: 42 (D) 1278 PSI
 FINAL FLOW PERIOD MIN: 60 (E) 146 PSI TO (F) 99 PSI
 FINAL CLOSED IN PERIOD MIN: 45 (G) 1159 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2256 PSI

WESTERN TESTING COMPANY
GAS FLOW REPORT

DATE: 4/5/83
 CUSTOMER: WHITE & ELLIS *Your Oil Company*
 WELL: 1 TEST: 5 1
 ELEVATION (KB): 1891 *1537* FORMATION: VIOLA *KC*
 SECTION: 25 *14* TOWNSHIP: 29S
 RANGE: 13W *18* COUNTY: PRATT *Kiowa* STATE: KANSAS
 GAUGE SN #1566 *1000* RANGE: 4300 *4500* CLOCK: 12

TICKET #18753 *6666*
 LEASE: COMBS *Mine*
 GEOLOGIST: MIKE DIXON *JR*

TIME GAUGE (MIN) TESTER TYPE ORIFICE SIZE PRESSURE (PSI) FLOW DESCRIPTION

PRE FLOW

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
5	MERLA	3/4	25	461000 CFPD
10		3/4	27	487000 CFPD
15		3/4	25	461000 CFPD
20		3/4	24	449000 CFPD
25		3/4	22	424000 CFPD
30		3/4	21	411000 CFPD

SECOND FLOW

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
5	MERLA	3/4	22	424000 CFPD
10		3/4	24	449000 CFPD
20		3/4	22	424000 CFPD
25		3/4	21	411000 CFPD
30		3/4	22	424000 CFPD
35		3/4	19	384000 CFPD
40		3/4	17	357000 CFPD
45		3/4	16	344000 CFPD
50		3/4	15	331000 CFPD
55		3/4	15	331000 CFPD
60		3/4	15	331000 CFPD

GAS BOTTLE SN #: 83
 DATE BOTTLE FILLED: 4/5/83
 DATE TO BE INVOICED:

GAS PRODUCTION

GAUGE SN # 1566

TICKET #18753

INITIAL HYDROSTATIC PRESSURE:		2256		PSI
FINAL HYDROSTATIC PRESSURE:		2256		PSI
1ST FLOW:	INITIAL:	0	MIN 168	PSI
	FINAL:	30	MIN 128	PSI
INITIAL CLOSE-IN PRESSURE:		42	MIN 1278	PSI
2ND FLOW:	INITIAL:	0	MIN 146	PSI
	FINAL:	60	MIN 99	PSI
FINAL CLOSE-IN PRESSURE:		45	MIN 1159	PSI

EXTRAPOLATED STATIC PRESSURE

INITIAL: 1427.58079 PSI FINAL: 1369.84569 PSI

SLOPE (PSI ^ 2 / CYCLE)

INITIAL: 1738240.14 FINAL: 1446978.34

ELEVATION (KB): 1891

PRODUCTION RATE

INITIAL: 411000 MCF FINAL: 331000 MCF

MAIN HOLE SIZE: 77 IN

FOOTAGE TESTED: 7 FT

MUD WEIGHT: 9.4 LBS/GAL.

