

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

N.M. Oil Cons.
P.O. Box 1980
Hobbs, NM 88241

Division

FORM APPROVED
Budget Bureau No. 1004-0137
Expires: December 31, 1991

SUBMIT ORIGINAL WITH 5 COPIES

Amended Report

5. Lease Designation and Serial No.
LC-032100

WELL COMPLETION OR RECOMPLETION REPORT AND LOG*

1a. Type of Well: OIL ☒ WELL GAS ☐ WELL DRY ☐ OTHER HORIZONTAL LATERAL		6. If Indian, Alottee or Tribe Name	
1b. Type of Completion: NEW ☐ WELL WORK ☐ OVER DEEPEN ☐ PLUG ☐ BACK DIFF. ☐ RESVR. OTHER HORIZONTAL LATERAL		7. If Unit or CA, Agreement Designation	
2. Name of Operator TEXACO EXPLORATION & PRODUCTION INC.		8. Well Name and Number LOCKHART, C. H. FEDERAL NCT-1	
3. Address and Telephone No. 205 E. Bender, HOBBS, NM 88240 397-0405		9. API Well No. 3002512129	
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At Surface Unit Letter G : 1980 Feet From The NORTH Line and 1980 Feet From The EAST Line At proposed prod. zone At Total Depth D 480 FNL, 330 FWT 4950/E		10. Field and Pool, Exploratory Area TUBB OIL AND GAS	
14. Permit No.		Date Issued	
15. Date Spudded 4/24/98		16. Date T.D. Reached 5/16/98	
17. Date Compl. (Ready to Prod.) 5/23/98		18. Elevations (Show whether DF, RT, GR, etc.)	
19. Elev. Casinhead		20. Total Depth, MD & TVD 7142'	
21. Plug Back T.D., MD & TVD 7142'		22. If Multiple Compl., How Many*	
23. Intervals Drilled By -->		Rotary Tools	
24. Producing Interval(s), Of This Completion -- Top, Bottom, Name (MD and TVD)* 6078-6085' TUBB		25. Was Directional Survey Made YES	
26. Type Electric and Other Logs Run		27. Was Well Cored NO	

28. CASING RECORD (Report all Strings set in well)					
CASING SIZE & GRADE	WEIGHT LB./FT.	DEPTH SET	HOLE SIZE	CEMENT RECORD	AMOUNT PULLED
13 3/8"		389'	17 1/2"	400 SX CIRC	
8 5/8"		2840'	11"	1600 SX CIRC	
5 1/2"		6822'	7 7/8"	500 SX TOP @ 3740'	

29. LINER RECORD				30. TUBING RECORD		
SIZE	TOP	BOTTOM	SACKS CEMENT	SCREEN	SIZE	DEPTH SET
					2 7/8"	6254'

31. Perforation record (interval, size, and number) 6078-6085'	32. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
	DEPTH INTERVAL	AMOUNT AND KIND MATERIAL USED
	6078-6085'	96,000 GALS 15% NEFE &
		112,000 GALS WF130

33. PRODUCTION							
Date First Production 6/1/98	Production Method (Flowing, gas lift, pumping - size and type pump) PUMPING 2 1 1/2" X 1 1/2" X 24'					Well Status (Prod. or Shut-in) P	
Date of Test 7-04-98	Hours tested 24 HRS	Choke Size	Prod'n For Test Period	Oil - Bbl. 12	Gas - MCF 5	Water - Bbl. 20	Gas - Oil Ratio 417
Flow Tubing Press.	Casing Pressure	Calculated 24-Hour Rate	Oil - Bbl.	Gas - MCF	Water - Bbl.	Oil Gravity - API -(Corr.)	
34. Disposition of Gas (Sold, used for fuel, vented, etc.) SOLD						Test Witnessed By	

35. List of Attachments

36. I hereby certify that the foregoing is true and correct
SIGNATURE *J. Denise Leake* TITLE Engineering Assistant DATE 8/19/98
TYPE OR PRINT NAME J. Denise Leake



Job Number:
 Company: TEXACO E&P
 Lease/Well: LOCKHART #8
 Location: LEA COUNTY
 Rig Name: YALE E. KEY #119
 RKB:
 G.L. or M.S.L.:

State/Country: NEW MEXICO
 Declination:
 Grid:
 File name: D:\DATA\TEXACO~1\LOCKHART\LOCKHA~1\LOCKHART8.BV
 Date/Time: 30-Mar-98 / 09:36
 Curve Name: PROPOSAL (REV.7) - 3/25/98

**DIAMONDBACK DIRECTIONAL
 A BWWC COMPANY**

WINSERVE SURVEY CALCULATIONS
 Minimum Curvature Method
 Vertical Section Plane 320.00
 Vertical Section Referenced to Wellhead
 Rectangular Coordinates Referenced to Wellhead

Measured Depth FT	Incl Angle Deg	Drift Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	WALK RATE Deg/100	BUILD RATE Deg/100	Dogleg Severity Deg/100
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KOP @ 6109' TVD, BEGIN 37°100' BR

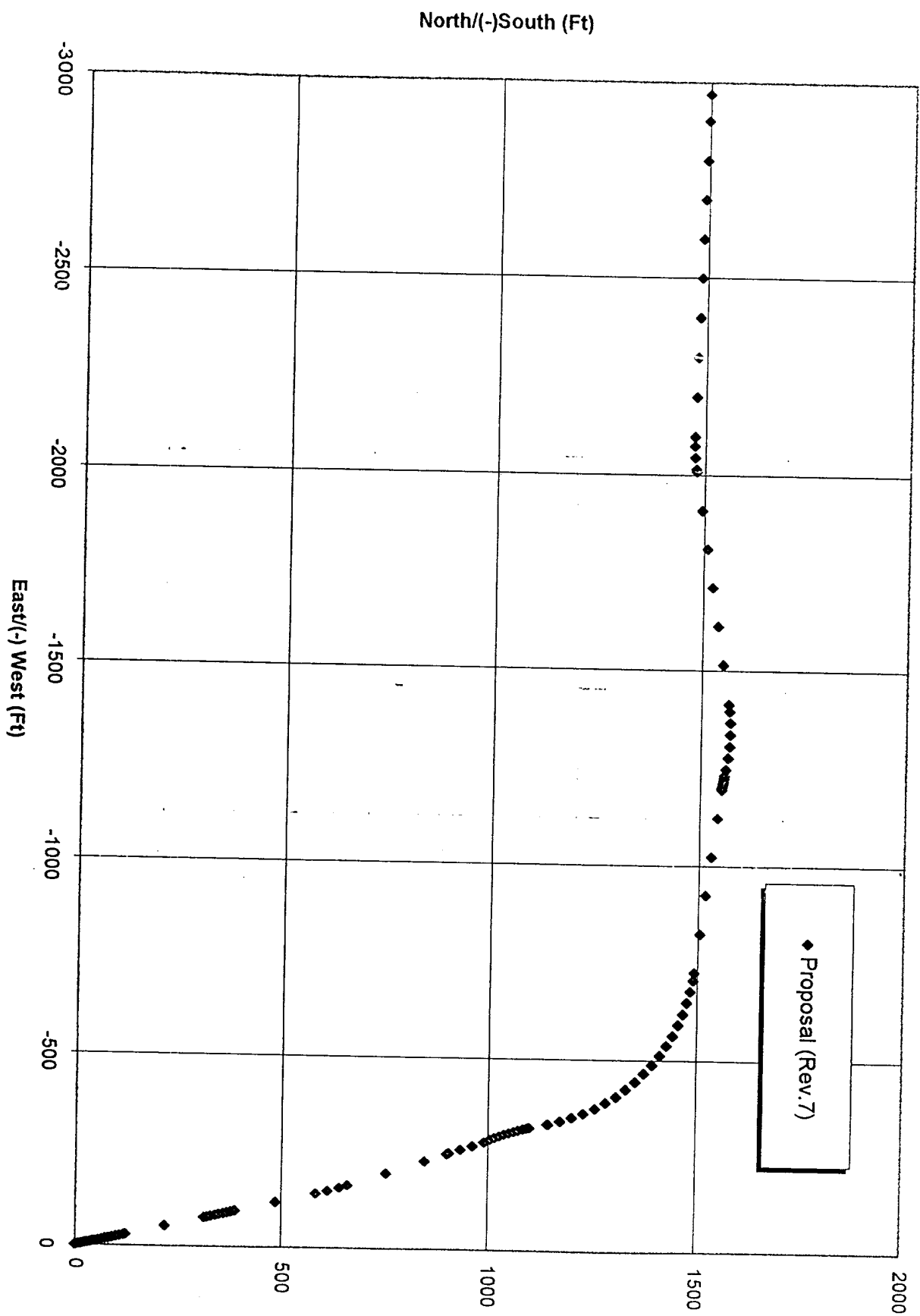
6109.00	.00	346.37	6109.00	.00	.00	.00	.00	.00	.00	.00	.00
6119.00	3.70	346.37	6118.99	.31	-.08	.29	.32	346.37	.00	37.00	37.00
6129.00	7.40	346.37	6128.94	1.25	-.30	1.16	1.29	346.37	.00	37.00	37.00
6139.00	11.10	346.37	6138.81	2.82	-.68	2.60	2.90	346.37	.00	37.00	37.00
6149.00	14.80	346.37	6148.56	4.99	-1.21	4.60	5.14	346.37	.00	37.00	37.00
6159.00	18.50	346.37	6158.14	7.78	-1.89	7.17	8.00	346.37	.00	37.00	37.00
6169.00	22.20	346.37	6167.51	11.16	-2.71	10.28	11.48	346.37	.00	37.00	37.00
6179.00	25.90	346.37	6176.64	15.12	-3.67	13.94	15.55	346.37	.00	37.00	37.00
6189.00	29.60	346.37	6185.49	19.64	-4.76	18.11	20.21	346.37	.00	37.00	37.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	WALK RATE Deg/100	BUILD RATE Deg/100	Dogleg Severity Deg/100
6981.86	97.63	340.36	6286.36	753.65	-197.77	704.46	779.17	345.30	.00	.00	.00
7081.86	97.63	340.36	6273.09	847.00	-231.08	797.38	877.96	344.74	.00	.00	.00
7140.23	97.63	340.36	6265.34	901.48	-250.53	851.61	935.64	344.47	.00	.00	.00
7141.00	97.56	340.42	6265.23	902.21	-250.78	852.33	936.41	344.47	7.45	-9.46	12.00
7144.92	97.16	340.67	6264.73	905.87	-252.08	855.97	940.29	344.45	6.33	-10.23	12.00
174.92	93.56	340.55	6261.93	934.04	-261.99	883.93	970.09	344.33	-.38	-11.99	12.00
7204.92	90.00	340.00	6261.00	962.26	-272.11	912.04	1000.00	344.21	-1.85	-11.86	12.00
