

Home Office: Wichita, Kansas 67201

Company South Ranch Oil Company, Inc. P.O. Box 1599 (316) 262-5861 Lease & Well No. Garber #1
Elevation 1587 Kelly Bushing Formation Swope Effective Pay - Ft. Ticket No. 5350
Date 6/23/80 Sec. --- Twp. --- Range --- County Reno State Kansas
Test Approved by Milton E. Boler Western Representative Roger Mounts

Formation Test No. 1 Interval Tested from 3371 ft. to 3393 ft. Total Depth 3393 ft.
Packer Depth 3366 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3376 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3378 ft. Recorder Number 1566 Cap. 4300
Bottom Recorder Depth (Outside) 3381 ft. Recorder Number 3086 Cap. 4500
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -
Drilling Contractor Rains & Williamson Rig #3 Drill Collar Length 421 I. D. 2.2 in.
Mud Type starch Viscosity 38 Weight Pipe Length - I. D. - in.
Weight 9.4 Water Loss 11.2 cc. Drill Pipe Length 2923 I. D. 3.8 in.
Chlorides 28,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 3660 Anchor Length 22 ft. Size 5 1/2 OD in.
Did Well Flow? - Reversed Out - 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: Weak blow first opening building to fair; good to strong on second opening. (no gas)

Recovered	<u>160</u> ft. of	<u>water cut mud</u>	<u>(58,000 ppm chlorides)</u>
Recovered	<u>120</u> ft. of	<u>muddy water</u>	<u>(96,000 ppm chlorides)</u>
Recovered	<u>180</u> ft. of	<u>salt water</u>	<u>(160,000 ppm chlorides)</u>
Recovered	<u> </u> ft. of	<u> </u>	<u> </u>
Recovered	<u> </u> ft. of	<u> </u>	<u> </u>

Remarks: _____

Time Set Packer(s) 10:44 A.M. Time Started Off Bottom 2:14 P.M. Maximum Temperature 108°
Initial Hydrostatic Pressure 1722 P.S.I. (A)
Initial Flow Period 30 Minutes (B) 75 P.S.I. to (C) 142 P.S.I.
Initial Closed In Period 63 Minutes (D) 1408 P.S.I.
Final Flow Period 60 Minutes (E) 207 P.S.I. to (F) 270 P.S.I.
Final Closed In Period 69 Minutes (G) 1389 P.S.I.
Final Hydrostatic Pressure 1692 P.S.I. (H)

WESTERN TESTING CO., INC.

Pressure Data

Date 6-23-80 Test Ticket No. 5350
 Recorder No. 1566 Capacity 4300 Location 3378 Ft.
 Clock No. ---- Elevation 1587 Kelly Bushing Well Temperature 108 °F

Point	Pressure	Time Given	Time Computed
A Initial Hydrostatic Mud	<u>1722</u> P.S.I.	10:44 P. M.	
B First Initial Flow Pressure	<u>75</u> P.S.I.	30 Mins.	30 Mins.
C First Final Flow Pressure	<u>142</u> P.S.I.	60 Mins.	63 Mins.
D Initial Closed-in Pressure	<u>1408</u> P.S.I.	60 Mins.	60 Mins.
E Second Initial Flow Pressure	<u>207</u> P.S.I.	60 Mins.	69 Mins.
F Second Final Flow Pressure	<u>270</u> P.S.I.		
G Final Closed-in Pressure	<u>1389</u> P.S.I.		
H Final Hydrostatic Mud	<u>1692</u> P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure
 Breakdown: 6 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Initial Shut-In
 Breakdown: 21 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Second Flow Pressure
 Breakdown: 12 Inc.
 of 5 mins. and a
 final inc. of 0 Min.

Final Shut-In
 Breakdown: 23 Inc.
 of 3 mins. and a
 final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1	<u>75</u>	<u>0</u>	<u>142</u>	<u>0</u>	<u>207</u>	<u>0</u>	<u>270</u>
P 2	<u>65</u>	<u>3</u>	<u>865</u>	<u>5</u>	<u>196</u>	<u>3</u>	<u>951</u>
P 3	<u>69</u>	<u>6</u>	<u>1248</u>	<u>10</u>	<u>199</u>	<u>6</u>	<u>1210</u>
P 4	<u>91</u>	<u>9</u>	<u>1294</u>	<u>15</u>	<u>214</u>	<u>9</u>	<u>1261</u>
P 5	<u>112</u>	<u>12</u>	<u>1315</u>	<u>20</u>	<u>229</u>	<u>12</u>	<u>1291</u>
P 6	<u>130</u>	<u>15</u>	<u>1334</u>	<u>25</u>	<u>240</u>	<u>15</u>	<u>1309</u>
P 7	<u>142</u>	<u>18</u>	<u>1347</u>	<u>30</u>	<u>246</u>	<u>18</u>	<u>1319</u>
P 8		<u>21</u>	<u>1356</u>	<u>35</u>	<u>253</u>	<u>21</u>	<u>1329</u>
P 9		<u>24</u>	<u>1365</u>	<u>40</u>	<u>259</u>	<u>24</u>	<u>1339</u>
P10		<u>27</u>	<u>1371</u>	<u>45</u>	<u>264</u>	<u>27</u>	<u>1347</u>
P11		<u>30</u>	<u>1375</u>	<u>50</u>	<u>268</u>	<u>30</u>	<u>1352</u>
P12		<u>33</u>	<u>1382</u>	<u>55</u>	<u>270</u>	<u>33</u>	<u>1358</u>
P13		<u>36</u>	<u>1386</u>	<u>60</u>	<u>270</u>	<u>36</u>	<u>1362</u>
P14		<u>39</u>	<u>1390</u>			<u>39</u>	<u>1366</u>
P15		<u>42</u>	<u>1394</u>			<u>42</u>	<u>1369</u>
P16		<u>45</u>	<u>1399</u>			<u>45</u>	<u>1370</u>
P17		<u>48</u>	<u>1401</u>			<u>48</u>	<u>1373</u>
P18		<u>51</u>	<u>1403</u>			<u>51</u>	<u>1375</u>
P19		<u>54</u>	<u>1405</u>			<u>54</u>	<u>1377</u>
P20		<u>57</u>	<u>1408</u>			<u>57</u>	<u>1381</u>
		<u>60</u>	<u>1408</u>			<u>60</u>	<u>1381</u>
		<u>63</u>	<u>1408</u>				

