District I - (505) 393-6161
P.O. Box 1980
Hobbs, NM 88241-1980
District II - (505) 748-1283
811 S First
Artesia, NM 88210
District III - (505) 334-6178
1000 Rio Brazos Road
Aztec, NM 87410
District IV

New Mexico
Energy Minerals and Natural Resources Department
Oil Conservation Division
2040 South Pacheco Street
Santa Fe, New Mexico 87505
(505) 827-7131

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District Offic

H-0527

APPLICATION FOR QUALIFICATION OF WELL WORKOVER PROJECT AND CERTIFICATION OF APPROVAL

THREE COPIES OF THIS APPLICATION AND ALL ATTACHMENTS MUST BE FILED WITH THE APPROPRIATE DISTRICT OFFICE OF THE OIL CONSERVATION DIVISION.

I. Operator: Conoco Inc. OGRID #: 005073

Address: 10 Desta Dr., Ste. 100 W., Midland, TX 79705

Contact Party: Sherry A. Cooper Phone: 915-686-6183

II. Name of Well: Lockhart A-27 #6 API #: 3002506804
Location of Well: Unit Letter B, 660' Feet from the FNL line and 1980' feet from the FEL line.
Section 27, Township 21S, Range 37E, NMPM, Lea County

III. Date Workover Procedures Commenced: 2-5-98
Date Workover Procedures were Completed: 2-10-98

IV. Attach a description of the Workover Procedures undertaken to increase the projection from the Well.

V. Attach an estimate of the production rate of the Well (a production decline curve or other acceptable method, and table showing monthly oil and/or gas Project Production) based on at least twelve (12) months of established production which shows the future rate of production based on well performance prior to performing Workover.

VI. Pool(s) on which Production Projection is based:

Paddock

VII. AFFIDAVIT:

State of Texas)
) ss.
County of Midland)

Sherry A. Cooper, being first duly sworn, upon oath states:

1. I am the Operator or authorized representative of the Operator of the above referenced Well.

2. I have made, or caused to be made, a diligent search of the production records which are reasonably available and contain information relevant to the production history of this Well.

3. To the best of my knowledge, the data used to prepare the Production Projection for this Well is complete and accurate and this projection was prepared using sound petroleum engineering principles.

Sherry A. Cooper
(Name)

Sr. Staff Financial Assistant
(Title)

SUBSCRIBED AND SWORN TO before me this 1st day of FEBRUARY, 1999.

Loree A. Clay

Notary Public

My Commission expires: July 2, 2000

LOREE A. CLAY
NOTARY PUBLIC
STATE OF TEXAS
My Comm. Exp. July 2, 2000

FOR OIL CONSERVATION DIVISION USE ONLY:

VIII. CERTIFICATION OF APPROVAL:

This Application for Qualification of Well Workover Project is hereby approved and the above referenced Well is designated as a Well Workover Project pursuant to the "Natural Gas and Crude Oil Production Incentive Act" (Laws 1995, Chapter 15, Sections 1 through 8). The Oil Conservation Division hereby verifies the Production Projection for the Well Workover Project attached to this application. By copy of this Application and Certification of Approval, the Division notifies the Secretary of the Taxation and Revenue Department of this Approval and certifies that this Well Workover Project has been completed as of 2-10, 1998

District Supervisor, District 1
Oil Conservation Division

Date: 2/3/99

IX. DATE OF NOTIFICATION TO THE SECRETARY OF THE TAXATION AND REVENUE DEPARTMENT.

DATE: _____

DAILY WELL SERVICING REPORT

LEASE/WELL	LOCKHART A-27 #6
JOB DESCRIPTION	REACCESS PADDOCK "A"
AFE/MER#	MER-2127
AUTHORIZED COST	$ 34,000
FORMATION	PADDOCK
TD/PBTD	6570'/5290'
CASING.	7" 23# @6569'
SUPERVISOR:	SHARP

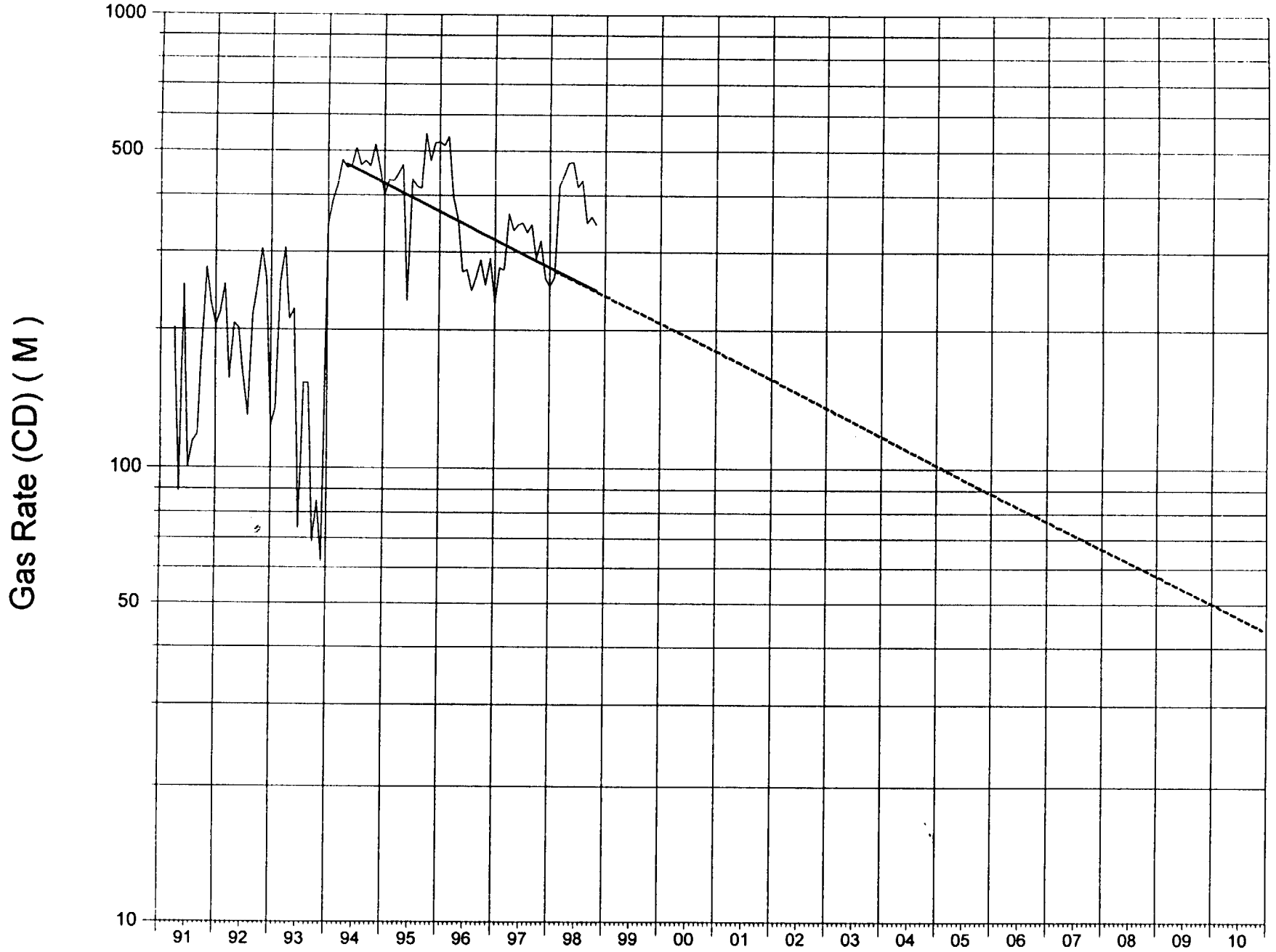
2/5/98
MIRU. UNSEATED PUMP. HOY OILED TBG & RODS W/ 40BBL. LEASE CRUDE. POOH W/ PUMP. NUBOP. POOH W/ TBG. SION.
DAILY $2300
CTD $2300