7234.92	90.13	336.19	6260.97	990.09	-283.30	940.55	1029.82	344.03	-12.69	.44	12.70
7249.94	90.26	334.29	6260.91	1003.72	-289.59	955.04	1044.67	343.91	-12.67	.88	12.70
7262.16	90.28	335.84	6260.86	1014.81	-294.74	966.85	1056.75	343.80	12.70	.10	12.70
7274.37	90.29	337.39	6260.80	1026.01	-299.59	978.54	1068.86	343.72	12.70	.10	12.70
7286.53	90.30	338.94	6260.73	1037.31	-304.11	990.10	1080.97	343.66	12.70	.10	12.70
7298.63	90.31	340.47	6260.67	1048.66	-308.31	1001.49	1093.04	343.62	12.70	.10	12.70
7310.62	90.32	342.00	6260.60	1060.00	-312.16	1012.66	1105.01	343.59	12.70	.10	12.70
7322.39	90.34	343.49	6260.53	1071.24	-315.65	1023.52	1116.78	343.58	12.70	.10	12.70
7333.72	90.35	344.93	6260.47	1082.15	-318.74	1033.86	1128.12	343.59	12.70	.09	12.70
7343.94	90.36	346.23	6260.40	1092.04	-321.28	1043.07	1138.32	343.61	12.70	.09	12.70
7349.93	90.36	346.99	6260.37	1097.87	-322.67	1048.42	1144.30	343.62	12.70	.09	12.70
7394.57	90.36	346.99	6260.08	1141.36	-332.72	1088.20	1188.87	343.75	.00	.00	.00
395.20	90.36	346.91	6260.08	1141.98	-332.86	1088.77	1189.50	343.75	-12.70	-.09	12.70
7425.20	90.33	343.10	6259.90	1170.95	-340.62	1115.95	1219.49	343.78	-12.70	-.09	12.70
7455.20	90.30	339.29	6259.73	1199.35	-350.29	1143.92	1249.46	343.72	-12.70	-.10	12.70
7485.20	90.27	335.48	6259.58	1227.03	-361.83	1172.54	1279.27	343.57	-12.70	-.10	12.70
7515.20	90.24	331.67	6259.45	1253.89	-375.18	1201.70	1308.82	343.34	-12.70	-.11	12.70
7545.20	90.21	327.86	6259.33	1279.31	-390.28	1231.26	1337.99	343.04	-12.70	-.11	12.70
7575.20	90.17	324.05	6259.23	1304.66	-407.07	1261.09	1366.69	342.67	-12.70	-.11	12.70
7605.20	90.14	320.24	6259.15	1328.34	-425.48	1291.06	1394.82	342.24	-12.70	-.12	12.70
7635.20	90.10	316.43	6259.03	1350.75	-445.42	1321.04	1422.30	341.75	-12.70	-.12	12.70
7665.20	90.07	312.62	6259.04	1371.78	-466.80	1350.90	1449.03	341.21	-12.70	-.12	12.70
7695.20	90.03	308.81	6259.01	1391.35	-489.54	1380.50	1474.96	340.62	-12.70	-.12	12.70