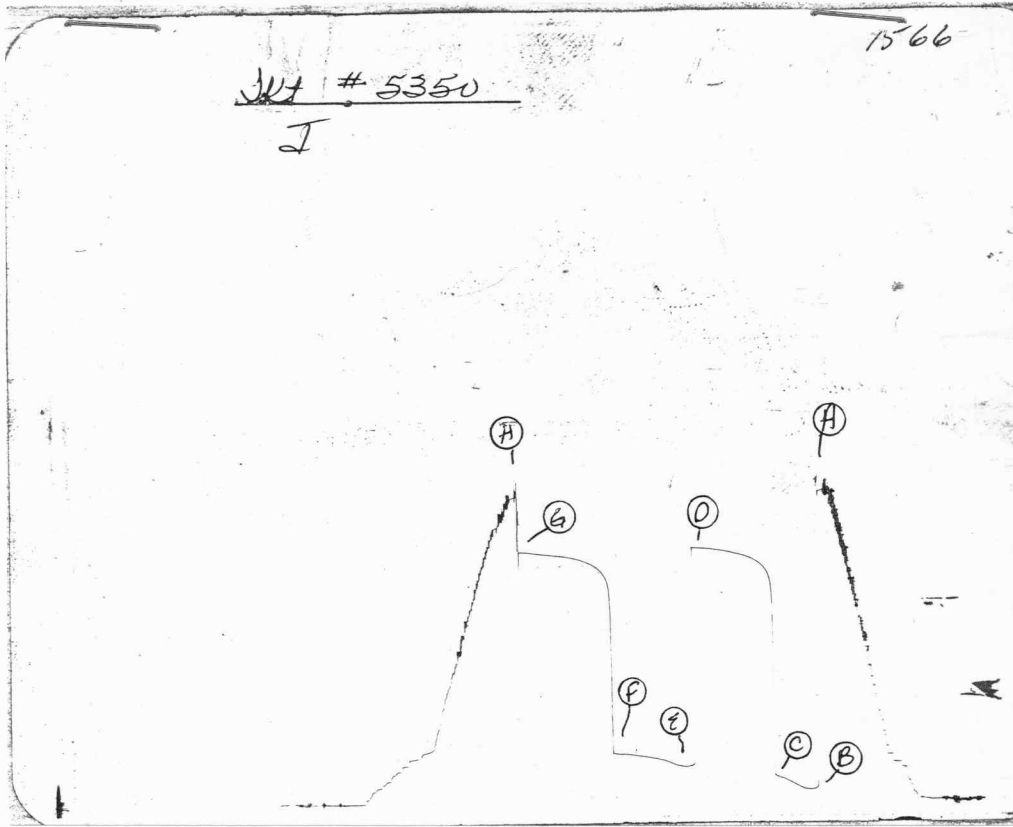
WESTERN TESTING CO., INC.

Pressure Data

Date 6-23-80 Test Ticket No. 5350
 Recorder No. 1566 Capacity 4300 Location 3378 Ft.
 Clock No. ---- Elevation 1587 Kelly Bushing Well Temperature 108 °F
 Point Pressure Time Given Time Computed
 A Initial Hydrostatic Mud 1722 P.S.I. Open Tool 10:44 P. M.
 B First Initial Flow Pressure 75 P.S.I. First Flow Pressure 30 Mins. 30 Mins.
 C First Final Flow Pressure 142 P.S.I. Initial Closed-in Pressure 60 Mins. 63 Mins.
 D Initial Closed-in Pressure 1408 P.S.I. Second Flow Pressure 60 Mins. 60 Mins.
 E Second Initial Flow Pressure 207 P.S.I. Final Closed-in Pressure 60 Mins. 69 Mins.
 F Second Final Flow Pressure 270 P.S.I.
 G Final Closed-in Pressure 1389 P.S.I.
 H Final Hydrostatic Mud 1692 P.S.I.

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>21</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>23</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1						63	1386
P 2						66	1388
P 3						69	1389
P 4							
P 5							
P 6							
P 7							
P 8							
P 9							
P10							
P11							
P12							
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1722	1722	PSI
(B) First Initial Flow Pressure	64	75	PSI
(C) First Final Flow Pressure	140	142	PSI
(D) Initial Closed-in Pressure	1398	1408	PSI
(E) Second Initial Flow Pressure	205	207	PSI
(F) Second Final Flow Pressure	259	270	PSI
(G) Final Closed-in Pressure	1377	1389	PSI
(H) Final Hydrostatic Mud	1700	1692	PSI



Home Office: Wichita, Kansas 67201

Company South Ranch Oil Company, Inc. P.O. Box 1599 (316) 262-5861 Lease & Well No. Garber #1
Elevation ----- Formation ----- Effective Pay ----- Ft. Ticket No. 6156
Date 6/24/80 Sec. 18 Twp. 26S Range 6W County Reno State Kansas
Test Approved by Milton E. Boler Western Representative Jim Wondra

Formation Test No. 2 Interval Tested from 3443 ft. to 3447 ft. Total Depth 3447 ft.
Packer Depth 4329 ft. Size 6 3/4 Packer Depth ----- ft. Size ----- in.
Packer Depth 4334 ft. Size 6 3/4 Packer Depth ----- ft. Size ----- in.
Depth of Selective Zone Set -----
Top Recorder Depth (Inside) 4309 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 4312 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth ----- ft. Recorder Number ----- Cap. -----
Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 411 I. D. 2 1/4 in.
Mud Type premix-starch Viscosity 35 Weight Pipe Length ----- I. D. ----- in.
Weight 9.3 Water Loss 20.8 cc. Drill Pipe Length 3883 I. D. 3.8 in.
Chlorides 34,000 P.P.M. Test Tool Length 39 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 4 ft. Size 5 1/2 OD in.
Did Well Flow? No Reversed Out No 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: Very weak blow; died in twelve minutes on first flow period. No blow on second flow period.

Recovered 5 ft. of drilling mud

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Recovered ----- ft. of -----

Remarks: -----

Time Set Packer(s) 4:35 A.M. Time Started Off Bottom 6:10 P.M. Maximum Temperature 127
Initial Hydrostatic Pressure ----- (A) 1787 P.S.I.
Initial Flow Period ----- Minutes 20 (B) 56 P.S.I. to (C) 36 P.S.I.
Initial Closed In Period ----- Minutes 27 (D) 1439 P.S.I.
Final Flow Period ----- Minutes 15 (E) 43 P.S.I. to (F) 36 P.S.I.
Final Closed In Period ----- Minutes -- (G) 1453 P.S.I.
Final Hydrostatic Pressure ----- (H) 1743 P.S.I.

WESTERN TESTING CO., INC.