2/6/98
PERFORATED PADDOCK 2SPF @ 5102-07, 5120-36. RIH W/ RBP, PKR & SPOT CONTROL VALVE. SET RBP @ 5260'. PKR @ 5145'. SPOTTED 300 GAL. GYPSOL-2. FISHED SPOT VALVE. SIOWE.
DAILY $5350
CTD $7650

2/9/98
SITP-800PSI. OPENED TO TANK. FLOWED BACK +- 10BBL. RIH W/ SWAB. F/L SCATTERED. RECOVERED 21 BBL. TOTAL. GOOD GAS FLOW. ACIDIZED PADDOCK B ZONE W/ 500 GAL. 15% NEFE HCL. FOLLOWED BY SCALE SQUEEZE. ISIP-VACUUM. RELEASED PKR. RIH & ENGAGED & RELEASED RBP. PU & RESET RBP @5145'. SET PKR @5113'. BROKEDOWN LOWER PADDOCK A PERFS 2300 PSI. PERFS APPEARED TO COMMUNICATE. RESET PKR @ 4950'. ACIDIZED PADDOCK A ZONE W/ 1000 GAL. 15% NEFE HCL & 80 1.3 BALL SEALERS @3-4 BPM. AIP-1200 PSI, MIP-2450. FAIR BALL ACTION. ISIP-VACUUM. RELEASED PKR. RIH & ENGAGED & RELEASED RBP. PULLED TOOLS ABOVE PERFS. SION.
DAILY $9765
CTD $17,415

2/10/98
POOH W/ TOOLS. RIH W/ PROD. TBG. NDBOP. NUWH. SION DUE TO WIND.
DAILY $2500
CTD $19,915

LOCKHART A 27 6:PD



LOCKHART_A_27_6:PD

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf	
Schedule: # 1						
1998/ 2	270.48	273.03	7.64	771.3	583.5	# 1
1998/ 3	267.31	267.96	8.31	779.6	575.2	# 1
1998/ 4	264.16	266.02	7.98	787.6	567.2	# 1
1998/ 5	261.05	262.32	8.13	795.7	559.0	# 1
1998/ 6	257.98	259.79	7.79	803.5	551.3	# 1
1998/ 7	254.95	256.18	7.94	811.4	543.3	# 1
1998/ 8	251.95	253.44	7.86	819.3	535.5	# 1
1998/ 9	248.98	250.73	7.52	826.8	527.9	# 1
1998/10	246.05	247.25	7.66	834.5	520.3	# 1
1998/11	243.16	244.87	7.35	841.8	512.9	# 1
1998/12	240.30	241.46	7.49	849.3	505.4	# 1
1999/ 1	237.47	238.88	7.41	856.7	498.0	# 1
1999/ 2	234.67	236.88	6.63	863.4	491.4	# 1
1999/ 3	231.92	232.48	7.21	870.6	484.2	# 1
1999/ 4	229.18	230.80	6.92	877.5	477.3	# 1
1999/ 5	226.49	227.59	7.06	884.5	470.2	# 1
1999/ 6	223.82	225.40	6.76	891.3	463.5	# 1
1999/ 7	221.19	222.27	6.89	898.2	456.6	# 1
1999/ 8	218.59	219.89	6.82	905.0	449.7	# 1
1999/ 9	216.02	217.53	6.53	911.5	443.2	# 1
1999/10	213.48	214.51	6.65	918.2	436.6	# 1
1999/11	210.96	212.45	6.37	924.6	430.2	# 1
1999/12	208.48	209.49	6.49	931.1	423.7	# 1
2000/ 1	206.03	207.25	6.42	937.5	417.3	# 1
2000/ 2	203.60	205.27	5.95	943.4	411.3	# 1
2000/ 3	201.21	201.95	6.26	949.7	405.1	# 1
2000/ 4	198.84	200.24	6.01	955.7	399.1	# 1
2000/ 5	196.50	197.46	6.12	961.8	392.9	# 1
2000/ 6	194.19	195.55	5.87	967.7	387.1	# 1
2000/ 7	191.91	192.84	5.98	973.7	381.1	# 1
2000/ 8	189.65	190.78	5.91	979.6	375.2	# 1
2000/ 9	187.41	188.73	5.66	985.2	369.5	# 1
2000/10	185.21	186.11	5.77	991.0	363.7	# 1
2000/11	183.03	184.32	5.53	996.5	358.2	# 1
2000/12	180.88	181.76	5.63	1002.2	352.6	# 1
2001/ 1	178.75	179.81	5.57	1007.7	347.0	# 1
2001/ 2	176.64	178.31	4.99	1012.7	342.0	# 1
2001/ 3	174.57	175.00	5.42	1018.2	336.6	# 1
2001/ 4	172.51	173.73	5.21	1023.4	331.4	# 1
2001/ 5	170.49	171.31	5.31	1028.7	326.1	# 1
2001/ 6	168.48	169.66	5.09	1033.8	321.0	# 1
2001/ 7	166.50	167.31	5.19	1039.0	315.8	# 1
2001/ 8	164.54	165.52	5.13	1044.1	310.7	# 1
2001/ 9	162.60	163.74	4.91	1049.0	305.7	# 1
2001/10	160.69	161.47	5.01	1054.0	300.7	# 1
2001/11	158.80	159.91	4.80	1058.8	295.9	# 1
2001/12	156.93	157.69	4.89	1063.7	291.1	# 1
2002/ 1	155.08	156.01	4.84	1068.5	286.2	# 1
2002/ 2	153.25	154.70	4.33	1072.9	281.9	# 1
2002/ 3	151.46	151.83	4.71	1077.6	277.2	# 1
2002/ 4	149.67	150.73	4.52	1082.1	272.7	# 1
2002/ 5	147.91	148.63	4.61	1086.7	268.1	# 1
2002/ 6	146.17	147.20	4.42	1091.1	263.6	# 1

