AMERADA ET AL CROWN YT-A #1

DEVIATION SURVEYS

Depth	Degrees	Type
60'	1/4	Totco
90'	1/2	"
108'	3/4	"
140'	1/8	"
285'	3/4	"
345'	1	"
360'	1 1/8	"
380'	1 1/2	"
396'	1 3/8	"
413'	1 1/2	"
425'	1 3/8	"
453'	1 3/8	"
470'	1 1/8	"
525'	1 3/4	"
540'	1 5/8	"
550'	1 1/2	"
577'	1 3/4	"
595'	1 3/4	"
615'	1 3/4	"
647'	1 1/2	"
672'	1 1/2	"
700'	1 7/8	"
715'	1 3/4	"
730'	2	"
745'	2	"
760'	2 7/8	"
775'	2 3/8	"
785'	2 3/8	"
790'	2 3/8	"
800'	2 1/2	"
814'	2 1/4	"
825'	2 1/4	"
832'	2 1/8	"
843'	2	"
859'	2 1/8	"
885'	2 3/8	"
905'	2 1/4	"
918'	2	"
932'	2 1/8	"
948'	2 3/8	"
960'	2 1/8	"
975'	2 1/2	"
992'	2 3/4	"
1007'	2 1/4	"
1020'	2 1/4	"
1033'	2	"
1051'	2 1/4	"
1070'	2	"
1092'	2	"
1107'	2 1/8	"
1125'	2	"
1142'	2 1/2	"
1150'	2	"

AMERADA ET AL CROWN YT-A #1

DEVIATION SURVEYS

Depth	Degrees	Type
1165'	1 5/8	Totco
1223'	2 1/4	"
1240'	2 1/2	"
1269'	2 1/4	"
1300'	2 1/2	"
1330'	2 1/2	"
1360'	2 3/4	"
1390'	3	"
1425'	3 1/2	"
1450'	3 3/4	"
1460'	3 1/4	
1490'	3 1/2	"
1520'	4	"
1554'	4	"
1595'	4 1/2	"
1640'	4 1/4	"
1670'	4 1/2	"
1682'	4 3/4	"
1711'	4 1/2	"
1752'	4 3/4	"
1773'	5 1/4	"
1850'	4 3/4	"
1938'	6	"
2000'	5 7/8	"
2035'	5 1/2	"
2122'	7	"
2150'	6 7/8	"
2180'	7 1/8	"
2280'	7 3/4	"
2314'	7 5/8	"
2340'	8 1/8	"
2390'	8 7/8	"
2435'	9	"
2447'	8 1/8	"
2460'	8 1/2	"
2495'	8 3/4	"
2525'	9	"
2560'	9 1/2	"
2690'	9	"
2715'	9	"

United Directional Survey Limited ran a survey and found hole at 2750' to be 8° - 20' S 85 West. 2740' T.V.D. Co-ordinates 40.2 ft. North 135.4 ft. West K.B.

2839'	9° 10' S-89° W	
2860'	9	Totco
2884'	8° 40' N-89° W	Directional Survey
2916'	8° 30' N-84° W	
2936'	8 1/2	Totco