Pressure Data

Date 6/24/80 Test Ticket No. 6156

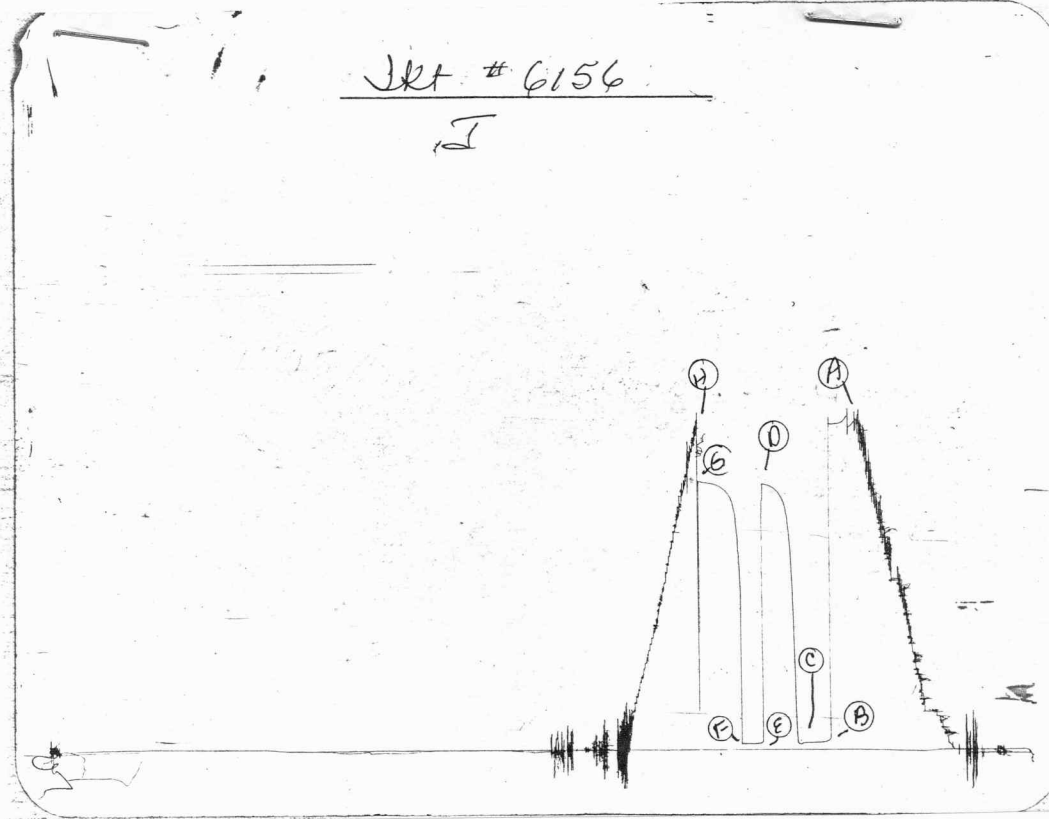
Recorder No. 2607 Capacity 4150 Location 4309 Ft.

Clock No. --- Elevation - Well Temperature 127 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1787 P.S.I.	Open Tool	4:35P	M
B First Initial Flow Pressure	56 P.S.I.	First Flow Pressure	20 Mins.	20 Mins.
C First Final Flow Pressure	36 P.S.I.	Initial Closed-in Pressure	30 Mins.	27 Mins.
D Initial Closed-in Pressure	1439 P.S.I.	Second Flow Pressure	15 Mins.	15 Mins.
E Second Initial Flow Pressure	43 P.S.I.	Final Closed-in Pressure	30 Mins.	33 Mins.
F Second Final Flow Pressure	36 P.S.I.			
G Final Closed-in Pressure	1453 P.S.I.			
H Final Hydrostatic Mud	1743 P.S.I.			

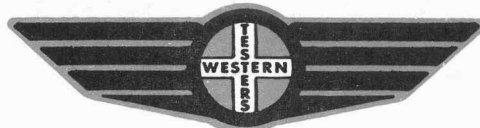
PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>4</u> Inc.		Breakdown: <u>9</u> Inc.		Breakdown: <u>3</u> Inc.		Breakdown: <u>10</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>56</u>	<u>0</u>	<u>36</u>	<u>0</u>	<u>43</u>	<u>0</u>	<u>36</u>
P 2 <u>5</u>	<u>45</u>	<u>3</u>	<u>512</u>	<u>5</u>	<u>36</u>	<u>3</u>	<u>1033</u>
P 3 <u>10</u>	<u>42</u>	<u>6</u>	<u>1027</u>	<u>10</u>	<u>36</u>	<u>6</u>	<u>1231</u>
P 4 <u>15</u>	<u>41</u>	<u>9</u>	<u>1249</u>	<u>15</u>	<u>36</u>	<u>9</u>	<u>1353</u>
P 5 <u>20</u>	<u>36</u>	<u>12</u>	<u>1344</u>			<u>12</u>	<u>1391</u>
P 6		<u>15</u>	<u>1384</u>			<u>15</u>	<u>1413</u>
P 7		<u>18</u>	<u>1409</u>			<u>18</u>	<u>1426</u>
P 8		<u>21</u>	<u>1426</u>			<u>21</u>	<u>1437</u>
P 9		<u>24</u>	<u>1433</u>			<u>24</u>	<u>1443</u>
P10		<u>27</u>	<u>1439</u>			<u>27</u>	<u>1445</u>
P11						<u>30</u>	<u>1447</u>
P12						<u>33</u>	<u>1453</u>
P13							
P14							
P15							
P16							
P17							
P18							
P19							
P20							



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	1775	1787 PSI
(B) First Initial Flow Pressure	52	56 PSI
(C) First Final Flow Pressure	42	36 PSI
(D) Initial Closed-in Pressure	1458	1439 PSI
(E) Second Initial Flow Pressure	42	43 PSI
(F) Second Final Flow Pressure	42	36 PSI
(G) Final Closed-in Pressure	1468	1453 PSI
(H) Final Hydrostatic Mud	1752	1743 PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company South Ranch Oil Company, Inc. Lease & Well No. Garber #1
Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 5377
Date 6/26/80 Sec. 18 Twp. 26S Range 6W County Reno State Kansas
Test Approved by ----- Western Representative Jeff Piotrowski

Formation Test No. 4 Interval Tested from 3758 ft. to 3821 ft. Total Depth 3821 ft.

Packer Depth 3753 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 3758 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3761 ft. Recorder Number 5673 Cap. 5400

Bottom Recorder Depth (Outside) 3764 ft. Recorder Number 1565 Cap. 4900

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg Rig #3 Drill Collar Length 420 I. D. 2.2 in.

Mud Type starch Viscosity 44 Weight Pipe Length - I. D. - in.

Weight 9.8 Water Loss 14.8 cc. Drill Pipe Length 3311 I. D. 3.8 in.

Chlorides 47,000 P.P.M. Test Tool Length 27 ft. Tool Size 5 1/2 OD in.

Jars: Make WTC Serial Number 405 Anchor Length DP 31' 22 ft. Size 5 1/2 OD in.

Did Well Flow? NO Reversed Out NO 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: Weak; died in fifteen minutes.

