

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

22-22-13W
15-007-21901

DATE: 9/10/84 TICKET #5020
CUSTOMER: BOWEN OIL & EXPLORATION INC. LEASE: BROOKS YOUNGER
WELL: #4 TEST: 1 GEOLOGIST: CROWE
ELEVATION (KB): 1560 FORMATION:
SECTION: 22 TOWNSHIP: 32S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4242 FT TO: 4260 FT TOTAL DEPTH: 4260 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: DAMAC
MUD TYPE: POLYPAC VISCOSITY: 39
WEIGHT: 9.3 WATER LOSS (CC): 34.0
CHLORIDES (P.P.M.): 8000
JARS - MAKE: W.T.C. SERIAL NUMBER: 421
DID WELL FLOW? NO REVERSED OUT? NO
DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
WEIGHT PIPE LENGTH: FT I.D.: IN
DRILL PIPE LENGTH: 4094 FT I.D.: 3.8 IN
TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 O.D. IN
ANCHOR LENGTH: 18 FT SIZE: 5 1/2 O.D. IN
SURFACE CHOKE SIZE: 3/4 IN BOTTOM CHOKE SIZE: 3/4 IN
MAIN HOLE SIZE: 7 7/8 IN TOOL JOINT SIZE: 3 1/2 FH IN

BLOW: INITIAL FLOW PERIOD WEAK BLOW BUILDING
TO FAIR BLOW. FINAL FLOW PERIOD
STRONG BLOW THROUGHOUT.

RECOVERED: 60 FT OF: GAS ABOVE FLUID.
RECOVERED: 150 FT OF: MUDDY GAS CUT SALT WATER.
RECOVERED: 100 FT OF: SALT WATER. CHLORIDES 112000 P.P.M.
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:
RECOVERED: FT OF:

REMARKS:

JAN 7 1985

State Geologist's Office
Wichita, Kansas

STATE COLLEGE OF KANSAS

DEC 11 1984

CONSERVATION DIVISION
Wichita, Kansas

TIME SET PACKER(S): 9:50 A.M. TIME STARTED OFF BOTTOM: 1:35 P.M.
WELL TEMPERATURE: 122 °F
INITIAL HYDROSTATIC PRESSURE: (A) 2206 PSI
INITIAL FLOW PERIOD MIN: 30 (B) 73 PSI TO (C) 94 PSI
INITIAL CLOSED IN PERIOD MIN: 60 (D) 1590 PSI
FINAL FLOW PERIOD MIN: 45 (E) 118 PSI TO (F) 145 PSI
FINAL CLOSED IN PERIOD MIN: 90 (G) 1592 PSI
FINAL HYDROSTATIC PRESSURE (H) 2092 PSI

76

WESTERN TESTING COMPANY INC.
PRESSURE DATA

22-32-13W

DATE: 9/10/84
CUSTOMER: BOWEN OIL & EXPLORATION INC.
WELL: #4 TEST: 1
ELEVATION (KB): 1560
SECTION: 22
RANGE: 13W COUNTY: BARBER
GAUGE SN #6074 RANGE: 5100

TICKET #5020
LEASE: BROOKS YOUNGER
GEOLOGIST: CROWE
FORMATION:
TOWNSHIP: 32S
STATE: KANSAS
CLOCK: 12

- (A) INITIAL HYDROSTATIC PRESSURE: 2206 PSI
- (B) FIRST INITIAL FLOW PRESSURE: 73 PSI
- (C) FIRST FINAL FLOW PRESSURE: 94 PSI
- (D) INITIAL CLOSED-IN PRESSURE: 1590 PSI
- (E) SECOND INITIAL FLOW PRESSURE: 118 PSI
- (F) SECOND FINAL FLOW PRESSURE: 145 PSI
- (G) FINAL CLOSED-IN PRESSURE: 1592 PSI
- (H) FINAL HYDROSTATIC PRESSURE: 2092 PSI
- WELL TEMPERATURE: 122 'F
- OPEN TOOL: 9:50 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	90 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	73	0	94	0	118	0	145
2	5	73	3	604	5	118	3	734
3	10	74	6	1377	10	118	6	1309
4	15	78	9	1468	15	122	9	1435
5	20	84	12	1513	20	124	12	1492
6	25	89	15	1535	25	129	15	1522
7	30	94	18	1548	30	136	18	1538
8			21	1556	35	141	21	1550
9			24	1564	40	143	24	1561
10			27	1570	45	145	27	1569
11			30	1576			30	1574
12			33	1579			33	1576
13			36	1581			36	1578
14			39	1583			39	1580
15			42	1584			42	1582
16			45	1585			45	1584
17			48	1586			48	1585
18			51	1587			51	1586
19			54	1588			54	1587
20			57	1589			57	1588
21			60	1590			60	1589
22							63	1590
23							66	1590
24							69	1590
25							72	1591
26							75	1591
27							78	1591
28							81	1592
29							84	1592
30							87	1592