LOCKHART_A_27_6:PD

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf		
2002/ 7	144.45	145.15	4.50	1095.6	259.1	#	1
2002/ 8	142.75	143.60	4.45	1100.1	254.7	#	1
2002/ 9	141.07	142.07	4.26	1104.3	250.4	#	1
2002/10	139.41	140.09	4.34	1108.7	246.1	#	1
2002/11	137.77	138.74	4.16	1112.8	241.9	#	1
2002/12	136.15	136.81	4.24	1117.1	237.7	#	1
2003/ 1	134.55	135.35	4.20	1121.3	233.5	#	1
2003/ 2	132.96	134.22	3.76	1125.0	229.7	#	1
2003/ 3	131.40	131.72	4.08	1129.1	225.6	#	1
2003/ 4	129.86	130.77	3.92	1133.0	221.7	#	1
2003/ 5	128.33	128.95	4.00	1137.0	217.7	#	1
2003/ 6	126.82	127.71	3.83	1140.9	213.9	#	1
2003/ 7	125.33	125.94	3.90	1144.8	210.0	#	1
2003/ 8	123.85	124.59	3.86	1148.6	206.1	#	1
2003/ 9	122.39	123.26	3.70	1152.3	202.4	#	1
2003/10	120.96	121.54	3.77	1156.1	198.7	#	1
2003/11	119.53	120.37	3.61	1159.7	195.0	#	1
2003/12	118.13	118.70	3.68	1163.4	191.4	#	1
2004/ 1	116.74	117.43	3.64	1167.0	187.7	#	1
2004/ 2	115.36	116.31	3.37	1170.4	184.4	#	1
2004/ 3	114.01	114.43	3.55	1173.9	180.8	#	1
2004/ 4	112.66	113.46	3.40	1177.4	177.4	#	1
2004/ 5	111.34	111.88	3.47	1180.8	173.9	#	1
2004/ 6	110.03	110.80	3.32	1184.1	170.6	#	1
2004/ 7	108.73	109.26	3.39	1187.5	167.2	#	1
2004/ 8	107.46	108.09	3.35	1190.9	163.9	#	1
2004/ 9	106.19	106.94	3.21	1194.1	160.7	#	1
2004/10	104.94	105.45	3.27	1197.4	157.4	#	1
2004/11	103.71	104.44	3.13	1200.5	154.3	#	1
2004/12	102.49	102.98	3.19	1203.7	151.1	#	1
2005/ 1	101.28	101.88	3.16	1206.8	147.9	#	1
2005/ 2	100.09	101.03	2.83	1209.7	145.1	#	1
2005/ 3	98.91	99.15	3.07	1212.7	142.0	#	1
2005/ 4	97.75	98.43	2.95	1215.7	139.1	#	1
2005/ 5	96.60	97.07	3.01	1218.7	136.0	#	1
2005/ 6	95.46	96.13	2.88	1221.6	133.2	#	1
2005/ 7	94.34	94.80	2.94	1224.5	130.2	#	1
2005/ 8	93.23	93.78	2.91	1227.4	127.3	#	1
2005/ 9	92.13	92.78	2.78	1230.2	124.5	#	1
2005/10	91.05	91.49	2.84	1233.1	121.7	#	1
2005/11	89.97	90.61	2.72	1235.8	119.0	#	1
2005/12	88.92	89.35	2.77	1238.5	116.2	#	1
2006/ 1	87.87	88.39	2.74	1241.3	113.5	#	1
2006/ 2	86.83	87.65	2.45	1243.7	111.0	#	1
2006/ 3	85.82	86.02	2.67	1246.4	108.3	#	1
2006/ 4	84.80	85.40	2.56	1249.0	105.8	#	1
2006/ 5	83.81	84.21	2.61	1251.6	103.2	#	1
2006/ 6	82.82	83.40	2.50	1254.1	100.7	#	1
2006/ 7	81.85	82.24	2.55	1256.6	98.1	#	1
2006/ 8	80.88	81.37	2.52	1259.2	95.6	#	1
2006/ 9	79.93	80.49	2.41	1261.6	93.2	#	1
2006/10	78.99	79.38	2.46	1264.0	90.7	#	1
2006/11	78.06	78.61	2.36	1266.4	88.4	#	1
2006/12	77.14	77.52	2.40	1268.8	86.0	#	1