Recovered 5 ft. of drilling mud

Recovered - ft. of -

Recovered - ft. of -

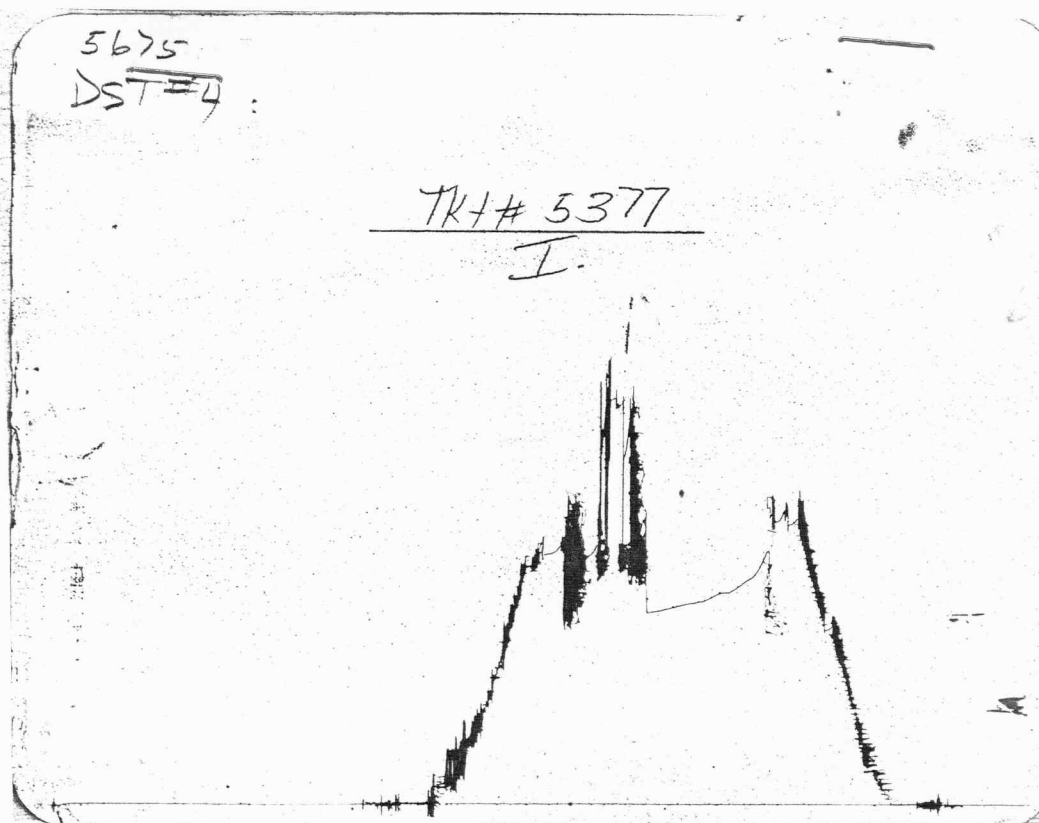
Recovered - ft. of -

Recovered - ft. of -

Remarks: PLUGGED TOOL MISRUN

NO PRESSURES AVAILABLE

Time Set Packer(s) - A.M. P.M. Time Started Off Bottom - A.M. P.M. Maximum Temperature -
Initial Hydrostatic Pressure - (A) - P.S.I.
Initial Flow Period - Minutes (B) - P.S.I. to (C) - P.S.I.
Initial Closed In Period - Minutes (D) - P.S.I.
Final Flow Period - Minutes (E) - P.S.I. to (F) - P.S.I.
Final Closed In Period - Minutes (G) - P.S.I.
Final Hydrostatic Pressure - (H) - P.S.I.



This is an actual photograph of recorder chart.

POINT	PRESSURE	
	Field Reading	Office Reading
(A) Initial Hydrostatic Mud	NO PRESSURES AVAILABLE	
(B) First Initial Flow Pressure		PSI
(C) First Final Flow Pressure		PSI
(D) Initial Closed-in Pressure		PSI
(E) Second Initial Flow Pressure		PSI
(F) Second Final Flow Pressure		PSI
(G) Final Closed-in Pressure		PSI
(H) Final Hydrostatic Mud		PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company South Ranch Oil Company, Inc. Lease & Well No. Garber #1
Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 6679
Date 6/27/80 Sec. 18 Twp. 26S Range 6W County Reno State Kansas
Test Approved by Milton E. Boler Western Representative Dave Sloan

Formation Test No. 6 Interval Tested from 3758 ft. to 3821 ft. Total Depth 3821 ft.
Packer Depth 3753 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Packer Depth 3758 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.
Depth of Selective Zone Set -

Top Recorder Depth (Inside) 3776 ft. Recorder Number 2604 Cap. 4150
Bottom Recorder Depth (Outside) 3779 ft. Recorder Number 6246 Cap. 5200
Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 392 I. D. 2.2 in.
Mud Type starch Viscosity 42 Weight Pipe Length - I. D. - in.
Weight 9.7 Water Loss 15.2 cc. Drill Pipe Length 3337 I. D. 3.8 in.
Chlorides 47,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 408 Anchor Length 29DC + 34 ft. Size 5 1/2 in.
Did Well Flow? No Reversed Out - 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: Strong through initial flow period dying to very weak during final flow period.

Recovered 2681 ft. of gas cut water chlorides 84,000 ppm

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks: Dropped bar, would not reverse out.

Time Set Packer(s) 4:00 A.M. Time Started Off Bottom 7:30 A.M. Maximum Temperature 124°

Initial Hydrostatic Pressure (A) 1989 P.S.I.

Initial Flow Period 30 Minutes (B) 354 P.S.I. to (C) 1125 P.S.I.

Initial Closed In Period 60 Minutes (D) 1291 P.S.I.

Final Flow Period 60 Minutes (E) 1217 P.S.I. to (F) 1299 P.S.I.

Final Closed In Period 60 Minutes (G) 1300 P.S.I.

Final Hydrostatic Pressure (H) 1968 P.S.I.

WESTERN TESTING CO., INC.