AMERADA ET AL CROWN YT-A #1

DEVIATION SURVEYS

Depth	Degrees	Type
2970'	8° S-89° W	Directional survey
3000'	7 3/4	Totco
3034'	8° N-81°W	Directional survey
3058'	8	Totco
3081'	8° S-89°W	Directional survey
3112'	8 1/2	Totco
3150'	8° 40' N 85° W	Directional survey
3209'	9° 30' N-86° W	Directional survey
3257'	9	Totco
3291'	12° 30' S-79° W	Directional survey
3346'	13	Totco
3410'	14	Totco
3431'	14° 15' N-89° W	Directional survey
3465'	14	Totco
3506'	14° 15' S-77° W	Directional survey
3538'	14 1/4	Totco
3568'	13 1/2	Totco
3611'	14° 15' S-76° W	Directional survey
3650'	14 1/2	Totco
3668'	14° N-76° W	Directional survey
3690'	14 1/4	Totco
3723'	14° 30' S-86° W	Directional survey
3754'	14 3/4	Totco
3773'	15° 45' N-88° W	Directional survey
3785'	16 1/4	Totco
3796'	16° 5' N-87° W	Directional survey
3812'	17° N-85° W	Directional survey
3824'	16° 35' N-84° W	Directional survey
3904'	16° 15' S-85° W	Directional survey
3977'	16° 30' N-72° W	Directional survey
4079'	18° N-75° W	Directional survey
4114'	17° 30' West	Directional survey
4136'	17° 30' N-83° W	Directional survey
4164'	17° N-88° W	Directional survey
4191'	16° 36' N-68° W	Directional survey
4281'	15° 45' S-84° W	Directional survey
4264'	17° 15' N-79° W	Directional survey
4333'	16° N-76° W	Directional survey
4373'	16° 50' N-79° W	Directional survey
4494'	16° 30' N-89° W	Directional survey
4594'	15° N-87° W	Directional survey
4728'	12° 45' N-64° W	Directional survey
4818'	12° N-69° W	Directional survey
4809'	12	Totco
4996'	10° 45' N-71° W	Directional survey
5102'	10° 50' S-89° W	Directional survey
5157'	10° 15' S-78° W	Directional survey
5234'	10° 50' S-84° W	Directional survey
5293'	11 3/4	Totco
5363'	13° N-74° E	Directional survey
5400'	14 1/2	Totco
5463'	15° 45' S-59° W	Directional survey
5534'	16 1/2	Totco

AMERADA ET AL CROWN YT-A #1

DEVIATION SURVEYS

Depth	Degrees	Type
5576'	17° N-81° W	Directional survey
5614'	17° N-81° W	Directional survey
5708'	18° S-84° W	Directional survey
5808'	19° S-54° W	Directional survey
5922'	21° S-64° W	Directional survey
6025'	23° S-69° W	Directional survey
6126'	25° S-59° W	Directional survey
6180'	26° S-69° W	Directional survey
6222'	25° 45' S-84° W	Directional survey
6320'	26° 15' S-69° W	Directional survey
6339'	27° S-64° W	Directional survey
6403'	24° 45' S-74° W	Directional survey
6467'	24° 15' S-82° W	Directional survey
6532'	24° S-74° W	Directional survey
6615'	23° S-79° W	Directional survey
6736'	22° 15' S-81° W	Directional survey
6834'	20° 30' S-84° W	Directional survey
6929'	20° 15' S-84° W	Directional survey
7104'	18° S-61° W	Directional survey
7188'	21° 30' S-81° W	Directional survey
7260'	20° 30' S-56° W	Directional survey
7355'	19° 30' S-74° W	Directional survey
7437'	15° 30' S-66° W	Directional survey
7522'	14° S-61° W	Directional survey
7605'	12	Totco
7660'	10	Totco
7735'	11	Totco
7804'	10 3/4	Totco
7860'	10 3/4	Totco

All Totco surveys were dropped inside drill pipe. All directional surveys were run in open hole on sandline.

REPORT

and

PLAN

of

SUB-SURFACE

SURVEY

AMERADA PETROLEUM CORPORATION

AMERADA ET AL CROWN Y.T. "A" NO. 1

Date OCTOBER 1960

UNITED DIRECTIONAL DRILLING LTD.

RECORD OF MAGNETIC SURVEY

AMERADA PETROLEUM CORPORATION

AMERADA etal CROWN YT 'A' #1

DATE October 1960.

