

## SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST

Operator SHELL OIL CO.				Lease LIVINGSTON		Well No. 3	
Location of Well	Unit W	Sec 3	Twp 21		Rge 37	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	BLINERY		OIL	FLOW	TBG	32/64	
Lower Compl	DRINKARD		OIL	FLOW	TBG	32/64	

FLOW TEST NO. 1

Both zones shut-in at (hour, date): 7:30 A.M. 1-3-57

		Upper	Lower
		Completion	Completion
Well opened at (hour, date):	7:30 1-4-77		

Indicate by ( X ) the zone producing.....

Pressure at beginning of test.....	360	415
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Stabilized? (Yes or No)..... Yes Yes

Maximum pressure during test.....	360	415
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Minimum pressure during test.....	360	115
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Pressure at conclusion of test.....	360	115
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Pressure change during test (Maximum minus Minimum)..... 300

Was pressure change an increase or a decrease?..... Decrease

Well closed at (hour, date): 7:30 A.M. 1-5-77 Production 25 MDS

	1950-1951	1951-1952	1952-1953	1953-1954	1954-1955	1955-1956	1956-1957	1957-1958	1958-1959	1959-1960	1960-1961	1961-1962	1962-1963	1963-1964	1964-1965	1965-1966	1966-1967	1967-1968	1968-1969	1969-1970	1970-1971	1971-1972	1972-1973	1973-1974	1974-1975	1975-1976	1976-1977	1977-1978	1978-1979	1979-1980	1980-1981	1981-1982	1982-1983	1983-1984	1984-1985	1985-1986	1986-1987	1987-1988	1988-1989	1989-1990	1990-1991	1991-1992	1992-1993	1993-1994	1994-1995	1995-1996	1996-1997	1997-1998	1998-1999	1999-2000	2000-2001	2001-2002	2002-2003	2003-2004	2004-2005	2005-2006	2006-2007	2007-2008	2008-2009	2009-2010	2010-2011	2011-2012	2012-2013	2013-2014	2014-2015	2015-2016	2016-2017	2017-2018	2018-2019	2019-2020	2020-2021	2021-2022	2022-2023	2023-2024	2024-2025	2025-2026	2026-2027	2027-2028	2028-2029	2029-2030	2030-2031	2031-2032	2032-2033	2033-2034	2034-2035	2035-2036	2036-2037	2037-2038	2038-2039	2039-2040	2040-2041	2041-2042	2042-2043	2043-2044	2044-2045	2045-2046	2046-2047	2047-2048	2048-2049	2049-2050	2050-2051	2051-2052	2052-2053	2053-2054	2054-2055	2055-2056	2056-2057	2057-2058	2058-2059	2059-2060	2060-2061	2061-2062	2062-2063	2063-2064	2064-2065	2065-2066	2066-2067	2067-2068	2068-2069	2069-2070	2070-2071	2071-2072	2072-2073	2073-2074	2074-2075	2075-2076	2076-2077	2077-2078	2078-2079	2079-2080	2080-2081	2081-2082	2082-2083	2083-2084	2084-2085	2085-2086	2086-2087	2087-2088	2088-2089	2089-2090	2090-2091	2091-2092	2092-2093	2093-2094	2094-2095	2095-2096	2096-2097	2097-2098	2098-2099	2099-2100	2100-2101	2101-2102	2102-2103	2103-2104	2104-2105	2105-2106	2106-2107	2107-2108	2108-2109	2109-2110	2110-2111	2111-2112	2112-2113	2113-2114	2114-2115	2115-2116	2116-2117	2117-2118	2118-2119	2119-2120	2120-2121	2121-2122	2122-2123	2123-2124	2124-2125	2125-2126	2126-2127	2127-2128	2128-2129	2129-2130	2130-2131	2131-2132	2132-2133	2133-2134	2134-2135	2135-2136	2136-2137	2137-2138	2138-2139	2139-2140	2140-2141	2141-2142	2142-2143	2143-2144	2144-2145	2145-2146	2146-2147	2147-2148	2148-2149	2149-2150	2150-2151	2151-2152	2152-2153	2153-2154	2154-2155	2155-2156	2156-2157	2157-2158	2158-2159	2159-2160	2160-2161	2161-2162	2162-2163	2163-2164	2164-2165	2165-2166	2166-2167	2167-2168	2168-2169	2169-2170	2170-2171	2171-2172	2172-2173	2173-2174	2174-2175	2175-2176	2176-2177	2177-2178	2178-2179	2179-2180	2180-2181	2181-2182	2182-2183	2183-2184	2184-2185	2185-2186	2186-2187	2187-2188	2188-2189	2189-2190	2190-2191	2191-2192	2192-2193	2193-2194	2194-2195	2195-2196	2196-2197	2197-2198	2198-2199	2199-2200	2200-2201	2201-2202	2202-2203	2203-2204	2204-2205	2205-2206	2206-2207	2207-2208	2208-2209	2209-2210	2210-2211	2211-2212	2212-2213	2213-2214	2214-2215	2215-2216	2216-2217	2217-2218	2218-2219	2219-2220	2220-2221	2221-2222
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During Test: 3 bbls; Grav. 34; During Test                      MCF; GOR                     