LOCKHART_A_27_6:PD

End of DATE	Instant Rate Mscf/d	Average Rate Mscf/d	Monthly Volume MMscf	Cumulative Volume MMscf	Remaining Reserves MMscf	
2007/ 1	76.24	76.69	2.38	1271.2	83.6	# 1
2007/ 2	75.34	76.05	2.13	1273.3	81.5	# 1
2007/ 3	74.45	74.64	2.31	1275.6	79.1	# 1
2007/ 4	73.58	74.09	2.22	1277.8	76.9	# 1
2007/ 5	72.71	73.06	2.26	1280.1	74.7	# 1
2007/ 6	71.86	72.36	2.17	1282.3	72.5	# 1
2007/ 7	71.01	71.36	2.21	1284.5	70.3	# 1
2007/ 8	70.18	70.59	2.19	1286.7	68.1	# 1
2007/ 9	69.35	69.84	2.10	1288.8	66.0	# 1
2007/10	68.53	68.87	2.13	1290.9	63.9	# 1
2007/11	67.73	68.20	2.05	1292.9	61.8	# 1
2007/12	66.93	67.26	2.08	1295.0	59.7	# 1
2008/ 1	66.14	66.54	2.06	1297.1	57.7	# 1
2008/ 2	65.36	65.90	1.91	1299.0	55.7	# 1
2008/ 3	64.60	64.83	2.01	1301.0	53.7	# 1
2008/ 4	63.84	64.28	1.93	1302.9	51.8	# 1
2008/ 5	63.08	63.39	1.97	1304.9	49.8	# 1
2008/ 6	62.34	62.78	1.88	1306.8	48.0	# 1
2008/ 7	61.61	61.91	1.92	1308.7	46.0	# 1
2008/ 8	60.88	61.25	1.90	1310.6	44.1	# 1
2008/ 9	60.17	60.59	1.82	1312.4	42.3	# 1
2008/10	59.46	59.75	1.85	1314.3	40.5	# 1
2008/11	58.76	59.17	1.78	1316.1	38.7	# 1
2008/12	58.07	58.35	1.81	1317.9	36.9	# 1
2009/ 1	57.39	57.73	1.79	1319.7	35.1	# 1
2009/ 2	56.71	57.24	1.60	1321.3	33.5	# 1
2009/ 3	56.04	56.18	1.74	1323.0	31.8	# 1
2009/ 4	55.38	55.77	1.67	1324.7	30.1	# 1
2009/ 5	54.73	55.00	1.70	1326.4	28.4	# 1
2009/ 6	54.09	54.47	1.63	1328.0	26.7	# 1
2009/ 7	53.45	53.71	1.67	1329.7	25.1	# 1
2009/ 8	52.82	53.14	1.65	1331.3	23.4	# 1
2009/ 9	52.20	52.57	1.58	1332.9	21.9	# 1
2009/10	51.59	51.84	1.61	1334.5	20.2	# 1
2009/11	50.98	51.34	1.54	1336.0	18.7	# 1
2009/12	50.38	50.62	1.57	1337.6	17.1	# 1
2010/ 1	49.79	50.08	1.55	1339.2	15.6	# 1
2010/ 2	49.20	49.66	1.39	1340.6	14.2	# 1
2010/ 3	48.62	48.74	1.51	1342.1	12.7	# 1
2010/ 4	48.05	48.39	1.45	1343.5	11.2	# 1
2010/ 5	47.49	47.72	1.48	1345.0	9.8	# 1
2010/ 6	46.93	47.26	1.42	1346.4	8.3	# 1
2010/ 7	46.38	46.60	1.44	1347.9	6.9	# 1
2010/ 8	45.83	46.10	1.43	1349.3	5.5	# 1
2010/ 9	45.29	45.61	1.37	1350.7	4.1	# 1
2010/10	44.76	44.97	1.39	1352.1	2.7	# 1
2010/11	44.23	44.54	1.34	1353.4	1.4	# 1
2010/12	43.71	43.92	1.36	1354.8	-0.0	# 1

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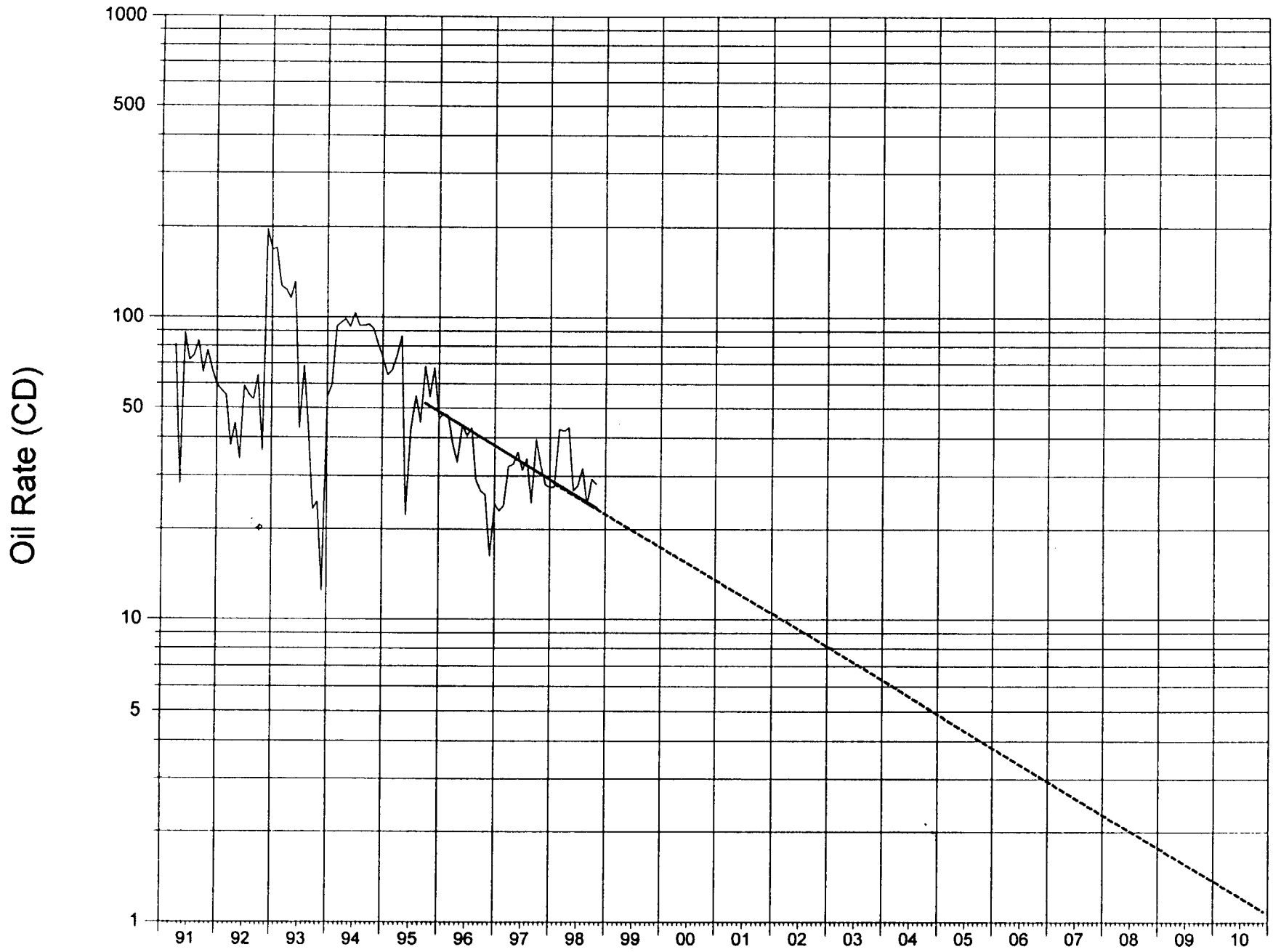

