

MDC Operations
9900 West Interstate 20
Midland, Texas 79706
Phone (915) 563-3057
Fax (915) 563-3059

September 28 ,2000

Oil Conservation Division
District I
P.O. Box 1960
Hobbs, New Mexico 88241-1960

Re: MARATHON
Indian Hills Unit #26
Eddy Co, N.M.
API # 30-015-31274

26-21-24
Enclosed, please find the original and one copy of the survey performed on the referenced well by Anadrill, a division of Schlumberger Technology Corporation. Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Armando Aguilar MWD 2	#1	2110-10575	9-28-00=10-28-0	MWD/D&I

A certified plat on which the bottom hole is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Travis Schacklett
DDC

Cc: MARATHON

Enclosures: 2



MDC Operations
9900 West Interstate 20
Midland, Texas 79706
Phone (915) 563-3057
Fax (915) 563-3059

State of Texas
County of Midland

I, Armando Aguilar, certify that; I am employed by Anadrill, a division of Schlumberger Technology Corporation; that I did on the day's of 9-28-00 through 10-28-00 conduct or supervise the taking of MWD surveys from a depth of 2110 feet to a depth of 10575 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Anadrill, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of MARATHON , Indian Hills Unit # 26 , API # 30-015-31274 , in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Anadrill, a division of Schlumberger Technology Corporation.



Armando Aguilar,
MWD 2

Anadrill Schlumberger Survey Report
Magnetic Declination: 9.27 DLS

Tie In Point (TIP):

Measured Depth	2000	FT.
True Vertical Depth	1999.6	FT.
Inclination	.92	DEG
Azimuth	158.18	DEG
N/S Displacement(-ve for S)	-12.41	FT.
E/W Displacement(-ve for W)	30.32	FT.
Azim. From Rotary Table To Target	81.01	DEG

Accepted Survey Listing:

M.Dpth	Int.	V.Dpth	Target	Incl.	Azim	N.Disp	E.Disp	T.Disp	Clr.A.	DLS
(ft)	(ft)	(ft)	(ft)	(deg)	(deg)	(ft)	(ft)	(ft)	(deg)	(D/HF)
2120	120	2119.56	30.34	2.11	97.39	-13.59	32.87	35.57	112.46	1.54
2151	31	2150.53	31.68	2.92	85.99	-13.61	34.22	36.83	111.68	3.06
2183	32	2182.48	33.48	3.57	86.79	-13.5	36.03	38.47	110.54	2.04
2215	32	2214.41	35.56	3.93	75.44	-13.17	38.09	40.3	109.07	2.57
2247	32	2246.32	37.95	4.67	74.66	-12.55	40.41	42.31	107.25	2.32
2279	32	2278.19	40.77	5.5	74.73	-11.8	43.15	44.73	105.3	2.59
2310	31	2309.03	43.92	6.23	72.8	-10.91	46.19	47.46	103.29	2.44
2342	32	2340.83	47.45	6.6	71.14	-9.8	49.59	50.55	101.18	1.29
2374	32	2372.6	51.23	7.15	72.26	-8.6	53.23	53.92	99.18	1.77
2405	31	2403.34	55.21	7.8	71.14	-7.33	57.06	57.53	97.32	2.15
2437	32	2435.02	59.7	8.5	73.25	-5.95	61.38	61.67	95.53	2.38
2468	31	2465.64	64.48	9.36	76.09	-4.68	66.02	66.19	94.06	3.12
2500	32	2497.18	69.85	10.04	77.11	-3.43	71.27	71.35	92.76	2.19
2532	32	2528.66	75.57	10.56	77.56	-2.18	76.85	76.88	91.62	1.64
2564	32	2560.1	81.53	10.94	78.32	-0.93	82.69	82.69	90.65	1.27
2595	31	2590.49	87.64	11.82	79.01	0.27	88.69	88.69	89.83	2.87
2627	32	2621.76	94.41	12.62	81.55	1.41	95.37	95.38	89.15	3.01
2659	32	2652.94	101.63	13.42	81.6	2.47	102.5	102.53	88.62	2.5
2691	32	2684.03	109.22	14.02	80.95	3.62	110	110.06	88.11	1.94
2722	31	2714.08	116.85	14.49	81.36	4.79	117.54	117.64	87.66	1.55
2754	32	2745.01	125.03	15.17	81.09	6.04	125.63	125.78	87.25	2.14
2785	31	2774.88	133.31	15.8	80.29	7.38	133.8	134	86.84	2.15
2817	32	2805.6	142.27	16.72	81.1	8.83	142.64	142.91	86.46	2.96
2848	31	2835.25	151.31	17.21	81.26	10.22	151.58	151.92	86.14	1.59
2912	64	2896.31	170.5	17.68	80.16	13.32	170.51	171.03	85.53	0.9
2974	62	2955.37	189.37	17.78	79.86	16.6	189.1	189.83	84.98	0.22
3038	64	3016.31	208.92	17.8	78.93	20.2	208.32	209.3	84.46	0.45
3100	62	3075.3	228	18.08	78.4	23.95	227.04	228.3	83.98	0.52
3163	63	3135.19	247.53	18.09	78.3	27.9	246.19	247.77	83.53	0.05
3227	64	3195.98	267.53	18.38	78.08	32	265.79	267.71	83.14	0.47
3288	61	3253.9	286.67	18.22	80.5	35.56	284.61	286.82	82.88	1.27
3351	63	3313.78	306.25	18	81.12	38.69	303.94	306.39	82.75	0.46
3414	63	3373.75	325.55	17.68	81.89	41.54	323.03	325.69	82.67	0.63
3478	64	3434.78	344.83	17.38	81.56	44.31	342.11	344.96	82.62	0.49
3540	62	3493.93	363.41	17.49	80.92	47.14	360.47	363.54	82.55	0.36
3634	94	3583.56	391.73	17.58	81.13	51.56	388.44	391.85	82.44	0.12
3728	94	3673.18	420.09	17.54	81.21	55.91	416.46	420.2	82.35	0.05
3823	95	3763.78	448.67	17.49	79.99	60.58	444.67	448.77	82.24	0.39
3918	95	3854.39	477.23	17.5	80.29	65.47	472.81	477.32	82.12	0.1
4013	95	3945.1	505.45	17.06	80.14	70.27	500.62	505.53	82.01	0.47
4108	95	4036.01	533	16.69	77.22	75.67	527.65	533.05	81.84	0.97
4203	95	4127.06	560.03	16.46	76.97	81.72	554.07	560.06	81.61	0.25
4267	64	4188.47	578.01	16.27	75.89	85.95	571.6	578.02	81.45	0.56
4329	62	4248	595.29	16.2	77.22	89.98	588.46	595.3	81.31	0.61
4393	64	4309.42	613.23	16.43	77.09	93.98	605.99	613.23	81.18	0.36
4457	64	4370.79	631.33	16.51	76.68	98.1	623.66	631.33	81.06	0.22
4520	63	4431.17	649.25	16.67	75.75	102.39	641.13	649.25	80.93	0.49
4590	70	4498.13	669.55	17.21	75.2	107.51	660.87	669.56	80.76	0.8
4654	64	4559.3	688.32	17.01	78.07	111.86	679.18	688.33	80.65	1.36
4717	63	4619.53	706.78	17.12	77.72	115.74	697.26	706.8	80.58	0.24
4781	64	4680.66	725.71	17.34	78.76	119.6	715.82	725.74	80.51	0.59
4844	63	4740.73	744.68	17.72	80.82	122.96	734.49	744.71	80.5	1.15
4906	62	4799.82	763.44	17.5	81.22	125.89	753.02	763.47	80.51	0.4
