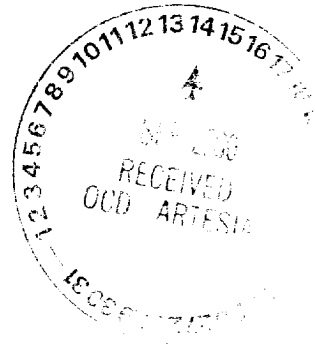


Schlumberger

Anadrill

6-18-31

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



August 26,2000

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

Re: Pogo Production
Shugart #6 Fed # 1
Eddy Co New Mexico
API # 300-153-1313

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	9274-11950	8-26-00=9-6-00	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,

Ernie Fontenot
Well Planner

Cc: Pogo Production

Enclosures: 2

Schlumberger

Anadrill

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 8-26-00 through 9-6-00 conduct or supervise the taking of MWD surveys from a depth of 9274 feet to a depth of 11950 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 Pogo Production ,Shugart # 6 Fed # 1, API # 300-153-1313, 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

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

Anadrill Schlumberger Survey Report 9/4/2000 9:06:09 PM

Magnetic Declination: 9.16 DEG

Tie In Point (TIP):

Measured Depth 9235 FT.
 True Vertical Depth 9230.8 FT.
 Inclination .46 DEG
 Azimuth 281.17 DEG
 N/S Displacement(-ve for S) 221.73 FT.
 E/W Displacement(-ve for W) 17.3 FT.
 Azim. From Rotary Table To Target 157.68 DEG

Accepted Survey Listing:

M.Depth	Int	TVD	Target	S	Incl.	Azim	N.Disp	E.Disp	T.Disp	Clr.Ang	DLS
(ft)	(ft)	(ft)	(ft)	(deg)	(deg)	(deg)	(ft)	(ft)	(ft)	(deg)	(D/HF)
9274	39	9269.8	-198.5	0.5	200.41	221.6	17.09	222.26	4.41	1.6	
9298	24	9293.8	-198.2	1.2	183.53	221.25	17.04	221.91	4.4	3.07	
9330	32	9325.78	-197.13	2.83	171.85	220.13	17.13	220.8	4.45	5.23	
9361	31	9356.72	-195.25	4.3	170.17	218.23	17.44	218.92	4.57	4.75	
9392	31	9387.6	-192.57	5.9	171.58	215.51	17.87	216.25	4.74	5.18	
9424	32	9419.39	-189.06	7.18	173.5	211.9	18.34	212.69	4.95	4.06	
9455	31	9450.08	-184.87	8.92	172.58	207.59	18.87	208.45	5.19	5.63	
9487	32	9481.62	-179.63	10.56	171.8	202.23	19.61	203.18	5.54	5.14	
9518	31	9512.01	-173.72	12.11	171.55	196.2	20.49	197.27	5.96	5	
9549	31	9542.25	-167.06	13.36	169.83	189.46	21.6	190.69	6.5	4.21	
9581	32	9573.32	-159.53	14.4	167.91	181.93	23.09	183.39	7.23	3.55	
9613	32	9604.29	-151.56	14.81	165.56	174.08	24.94	175.86	8.15	2.25	
9645	32	9635.15	-143.18	15.9	165.95	165.87	27.02	168.05	9.25	3.42	
9676	31	9664.87	-134.46	17.21	167.79	157.27	29.02	159.92	10.46	4.55	
9739	63	9724.53	-114.53	20.22	166.69	137.56	33.5	141.58	13.69	4.81	
9771	32	9754.6	-103.74	19.8	168.45	126.87	35.86	131.84	15.78	2.29	
9802	31	9783.85	-93.66	18.86	168.33	116.82	37.92	122.82	17.99	3.03	
9865	63	9843.67	-74.19	17.69	165.94	97.56	42.31	106.34	23.44	2.21	
9896	31	9873.26	-65.02	17.02	164.91	88.61	44.64	99.22	26.74	2.38	
9959	63	9933.64	-47.21	16.16	166.79	71.17	49.04	86.43	34.57	1.61	
10022	63	9994.2	-30.05	15.85	166.07	54.28	53.11	75.95	44.38	0.58	
10085	63	10054.87	-13.31	15.45	169.11	37.69	56.77	68.14	56.42	1.45	
10117	32	10085.67	-4.8	16.1	170.17	29.13	58.33	65.2	63.46	2.22	
10180	63	10146.07	12.84	16.96	165.39	11.63	62.14	63.22	79.4	2.55	
10211	31	10175.79	21.58	16.1	165.25	3.1	64.37	64.45	87.24	2.78	
10274	63	10236.44	38.42	15.28	167.61	-13.46	68.38	69.69	101.13	1.65	
10335	61	10295.32	54.06	15.02	170.06	-29.1	71.47	77.16	112.15	1.13	
10367	32	10326.17	62.35	15.8	170.88	-37.49	72.88	81.95	117.22	2.53	
10398	31	10355.95	70.81	16.5	167.59	-45.96	74.5	87.53	121.67	3.72	
10460	62	10415.51	87.87	15.76	162.79	-62.6	78.88	100.71	128.44	2.46	
10523	63	10476.21	104.69	15.32	162.09	-78.69	83.97	115.08	133.14	0.76	

