

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Cabot Carbon Company			Lease H. L. Love			HOBBS OFFICE OCC 1959 JAN 27		Well No. 1	
Location of Well		Unit P	Sec 26	Twp 13-S	Rge 13-E	County Lea			
Name of Reservoir or Pool				Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)		Choke Size	
Upper Compl	Wolfcamp			Oil	Gas Lift	Tubing		Open	
Lower Compl	Devonian			Oil	Flow	Tubing		11/64"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 10:30 A. M. 1-20-59

Well opened at (hour, date): 10:30 A. M. 1-21-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		<u>X</u>
Pressure at beginning of test.....	<u>911</u>	<u>1065</u>
Stabilized? (Yes or No).....	<u>No</u>	<u>Yes</u>
Maximum pressure during test.....	<u>975</u>	<u>1065</u>
Minimum pressure during test.....	<u>911</u>	<u>903</u>
Pressure at conclusion of test.....	<u>975</u>	<u>903</u>
Pressure change during test (Maximum minus Minimum).....	<u>64</u>	<u>162</u>
Was pressure change an increase or a decrease?.....	<u>Increase</u>	<u>Decrease</u>
Well closed at (hour, date): <u>1:30 P. M. 1-21-59</u>	Total Time On Production <u>3 hours</u>	
Oil Production	Gas Production	
During Test: <u>33.00</u> bbls; Grav. <u>48.2°</u>	During Test <u>32.25</u> MCF; GOR <u>977</u>	

Remarks _____

FLOW TEST NO. 2

Well opened at (hour, date): 5:00 P. M. 1-21-59

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....	<u>X</u>	
Pressure at beginning of test.....	<u>1008</u>	<u>1057</u>
Stabilized? (Yes or No).....	<u>No</u>	<u>Yes</u>
Maximum pressure during test.....	<u>1008</u>	<u>1057</u>
Minimum pressure during test.....	<u>11</u>	<u>1022</u>
Pressure at conclusion of test.....	<u>11</u>	<u>1022</u>
Pressure change during test (Maximum minus Minimum).....	<u>995</u>	<u>35</u>
Was pressure change an increase or a decrease?.....	<u>Decrease</u>	<u>Decrease</u>
Well closed at (hour, date): <u>5:00 P. M. 1-22-59</u>	Total time on Production <u>24 hours</u>	
Oil Production	Gas Production	
During Test: <u>69.43</u> bbls; Grav. <u>37.39</u>	During Test <u>119</u> MCF; GOR <u>1720</u>	

Remarks All pressure readings shown on this form were taken with a Dead Weight Gauge.

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

Approved _____ 19
New Mexico Oil Conservation Commission

By [Signature]
Title _____

Operator Cabot Carbon Company

By Percy C. Quinn

Title Dist. Prod. Supt.

Date January 26, 1959

n

5. Following completion of 2 day test to determine if the unit shall again be shut-in, in accordance with Paragraph 4 above.

6. Flow Test No. 2 shall be conducted even though no leak was indicated during Flow Test No. 1. Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1 except that the previously produced zone shall remain open while the previously shut-in zone is produced.

7. All pressures, throughout the entire test, shall be continuously measured and recorded with recording pressure gauges, the accuracy of which must be checked with a deadweight tester at least twice, once at the beginning and once at the end, of each flow test.

8. The results of the above-described tests shall be filed in triplicate within 15 days after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission on Southeast New Mexico Packer Leakage Test Form Revised 11-1-58, together with the original pressure recording gauge charts with all the deadweight pressures which were taken indicated thereon. In lieu of filing the addressa charts, the operator may construct a pressure versus time curve for each gauge at each test, indicating thereon all pressure changes which may be reflected by the gauge charts as well as all deadweight pressure readings which were taken. If the pressure curve is submitted, the original chart must be permanently filed in the operator's office. Form C-116 shall also accompany the Packer Leakage Test Form when the test period coincides with a gas-oil ratio test period.