4970	64	4860.95	782.4	16.97	80.72	128.86	771.75	782.43	80.52	0.86
5033	63	4921.31	800.46	16.33	80.37	131.82	789.56	800.48	80.52	1.03
5097	64	4982.73	818.46	16.35	81.45	134.66	807.34	818.49	80.53	0.48
5160	63	5043.03	836.7	17.3	80.29	137.56	825.34	836.73	80.54	1.6
5223	63	5103.08	855.75	17.9	80.99	140.66	844.14	855.77	80.54	1.01
5286	63	5163.01	875.18	18.02	80.7	143.75	863.32	875.2	80.55	0.24
5349	63	5222.86	894.84	18.36	81.8	146.74	882.76	894.87	80.56	0.77
5412	63	5282.74	914.42	17.87	83.6	149.23	902.19	914.45	80.61	1.18
5476	64	5343.7	933.91	17.6	83.1	151.49	921.55	933.92	80.67	0.48
5537	61	5401.9	952.15	17.24	83.87	153.56	939.69	952.16	80.72	0.7
5601	64	5463.08	970.92	16.93	83.84	155.57	958.38	970.93	80.78	0.48
5664	63	5523.23	989.64	17.67	82.16	157.86	976.97	989.64	80.82	1.42
5728	64	5584.19	1009.12	17.79	83.04	160.37	996.3	1009.12	80.86	0.46
5791	63	5644.28	1028.02	17.15	82.84	162.69	1015.07	1028.03	80.89	1.02
5854	63	5704.41	1046.81	17.57	83.51	164.92	1033.73	1046.81	80.94	0.74
5918	64	5765.34	1066.37	18.06	82.91	167.24	1053.17	1066.37	80.98	0.82
5981	63	5825.23	1085.9	18.08	80.59	170.04	1072.51	1085.9	80.99	1.14
6043	62	5884.15	1105.21	18.2	79.84	173.32	1091.53	1105.21	80.98	0.42
6106	63	5943.99	1124.9	18.24	79.7	176.82	1110.91	1124.9	80.96	0.09
6165	59	6000.07	1143.21	17.94	80.31	180	1128.95	1143.21	80.94	0.6
6228	63	6059.86	1163.05	18.79	79.54	183.48	1148.49	1163.06	80.92	1.4
6291	63	6119.3	1183.92	19.9	80.29	187.13	1169.04	1183.92	80.91	1.81
6355	64	6179.33	1206.1	20.66	81.96	190.55	1190.96	1206.1	80.91	1.49
6418	63	6238.38	1228.05	20.13	82.75	193.47	1212.72	1228.05	80.94	0.95
6481	63	6297.61	1249.52	19.72	80.79	196.54	1233.97	1249.52	80.95	1.24
6545	64	6357.91	1270.95	19.44	77.14	200.64	1255.01	1270.95	80.92	1.96
6607	62	6416.29	1291.81	19.93	81.22	204.55	1275.51	1291.81	80.89	2.35
6670	63	6475.59	1313.07	19.54	83.18	207.44	1296.58	1313.07	80.91	1.22
6734	64	6536.07	1333.98	18.63	82.4	210.06	1317.34	1333.98	80.94	1.48
6797	63	6595.76	1354.12	18.66	82.69	212.67	1337.31	1354.12	80.96	0.15
6861	64	6656.36	1374.68	18.84	81.1	215.57	1357.67	1374.68	80.98	0.85
6924	63	6715.96	1395.09	18.98	80.82	218.78	1377.83	1395.09	80.98	0.26
6987	63	6775.57	1415.48	18.79	82.38	221.76	1398	1415.48	80.99	0.86
7050	63	6835.42	1435.13	17.57	82.36	224.37	1417.48	1435.13	81.01	1.94
7113	63	6895.43	1454.32	17.9	81.35	227.09	1436.48	1454.32	81.02	0.72
7177	64	6956.33	1473.99	17.91	79.03	230.44	1455.86	1473.99	81.01	1.11
7240	63	7016.25	1493.45	18.1	80.45	233.91	1475.02	1493.45	80.99	0.76
7303	63	7076.24	1512.68	17.45	82.13	236.83	1494.03	1512.68	80.99	1.31
7366	63	7136.56	1530.84	16.06	82.03	239.33	1512.02	1530.84	81.01	2.21
7430	64	7198.16	1548.22	15.45	82.44	241.68	1529.24	1548.22	81.02	0.97
7492	62	7258.04	1564.28	14.58	81.18	243.96	1545.14	1564.28	81.03	1.5
7555	63	7319.11	1579.75	13.88	77.51	246.81	1560.35	1579.75	81.01	1.81
7619	64	7381.12	1595.57	14.8	77.77	250.2	1575.83	1595.57	80.98	1.44
7683	64	7442.72	1612.91	16.69	77.8	253.87	1592.8	1612.91	80.94	2.95
7746	63	7502.86	1631.64	17.95	78.53	257.71	1611.16	1631.64	80.91	2.03
7810	64	7563.77	1651.25	17.78	78.02	261.7	1630.38	1651.25	80.88	0.36
7873	63	7623.84	1670.22	17.3	79.58	265.39	1649	1670.22	80.86	1.07
7937	64	7684.92	1689.31	17.45	78.3	269.06	1667.76	1689.32	80.84	0.64
8000	63	7745.11	1707.88	16.9	76.58	273.1	1685.92	1707.89	80.8	1.19
8062	62	7804.55	1725.49	16.15	82.97	276.25	1703.25	1725.5	80.79	3.17
8174	112	7911.39	1759.07	18.75	82	280.66	1736.54	17		