	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST	REMARKS DOGLEGS
1	1350.00		ASSUMED VERTICAL	TO THIS DEPTH		FOR ALL	INTENTS	AND PURPOSES.		
2	1450.00	3° 30'	1449.81	6.10	N 18 W	5.80			1.88	
3	1500.00	4° 00'	1499.69	3.49	N 16 W	9.15			2.84	0° 31'
4	1550.00	4° 10'	1549.56	3.63	N 24 W	12.47			4.12	0° 36'
5	1600.00	4° 25'	1599.41	3.85	N 39 W	15.09			6.43	1° 09'
6	1650.00	4° 40'	1649.25	4.07	N 21 W	18.89			7.89	1° 27'
7	1700.00	4° 35'	1699.09	3.99	N 32 W	22.27			10.00	0° 53'
8	1750.00	5° 00'	1748.90	4.36	N 32 W	25.97			12.31	0° 25'
9	1800.00	5° 05'	1798.71	4.43	N 44 W	29.16			15.39	1° 03'
10	1850.00	5° 10'	1848.51	4.50	N 37 W	32.73			18.10	0° 38'
11	1900.00	5° 30'	1898.28	4.79	N 50 W	35.81			21.77	1° 15'
12	1950.00	5° 45'	1948.03	5.01	N 62 W	38.16			26.19	1° 12'
13	2000.00	5° 40'	1997.78	4.93	N 63 W	40.40			30.58	0° 08'
14	2050.00	6° 10'	2047.49	5.37	N 78 W	41.52			35.83	1° 37'
15	2100.00	6° 50'	2097.14	5.95	N 78 W	42.76			41.63	0° 40'
16	2150.00	7° 05'	2146.76	6.16	N 81 W	43.72			47.71	0° 26'
17	2200.00	7° 10'	2196.37	6.24	WEST	43.72			53.95	1° 07'
18	2250.00	7° 50'	2245.91	6.81	N 86 W	44.20			60.76	0° 58'
19	2300.00	8° 20'	2295.38	7.24	S 78 W	42.69			67.84	2° 18'
20	2350.00	8° 50'	2344.89	7.68	S 81 W	41.49			75.33	0° 40'
21	2400.00	8° 55'	2394.29	7.75	S 80 W	40.14			82.96	0° 10'
22	2450.00	8° 45'	2444.80	7.60	S 79 W	38.69			90.42	0° 14'
23	2500.00	8° 55'	2493.20	7.75	N 83 W	40.07			98.12	2° 46'
24	2550.00	9° 00'	2542.59	7.82	N 80 W	41.43			105.82	0° 29'
25	2600.00	8° 50'	2592.00	7.68	N 80 W	42.76			113.39	0° 10'

RECORD OF MAGNETIC SURVEY

AMERADA PETROLEUM CORPORATION

AMERADA etal CRWON YT 'A' # 1

DATE October 1960.

	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST	REMARKS Doglegs
26	2650.00	8° 45'	2641.41	7.60	S 80 W	41.44			120.89	3° 20'
27	2700.00	8° 25'	2690.87	7.32	S 85 W	40.80			128.18	0° 49'
28	2750.00	8° 20'	2740.34	7.25	S 85 W	40.17			135.40	0° 05'
29	2839.00	9° 10'	2828.20	14.18	S 89 W	39.92			149.58	1° 02'
30	2884.00	8° 40'	2872.69	6.78	N 89 W	40.04			156.36	0° 35'
31	2916.00	8° 30'	2904.34	4.73	N 84 W	40.53			161.06	0° 46'
32	2970.00	8° 00'	2957.82	7.52	S 89 W	40.40			168.58	1° 07'
33	3034.00	8° 00'	3021.20	8.91	N 81 W	41.79			177.38	1° 14'
34	3081.00	8° 00'	3067.74	6.54	S 89 W	41.68			183.92	1° 24'
35	3150.00	8° 40'	3135.95	10.40	N 85 W	42.59			194.28	1° 06'
36	3209.00	9° 30'	3194.14	9.74	N 86 W	43.27			204.00	0° 51'
37	3291.00	12° 30'	3274.20	17.74	S 79 W	39.89			221.41	4° 08'
38	3431.00	14° 15'	3409.89	34.47	N 89 W	40.49			255.87	3° 17'
39	3506.00	14° 15'	3482.58	18.47	S 77 W	36.33			273.87	3° 28'
40	3611.00	14° 15'	3583.61	25.85	S 76 W	30.08			298.95	0° 15'
41	3668.00	14° 00'	3638.92	13.79	N 76 W	33.42			312.23	6° 50'
42	3723.00	14° 30'	3692.17	13.77	S 86 W	32.46			326.07	4° 29'
43	3773.00	15° 45'	3740.30	13.57	N 88 W	32.93			339.63	2° 01'
44	3796.00	16° 50'	3762.40	6.37	N 87 W	33.26			345.99	0° 26'
45	3812.00	17° 00'	3777.70	4.68	N 85 W	33.67			350.65	1° 05'
46	3824.00	16° 35'	3789.20	3.42	N 84 W	34.03			354.05	0° 30'
47	3904.00	16° 15'	3866.00	22.38	S 85 W	32.08			376.34	3° 10'
48	3977.00	16° 30'	3935.99	20.73	N 72 W	38.49			396.06	6° 32'
49	4079.00	18° 00'	4033.00	31.52	N 78 W	45.04			426.89	2° 21'
50	4114.00	17° 30'	4066.38	10.52	WEST	45.04			437.41	3° 45'