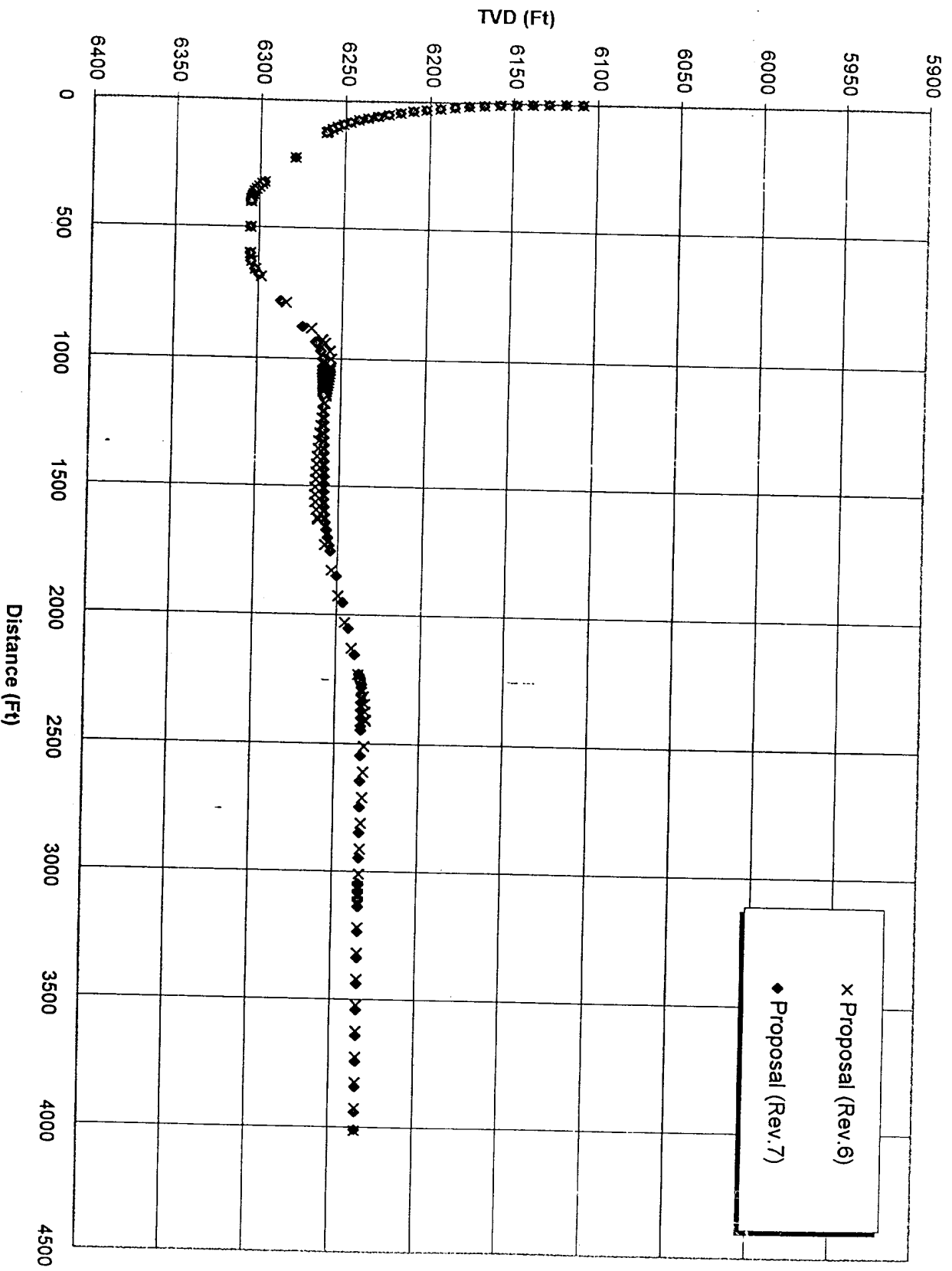
Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	WALK RATE Deg/100	BUILD RATE Deg/100	Dogleg Severity Deg/100
7725.20	90.00	305.00	6259.00	1409.36	-513.52	1409.72	1500.00	339.98	-12.70	-.11	12.70
7755.20	90.30	301.41	6258.92	1425.79	-538.62	1438.43	1524.13	339.30	-11.96	1.02	12.00
7785.20	90.61	297.83	6258.68	1440.61	-564.69	1466.55	1547.33	338.60	-11.96	1.01	12.00
7815.20	90.91	294.24	6258.28	1453.77	-591.64	1483.96	1569.55	337.86	-11.96	1.00	12.00
7845.20	91.21	290.65	6257.73	1465.22	-619.36	1520.54	1590.75	337.09	-11.96	.99	12.00
875.20	91.50	287.06	6257.02	1474.91	-647.74	1546.21	1610.88	332.29	-11.96	.98	12.00
7905.20	91.79	283.47	6256.16	1482.81	-676.66	1570.85	1629.91	335.47	-11.97	.96	12.00
7935.20	92.07	279.88	6255.15	1483.87	-706.02	1594.37	1647.79	334.63	-11.97	.93	12.00
7956.64	92.26	277.31	6254.34	1492.08	-727.20	1610.43	1659.85	334.02	-11.97	.91	12.00
8056.64	92.26	277.31	6250.39	1504.79	-826.31	1683.88	1716.74	331.23	.00	.00	.00
8156.64	92.26	277.31	6246.45	1517.51	-925.42	1757.33	1777.43	328.62	.00	.00	.00
8256.64	92.26	277.31	6242.50	1530.23	-1024.53	1830.78	1841.54	326.20	.00	.00	.00
8356.64	92.26	277.31	6238.55	1542.95	-1123.64	1904.23	1908.73	323.94	.00	.00	.00
8431.25	92.26	277.31	6235.61	1552.44	-1197.58	1959.03	1960.68	322.35	.00	.00	.00