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End of DATE	Instant Rate bbls/d	Average Rate bbls/d	Monthly Volume Mbbls	Cumulative Volume Mbbls	Remaining Reserves Mbbls	
Schedule: # 1						
1998/ 2	28.01	28.41	0.80	154.9	38.8	# 1
1998/ 3	27.43	27.63	0.86	155.8	37.9	# 1
1998/ 4	26.85	27.17	0.82	156.6	37.1	# 1
1998/ 5	26.29	26.54	0.82	157.4	36.3	# 1
1998/ 6	25.74	26.04	0.78	158.2	35.5	# 1
1998/ 7	25.20	25.44	0.79	159.0	34.7	# 1
1998/ 8	24.68	24.94	0.77	159.8	33.9	# 1
1998/ 9	24.16	24.44	0.73	160.5	33.2	# 1
1998/10	23.65	23.88	0.74	161.3	32.5	# 1
1998/11	23.16	23.43	0.70	162.0	31.8	# 1
1998/12	22.67	22.89	0.71	162.7	31.0	# 1
1999/ 1	22.20	22.43	0.70	163.4	30.4	# 1
1999/ 2	21.73	22.04	0.62	164.0	29.7	# 1
1999/ 3	21.28	21.43	0.66	164.6	29.1	# 1
1999/ 4	20.83	21.08	0.63	165.3	28.4	# 1
1999/ 5	20.40	20.59	0.64	165.9	27.8	# 1
1999/ 6	19.97	20.20	0.61	166.5	27.2	# 1
1999/ 7	19.55	19.74	0.61	167.1	26.6	# 1
1999/ 8	19.14	19.35	0.60	167.7	26.0	# 1
1999/ 9	18.74	18.96	0.57	168.3	25.4	# 1
1999/10	18.35	18.52	0.57	168.9	24.8	# 1
1999/11	17.96	18.18	0.55	169.4	24.3	# 1
1999/12	17.59	17.76	0.55	170.0	23.7	# 1
2000/ 1	17.22	17.40	0.54	170.5	23.2	# 1
2000/ 2	16.86	17.08	0.50	171.0	22.7	# 1
2000/ 3	16.51	16.64	0.52	171.5	22.2	# 1
2000/ 4	16.16	16.35	0.49	172.0	21.7	# 1
2000/ 5	15.82	15.97	0.50	172.5	21.2	# 1
2000/ 6	15.49	15.67	0.47	173.0	20.7	# 1
2000/ 7	15.17	15.31	0.47	173.5	20.3	# 1
2000/ 8	14.85	15.01	0.47	173.9	19.8	# 1
2000/ 9	14.54	14.71	0.44	174.4	19.4	# 1
2000/10	14.23	14.37	0.45	174.8	18.9	# 1
2000/11	13.94	14.10	0.42	175.2	18.5	# 1
2000/12	13.64	13.77	0.43	175.7	18.1	# 1
2001/ 1	13.36	13.50	0.42	176.1	17.6	# 1
2001/ 2	13.08	13.26	0.37	176.4	17.3	# 1
2001/ 3	12.80	12.90	0.40	176.8	16.9	# 1
2001/ 4	12.54	12.68	0.38	177.2	16.5	# 1
2001/ 5	12.27	12.39	0.38	177.6	16.1	# 1
2001/ 6	12.02	12.16	0.36	178.0	15.7	# 1
2001/ 7	11.77	11.88	0.37	178.3	15.4	# 1
2001/ 8	11.52	11.64	0.36	178.7	15.0	# 1
2001/ 9	11.28	11.41	0.34	179.0	14.7	# 1
2001/10	11.04	11.15	0.35	179.4	14.3	# 1
2001/11	10.81	10.94	0.33	179.7	14.0	# 1
2001/12	10.58	10.68	0.33	180.1	13.7	# 1
2002/ 1	10.36	10.47	0.32	180.4	13.3	# 1
2002/ 2	10.14	10.29	0.29	180.7	13.1	# 1
2002/ 3	9.93	10.00	0.31	181.0	12.7	# 1
2002/ 4	9.72	9.84	0.30	181.3	12.4	# 1
2002/ 5	9.52	9.61	0.30	181.6	12.1	# 1
2002/ 6	9.32	9.43	0.28	181.9	11.9	# 1