FORM No. U-54

RECORD OF MAGNETIC SURVEY

AMERADA PETROLEUM CORPORATION

AMERADA etal CROWN YT 'A' # 1

DATE October 1960.

	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST	REMARKS DOGLEGS
51	4136.00	17° 30'	4087.36	6.61	N 83 W	45.85			443.97	2° 08'
52	4164.00	17° 00'	4114.14	8.19	N 88 W	46.14			452.16	1° 35'
53	4191.00	16° 35'	4140.02	7.71	N 68 W	49.03			459.31	5° 51'
54	4264.00	17° 15'	4209.74	21.64	N 69 W	56.79			479.51	0° 44'
55	4281.00	15° 45'	4226.10	4.61	S 84 W	56.31			484.09	7° 50'
56	4333.00	16° 00'	4276.09	14.33	N 76 W	59.78			497.99	5° 31'
57	4373.00	16° 50'	4314.38	11.58	N 79 W	61.99			509.36	1° 12'
58	4494.00	16° 30'	4430.39	34.36	N 89 W	62.57			543.71	2° 55'
59	4594.00	15° 00'	4526.98	25.88	N 87 W	63.94			569.55	1° 36'
60	4728.00	12° 45'	4657.67	29.57	N 64 W	76.90			596.13	5° 56'
61	4818.00	12° 00'	4745.70	18.71	N 69 W	83.61			613.60	1° 19'
62	4996.00	10° 45'	4920.59	33.20	N 71 W	94.42			644.99	1° 18'
63	5102.00	10° 50'	5024.70	19.93	S 89 W	94.07			664.92	3° 45'
64	5157.00	10° 15'	5078.82	9.78	S 78 W	92.04			674.49	2° 06'
65	5234.00	10° 15'	5154.59	14.70	S 84 W	90.61			688.11	1° 04'
66	5363.00	13° 00'	5280.29	29.29	N 74 W	98.61			716.02	5° 12'
67	5463.00	15° 45'	5376.54	27.14	S 59 W	84.63			739.28	11° 44'
68	5576.00	17° 00'	5484.60	33.04	N 81 W	89.80			771.91	11° 16'
69	5614.00	17° 00'	5520.94	11.81	N 81 W	91.54			782.88	0° 00'
70	5708.00	18° 00'	5610.34	29.05	S 84 W	88.50			811.77	4° 20'
71	5808.00	19° 00'	5704.89	32.56	S 54 W	69.38			838.11	9° 37'
72	5922.00	21° 00'	5811.32	40.86	S 64 W	51.45			874.84	4° 01'
73	6025.00	23° 00'	5906.13	40.24	S 69 W	37.03			912.41	2° 46'
74	6126.00	25° 00'	5997.67	42.68	S 59 W	15.05			949.00	4° 38'
75	6180.00	26° 00'	6046.21	23.67	S 69 W	6.57			971.10	4° 33'

FORM No. U-34

RECORD OF MAGNETIC SURVEY

AMERADA PETROLEUM CORPORATION

AMERADA etal CROWN YT 'A' # 1

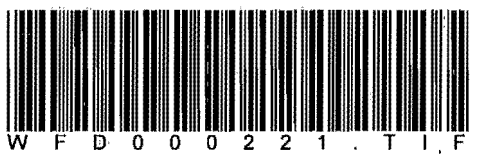
DATE October 1960.