Barber County

STATE OF KANSAS

DEC 11 1984

CONSTRUCTION DIVISION
Wichita, Kansas

22-32-13W

PRESSURE BREAKDOWN - CONT. TICKET #5020

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL	SHUT-IN
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1							90	1592
2								
3								
4								
5								
6								
7								
8								
9								
10								
11								
12								
13								
14								
15								
16								
17								
18								
19								
20								
21								
22								
23								
24								
25								
26								
27								
28								
29								
30								
31								
32								
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								

11-15-85
Wichita, Kansas

RECEIVED
STATE CORPORATION COMMISSION
DEC 11 1984
CONSERVATION DIVISION
Wichita, Kansas

WESTERN TESTING COMPANY INC.
SUBSURFACE PRESSURE SURVEY

22-32-13N

DATE: 9/11/84 TICKET #5021
 CUSTOMER: DAMAC DRILLING & BOWEN OIL LEASE: BROOKS YOUNGER
 WELL: 4 TEST: 2 GEOLOGIST: SPAIN
 ELEVATION (KB): 1660 FORMATION: MISSISSIPPI
 SECTION: 22 TOWNSHIP: 32S
 RANGE: 13W COUNTY: BARBER STATE: KANSAS
 GAUGE SN #6074 RANGE: 5100 CLOCK: 12

INTERVAL TEST FROM: 4373 FT TO: 4417 FT TOTAL DEPTH: 4417 FT
 DEPTH OF SELECTIVE ZONE: FT
 PACKER DEPTH: 4368 FT SIZE: 6 5/8 IN PACKER DEPTH: 4373 FT SIZE: 6 5/8 IN
 PACKER DEPTH: FT SIZE: IN PACKER DEPTH: FT SIZE: IN

DRILLING CONTRACTOR: DAMAC
 MUD TYPE: POLY PAC VISCOSITY: 42
 WEIGHT: 9.3 WATER LOSS (CC): 28.0
 CHLORIDES (P.P.M.): 15000
 JARS - MAKE: W.T.C. SERIAL NUMBER: 421
 DID WELL FLOW? NO REVERSED OUT? NO
 DRILL COLLAR LENGTH: 120 FT I.D.: 2.25 IN
 WEIGHT PIPE LENGTH: FT I.D.: IN
 DRILL PIPE LENGTH: 4247 FT I.D.: 3.8 IN
 TEST TOOL LENGTH: 28 FT TOOL SIZE: 5 1/2 IN
 ANCHOR LENGTH: 34 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 FH IN

BLOW: STRONG BLOW. GAS TO SURFACE 4 MINUTES. SEE
 ATTACHED GAS FLOW SHEET.

RECOVERED: 140 FT OF: MUD CUT GASSY OIL: 15% GAS: 80% OIL: 5% MUD
 RECOVERED: 240 FT OF: GASSY OIL
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:
 RECOVERED: FT OF:

REMARKS: TIGHT HOLE.