OCKHART_A_27_6:PD

End of DATE	Instant Rate bbls/d	Average Rate bbls/d	Monthly Volume Mbbls	Cumulative Volume Mbbls	Remaining Reserves Mbbls	
002/ 7	9.13	9.21	0.29	182.1	11.6	# 1
002/ 8	8.94	9.03	0.28	182.4	11.3	# 1
002/ 9	8.75	8.85	0.27	182.7	11.0	# 1
002/10	8.57	8.65	0.27	183.0	10.8	# 1
002/11	8.39	8.48	0.25	183.2	10.5	# 1
002/12	8.21	8.29	0.26	183.5	10.3	# 1
003/ 1	8.04	8.12	0.25	183.7	10.0	# 1
003/ 2	7.87	7.98	0.22	183.9	9.8	# 1
003/ 3	7.71	7.76	0.24	184.2	9.5	# 1
003/ 4	7.54	7.63	0.23	184.4	9.3	# 1
003/ 5	7.39	7.46	0.23	184.6	9.1	# 1
003/ 6	7.23	7.32	0.22	184.9	8.9	# 1
003/ 7	7.08	7.15	0.22	185.1	8.6	# 1
003/ 8	6.93	7.01	0.22	185.3	8.4	# 1
003/ 9	6.79	6.87	0.21	185.5	8.2	# 1
003/10	6.64	6.71	0.21	185.7	8.0	# 1
003/11	6.51	6.58	0.20	185.9	7.8	# 1
003/12	6.37	6.43	0.20	186.1	7.6	# 1
004/ 1	6.24	6.30	0.20	186.3	7.4	# 1
004/ 2	6.10	6.18	0.18	186.5	7.2	# 1
004/ 3	5.98	6.03	0.19	186.7	7.0	# 1
004/ 4	5.85	5.92	0.18	186.8	6.9	# 1
004/ 5	5.73	5.78	0.18	187.0	6.7	# 1
004/ 6	5.61	5.68	0.17	187.2	6.5	# 1
004/ 7	5.49	5.54	0.17	187.4	6.4	# 1
004/ 8	5.38	5.43	0.17	187.5	6.2	# 1
004/ 9	5.26	5.33	0.16	187.7	6.0	# 1
004/10	5.15	5.20	0.16	187.9	5.9	# 1
004/11	5.05	5.11	0.15	188.0	5.7	# 1
004/12	4.94	4.99	0.15	188.2	5.6	# 1
005/ 1	4.84	4.89	0.15	188.3	5.4	# 1
005/ 2	4.74	4.80	0.13	188.5	5.3	# 1
005/ 3	4.64	4.67	0.14	188.6	5.1	# 1
005/ 4	4.54	4.59	0.14	188.7	5.0	# 1
005/ 5	4.44	4.49	0.14	188.9	4.8	# 1
005/ 6	4.35	4.40	0.13	189.0	4.7	# 1
005/ 7	4.26	4.30	0.13	189.1	4.6	# 1
005/ 8	4.17	4.22	0.13	189.3	4.4	# 1
005/ 9	4.08	4.13	0.12	189.4	4.3	# 1
005/10	4.00	4.04	0.13	189.5	4.2	# 1
005/11	3.91	3.96	0.12	189.6	4.1	# 1
005/12	3.83	3.87	0.12	189.8	4.0	# 1
006/ 1	3.75	3.79	0.12	189.9	3.8	# 1
006/ 2	3.67	3.73	0.10	190.0	3.7	# 1
006/ 3	3.60	3.62	0.11	190.1	3.6	# 1
006/ 4	3.52	3.56	0.11	190.2	3.5	# 1
006/ 5	3.45	3.48	0.11	190.3	3.4	# 1
006/ 6	3.38	3.42	0.10	190.4	3.3	# 1
006/ 7	3.30	3.34	0.10	190.5	3.2	# 1
006/ 8	3.24	3.27	0.10	190.6	3.1	# 1
006/ 9	3.17	3.21	0.10	190.7	3.0	# 1
006/10	3.10	3.13	0.10	190.8	2.9	# 1
006/11	3.04	3.07	0.09	190.9	2.8	# 1
006/12	2.97	3.00	0.09	191.0	2.7	# 1

OCKHART_A_27_6:PD

End of DATE	Instant Rate bbls/d	Average Rate bbls/d	Monthly Volume Mbbls	Cumulative Volume Mbbls	Remaining Reserves Mbbls	
007/ 1	2.91	2.94	0.09	191.1	2.6	# 1
007/ 2	2.85	2.89	0.08	191.2	2.6	# 1
007/ 3	2.79	2.81	0.09	191.3	2.5	# 1
007/ 4	2.73	2.76	0.08	191.3	2.4	# 1
007/ 5	2.67	2.70	0.08	191.4	2.3	# 1
007/ 6	2.62	2.65	0.08	191.5	2.2	# 1
007/ 7	2.56	2.59	0.08	191.6	2.1	# 1
007/ 8	2.51	2.54	0.08	191.7	2.1	# 1
007/ 9	2.46	2.49	0.07	191.7	2.0	# 1
007/10	2.41	2.43	0.08	191.8	1.9	# 1
007/11	2.36	2.38	0.07	191.9	1.8	# 1
007/12	2.31	2.33	0.07	191.9	1.8	# 1
008/ 1	2.26	2.28	0.07	192.0	1.7	# 1
008/ 2	2.21	2.24	0.06	192.1	1.6	# 1
008/ 3	2.16	2.18	0.07	192.2	1.6	# 1
008/ 4	2.12	2.14	0.06	192.2	1.5	# 1
008/ 5	2.07	2.09	0.06	192.3	1.4	# 1
008/ 6	2.03	2.06	0.06	192.3	1.4	# 1
008/ 7	1.99	2.01	0.06	192.4	1.3	# 1
008/ 8	1.95	1.97	0.06	192.5	1.3	# 1
008/ 9	1.91	1.93	0.06	192.5	1.2	# 1
008/10	1.87	1.88	0.06	192.6	1.1	# 1
008/11	1.83	1.85	0.06	192.6	1.1	# 1
008/12	1.79	1.81	0.06	192.7	1.0	# 1
009/ 1	1.75	1.77	0.05	192.7	1.0	# 1
009/ 2	1.71	1.74	0.05	192.8	0.9	# 1
009/ 3	1.68	1.69	0.05	192.9	0.9	# 1
009/ 4	1.64	1.66	0.05	192.9	0.8	# 1
009/ 5	1.61	1.62	0.05	193.0	0.8	# 1
009/ 6	1.58	1.59	0.05	193.0	0.7	# 1
009/ 7	1.54	1.56	0.05	193.0	0.7	# 1
009/ 8	1.51	1.53	0.05	193.1	0.6	# 1
009/ 9	1.48	1.50	0.04	193.1	0.6	# 1
009/10	1.45	1.46	0.05	193.2	0.5	# 1
009/11	1.42	1.43	0.04	193.2	0.5	# 1
009/12	1.39	1.40	0.04	193.3	0.4	# 1
010/ 1	1.36	1.37	0.04	193.3	0.4	# 1
010/ 2	1.33	1.35	0.04	193.4	0.4	# 1
010/ 3	1.30	1.31	0.04	193.4	0.3	# 1
010/ 4	1.28	1.29	0.04	193.4	0.3	# 1
010/ 5	1.25	1.26	0.04	193.5	0.2	# 1
010/ 6	1.22	1.24	0.04	193.5	0.2	# 1
010/ 7	1.20	1.21	0.04	193.5	0.2	# 1
010/ 8	1.17	1.18	0.04	193.6	0.1	# 1
010/ 9	1.15	1.16	0.03	193.6	0.1	# 1
010/10	1.12	1.13	0.04	193.7	0.1	# 1
010/11	1.10	1.11	0.03	193.7	0.0	# 1
010/12	1.08	1.09	0.03	193.7	-0.0	# 1

LOCKHART A-27 #06 (HWR 09/28/98)

LOCKHART A-27 #06 (HWR 09/28/98)

API No.	30025068040000	Status	OIL
TD	6570.0 ftKB	Frm. at TD	452ORKD
PBTD	5290.0 ftKB	Frm. Prod.	
Operator	CONTINENTAL OIL	Permit	
Well No.	6	Spud	07-Dec-47
Permit No.		RR	
Field	DRINKARD	Completion	21-Jan-48
District		Last Act.	
Init. Well Class.	development well	Abandoned	
Final Well Class.	oil well		