MDC Operations
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Midland, Texas 79706
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10586	63	10536.6	122.58	17.76	161.08	-95.7	89.65	131.13	136.87	3.9
10617	31	10566.14	131.94	17.5	162.43	-104.62	92.59	139.7	138.49	1.56
10648	31	10595.71	141.21	17.47	164.24	-113.54	95.26	148.21	140	1.76
10679	31	10625.25	150.56	17.85	163.02	-122.56	97.91	156.87	141.38	1.71
10742	63	10685.04	170.35	18.91	162.06	-141.51	103.87	175.54	143.72	1.75
10804	62	10743.67	190.45	19.03	162.23	-160.69	110.05	194.76	145.6	0.21
10836	32	10773.9	200.92	19.3	162.44	-170.7	113.24	204.84	146.44	0.87
10898	62	10832.63	220.71	18.07	162.23	-189.63	119.27	224.01	147.83	1.99
10930	32	10863.07	230.57	17.9	161.74	-199.03	122.33	233.61	148.42	0.71
10993	63	10923.14	249.43	17.21	166.94	-217.3	127.47	251.93	149.6	2.72
11059	66	10986.41	267.7	15.9	175.1	-235.82	130.45	269.5	151.05	4.04
11122	63	11046.98	284.38	16.03	171.47	-253.02	132.48	285.6	152.36	1.6
11185	63	11107.34	302.09	17.3	166.35	-270.73	135.98	302.96	153.33	3.08
11246	61	11165.7	319.64	16.56	166.62	-288	140.13	320.28	154.05	1.22
11309	63	11226.08	337.42	16.6	165.96	-305.46	144.39	337.87	154.7	0.31
11372	63	11286.59	354.76	15.7	165.76	-322.45	148.67	355.08	155.25	1.43
11434	62	11346.35	371.09	15.2	166.37	-338.48	152.65	371.31	155.73	0.85
11497	63	11407.24	386.98	14.52	169.89	-354.28	155.98	387.1	156.24	1.79
11556	59	11464.3	401.61	14.91	170.28	-369.04	158.56	401.66	156.75	0.68
11618	62	11524.18	417.34	15.12	168.48	-384.83	161.52	417.35	157.23	0.82
11681	63	11584.99	433.41	15.17	171.53	-401.03	164.38	433.41	157.71	1.27
11744	63	11645.83	449.37	14.94	169.44	-417.17	167.08	449.38	158.17	0.94
11807	63	11706.71	465.34	14.9	165.6	-433	170.58	465.39	158.5	1.57
11869	62	11766.78	480.46	13.74	168.89	-447.95	173.98	480.55	158.77	2.28
11908	39	11804.75	489.12	12.66	173.16	-456.74	175.38	489.25	158.99	3.73
11950	42	11845.73	498	12.66	173.16	-465.88	176.48	498.18	159.25	0

99 11:28:26 PM

Schlumberger

Anadrill

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

August 26,2000

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

Re: Pogo Production
Shugart #6 Fed # 1
Eddy Co New Mexico
API # 300-153-1313

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	9274-11950	8-26-00=9-6-00	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,

Ernie Fontenot
Well Planner

Cc: Pogo Production

Enclosures: 2

Schlumberger

Anadrill

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 8-26-00 through 9-6-00 conduct or supervise the taking of MWD surveys from a depth of 9274 feet to a depth of 11950 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 Pogo Production ,Shugart # 6 Fed # 1, API # 300-153-1313, 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

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

Anadrill Schlumberger Survey Report 9/4/2000 9:06:09 PM

Magnetic Declination: 9.16 DEG

Tie In Point (TIP):

Measured Depth 9235 FT.
 True Vertical Depth 9230.8 FT.
 Inclination .46 DEG
 Azimuth 281.17 DEG
 N/S Displacement(-ve for S) 221.73 FT.
 E/W Displacement(-ve for W) 17.3 FT.
 Azim. From Rotary Table To Target 157.68 DEG

Accepted Survey Listing:

M.DepthInt (ft)	TVD (ft)	TargetS (ft)	Incl. (deg)	Azim (deg)	N.Disp (ft)	E.Disp (ft)	T.Disp (ft)	Clr.Ang (deg)	DLS (D/HF)
9274	39	9269.8	-198.5	0.5	200.41	221.6	17.09	222.26	4.41
9298	24	9293.8	-198.2	1.2	183.53	221.25	17.04	221.91	4.4
9330	32	9325.78	-197.13	2.83	171.85	220.13	17.13	220.8	4.45
9361	31	9356.72	-195.25	4.3	170.17	218.23	17.44	218.92	4.57
9392	31	9387.6	-192.57	5.9	171.58	215.51	17.87	216.25	4.74
9424	32	9419.39	-189.06	7.18	173.5	211.9	18.34	212.69	4.95
9455	31	9450.08	-184.87	8.92	172.58	207.59	18.87	208.45	5.19
9487	32	9481.62	-179.63	10.56	171.8	202.23	19.61	203.18	5.54
9518	31	9512.01	-173.72	12.11	171.55	196.2	20.49	197.27	5.96
9549	31	9542.25	-167.06	13.36	169.83	189.46	21.6	190.69	6.5
9581	32	9573.32	-159.53	14.4	167.91	181.93	23.09	183.39	7.23
9613	32	9604.29	-151.56	14.81	165.56	174.08	24.94	175.86	8.15
9645	32	9635.15	-143.18	15.9	165.95	165.87	27.02	168.05	9.25
9676	31	9664.87	-134.46	17.21	167.79	157.27	29.02	159.92	10.46
9739	63	9724.53	-114.53	20.22	166.69	137.56	33.5	141.58	13.69
9771	32	9754.6	-103.74	19.8	168.45	126.87	35.86	131.84	15.78
9802	31	9783.85	-93.66	18.86	168.33	116.82	37.92	122.82	17.99
9865	63	9843.67	-74.19	17.69	165.94	97.56	42.31	106.34	23.44
9896	31	9873.26	-65.02	17.02	164.91	88.61	44.64	99.22	26.74
9959	63	9933.64	-47.21	16.16	166.79	71.17	49.04	86.43	34.57
10022	63	9994.2	-30.05	15.85	166.07	54.28	53.11	75.95	44.38
10085	63	10054.87	-13.31	15.45	169.11	37.69	56.77	68.14	56.42
10117	32	10085.67	-4.8	16.1	170.17	29.13	58.33	65.2	63.46
10180	63	10146.07	12.84	16.96	165.39	11.63	62.14	63.22	79.4
10211	31	10175.79	21.58	16.1	165.25	3.1	64.37	64.45	87.24
10274	63	10236.44	38.42	15.28	167.61	-13.46	68.38	69.69	101.13
10335	61	10295.32	54.06	15.02	170.06	-29.1	71.47	77.16	112.15
10367	32	10326.17	62.35	15.8	170.88	-37.49	72.88	81.95	117.22
10398	31	10355.95	70.81	16.5	167.59	-45.96	74.5	87.53	121.67
10460	62	10415.51	87.87	15.76	162.79	-62.6	78.88	100.71	128.44
10523	63	10476.21	104.69	15.32	162.09	-78.69	83.97	115.08	133.14

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10586	63	10536.6	122.58	17.76	161.08	-95.7	89.65	131.13	136.87	3.9
10617	31	10566.14	131.94	17.5	162.43	-104.62	92.59	139.7	138.49	1.56
10648	31	10595.71	141.21	17.47	164.24	-113.54	95.26	148.21	140	1.76
10679	31	10625.25	150.56	17.85	163.02	-122.56	97.91	156.87	141.38	1.71
10742	63	10685.04	170.35	18.91	162.06	-141.51	103.87	175.54	143.72	1.75
10804	62	10743.67	190.45	19.03	162.23	-160.69	110.05	194.76	145.6	0.21
10836	32	10773.9	200.92	19.3	162.44	-170.7	113.24	204.84	146.44	0.87
10898	62	10832.63	220.71	18.07	162.23	-189.63	119.27	224.01	147.83	1.99
10930	32	10863.07	230.57	17.9	161.74	-199.03	122.33	233.61	148.42	0.71
10993	63	10923.14	249.43	17.21	166.94	-217.3	127.47	251.93	149.6	2.72
11059	66	10986.41	267.7	15.9	175.1	-235.82	130.45	269.5	151.05	4.04
11122	63	11046.98	284.38	16.03	171.47	-253.02	132.48	285.6	152.36	1.6
11185	63	11107.34	302.09	17.3	166.35	-270.73	135.98	302.96	153.33	3.08
11246	61	11165.7	319.64	16.56	166.62	-288	140.13	320.28	154.05	1.22
11309	63	11226.08	337.42	16.6	165.96	-305.46	144.39	337.87	154.7	0.31
11372	63	11286.59	354.76	15.7	165.76	-322.45	148.67	355.08	155.25	1.43
11434	62	11346.35	371.09	15.2	166.37	-338.48	152.65	371.31	155.73	0.85
11497	63	11407.24	386.98	14.52	169.89	-354.28	155.98	387.1	156.24	1.79
11556	59	11464.3	401.61	14.91	170.28	-369.04	158.56	401.66	156.75	0.68
11618	62	11524.18	417.34	15.12	168.48	-384.83	161.52	417.35	157.23	0.82
11681	63	11584.99	433.41	15.17	171.53	-401.03	164.38	433.41	157.71	1.27
11744	63	11645.83	449.37	14.94	169.44	-417.17	167.08	449.38	158.17	0.94
11807	63	11706.71	465.34	14.9	165.6	-433	170.58	465.39	158.5	1.57
11869	62	11766.78	480.46	13.74	168.89	-447.95	173.98	480.55	158.77	2.28
11908	39	11804.75	489.12	12.66	173.16	-456.74	175.38	489.25	158.99	3.73
11950	42	11845.73	498	12.66	173.16	-465.88	176.48	498.18	159.25	0

99 11:28:26 PM