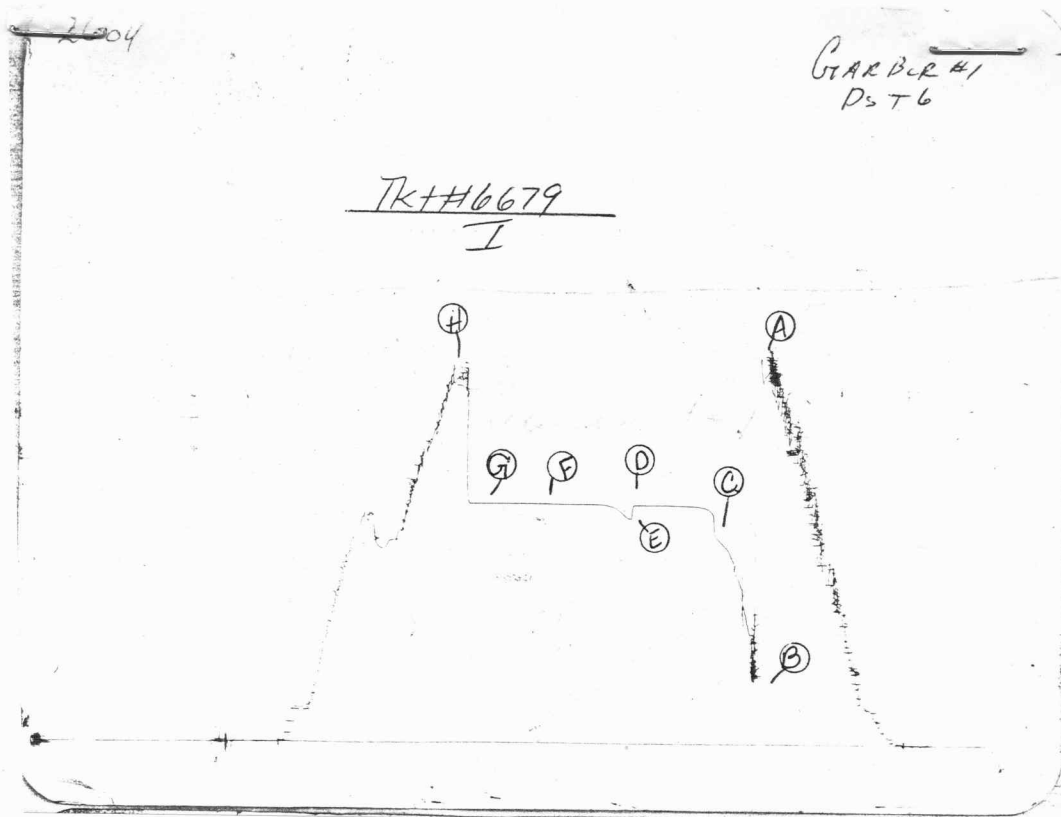
Pressure Data

Date 6/27/80 Test Ticket No. 6679
 Recorder No. 2604 Capacity - Location 3776 Ft.
 Clock No. -- Elevation - Well Temperature 124 °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	1989	P.S.I.	4:00P	M.
B First Initial Flow Pressure	354	P.S.I.	30	Mins.
C First Final Flow Pressure	1125	P.S.I.	60	Mins.
D Initial Closed-in Pressure	1291	P.S.I.	60	Mins.
E Second Initial Flow Pressure	1217	P.S.I.	60	Mins.
F Second Final Flow Pressure	1299	P.S.I.	60	Mins.
G Final Closed-in Pressure	1300	P.S.I.		
H Final Hydrostatic Mud	1968	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>12</u> Inc.		Breakdown: <u>20</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>354</u>	<u>0</u>	<u>1125</u>	<u>0</u>	<u>1217</u>	<u>0</u>	<u>1299</u>
P 2 <u>5</u>	<u>646</u>	<u>3</u>	<u>1261</u>	<u>5</u>	<u>1232</u>	<u>3</u>	<u>1299</u>
P 3 <u>10</u>	<u>847</u>	<u>6</u>	<u>1275</u>	<u>10</u>	<u>1265</u>	<u>6</u>	<u>1299</u>
P 4 <u>15</u>	<u>966</u>	<u>9</u>	<u>1282</u>	<u>15</u>	<u>1284</u>	<u>9</u>	<u>1299</u>
P 5 <u>20</u>	<u>1039</u>	<u>12</u>	<u>1283</u>	<u>20</u>	<u>1290</u>	<u>12</u>	<u>1299</u>
P 6 <u>25</u>	<u>1086</u>	<u>15</u>	<u>1286</u>	<u>25</u>	<u>1294</u>	<u>15</u>	<u>1299</u>
P 7 <u>30</u>	<u>1125</u>	<u>18</u>	<u>1288</u>	<u>30</u>	<u>1296</u>	<u>18</u>	<u>1299</u>
P 8		<u>21</u>	<u>1289</u>	<u>35</u>	<u>1296</u>	<u>21</u>	<u>1299</u>
P 9		<u>24</u>	<u>1290</u>	<u>40</u>	<u>1296</u>	<u>24</u>	<u>1299</u>
P10		<u>27</u>	<u>1290</u>	<u>45</u>	<u>1296</u>	<u>27</u>	<u>1299</u>
P11		<u>30</u>	<u>1291</u>	<u>50</u>	<u>1297</u>	<u>30</u>	<u>1299</u>
P12		<u>33</u>	<u>1291</u>	<u>55</u>	<u>1298</u>	<u>33</u>	<u>1299</u>
P13		<u>36</u>	<u>1291</u>	<u>60</u>	<u>1299</u>	<u>36</u>	<u>1300</u>
P14		<u>39</u>	<u>1291</u>			<u>39</u>	<u>1300</u>
P15		<u>42</u>	<u>1291</u>			<u>42</u>	<u>1300</u>
P16		<u>45</u>	<u>1291</u>			<u>45</u>	<u>1300</u>
P17		<u>48</u>	<u>1291</u>			<u>48</u>	<u>1300</u>
P18		<u>51</u>	<u>1291</u>			<u>51</u>	<u>1300</u>
P19		<u>54</u>	<u>1291</u>			<u>54</u>	<u>1300</u>
P20		<u>57</u>	<u>1291</u>			<u>57</u>	<u>1300</u>
		<u>60</u>	<u>1291</u>			<u>60</u>	<u>1300</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	1968	1989	PSI
(B) First Initial Flow Pressure	341	354	PSI
(C) First Final Flow Pressure	1098	1125	PSI
(D) Initial Closed-in Pressure	1286	1291	PSI
(E) Second Initial Flow Pressure	1223	1217	PSI
(F) Second Final Flow Pressure	1286	1299	PSI
(G) Final Closed-in Pressure	1286	1300	PSI
(H) Final Hydrostatic Mud	1957	1968	PSI



Home Office: Wichita, Kansas 67201

Company South Ranch Oil Company, Inc. P.O. Box 1599 (316) 262-5861 Lease & Well No. Garber #1

Elevation ----- Formation Viola Effective Pay ----- Ft. Ticket No. 5439

Date 6/29/80 Sec. 18 Twp. 26S Range 6W County Reno State Kansas

Test Approved by Milton E. Boler Western Representative Stuart Stover

Formation Test No. 7 Interval Tested from 4053 ft. to 4065 ft. Total Depth 4065 ft.

Packer Depth 4048 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Packer Depth 4053 ft. Size 6 3/4 in. Packer Depth - ft. Size - in.

Depth of Selective Zone Set -

Top Recorder Depth (Inside) 4058 ft. Recorder Number 11018 Cap. 4425

Bottom Recorder Depth (Outside) 4061 ft. Recorder Number 11019 Cap. 4500

Below Straddle Recorder Depth - ft. Recorder Number - Cap. -

Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length 420 I. D. 2 1/4 in.