Location

Township	S021	Top Latitude	32.4553
Half Township		Top Longitude	103.1484
Range	E037	Top NS Distance	660.0 ft N
Half Range		Top EW Distance	1980.0 ft E
Section	27	Bottom Latitude	0
Spot	B	Bottom Longitude	0
Meridian Code	New Mexico	Btm NS Distance	0.0 ft
Meridian	NEW MEXICO	Btm EW Distance	0.0 ft

Elevations

KB	3412.0 ft	Cas Flng	0.0 ft
Grd	3402.0 ft	Tub Head	0.0 ft
KB-Grd	10.0 ft		

Bore Hole Data

Depth (ftKB)	Size (in)
200.0	17.7500
2649.0	12.2500
6570.0	8.7500

Casing String - Surface Casing

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
13.0000 in Casing	200.0	5	12.4800	36.00	J-55	8rd	

Casing String - Intermediate Casing

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
9.6300 in Casing	2648.0	81	8.9200	36.00	J-55	8rd	

Casing String - Production Casing

Item (in)	Btm (ftKB)	Jnts	ID	Wt	Grd	Thd	Comments
7.0000 in Casing	6569.0	212	6.3700	23.00	N-80 & J-55	8rd	top 28 jts are N-80, bottom 184 jts are J-55

Casing Cement

Casing String	Top (ftKB)	Amount (sx)	Comments
Surface Casing	10.0	200	Circ. cmt
Intermediate Casing	1725.0	500	TOC 1725 TS.
Production Casing	4325.0	500	TOC 4325 TS.

Other (plugs, equip., etc.) - Plug Backs

Date	Item	Int (ftKB)	Comments
12-Feb-91	RBP	5290.0 - 5295.0	
10-Apr-75	RBP	6490.0 - 6495.0	

Perforations

Date	Int	Shots (/ft)	Type	Comments
09-Dec-47	6500.0 - 6565.0	8.0	Jet perforation	6500-05, 10-15, 26-36, 50-65'.
09-Apr-75	6363.0 - 6475.0	1.0	Jet perforation	6363, 94, 6424, 38, 49, 55, 70, 75'.
11-Feb-91	5092.0 - 5232.0	2.0	Jet perforation	5092- 94, 5103-05, 12-14, 18-23, 33-37, 44-46, 51-57, 62-66, 72-75, 5204-12, 23-32'.
12-Jun-91	5220.0 - 5266.0	2.0	Jet perforation	5220-66'.
27-Feb-93	5151.0 - 5232.0	1.0	Jet perforation	
07-Jul-93	5165.0 - 5166.0	4.0	Jet perforation	5165-66'.
28-Dec-93	5151.0 - 5245.0	1.0	Jet perforation	5151-57, 64-77, 5204-12, 22-32, 34-45'.
31-May-95	5151.0 - 5244.0	1.0	Jet perforation	5151-57, 64-77, 5204-44'.
06-Feb-98	5102.0 - 5136.0	2.0	Jet perforation	5102-07, 20-36'.

Stimulations & Treatments

Date	Type	Zone	Int	Fluid	Comments
09-Dec-47	Acid Squeeze	Drinkard	6500.0 - 6565.0	15% HCl	3000 gals 15% HCl

LOCKHART A-27 #06 (HWR 09/28/98)

Stimulations & Treatments (con't)

Date	Type	Zone	Int	Fluid	Comments
10-Apr-75	Fracture	Drinkard	6363.0 - 6475.0	adomite aqua, sand	4000 gal TFW, 200# "Adomite Aqua" .160#/gal followed w/25,000 gal TFW, 1000# " Adomite Aqua", 625# gel, 50,000# 20/40 sand.
10-Apr-75	Acid Squeeze	Drinkard	6363.0 - 6475.0	15% HCL	1800 gals 15% HCl w/ 12 ball sealers.
05-Dec-80	Acid Squeeze	Drinkard	6363.0 - 6565.0	15% HCl	16bbls 15% HCl, dropping 2 bs every 2 bbls acid, pumped 38 bbls 15% HCl diverted w/300# (50% graded rock salt & 50% benzoic acid flakes) mixed w/200 gals 10# brine, pumped 38 bbls 15% HCl & overflushed w/70 bbls 2% KCl.
21-Dec-80	Acid Dump	Drinkard	6363.0 - 6565.0	15% HCl	92 bbls 15% HCl
11-Apr-85	Acid Dump	Drinkard	6363.0 - 6585.0	15% NE double FE HCl	Acidized down annulus w/ 500 G 15% NE double FE HCL
12-Feb-91	Acid Squeeze	Paddock	5092.0 - 5232.0	15% HCl-NEFE	6 bbls TFW. Perf broke 2700-2460#. Pumped 120 bbls 15% NE-FE-HCL, dropping 6-1.3 ball sealers every 4 bbls @ 4 bpm. No ball action. ISIP 1600#, AIP 2000#, AIR 3 bpm, after 1 hr SI had 70# on tubing.
12-Jun-91	Acid Squeeze	Paddock	5220.0 - 5266.0	15% HCl	Pumped 70 bbls 15% HCl
07-Jul-93	Cement Squeeze	Paddock	5165.0 - 5166.0	class "C" cement	pumped 100 sxs class "C" cement w/2% CaCl2.
29-Dec-93	Acid Squeeze	Paddock	5151.0 - 5245.0	15% HCL-NEFE	Acidize w/ 15% HCL-NEFE anti-sludge. 5164-77 would not breakdown in maximum limits.
31-May-95	Acid Squeeze	Paddock	5151.0 - 5177.0	15% HCl	30 bbls 15% HCl w/32 ball sealers & 9# brine flush, AIR 5.7 bpm, AIP 600#, followed by scale squeeze per Tretolite's rec. @ AIR 5 bpm, AIP 300#.
31-May-95	Acid Squeeze	Paddock	5204.0 - 5244.0	15% HCl	62 bbls 15% HCl w/60 ball sealers & 9# brine flush, AIR 5.5 bpm, AIP 1000#, followed by scale squeeze perTretolite's rec.
06-Feb-98	Acid Squeeze	Paddock	5102.0 - 5136.0	15% HCl	Zone "B" treated w/500 gal 15% HCl followed by scale squeeze, ISIP vacuum. Zone "A", perfs broke down @ 2300#, perfs appeared to communicate, acidized w/1000 gals 15% HCl & 80 bs (1.3sg) @ 3-4 bpm, AIP 1200#, MIP 2450#, fair ball action, ISIP vacuum.