GAS VISCOSITY: .018 cp

GAS GRAVITY: .68

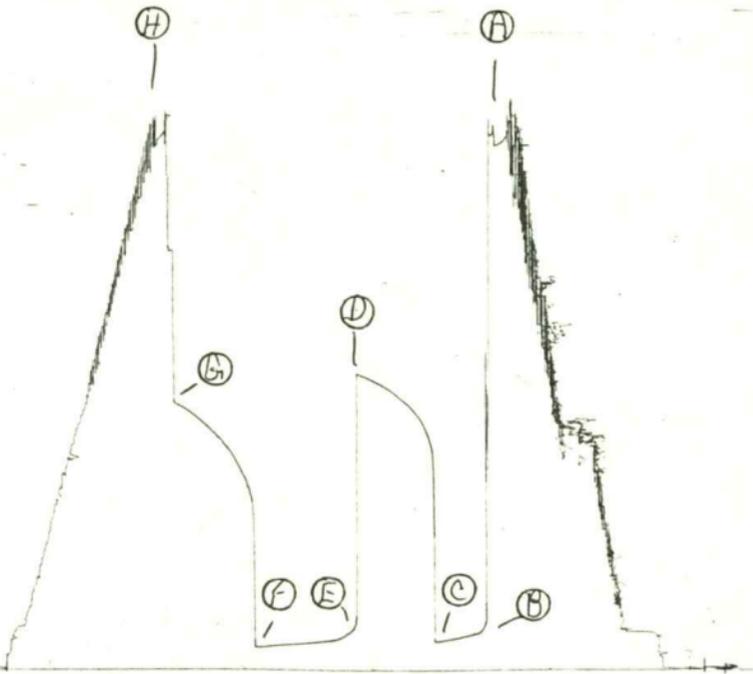
GAS COMPRESSIBILITY: .82

SUMMARY

	INITIAL	FINAL	
TRANSMISSABILITY:	188530.241	182395.845	md.ft./cp
THEORETICAL FLOW CAPACITY:	3393.544	3283.125	md.ft
AVG. EFFECTIVE PERMEABILITY:	484.792	469.018	md.
INDICATED FLOW CAPACITY:	5910.153	5882.787	md.ft
DAMAGE RATIO:	.574	.558	
INDICATED FLOW RATE:	414330.933	333915.501	MCFD
INDICATED FLOW RATE:	412662.106	331867.822	MCFD
THEORETICAL POTENTIAL RATE:	237904.231	186354.944	MCFD
THEORETICAL POTENTIAL RATE:	236946.009	185212.155	MCFD
APPROX. RADIUS OF INVESTIGATION:	120.598	167.753	FT
POTENTIOMETRIC SURFACE:	737.560	603.672	FT

TKT 18153

I



WESTERN TESTING COMPANY
SUBSURFACE PRESSURE SURVEY

DATE: 4/7/83 TICKET #18754
CUSTOMER: WHITE & ELLIS LEASE: COMBS
WELL: 1 TEST: 6 GEOLOGIST: MIKE DIXON
ELEVATION (KB): 1891 FORMATION: VIOLA
SECTION: 25 TOWNSHIP: 29S
RANGE: 13W COUNTY: PRATT STATE: KANSAS
GAUGE SN #1566 RANGE: 4300 CLOCK: 12

INTERVAL TEST FROM: 4461 FT TO: 4470 FT TOTAL DEPTH: 4729 FT
DEPTH OF SELECTIVE ZONE: FT
PACKER DEPTH: 4456 FT SIZE: 6 5/8 IN PACKER DEPTH: 4461 FT SIZE: 6 5/8 IN
PACKER DEPTH: 4470 FT SIZE: 6 5/8 IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: WHITE & ELLIS
MUD TYPE: CHEMICAL VISCOSITY: 48
WEIGHT: 9.4 WATER LOSS (CC): 10.4
CHLORIDES (P.P.M.): 13000

JARS - MAKE: SERIAL NUMBER:
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 93 FT I.D.: 2.2 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4347 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 25 FT TOOL SIZE: 5 1/2 IN
ANCHOR LENGTH: 9 FT SIZE: 5 1/2 IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 4 1/2 IN

BLOW: STRONG BLOW THROUGHOUT TEST.
GAS TO SURFACE IN 8 MINUTES.
SEE ATTACHED GAS SHEET FOR MEASUREMENTS.

RECOVERED: 105 FT OF: DRILLING MUD.
RECOVERED: 60 FT OF: 60% DRILLING MUD; 40% WATER.
RECOVERED: FT OF: CHLORIDES 32000 PPM.
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS: 255 FEET OF TAIL PIPE.

TIME SET PACKER(S): 12:30 PM TIME STARTED OFF BOTTOM: 6:00 PM
WELL TEMPERATURE: 135 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2266 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 79 PSI TO (C) 108 PSI
INITIAL CLOSED IN PERIOD MIN: 90 (D) 1412 PSI
FINAL FLOW PERIOD MIN: 90 (E) 107 PSI TO (F) 107 PSI
FINAL CLOSED IN PERIOD MIN: 120 (G) 1388 PSI
FINAL HYDROSTATIC PRESSURE (H) 2236 PSI