Mud Type - Viscosity - Weight Pipe Length - I. D. - in.

Weight - Water Loss - cc. Drill Pipe Length 3193 I. D. 4.0 in.

Chlorides - P.P.M. Test Tool Length 26 ft. Tool Size 3 1/2 in.

Jars: Make WIC Serial Number 3660 Anchor Length 12 ft. Size 4 1/2 in.

Did Well Flow? - Reversed Out - Surface Choke Size 1/2 in. Bottom Choke Size 1/2 in.

Main Hole Size 7 7/8 in. Tool Joint Size 4 1/2 in.

Blow: Very weak; died in twenty minutes; flushed tool on second flow, no help.

Recovered 5 ft. of drilling mud

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 6:00 A.M. P.M. Time Started Off Bottom 7:55 A.M. P.M. Maximum Temperature ?

Initial Hydrostatic Pressure (A) 2147 P.S.I.

Initial Flow Period Minutes 30 (B) 52 P.S.I. to (C) 47 P.S.I.

Initial Closed In Period Minutes 60 (D) 1308 P.S.I.

Final Flow Period Minutes 10 (E) 89 P.S.I. to (F) 73 P.S.I.

Final Closed In Period Minutes 15 (G) 1020 P.S.I.

Final Hydrostatic Pressure (H) 2141 P.S.I.

WESTERN TESTING CO., INC.

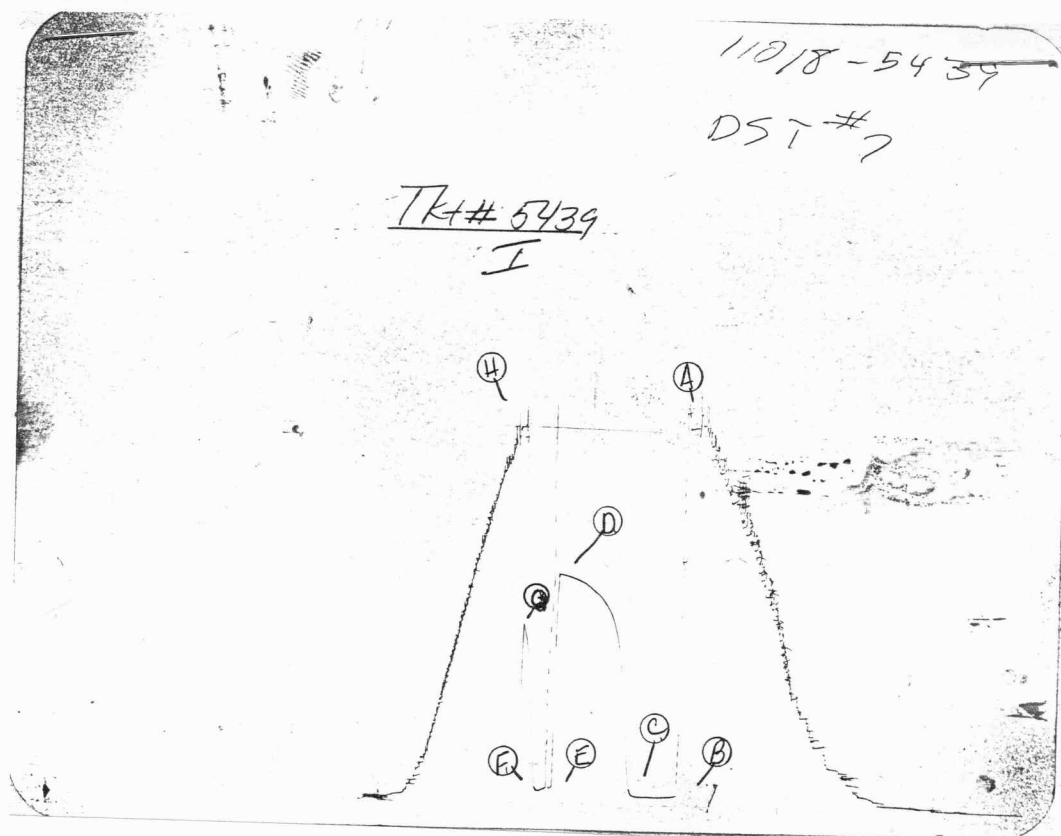
Pressure Data

Date 6/29/80 Test Ticket No. 5439
 Recorder No. 11018 Capacity 4425 Location 4058 Ft.
 Clock No. - Elevation - Well Temperature - °F

Point	Pressure		Time Given	Time Computed
A Initial Hydrostatic Mud	<u>2147</u>	P.S.I.	<u>6:00A</u>	<u>M</u>
B First Initial Flow Pressure	<u>52</u>	P.S.I.	<u>30</u>	<u>Mins.</u>
C First Final Flow Pressure	<u>47</u>	P.S.I.	<u>60</u>	<u>Mins.</u>
D Initial Closed-in Pressure	<u>1308</u>	P.S.I.	<u>10</u>	<u>Mins.</u>
E Second Initial Flow Pressure	<u>89</u>	P.S.I.	<u>15</u>	<u>Mins.</u>
F Second Final Flow Pressure	<u>73</u>	P.S.I.		
G Final Closed-in Pressure	<u>1020</u>	P.S.I.		
H Final Hydrostatic Mud	<u>2141</u>	P.S.I.		

PRESSURE BREAKDOWN

First Flow Pressure		Initial Shut-In		Second Flow Pressure		Final Shut-In	
Breakdown: <u>6</u> Inc.		Breakdown: <u>20</u> Inc.		Breakdown: <u>2</u> Inc.		Breakdown: <u>5</u> Inc.	
of <u>5</u> mins. and a		of <u>3</u> mins. and a		of <u>5</u> mins. and a		of <u>3</u> mins. and a	
final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.		final inc. of <u>0</u> Min.	
Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>52</u>	<u>0</u>	<u>47</u>	<u>0</u>	<u>89</u>	<u>0</u>	<u>73</u>
P 2 <u>5</u>	<u>49</u>	<u>3</u>	<u>84</u>	<u>5</u>	<u>82</u>	<u>3</u>	<u>91</u>
P 3 <u>10</u>	<u>45</u>	<u>6</u>	<u>300</u>	<u>10</u>	<u>73</u>	<u>6</u>	<u>360</u>
P 4 <u>15</u>	<u>43</u>	<u>9</u>	<u>529</u>			<u>9</u>	<u>597</u>
P 5 <u>20</u>	<u>47</u>	<u>12</u>	<u>726</u>			<u>12</u>	<u>841</u>
P 6 <u>25</u>	<u>47</u>	<u>15</u>	<u>903</u>			<u>15</u>	<u>1020</u>
P 7 <u>30</u>	<u>47</u>	<u>18</u>	<u>998</u>				
P 8		<u>21</u>	<u>1070</u>				
P 9		<u>24</u>	<u>1119</u>				
P10		<u>27</u>	<u>1159</u>				
P11		<u>30</u>	<u>1187</u>				
P12		<u>33</u>	<u>1204</u>				
P13		<u>36</u>	<u>1224</u>				
P14		<u>39</u>	<u>1244</u>				
P15		<u>42</u>	<u>1262</u>				
P16		<u>45</u>	<u>1273</u>				
P17		<u>48</u>	<u>1280</u>				
P18		<u>51</u>	<u>1289</u>				
P19		<u>54</u>	<u>1297</u>				
P20		<u>57</u>	<u>1304</u>				
		<u>60</u>	<u>1308</u>				