Tubing String - Primary Tubing

Item (in)	Top (ftKB)	Len (ft)	Jnts	ID (in)	Wt	Grd	Thd	Comments
2.8740 in Tubing	8.0	5015.0	162	2.4409	6.40	J-55	8rd	
4.5000 in TAC	5023.0	5.0		2.4409	0.00	J-55	8rd	
2.8740 in Tubing	5028.0	216.0	7	2.4409	6.40	J-55	8rd	
2.8740 in Seat Nipple	5244.0	1.0	1	2.4000	6.40	J-55	8rd	
2.8740 in 2-7/8" OEMA	5245.0	30.0		2.4409	6.40	J-55	8rd	

Rod String - 7/8" Rod String

Size (in)	Type	Top (ftKB)	Len (ft)	No.	Comments
1.5000	polished rod	0.0	22.0	1	
0.8750	7/8" Norris 97's	22.0	1725.0	69	top 69 rods are Norris 97's, bottom 137 are EL's
0.8750	7/8" EL's	1747.0	3432.0	137	
1.5000	K-bars	5179.0	50.0	2	
1.5000	2.5 x 1.25 RHBC - 16	5229.0	16.0	1	
1.6000	strainer nipple	5245.0	1.0		

Completions & Workovers

Date	Reason for Workover	Reason for Failure	Summary
16-Jun-89	Temporarily Abandon	Other	Temporarily Abandon - POOH w/ rods & tbg. Set Baker Lok-set pkr @6145.
14-Jul-93	Squeeze Upper Paddock	Other	Squeeze Upper Paddock - RIH w/ paraffin knife & cut paraffin to 700'. Hot oiled tbg w/ 35 bbls lease crude. Perfed 4 spf @ 5165-5166 (8 holes). Sqeezed perfs @ 5092-5232 w/ 200 sx Class C + 2% CaCl2. Tagged cmt @4960. DO cmt to 5184.
02-Jun-95	Reperf & Acidize	Re-completion	Reperf & Acidize - Reperf 1JSPF - 5151-57, 5164-77, 5204-44 Total 62 holes. Spot 10 bbls xylene 5290-5035, pickle tbg w/ 500 G 15% HCL. Acidize in 2 stages - 62 + 30 bbls acid, 60 + 32 .9 ball sealers. Did not ball out. Pump scale inhibitor.
21-Sep-95	Put on Rod Pump	Wear	Put on Rod Pump - PU & ran new pump - 2 1-1/2 Kbars, 206 7/8 Patco scrapper rods spaced well out.
12-May-97	Tubing Leak	Corrosion-Ext.	Tubing Leak - RU tbg scope, POOH w/ tbg. Found 130 yellow, 24 blue, 11 green, 5 red. Replaced SN. RIH w/ NC, SN, pump, rods.
14-May-97	Stuck pump	Paraffin	Stuck pump - Hot watered down BS, POOH w/ rods & pump. Hot watered tbg. RIH w/ rods & pump. Pumped 5 G chemical mixed w/ 5 bbls oil flushed w/ 10 bbls oil. Loaded & tested w/ oil.

LOCKHART A-27 #06 (HWR 09/28/98)

Completions & Workovers (con't)

Date	Reason for Workover	Reason for Failure	Summary
10-Feb-98	Reaccess Paddock "A" zone	Add Pay	Reaccess Paddock "A" zone - MIRU, unseated pump, hot oiled tubing & rods w/40 bbls lease crude, POH w/pump, POH w/tubing. Perf Paddock w/2spf from 5102'-07', 5120'-36'. RIH w/RBP, pkr & spot control valve. Set RBP @ 5260', pkr @ 5145', spotted 300 gal Gypsol-2. Fished spot valve, SIOWE. SITP 800#, swabbed/flowed back 21 bbls w/good gas blow. Acidized Paddock "B" zone w/500 gals 15% HCl followed by scale squeeze. Pulled up and reset RBP @ 5145' & pkr @ 5113', broke down lower Paddock "A" perfs @ 2300# (perfs appeared to communicate), reset pkr @ 4950', acidized "A" zone w/1000 gals 15% HCl & 80 bs @ 3-4 bpm, AIP1200#, MIP 2450#, fair ball action ISIP vacuum, POH w/RBP & pkr, RIH w/production tubing.
06-Mar-98	Rod part	Corrosion	Rod part - POH w/108 x 7/8" rods to body break, fished parted rod, POH w/rest of rods and pump. LD 115 x 7/8" EL rods due to severe corrosion pitting under snow ball of Patco scrapers. TFF w/37' of tubing. Picked up & RIH w/ 115 x 7/8" Norris 97 rods, RIH w/remaining (91 x 7/8") EL rods from derrick.
28-Sep-98	Rod part	Corrosion	Rod part - Body break in 7/8" EL rod, 27 down. Had a problem w/hard paraffin, TFF @ 5288'. Rotated tubing string, bottoms up. Added one jt to tubing string, also ran IPC jt above SN. LD top 69 EL rods w/Patco scrapers. RIH w/137 x 7/8" EL's on bottom & 69 x 7/8" Norris 97 (slick) rods on top.

Formation/Horizon Tops

Top (ftKB)	Frm. Code
1278.0	Top of Salt
2390.0	Bottom of Salt
5047.0	Glorietta
5975.0	Tubb

Logs Run

Date	Type	Int	Company	Comments
04-Apr-75	Acoustic CBL	3500.0 - 6484.0	Dresser Atlas	
05-Apr-75	Magnelog	10.0 - 6490.0	Dresser Atlas	
28-Dec-93	Cased-Hole Comp Neutron Log	2650.0 - 5291.0	Computalog	

WellHead Notes

Date	Note
28-Sep-98	6" X 900

Pumping Unit Notes

Date	Note
21-Sep-95	First put on rod pump.
09-Jun-98	Lufkin C640D-305-120 @ 8.5 spm w/10" sheave, in 120" stroke, 75 hp 1200 rpm, 445T frame, 28.6 ratio, has 2 size "1RO" and 2 size "LW" weights, last checked by Fannie Lee 2/27/98.

General Notes

Date	Note
25-Jun-98	Production log ran 2/18/91 w/test of 28 bopd, 104 bwpd & 896 mcfpd, showed major gas from 5092'-5175'; oil & gas from 5133'-5233'; water, oil & gas from 5204'-5234'.

LOCKHART A-27 #06 (HWR 09/28/98)