Remarks \_\_\_\_\_

FLOW TEST NO. 2

Well opened at (hour, date):	Upper Completion	Lower Completion
7:30 A.M. 1-6-77		

Indicate by ( X ) the zone producing.....

Pressure at beginning of test.....	370	420
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Stabilized? (Yes or No)..... Yes Yes

Maximum pressure during test.....	370	420
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Minimum pressure during test.....	75	420
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Pressure at conclusion of test.....	75	420
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Pressure change during test (Maximum minus Minimum)..... 205

Was pressure change an increase or a decrease?.....

		Total time on	<del>Decrease</del>
Well closed at (hour, date)	7:30 A.M. 1-7-77	Production	24 HRS.


	Oil Production	Gas Production	74 HRS.
1960	1,800,000	1,200,000	1,000,000
1961	1,850,000	1,250,000	1,050,000
1962	1,900,000	1,300,000	1,100,000
1963	1,950,000	1,350,000	1,150,000
1964	2,000,000	1,400,000	1,200,000
1965	2,050,000	1,450,000	1,250,000
1966	2,100,000	1,500,000	1,300,000
1967	2,150,000	1,550,000	1,350,000
1968	2,200,000	1,600,000	1,400,000
1969	2,250,000	1,650,000	1,450,000
1970	2,300,000	1,700,000	1,500,000
1971	2,350,000	1,750,000	1,550,000
1972	2,400,000	1,800,000	1,600,000
1973	2,450,000	1,850,000	1,650,000
1974	2,500,000	1,900,000	1,700,000
1975	2,550,000	1,950,000	1,750,000
1976	2,600,000	2,000,000	1,800,000
1977	2,650,000	2,050,000	1,850,000
1978	2,700,000	2,100,000	1,900,000
1979	2,750,000	2,150,000	1,950,000
1980	2,800,000	2,200,000	2,000,000
1981	2,850,000	2,250,000	2,050,000
1982	2,900,000	2,300,000	2,100,000
1983	2,950,000	2,350,000	2,150,000
1984	3,000,000	2,400,000	2,200,000
1985	3,050,000	2,450,000	2,250,000
1986	3,100,000	2,500,000	2,300,000
1987	3,150,000	2,550,000	2,350,000
1988	3,200,000	2,600,000	2,400,000
1989	3,250,000	2,650,000	2,450,000
1990	3,300,000	2,700,000	2,500,000
1991	3,350,000	2,750,000	2,550,000
1992	3,400,000	2,800,000	2,600,000
1993	3,450,000	2,850,000	2,650,000
1994	3,500,000	2,900,000	2,700,000
1995	3,550,000	2,950,000	2,750,000
1996	3,600,000	3,000,000	2,800,000
1997	3,650,000	3,050,000	2,850,000
1998	3,700,000	3,100,000	2,900,000
1999	3,750,000	3,150,000	2,950,000
2000	3,800,000	3,200,000	3,000,000
2001	3,850,000	3,250,000	3,050,000
2002	3,900,000	3,300,000	3,100,000
2003	3,950,000	3,350,000	3,150,000
2004	4,000,000	3,400,000	3,200,000
2005	4,050,000	3,450,000	3,250,000
2006	4,100,000	3,500,000	3,300,000
2007	4,150,000	3,550,000	3,350,000
2008	4,200,000	3,600,000	3,400,000
2009	4,250,000	3,650,000	3,450,000
2010	4,300,000	3,700,000	3,500,000
2011	4,350,000	3,750,000	3,550,000
2012	4,400,000	3,800,000	3,600,000
2013	4,450,000	3,850,000	3,650,000
2014	4,500,000	3,900,000	3,700,000
2015	4,550,000	3,950,000	3,750,000
2016	4,600,000	4,000,000	3,800,000
2017	4,650,000	4,050,000	3,850,000
2018	4,700,000	4,100,000	3,900,000
2019	4,750,000	4,150,000	3,950,000
2020	4,800,000	4,200,000	4,000,000
2021	4,850,000	4,250,000	4,050,000
2022	4,900,000	4,300,000	4,100,000
2023	4,950,000	4,350,000	4,150,000
2024	5,000,000	4,400,000	4,200,000
2025	5,050,000	4,450,000	4,250,000
2026	5,100,000	4,500,000	4,300,000
2027	5,150,000	4,550,000	4,350,000
2028	5,200,000	4,600,000	4,400,000
2029	5,250,000	4,650,000	4,450,000
2030	5,300,000	4,700,000	4,500,000