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September 28 ,2000

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District I
P.O. Box 1960
Hobbs, New Mexico 88241-1960

Re: MARATHON
Indian Hills Unit #26
Eddy Co, N.M.
API # 30-015-31274

Enclosed, please find the original and one copy of the survey performed on the referenced well by Anadrill, a division of Schlumberger Technology Corporation. Other information required by your office is as follows:

<u>Name & Title of Surveyor</u>	<u>Drainhole Number</u>	<u>Surveyed Depths</u>	<u>Dates Performed</u>	<u>Type of Survey</u>
Armando Aguilar MWD 2	#1	2110-10575	9-28-00=10-28-0	MWD/D&I

A certified plat on which the bottom hole is oriented both to the surface location and to the lease lines (or unit lines in case of pooling) is attached to the survey report. If any other information is required, please contact the undersigned at the letterhead address and phone number.

Sincerely,

Travis Schacklett
DDC

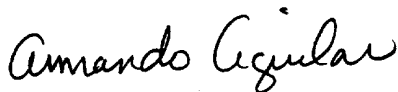
Cc: MARATHON

Enclosures: 2

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State of Texas
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I, Armando Aguilar, certify that; I am employed by Anadrill, a division of Schlumberger Technology Corporation; that I did on the day's of 9-28-00 through 10-28-00 conduct or supervise the taking of MWD surveys from a depth of 2110 feet to a depth of 10575 feet; that the data is true, correct, complete and within the limitations of the tool as set forth by Anadrill, a division of Schlumberger Technology Corporation; that I am authorized and qualified to make this report; that this survey was conducted at the request of MARATHON , Indian Hills Unit # 26 , API # 30-015-31274 , in Eddy County, New Mexico; and that I have reviewed this report and find that it conforms to the principles and procedures as set forth by Anadrill, a division of Schlumberger Technology Corporation.



Armando Aguilar,
MWD 2

10/27/2000 7:08:54 AM

Anadrill Schlumberger Survey Report
Magnetic Declination: 9.27 DEG

Tie In Point (TIP):

Measured Depth

2000

FT.

True Vertical Depth

1999.6

FT.

Inclination

.92

DEG

Azimuth

158.18

DEG

N/S Displacement(-ve for S)

-12.41

FT.

E/W Displacement(-ve for W)

30.32

FT.

Azim. From Rotary Table To Target

81.01

DEG

Accepted Survey Listing:

M.Dpth Int. (ft)	V.Dpth (ft)	Target (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.A. (deg)	DLS (D/HF)	
2120	120	2119.56	30.34	2.11	97.39	-13.59	32.87	35.57	112.46	1.54
2151	31	2150.53	31.68	2.92	85.99	-13.61	34.22	36.83	111.68	3.06
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2310	31	2309.03	43.92	6.23	72.8	-10.91	46.19	47.46	103.29	2.44
2342	32	2340.83	47.45	6.6	71.14	-9.8	49.59	50.55	101.18	1.29
2374	32	2372.6	51.23	7.15	72.26	-8.6	53.23	53.92	99.18	1.77
2405	31	2403.34	55.21	7.8	71.14	-7.33	57.06	57.53	97.32	2.15
2437	32	2435.02	59.7	8.5	73.25	-5.95	61.38	61.67	95.53	2.38
2468	31	2465.64	64.48	9.36	76.09	-4.68	66.02	66.19	94.06	3.12
2500	32	2497.18	69.85	10.04	77.11	-3.43	71.27	71.35	92.76	2.19
2532	32	2528.66	75.57	10.56	77.56	-2.18	76.85	76.88	91.62	1.64
2564	32	2560.1	81.53	10.94	78.32	-0.93	82.69	82.69	90.65	1.27
2595	31	2590.49	87.64	11.82	79.01	0.27	88.69	88.69	89.83	2.87
2627	32	2621.76	94.41	12.62	81.55	1.41	95.37	95.38	89.15	3.01
2659	32	2652.94	101.63	13.42	81.6	2.47	102.5	102.53	88.62	2.5
2691	32	2684.03	109.22	14.02	80.95	3.62	110	110.06	88.11	1.94
2722	31	2714.08	116.85	14.49	81.36	4.79	117.54	117.64	87.66	1.55
2754	32	2745.01	125.03	15.17	81.09	6.04	125.63	125.78	87.25	2.14
2817	31	2774.88	133.31	15.8	80.29	7.38	133.8	134	86.84	2.15
2817	32	2805.6	142.27	16.72	81.1	8.83	142.64	142.91	86.46	2.96
2848	31	2835.25	151.31	17.21	81.26	10.22	151.58	151.92	86.14	1.59
2912	64	2896.31	170.5	17.68	80.16	13.32	170.51	171.03	85.53	0.9
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3100	62	3075.3	228	18.08	78.4	23.95	227.04	228.3	83.98	0.52
3163	63	3135.19	247.53	18.09	78.3	27.9	246.19	247.77	83.53	0.05
3227	64	3195.98	267.53	18.38	78.08	32	265.79	267.71	83.14	0.47
3288	61	3253.9	286.67	18.22	80.5	35.56	284.61	286.82	82.88	1.27
3351	63	3313.78	306.25	18	81.12	38.69	303.94	306.39	82.75	0.46
3414	63	3373.75	325.55	17.68	81.89	41.54	323.03	325.69	82.67	0.63
3478	64	3434.78	344.83	17.38	81.56	44.31	342.11	344.96	82.62	0.49
3540	62	3493.93	363.41	17.49	80.92	47.14	360.47	363.54	82.55	0.36
3634	94	3583.56	391.73	17.58	81.13	51.56	388.44	391.85	82.44	0.12
3728	94	3673.18	420.09	17.54	81.21	55.91	416.46	420.2	82.35	0.05
3823	95	3763.78	448.67	17.49	79.99	60.58	444.67	448.77	82.24	0.39
3918	95	3854.39	477.23	17.5	80.29	65.47	472.81	477.32	82.12	0.1
4013	95	3945.1	505.45	17.06	80.14	70.27	500.62	505.53	82.01	0.47
4108	95	4036.01	533	16.69	77.22	75.67	527.65	533.05	81.84	0.97
4203	95	4127.06	560.03	16.46	76.97	81.72	554.07	560.06	81.61	0.25
4267	64	4188.47	578.01	16.27	75.89	85.95	571.6	578.02	81.45	0.56
4329	62	4248	595.29	16.2	77.22	89.98	588.46	595.3	81.31	0.61
4393	64	4309.42	613.23	16.43	77.09	93.98	605.99	613.23	81.18	0.36
4457	64	4370.79	631.33	16.51	76.68	98.1	623.66	631.33	81.06	0.22
4520	63	4431.17	649.25	16.67	75.75	102.39	641.13	649.25	80.93	0.49
4590	70	4498.13	669.55	17.21	75.2	107.51	660.87	669.56	80.76	0.8
4654	64	4559.3	688.32	17.01	78.07	111.86	679.18	688.33	80.65	1.36
4717	63	4619.53	706.78	17.12	77.72	115.74	697.26	706.8	80.58	0.24
4781	64	4680.66	725.71	17.34	78.76	119.6	715.82	725.74	80.51	0.59
4844	63	4740.73	744.68	17.72	80.82	122.96	734.49	744.71	80.5	1.15
4906	62	4799.82	763.44	17.5	81.22	125.89	753.02	763.47	80.51	0.4
4970	64	4860.95	782.4	16.97	80.72	128.86	771.75	782.43	80.52	0.86
5033	63	4921.31	800.46	16.33	80.37	131.82	789.56	800.48	80.52	1.03
5097	64	4982.73	818.46	16.35	81.45	134.66	807.34	818.49	80.53	0.48
5160	63	5043.03	836.7	17.3	80.29	137.56	825.34	836.73	80.54	1.6
5223	63	5103.08	855.75	17.9	80.99	140.66	844.14	855.77	80.54	1.01