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2155	2147	PSI
(B) First Initial Flow Pressure	55	52	PSI
(C) First Final Flow Pressure	55	47	PSI
(D) Initial Closed-in Pressure	1306	1308	PSI
(E) Second Initial Flow Pressure	88	89	PSI
(F) Second Final Flow Pressure	66	73	PSI
(G) Final Closed-in Pressure	1008	1020	PSI
(H) Final Hydrostatic Mud	2144	2141	PSI



Home Office: Wichita, Kansas 67201

P.O. Box 1599

(316) 262-5861

Company South Ranch Oil Company, Inc. Lease & Well No. Garber #1
Elevation ----- Formation Mississippi Effective Pay ----- Ft. Ticket No. 6162
Date 7/1/80 Sec. 18 Twp. 26S Range 6W County Reno State Kansas
Test Approved by Richard L. Fro---- Western Representative Jim Wondra
Formation Test No. 8 Interval Tested from 3723 ft. to 3743 ft. Total Depth 4230 ft.
Packer Depth 3718 ft. Size 6 3/4 in. Packer Depth 3743 ft. Size 6 3/4 in.
Packer Depth 3723 ft. Size 6 3/4 in. Packer Depth -- ft. Size - in.
Depth of Selective Zone Set -
Top Recorder Depth (Inside) 3730 ft. Recorder Number 2607 Cap. 4150
Bottom Recorder Depth (Outside) 3733 ft. Recorder Number 3351 Cap. 4000
Below Straddle Recorder Depth 4230 ft. Recorder Number - Cap. -
Drilling Contractor Rains & Williamson Drlg. Rig #3 Drill Collar Length - I. D. - in.
Mud Type salt-gel-starch Viscosity 46 Weight Pipe Length - I. D. - in.
Weight 9.8 Water Loss 11.0 cc. Drill Pipe Length 3714 I. D. 3.8 in.
Chlorides 69,000 P.P.M. Test Tool Length 29 ft. Tool Size 5 1/2 OD in.
Jars: Make WTC Serial Number 410 Anchor Length 487 ft. Size 5 1/2 OD in.
Did Well Flow? Yes Reversed Out - 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 throughout test. Gas to surface in seven minutes on second flow period.

See attached sheet for gas measurements.

Recovered 330 ft. of salt water

Recovered ft. of

Recovered ft. of

Recovered ft. of

Recovered ft. of

Remarks:

Time Set Packer(s) 4:55 ~~A.M.~~ P.M. Time Started Off Bottom 7:55 ~~A.M.~~ P.M. Maximum Temperature 119°
Initial Hydrostatic Pressure 2016 P.S.I.
Initial Flow Period 35 Minutes (B) 103 P.S.I. to (C) 112 P.S.I.
Initial Closed In Period 63 Minutes (D) 1232 P.S.I.
Final Flow Period 30 Minutes (E) 143 P.S.I. to (F) 169 P.S.I.
Final Closed In Period 66 Minutes (G) 1222 P.S.I.
Final Hydrostatic Pressure 1959 P.S.I. (H)



Home Office: Wichita, Kansas 67201

P.O. Box 1599 (316) 262-5861

GAS FLOW REPORT

7/1/80
Date Ticket 6162 Company South Ranch Oil Company, Inc.
Well Name and No. Garber #1 Dst No. 8 Interval Tested 3723'-3743'
County Reno State Kansas Sec. 18 Twp. 26S Rg. 6W

Time Gauge Pre-Flow	Time Gauge in Min.	P.S.I. on Merla Orifice Well Tester	P.S.I. on Pitot Tester	P.S.I. on Side Static Tester	P.S.I. on U-Tube Tester	Description of Flow
PRE FLOW						

Gas to surface in seven minutes.

SECOND FLOW

10 min.	7" of water	1/4" orifice	4,450 CFPD
20 min.	7" of water	1/4" orifice	4,450 CFPD
30 min.	5" of water	1/4" orifice	3,710 CFPD

GAS BOTTLE

Serial No. -- Date Bottle Filled --- Date to be Invoiced 7/1/80

Requisition and Provisions for high pressure stainless steel gas bottles. Western Testing Co., Inc. shall not be liable for damage of any kind to property or personnel of the one whom gas bottle is filled or for any loss suffered or sustained directly or indirectly through the use of these bottles. By signing of this ticket showing receipt of a gas testing bottle, the undersigned agrees for himself and as agent for operator, to return this bottle to Western Testing Co., Inc. within thirty (30) days free of charge, or be invoiced in the amount of \$75.00 (total charge). Should valve or seal plug be missing or damaged beyond repair, operator shall be invoiced for repairs at our invoiced price.

All charges subject to 1½% per month, equal to 18% interest per annum after 30 days from date of invoice. Any expense incurred for collection will be added to the original amount.

COMPANY'S NAME South Ranch Oil Company
Authorized by Richard L. Fro-----

WESTERN TESTING CO., INC.

Pressure Data

Date 7-1-80

Test Ticket No. 6162

Recorder No. 2607

Capacity 4150

Location 3730

Ft.

Clock No. --

Elevation --

Well Temperature 119

°F

Point

Pressure

Time
Given

Time
Computed

A Initial Hydrostatic Mud	<u>2016</u>	P.S.I.
B First Initial Flow Pressure	<u>103</u>	P.S.I.
C First Final Flow Pressure	<u>112</u>	P.S.I.
D Initial Closed-in Pressure	<u>1232</u>	P.S.I.
E Second Initial Flow Pressure	<u>143</u>	P.S.I.
F Second Final Flow Pressure	<u>169</u>	P.S.I.
G Final Closed-in Pressure	<u>1222</u>	P.S.I.
H Final Hydrostatic Mud	<u>1959</u>	P.S.I.

Open Tool

First Flow Pressure

Initial Closed-in Pressure

Second Flow Pressure

Final Closed-in Pressure

4:55 P. M

30 Mins. 35 Mins.

60 Mins. 63 Mins.

30 Mins. 30 Mins.

60 Mins. 66 Mins.

PRESSURE BREAKDOWN

First Flow Pressure

Breakdown: 7 Inc.
of 5 mins. and a
final inc. of 0 Min.