During Test: 10 bbls; Grav. 37; During Test \_\_\_\_\_ MCF; GOR \_\_\_\_\_

Remarks \_\_\_\_\_

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

Approved \_\_\_\_\_ 1977 19 \_\_\_\_\_ operator SHELL OIL CO.

New Mexico Oil Conservation Commission By  M. J. ADAMS

Orig. Signed by \_\_\_\_\_

14-1 James S. [illegible] Title SUPERVISOR OIL ACCTG.

Title \_\_\_\_\_ Date 1-24-77

SOUTHEAST NEW MEXICO PACKER LEAKAGE TEST INSTRUCTIONS

1. A packer leakage test shall be commenced on each multiply completed well within seven days after actual completion of the well, and annually thereafter as prescribed by the order authorizing the multiple completion. Such tests shall also be commenced on all multiple completions within seven days following recompletion and/or chemical or fracture treatment, and whenever remedial work has been done on a well during which the packer or the tubing have been disturbed. Tests shall also be taken at any time that communication is suspected or when requested by the Commission.
2. At least 72 hours prior to the commencement of any packer leakage test, the operator shall notify the Commission in writing of the exact time the test is to be commenced. Offset operators shall also be so notified.
3. The packer leakage test shall commence when both zones of the dual completion are shut-in for pressure stabilization. Both zones shall remain shut-in until the well-head pressure in each has stabilized and for a minimum of two hours thereafter, provided however, that they need not remain shut-in more than 24 hours.
4. For Flow Test No. 1, one zone of the dual completion shall be produced at the normal rate of production while the other zone remains shut-in. Such test shall be continued until the flowing wellhead pressure has become stabilized and for a minimum of two hours thereafter, provided however, that the flow test need not continue for more than 24 hours.

5. Following completion of Flow Test No. 1, the well shall again be shut-in, in accordance with Paragraph 3 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 shut-in 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 aforesaid charts, the operator may construct a pressure versus time curve for each zone of 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.

FILED

JAN 20 1977

OIL CONSERVATION COMM.  
HOBBS, N. M.