8431.71	92.26	277.37	6235.59	1552.50	-1198.04	1959.37	1961.01	322.34	11.98	-.90	12.00
8433.76	92.24	277.61	6235.51	1552.76	-1200.07	1960.87	1962.45	322.30	11.98	-.90	12.00
8437.17	92.21	278.02	6235.38	1553.23	-1203.45	1963.40	1964.89	322.23	11.97	-.90	12.00
8441.72	92.17	278.57	6235.20	1553.88	-1207.94	1966.79	1968.17	322.14	11.97	-.91	12.00
8447.21	92.12	279.22	6235.00	1554.73	-1213.36	1970.93	1972.16	322.03	11.97	-.91	12.00
453.48	92.06	279.97	6234.77	1555.77	-1219.54	1975.70	1976.79	321.91	11.97	-.92	12.00
8460.41	92.00	280.80	6234.53	1557.02	-1226.35	1981.03	1981.98	321.78	11.97	-.92	12.00
8467.88	91.93	281.70	6234.27	1558.48	-1233.68	1986.86	1987.67	321.64	11.97	-.93	12.00
8483.93	90.00	281.69	6234.00	1561.73	-1249.40	1999.45	2000.00	321.34	-.05	-12.00	12.00
8513.93	90.00	278.09	6234.00	1566.89	-1278.94	2022.39	2022.58	320.78	-12.00	.00	12.00
8543.93	90.00	274.49	6234.00	1570.17	-1308.76	2044.08	2044.09	320.19	-12.00	.00	12.00
8573.93	90.00	270.89	6234.00	1571.58	-1338.72	2064.41	2064.47	319.57	-12.00	.00	12.00
8603.93	90.00	267.29	6234.00	1571.10	-1368.71	2083.33	2083.68	318.94	-12.00	.00	12.00
8633.53	90.00	263.69	6234.00	1568.74	-1356.61	2100.74	2101.69	318.22	-12.00	.00	12.00
8651.05	90.00	261.64	6234.00	1566.56	-1415.58	2109.97	2111.40	317.90	-12.00	.00	12.00
8751.05	90.00	261.64	6234.00	1552.01	-1514.52	2162.43	2168.53	315.70	.00	.00	.00