Initial Shut-In

Breakdown: 21 Inc.
of 3 mins. and a
final inc. of 0 Min.

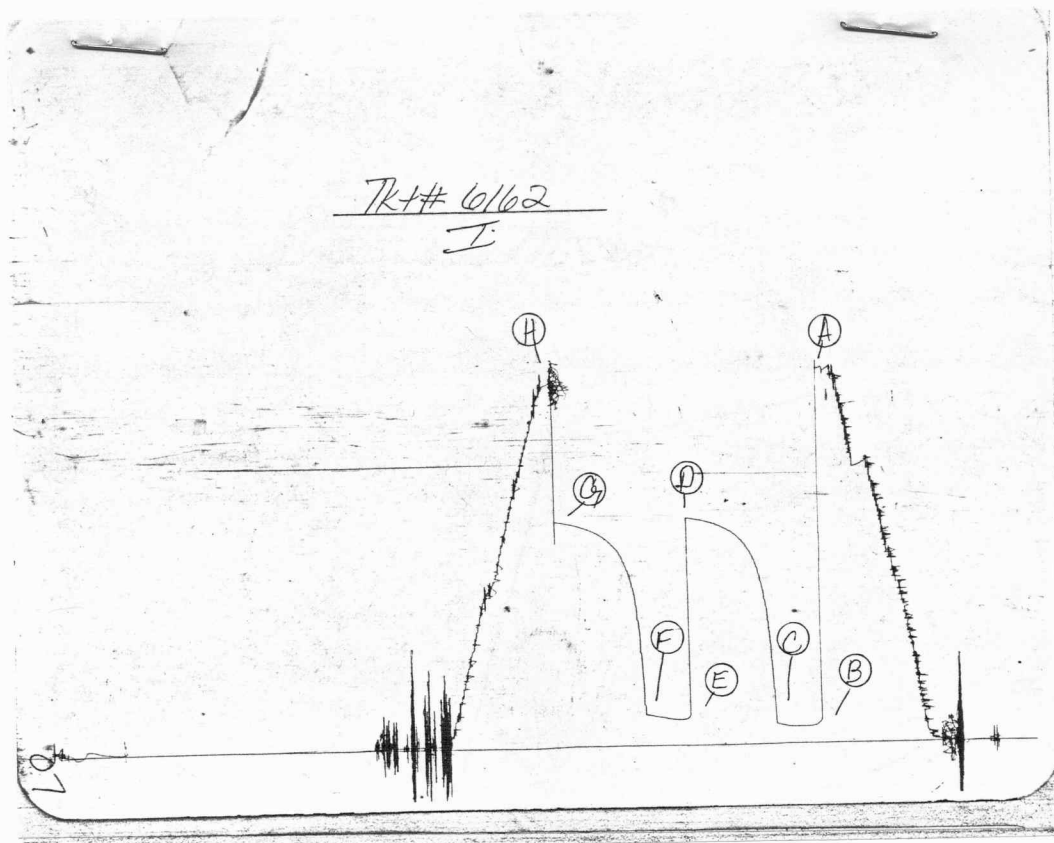
Second Flow Pressure

Breakdown: 6 Inc.
of 5 mins. and a
final inc. of 0 Min.

Final Shut-In

Breakdown: 22 Inc.
of 3 mins. and a
final inc. of 0 Min.

Point Mins.	Press.	Point Minutes	Press.	Point Minutes	Press.	Point Minutes	Press.
P 1 <u>0</u>	<u>103</u>	<u>0</u>	<u>112</u>	<u>0</u>	<u>143</u>	<u>0</u>	<u>169</u>
P 2 <u>5</u>	<u>99</u>	<u>3</u>	<u>451</u>	<u>5</u>	<u>140</u>	<u>3</u>	<u>510</u>
P 3 <u>10</u>	<u>96</u>	<u>6</u>	<u>664</u>	<u>10</u>	<u>143</u>	<u>6</u>	<u>703</u>
P 4 <u>15</u>	<u>96</u>	<u>9</u>	<u>818</u>	<u>15</u>	<u>150</u>	<u>9</u>	<u>859</u>
P 5 <u>20</u>	<u>96</u>	<u>12</u>	<u>912</u>	<u>20</u>	<u>155</u>	<u>12</u>	<u>939</u>
P 6 <u>25</u>	<u>99</u>	<u>15</u>	<u>985</u>	<u>25</u>	<u>162</u>	<u>15</u>	<u>989</u>
P 7 <u>30</u>	<u>107</u>	<u>18</u>	<u>1036</u>	<u>30</u>	<u>169</u>	<u>18</u>	<u>1037</u>
P 8 <u>35</u>	<u>112</u>	<u>21</u>	<u>1065</u>			<u>21</u>	<u>1072</u>
P 9		<u>24</u>	<u>1100</u>			<u>24</u>	<u>1094</u>
P10		<u>27</u>	<u>1125</u>			<u>27</u>	<u>1114</u>
P11		<u>30</u>	<u>1145</u>			<u>30</u>	<u>1133</u>
P12		<u>33</u>	<u>1163</u>			<u>33</u>	<u>1145</u>
P13		<u>36</u>	<u>1173</u>			<u>36</u>	<u>1161</u>
P14		<u>39</u>	<u>1183</u>			<u>39</u>	<u>1173</u>
P15		<u>42</u>	<u>1194</u>			<u>42</u>	<u>1183</u>
P16		<u>45</u>	<u>1202</u>			<u>45</u>	<u>1191</u>
P17		<u>48</u>	<u>1209</u>			<u>48</u>	<u>1197</u>
P18		<u>51</u>	<u>1215</u>			<u>51</u>	<u>1201</u>
P19		<u>54</u>	<u>1221</u>			<u>54</u>	<u>1206</u>
P20		<u>57</u>	<u>1225</u>			<u>57</u>	<u>1214</u>
		<u>60</u>	<u>1228</u>			<u>60</u>	<u>1219</u>
		<u>63</u>	<u>1232</u>			<u>63</u>	<u>1220</u>
						<u>66</u>	<u>1222</u>



This is an actual photograph of recorder chart.

POINT	PRESSURE		
	Field Reading	Office Reading	
(A) Initial Hydrostatic Mud	2035	2016	PSI
(B) First Initial Flow Pressure	95	103	PSI
(C) First Final Flow Pressure	116	112	PSI
(D) Initial Closed-in Pressure	1236	1232	PSI
(E) Second Initial Flow Pressure	126	143	PSI
(F) Second Final Flow Pressure	169	169	PSI
(G) Final Closed-in Pressure	1238	1222	PSI
(H) Final Hydrostatic Mud	2014	1959	PSI