	MEASURED DEPTH	DRIFT ANGLE	TRUE VERTICAL DEPTH	COURSE DEVIATION	DRIFT DIRECTION	RECTANGULAR COORDINATES NORTH	SOUTH	EAST	WEST	REMARKS
76	6222.00	25° 45'	6084.04	18.25	S 84 W	4.66			989.25	6° 46'
77	6320.00	26° 15'	6171.94	43.35	S 69 W		10.88		1027.72	6° 48'
78	6339.00	27° 00'	6188.87	8.63	S 64 W		14.66		1037.48	2° 27'
79	6403.00	24° 45'	6246.99	26.80	S 74 W		22.05		1063.24	5° 04'
80	6467.00	24° 15'	6305.35	26.29	S 82 W		25.71		1089.27	3° 37'
81	6532.00	24° 00'	6364.73	26.44	S 74 W		33.00		1114.69	3° 22'
82	6616.00	23° 00'	6442.05	32.82	S 79 W		39.26		1146.91	2° 17'
83	6737.00	22° 15'	6554.04	45.81	S 81 W		46.42		1192.16	1° 05'
84	6835.00	20° 30'	6645.84	34.32	S 84 W		50.01		1226.29	2° 05'
85	6930.00	20° 15'	6734.97	32.88	S 84 W		53.45		1258.99	0° 15'
86	7014.00	21° 00'	6813.39	30.11	S 59 W		68.96		1284.80	8° 58'
87	7105.00	18° 00'	6899.94	28.12	S 61 W		82.59		1309.39	3° 05'
88	7189.00	21° 30'	6978.09	30.79	S 81 W		87.41		1339.80	7° 41'
89	7261.00	20° 30'	7045.53	25.21	S 56 W		101.51		1360.70	9° 09'
90	7356.00	19° 30'	7135.08	31.71	S 74 W		110.25		1391.18	6° 19'
91	7438.00	15° 30'	7214.10	21.91	S 66 W		119.16		1411.20	4° 41'
92	7523.00	14° 30'	7296.39	21.28	S 61 W		129.48		1429.84	1° 39'

CLOSURE = (1435566 ft. South 84° 50' West)

FORM No. U-54

Wide Format Document 000221



PLACEHOLDER

part 1

This wide format document marker is a two part item. Part one goes into the source material. The part 2 is paperclipped to the wide format item iteself. Scanning of wide format document as per IMRM DMS Standard. The file name is the barcode above. Confirm

II

WELL AMERADA PET. AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W _____ M. AREA _____

SPUDDED _____ 19 _____ COMPLETED _____ 19 _____

1.

AMERADA

BIT PERFORMANCE RECORD

6. BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT FROM	DEPTH FT TO	FOOTAGE FT.	TIME HRS.	PEN RATE FT./HR	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
1	8 5/8	HTC OSC		0	47	47	1.50	3.13		2	100	47	1.50	31.33					Fair
2	12 1/4	HTC OSC-3		47	145	98	6.75	2.15		20	100	145	8.25	17.57	47	6.50			Fair
3	24"	HTC OSC-2		145	155	10	1.00	10.00		20	100	155	9.25	16.76					Good
4	24	HTC OSC-2													clean out				
5	8 5/8	HTC OSC		155	200	45	3.75	12.00				200	13.00	15.38					
6	8 5/8	HTC ONV		Clean out To Bottom					Conductor	Washed out									
7	8 5/8	HTC ONV		Clean out To Bottom					Conductor	Washed out		Re Cemented							
8	8 5/8	HTC ONV		Clean out To Bottom					Conductor	Washed out		Re Cemented							
9	8 5/8	HTC ONV		Clean out To Bottom					Conductor	Washed out		Re Cemented							
10	8 5/8	HTC OSC		200	310	110	7.00	15.71		10	90	310	20.00	15.50	Conductor Washed out				Fair
11	8 5/8	HTC OSC		310	347	37	4.50	8.22		6	110	347	24.50	14.16					Dull
12	8 5/8	Reed YSI		347	375	28	5.75	4.87		3	160	375	30.25	12.40					Good
13	12 1/4	HTC ONV								2	160				147	10.25	STRATEN HOLE		Fair
14	12 1/4	HTC ONV								2	160				23	7.50	STRATEN Hole		Fair
15	8 5/8	HTC OSC								4	100				16	2.50	STRATEN Hole		Good
16	12 1/4	HTC ONV								4	100				33	9.50			Good
17	12 1/4	HTC ONV		375	380	5	2.75	1.82		2	170	380	33.00	11.52					Dull
18	7 7/8	HTC ONC		380	425	45	19.00	2.37		2	180	425	52.00	8.17					Bald
19	8 5/8	HTC ONC		425	485	60	7.25	8.28		6	180	485	59.25	8.19					Dull Ud
20	8 5/8	HTC OSC		485	516	31	5.00	6.20		4	180	516	64.25	8.03					Dull
21	7 7/8	HTC ONC		516	550	34	3.75	9.07		6	100	550	68.00	8.09					Good
22	8 5/8	HTC OSC		550	580	30	3.00	10.00		6	140	580	71.00	8.17					Dull
23	7 7/8	HTC W7R		580	617	37	6.25	5.92		5	140	617	77.25	7.99	34	6.25			Dull
24	8 5/8	HTC ONC		617	647	30	4.75	6.31		6	100	654	82.00	7.98	37	6.75			Good
25	8 5/8	Reed 4T		647	672	25	4.50	5.56		6	140	672	86.50	7.77					Dull