Measured Depth FT	Incl Angle Deg	Drift Direction Deg	True Vertical Depth	N-S FT	E-W FT	Vertical Section FT	CLOSURE Distance FT	Direction Deg	WALK RATE Deg/100	BUILD RATE Deg/100	Dogleg Severity Deg/100
8851.05	90.00	261.64	6234.00	1537.47	-1613.46	2214.88	2228.69	313.62	.00	.00	.00
8951.05	90.00	261.64	6234.00	1522.92	-1712.39	2267.33	2291.64	311.65	.00	.00	.00
9051.05	90.00	261.64	6234.00	1508.38	-1811.33	2319.79	2357.14	309.79	.00	.00	.00
9151.05	90.00	261.64	6234.00	1493.83	-1910.27	2372.24	2425.01	308.03	.00	.00	.00
9251.05	90.00	261.64	6234.00	1479.29	-2009.20	2424.69	2495.03	306.36	.00	.00	.00
1258.03	90.00	261.64	6234.00	1478.27	-2016.11	2428.36	2500.00	306.25	.00	.00	.00
9288.03	90.00	265.24	6234.00	1474.85	-2045.91	2444.88	2522.09	305.79	12.00	.00	12.00
9318.03	90.00	268.84	6234.00	1473.29	-2075.86	2462.95	2545.55	305.36	12.00	.00	12.00
9342.31	90.00	271.75	6234.00	1473.42	-2100.14	2478.65	2565.46	305.05	12.00	.00	12.00
9442.31	90.00	271.75	6234.00	1476.47	-2200.10	2545.24	2649.60	303.87	.00	.00	.00
9542.31	90.00	271.75	6234.00	1479.53	-2300.05	2611.83	2734.82	302.75	.00	.00	.00
9642.31	90.00	271.75	6234.00	1482.58	-2400.00	2678.42	2821.00	301.71	.00	.00	.00
9742.31	90.00	271.75	6234.00	1485.64	-2499.96	2745.00	2908.07	300.72	.00	.00	.00
9842.31	90.00	271.75	6234.00	1488.69	-2599.91	2811.59	2995.95	299.80	.00	.00	.00
9942.31	90.00	271.75	6234.00	1491.75	-2699.86	2878.18	3084.57	298.92	.00	.00	.00
10042.31	90.00	271.75	6234.00	1494.80	-2799.82	2944.77	3173.86	298.10	.00	.00	.00
10142.31	90.00	271.75	6234.00	1497.85	-2899.77	3011.36	3263.77	297.32	.00	.00	.00
TD @ 10213' MD, 6234' TVD, 90° INC											
10212.57	90.00	271.75	6234.00	1500.00	-2970.00	3058.15	3327.30	296.80	.00	.00	.00

Lockhart No. 6
Plan View



Lockhart #6
TVD vs Distance



Lockhart #6
TVD vs Departure