1	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	90	91	92	93	94	95	96	97	98	99	100
1	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	90	91	92	93	94	95	96	97	98	99	100
1	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	90	91	92	93	94	95	96	97	98	99	100
1	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	90	91	92	93	94	95	96	97	98	99	100
1	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	90	91	92	93	94	95	96	97	98	99	100
1	2	3	4	5	6	7	8	9	10	11	12	13</																																																																																							

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator Cabot Carbon Company			Lease H. L. Lowe "B"			Well No. 1	
Location Well	Unit P	Sec 26	Twp 13-S	Rge 37-E	County Lea		
Name of Reservoir or Pool			Type of Prod (Oil or Gas)	Method of Prod Flow, Art Lift	Prod. Medium (Tbg or Csg)	Choke Size	
Wolfcamp			Oil	Gas Lift	Tbg	Open	
Devonian			Oil	Flow	Tbg	12/64"	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 8:30 am 11-21-58

Well opened at (hour, date): 8:20 am 11-22-58

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....		<u>X</u>
Pressure at beginning of test.....	<u>506</u>	<u>1081</u>
Stabilized? (Yes or No).....	<u>No</u>	<u>Yes</u>
Maximum pressure during test.....	<u>516</u>	<u>1081</u>
Minimum pressure during test.....	<u>506</u>	<u>857</u>
Pressure at conclusion of test.....	<u>516</u>	<u>857</u>
Pressure change during test (Maximum minus Minimum).....	<u>10</u>	<u>224</u>
Was pressure change an increase or a decrease?.....	<u>Increase</u>	<u>Decrease</u>
Well closed at (hour, date): <u>11:30 am 11-22-58</u>	Total Time On Production <u>3 Hours</u>	
Oil Production During Test: <u>31.74</u> bbls; Grav. <u>48.6</u> ;	Gas Production During Test <u>34.2</u> MCF; GOR <u>1076</u>	

Remarks _____

FLOW TEST NO. 2

Well opened at (hour, date): 3:15 pm 11-22-58

	Upper Completion	Lower Completion
Indicate by (X) the zone producing.....	<u>X</u>	
Pressure at beginning of test.....	<u>516</u>	<u>1041</u>
Stabilized? (Yes or No).....	<u>No</u>	<u>Yes</u>
Maximum pressure during test.....	<u>516</u>	<u>1053</u>
Minimum pressure during test.....	<u>26</u>	<u>1041</u>
Pressure at conclusion of test.....	<u>26</u>	<u>1053</u>
Pressure change during test (Maximum minus Minimum).....	<u>490</u>	<u>12</u>
Was pressure change an increase or a decrease?.....	<u>Decrease</u>	<u>Increase</u>
Well closed at (hour, date): <u>4:15 pm 1-23-58</u>	Total time on Production <u>24 Hours</u>	
Oil Production During Test: <u>30.60</u> bbls; Grav. <u>39</u> ;	Gas Production During Test <u>Net 42.6</u> MCF; GOR <u>1.403</u>	

Remarks All Pressure Readings Indicated on this Form were taken with a Dead Weight Gauge

I hereby certify that the information herein contained is true and complete to the best of my knowledge.

West Texas Engineering Service, Inc. For Operator Cabot Carbon Company

Approved 19
New Mexico Oil Conservation Commission

By R. W. Harrington

By [Signature]
Title _____

Title Field Petroleum Engineer
Date November 24, 1958

Procedure for Flow Test No. 2 is to be the same as for Flow Test No. 1, except that the previously produced zone shall be completely shut-in zone is produced.

of the test. The entire test shall be continuously performed under the recording pressure ranges. The accuracy of the test shall be checked with a least eight resistors at least twice once at the beginning and once at the end of each five test.