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L.S.D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT./HR.	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
26	8 5/8	HTC-OWC		672	702	30	6.75	4.44		4	170	702	93.25	7.53					Dull.
27	8 5/8	HTC-OSC										Conductor			WP shoot	out	Recement		
28	8 5/8	HTC-OSC		702	705	3	2.50	1.20		3	140	705	95.75	7.36					Dull
29	8 5/8	HTC-OSC		705	734	29	7.00	4.14		4	140	734	102.75	7.14					Dull
30	8 5/8	HTC-OSC		734	762	28	6.25	4.48		3	170	762	109.00	6.99					Dull
31	12 1/4	Reed R. Reamer								10	170				240	9.50			Fair
32	12 1/4	Reed R. Reamer								10	170				148	8.75			Dull
33	12 1/4	Reed R. Reamer								10	180				32	2.75			Dull
34	12 1/4	" " "								10	180				50	9.25			Dull
35	12 1/4	HTC W7R		762	765	3	2.50	1.20		2	180	765	111.50	6.86					Dull
36	7 7/8	HTC OWC		765	785	20	8.00	2.50		2	180	785	119.50	6.57					Very Dull
37	7 7/8	HTC OWC		785	791	6	3.00	2.00		4	180	791	122.50	6.46					Very Dull
38	7 7/8	HTC OWC		791	801	10	6.00	1.67		4	170	801	128.50	6.23					Very Dull
39	7 7/8	HTC OWC		801	814	13	6.50	2.00		4	170	814	135.00	6.03					Very Dull
40	7 7/8	HTC OWC		814	826	12	12.50	.96		4	180	826	147.50	5.60					Dull
41	7 7/8	HTC OWC		826	828	2	2.00	1.00		4	180	828	149.50	5.54					Twisted off Dull.
42	8 5/8	HTC OWC		828	832	4	2.25	1.78		4	180	832	151.75	5.48	66'	3.75			Dull
43	8 5/8	HTC OWC		832	844	12	6.00	2.00		4	180	844	157.75	5.35					Dull
44	8 5/8	HTC W7		844	859	15	6.50	2.31		5	180	859	164.25	5.23					Dull
45	8 5/8	HTC W7		859	874	15	5.25	2.86		4	180	874	169.50	5.16					Twisted off Dull
46	8 5/8	Reed 4H		874	893	19	6.50	2.92		5-4	180	893	176.00	5.07					Dull
47	8 5/8	HTC W-7		893	906	13	4.75	2.74		4	140	906	180.75	5.01					Dull
48	8 5/8	HTC W-7		906	918	12	4.50	2.67		4	180	918	185.25	4.96					Dull
49	8 5/8	Reed 4H		918	924	6	3.50	1.71		3	140	924	188.75	4.90					Dull
50	8 5/8	HTC W7		924	932	8	5.50	1.45		3	160	932	194.25	4.80					Dull