WESTERN TESTING COMPANY
PRESSURE DATA

DATE: 4/7/83	TICKET #18754
CUSTOMER: WHITE & ELLIS	LEASE: COMBS
WELL: 1	TEST: 6
ELEVATION (KB): 1891	GEOLOGIST: MIKE DIXON
SECTION: 25	FORMATION: VIOLA
RANGE: 13W	TOWNSHIP: 29S
GAUGE SN #1566	COUNTY: PRATT
	STATE: KANSAS
	RANGE: 4300
	CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE:	2266	PSI
(B) FIRST INITIAL FLOW PRESSURE:	79	PSI
(C) FIRST FINAL FLOW PRESSURE:	108	PSI
(D) INITIAL CLOSED-IN PRESSURE:	1412	PSI
(E) SECOND INITIAL FLOW PRESSURE:	107	PSI
(F) SECOND FINAL FLOW PRESSURE:	107	PSI
(G) FINAL CLOSED-IN PRESSURE:	1388	PSI
(H) FINAL HYDROSTATIC PRESSURE:	2236	PSI
WELL TEMPERATURE:	135	'F
OPEN TOOL:	12:30 PM	

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	90 MIN	90 MIN
SECOND FLOW PRESSURE:	90 MIN	90 MIN
FINAL CLOSED-IN PRESSURE:	120 MIN	120 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	79	0	108	0	107	0	107
2	5	79	3	1302	5	107	3	1171
3	10	79	6	1332	10	107	6	1200
4	15	84	9	1344	15	107	9	1224
5	20	90	12	1358	20	107	12	1242
6	25	100	15	1368	25	107	15	1252
7	30	108	18	1376	30	107	18	1267
8			21	1385	35	107	21	1277
9			24	1390	40	107	24	1289
10			27	1393	45	107	27	1296
11			30	1395	50	107	30	1304
12			33	1397	55	107	33	1311
13			36	1398	60	107	36	1315
14			39	1399	65	107	39	1323
15			42	1400	70	107	42	1330
16			45	1401	75	107	45	1337
17			48	1402	80	107	48	1340
18			51	1403	85	107	51	1343
19			54	1404	90	107	54	1346
20			57	1405			57	1349
21			60	1406			60	1352
22			63	1407			63	1355
23			66	1408			66	1358
24			69	1409			69	1361
25			72	1410			72	1364
26			75	1411			75	1367
27			78	1412			78	1370
28			81	1412			81	1373
29			84	1412			84	1376
30			87	1412			87	1379

GAS PRODUCTION

GAUGE SN # 10980

TICKET #18754

INITIAL HYDROSTATIC PRESSURE: 2266 PSI
 FINAL HYDROSTATIC PRESSURE: 2236 PSI
 1ST FLOW: INITIAL: 0 MIN 79 PSI
 FINAL: 30 MIN 108 PSI
 INITIAL CLOSE-IN PRESSURE: 90 MIN 1412 PSI
 2ND FLOW: INITIAL: 0 MIN 107 PSI
 FINAL: 90 MIN 107 PSI
 FINAL CLOSE-IN PRESSURE: 120 MIN 1388 PSI

EXTRAPOLATED STATIC PRESSURE

INITIAL: 1426.96750 PSI FINAL: 1414.81240 PSI

SLOPE (PSI ^ 2 / CYCLE)

INITIAL: 320397.509 FINAL: 294887.473

ELEVATION (KB): 1891

PRODUCTION RATE

INITIAL: 83900 MCF FINAL: 166000 MCF

MAIN HOLE SIZE: 7.875 IN

FOOTAGE TESTED: 6 FT

MUD WEIGHT: 0 LBS/GAL.

GAS VISCOSITY: .018 cp

GAS GRAVITY: .68

GAS COMPRESSIBILITY: .82

SUMMARY

	INITIAL	FINAL
TRANSMISSABILITY:	209147.331	449605.133 md.ft./cp
THEORETICAL FLOW CAPACITY:	3764.652	8092.892 md.ft
AVG. EFFECTIVE PERMEABILITY:	627.442	1348.815 md.
INDICATED FLOW CAPACITY:	2371.124	5740.885 md.ft
DAMAGE RATIO:	1.588	1.410
INDICATED FLOW RATE:	84383.366	166972.962 MCFD
INDICATED FLOW RATE:	84141.336	166476.778 MCFD
THEORETICAL POTENTIAL RATE:	133976.138	235380.832 MCFD
THEORETICAL POTENTIAL RATE:	133591.864	234681.363 MCFD
APPROX. RADIUS OF INVESTIGATION:	137.198	348.416 FT
POTENTIOMETRIC SURFACE:	751.138	722.950 FT