1. The test results and pressure recorded tests shall be filed in triplicate in a binder after completion of the test. Tests shall be filed with the appropriate District Office of the New Mexico Oil Conservation Commission. The binder shall use the Tanker Leakage Test Form Revised 11-1-58, and shall contain the original pressure recording gauge charts with all the data and test results indicated thereon. In lieu of having the original charts, the operator may conduct a pressure versus time test, and then, following the test, drawing between all pressure versus time curves and plotting the gauge charts as well as all dead-end pressure readings on a single curve. If the pressure curve is submitted, the original chart must be permanently filed in the operator's binder. The binder shall accompany the Tanker Leakage Test Form and be submitted to the District Office at the end of the test period.

DEVONIAN REEF

WELL LOG

WELL NO. 1

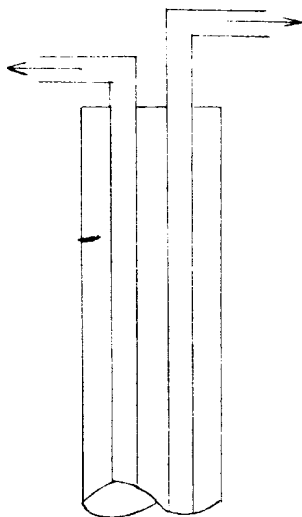
WELL DEPTH 12137'

WELL NO. 1, 12137', 12137'

WELL NO. 1, 12137'

WELL NO. 1, 12137'

WELL NO. 1, 12137'



Top of Cement 3145'

(Semo. Survey)

5 1/2" Casing

10" Tubing with Hydril "GB" Couplings

Circulating Valve

Landing Wingle

Upper Packer @ 10,162' - Baker Model "GB"

2" Hydril Type "A" Tubing

Wellbore Perforations
10,172'-10,173'

Tubing Externally Wrapped
with Fiber Glass

Lower Packer @ 10,193' -
Baker Model "D"

2" Hydril Type "A" Tubing

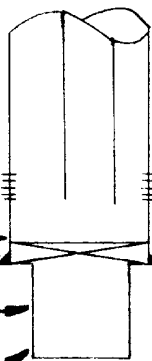
Devonian REEFs. 12277'-12307'

Top of Plug 12310'

5 1/2" Casing Seat 12320'

4-3/4" Hole

TOTAL DEPTH 12137'



NEW MEXICO OIL CONSERVATION COMMISSION
SANTA FE, NEW MEXICO

6-1-56

PACKER-SETTING AFFIDAVIT
(Dual Completions)

STATE OF Texas)
County of Midland) ss

Percy C. O'Quinn, being first duly sworn according to law, upon his oath deposes and says:

That he is of lawful age and has full knowledge of the facts herein below set out.

That he is employed by Cabot Carbon Company in the capacity of Dist. Prod. Supt. and as such is its authorized agent.

That on Sept. 10., 1958, he personally supervised the setting of a Baker Model "D" in Cabot Carbon Company's
(Make and Type of Packer) (Operator)

H. L. Iowa "B" Well No. 1, located in Unit
(lease)
Letter P, Section 26, Township 13-S, Range 37-E, NMPM,
Lee County, New Mexico.

That said packer was set at a subsurface depth of 10,198 feet,
said depth measurement having been furnished by Wire Line (Walex).

That the purpose of setting this packer was to effect a seal in the annular space between the two strings of pipe where the packer was set so as to prevent the commingling, within the well-bore, of fluids produced from a stratum below the packer with fluids produced from a stratum above the packer. That this packer was properly set and that it did, when set, effectively and absolutely seal off the annular space between the two strings of pipe where it was set in such manner as that it prevented any movement of fluids across the packer.

Cabot Carbon Company
(Company)

Percy C. O'Quinn
(its Agent)

Subscribed and sworn to before me this the 1st day of Dec., AD, 1958.

Anna Louise Adams
Notary Public in and for the County
of Midland.

My Commission Expires 6-1-59.