TIME SET PACKER(S): 10:50 A.M. TIME STARTED OFF BOTTOM: 2:35 P.M.
 WELL TEMPERATURE: 126 °F
 INITIAL HYDROSTATIC PRESSURE: (A) 2215 PSI
 INITIAL FLOW PERIOD MIN: 30 (B) 137 PSI TO (C) 137 PSI
 INITIAL CLOSED IN PERIOD MIN: 60 (D) 1378 PSI
 FINAL FLOW PERIOD MIN: 45 (E) 142 PSI TO (F) 174 PSI
 FINAL CLOSED IN PERIOD MIN: 93 (G) 1352 PSI
 FINAL HYDROSTATIC PRESSURE (H) 2174 PSI

JAN 7 1985
 WICHITA BRANCH

STATE COMMISSION
 DECEMBER 11 1984
 CONSTRUCTION DIVISION
 Wichita, Kansas

WESTERN TESTING COMPANY INC.
PRESSURE DATA

22-32-13W

DATE: 9/11/84
CUSTOMER: DAMAC DRILLING & BOWEN OIL
WELL: 4 TEST: 2
ELEVATION (KB): 1660 FORMATION: MISSISSIPPI
SECTION: 22 TOWNSHIP: 32S
RANGE: 13W COUNTY: BARBER STATE: KANSAS
GAUGE SN #6074 RANGE: 5100 CLOCK: 12

(A) INITIAL HYDROSTATIC PRESSURE: 2215 PSI
(B) FIRST INITIAL FLOW PRESSURE: 137 PSI
(C) FIRST FINAL FLOW PRESSURE: 137 PSI
(D) INITIAL CLOSED-IN PRESSURE: 1378 PSI
(E) SECOND INITIAL FLOW PRESSURE: 142 PSI
(F) SECOND FINAL FLOW PRESSURE: 174 PSI
(G) FINAL CLOSED-IN PRESSURE: 1352 PSI
(H) FINAL HYDROSTATIC PRESSURE: 2174 PSI
WELL TEMPERATURE: 126 °F
OPEN TOOL: 10:50 A.M.

	TIME - GIVEN	TIME - ACTUAL
FIRST FLOW PRESSURE:	30 MIN	30 MIN
INITIAL CLOSED-IN PRESSURE:	60 MIN	60 MIN
SECOND FLOW PRESSURE:	45 MIN	45 MIN
FINAL CLOSED-IN PRESSURE:	90 MIN	93 MIN

PRESSURE BREAKDOWN

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
1	0	137	0	137	0	142	0	174
2	5	137	3	1038	5	142	3	875
3	10	137	6	1156	10	142	6	1053
4	15	137	9	1202	15	145	9	1115
5	20	137	12	1234	20	148	12	1156
6	25	137	15	1257	25	152	15	1181
7	30	137	18	1276	30	158	18	1203
8			21	1290	35	164	21	1222
9			24	1303	40	169	24	1236
10			27	1314	45	174	27	1250
11			30	1323			30	1262
12			33	1332			33	1272
13			36	1339			36	1282
14			39	1346			39	1291
15			42	1353			42	1297
16			45	1359			45	1303
17			48	1364			48	1308
18			51	1368			51	1313
19			54	1372			54	1318
20			57	1375			57	1323
21			60	1378			60	1328
22							63	1332
23							66	1335
24							69	1338
25							72	1340
26							75	1342
27							78	1344
28							81	1346
29							84	1348
30							87	1350

JAN 7 1985

State Geological Survey
WICHITA BRANCH

STATE GEOLOGICAL SURVEY

DEC 11 1984

CONSULTATION DIVISION
Wichita, Kansas

22-32-130

PRESSURE BREAKDOWN - CONT. TICKET #5021

PT	FIRST FLOW		INITIAL SHUT-IN		SECOND FLOW		FINAL SHUT-IN	
	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE	MIN	PRESSURE
31							90	1351
32							93	1352
33								
34								
35								
36								
37								
38								
39								
40								
41								
42								
43								
44								
45								
46								
47								
48								
49								
50								
51								
52								
53								
54								
55								
56								
57								
58								
59								
60								
61								
62								
63								
64								
65								
66								
67								
68								
69								
70								
71								
72								
73								
74								
75								
76								
77								
78								
79								
80								
81								
82								
83								
84								
85								
86								
87								
88								
89								

JAN 1934

State Geological Survey
WICHITA BRANCH

STATE GEOLOGICAL SURVEY

DEC 11 1934

CONSERVATION DIVISION
Wichita, Kansas