GAS FLOW REPORT

DATE: TICKET #18754
 CUSTOMER: LEASE:
 WELL: TEST: GEOLOGIST:
 ELEVATION (KB): 1891 FORMATION:
 SECTION: TOWNSHIP:
 RANGE: COUNTY: STATE:
 GAUGE SN #10980 RANGE: CLOCK:

TIME GAUGE TESTER TYPE ORIFICE PRESSURE FLOW DESCRIPTION
 (MIN) SIZE (PSI)

PRE FLOW

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
10	MERLA	1/4	8.0	27000 CFD
15	MERLA	1/4	17	42400 CFD
20	MERLA	1/4	25	54700 CFD
25	MERLA	1/4	40	75800 CFD
30	MERLA	1/4	46	83900 CFD

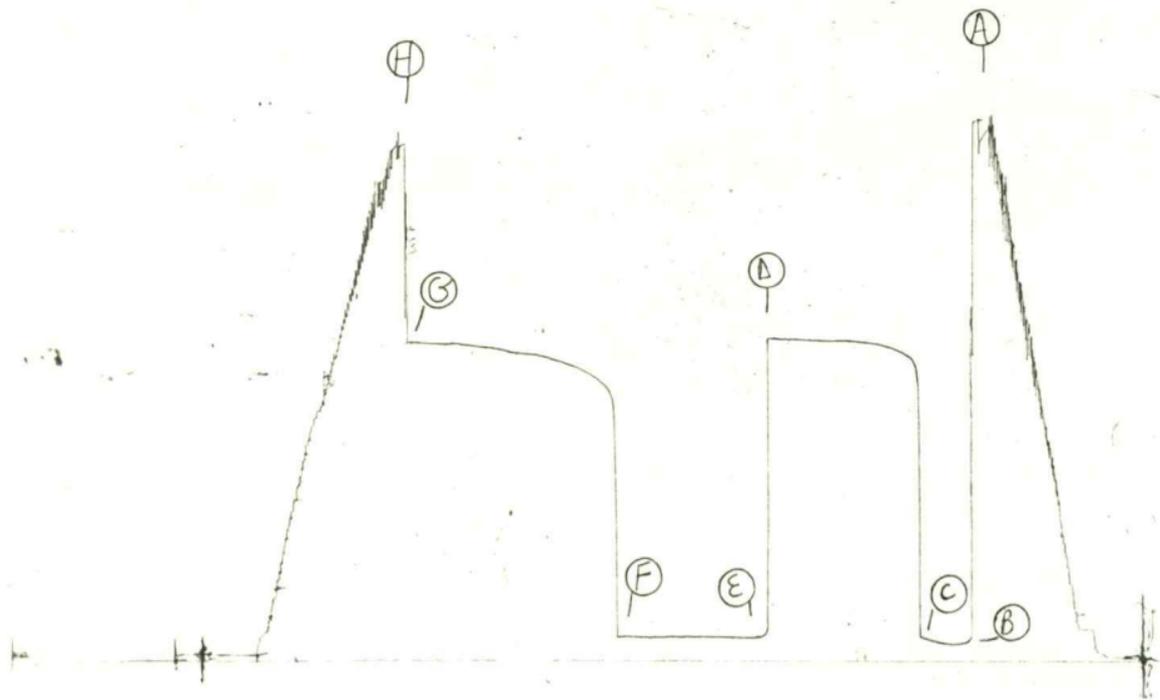
SECOND FLOW

TIME GAUGE (MIN)	TESTER TYPE	ORIFICE SIZE	PRESSURE (PSI)	FLOW DESCRIPTION
5	MERLA	1/2	12	129000 CFD
10	MERLA	1/2	18	166000 CFD
20	MERLA	1/2	20	177000 CFD
30	MERLA	1/2	19	171000 CFD
40	MERLA	1/2	19	171000 CFD
50	MERLA	1/2	19	171000 CFD
60	MERLA	1/2	18	166000 CFD
70	MERLA	1/2	18	166000 CFD
80	MERLA	1/2	18	166000 CFD
90	MERLA	1/2	18	166000 CFD

GAS BOTTLE SN #:
 DATE BOTTLE FILLED:
 DATE TO BE INVOICED:

TKT # 18754

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TKT # 187.54

Below Straddle