WELL AMERADA ET AL COOK YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT./HR.	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
51	8 5/8	HTC W7		932	942	10	5.50	1.82		3	160	942	199.75	4.72					Dull
52	8 5/8	HTC W7		942	950	8	4.25	1.88		3	190	950	204.00	4.66					Dull
53	8 5/8	HTC OWC		950	954	4	5.00	.80		3	190	954	209.00	4.56					Dull
54	8 5/8	HTC W7		954	957	3	3.75	.80		3	160	957	212.75	4.50					Twisted off BC
55	8 5/8	Reed YHN		957	961	4	3.75	1.07		3	140	961	216.50	4.44					FAIR
56	8 5/8	HTC W7		961	965	4	2.25	1.78		3	180	965	218.75	4.41					Loose
57	8 5/8	HTC W7		965	971	6	2.00	3.00		3	144	971	220.75	4.40					Loose
58	8 5/8	HTC W7		971	981	10	6.00	1.67		3	144	981	226.75	4.33					Loose
59	8 5/8	HTC OWC		981	992	11	5.25	2.10		3	144	992	232.00	4.28					Loose
60	8 5/8	HTC OWC		992	1002	10	5.25	1.90		3	140	1002	237.25	4.22					Loose
61	8 5/8	HTC OWC		1002	1010	8	5.75	1.39		2	140	1010	243.00	4.16					Loose
62	8 5/8	HTC OWC		1010	1017	7	4.50	1.56		2	140	1017	247.50	4.11					Loose
63	8 5/8	HTC OWV		1017	1025	8	6.00	1.33		2	140	1025	253.50	4.04					Loose
64	8 5/8	HTC OWC		1025	1033	8	3.75	2.13		2	140	1033	257.25	4.02					Loose
65	8 5/8	HTC OWC		1033	1042	9	6.75	1.33		2	140	1042	264.00	3.95					Loose
66	8 5/8	HTC W7		1042	1052	10	5.75	1.74		2	150	1052	269.75	3.90					Loose
67	8 5/8	HTC OWV		1052	1064	12	5.00	2.40		2	150	1064	274.75	3.87					Loose
68	8 5/8	HTC OWV		1064	1070	6	4.00	1.50		2	148	1070	278.75	3.84					Loose
69	8 5/8	HTC OWC		1070	1083	13	7.00	1.86		2	148	1083	285.75	3.79					Loose
70	8 5/8	HTC OWC		1083	1096	13	7.00	1.86		2	148	1096	292.75	3.74					Loose
71	8 5/8	HTC OWC		1096	1107	11	5.50	2.00		2	150	1107	298.25	3.71					Loose
72	8 5/8	HTC OWV		1107	1126	19	7.00	2.71		2	150	1126	305.25	3.69					Loose
73	8 5/8	Reed 2C		1126	1143	17	6.75	2.52		2	150	1143	312.00	3.66					Loose
74	8 5/8	HTC OSC		1143	1150	7	3.75	1.87		2	150	1150	315.75	3.64					Loose
75	8 5/8	HTC OSC		1150	1166	16	7.00	2.29		2	145	1166	322.75	3.61					Loose

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN RATE FT./HR.	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
76	8⅝	HTC OSC		1166	1177	11	5.00	2.20		2	145	1177	327.75	3.59					Reams
77	8⅝	HTC OSC		1177	1189	12	5.50	2.18		1	150	1189	333.25	3.57					Reams
78	8⅝	HTC ONV		1189	1200	11	5.25	2.10		1	150	1200	338.50	3.55					Reams out of Bushg
79	12¼	Reed Reamer		Hard						1	150				82	6.25			Dull
80	12¼	Reed Reamer	Repressed	Hard						3	150				81	6.00			Dull
81	12¼	Reed Reamer	Repress	Hard						6	150				8	3.50			Dull
82	12¼	Reed Reamer	1	Hard						8	150				19	4.50			Dull
83	12¼	Reed Reamer	Repressed	Hard						10	150				9	4.25			Dull
84	12¼	Reed Reamer		Hard						5	150				173	6.50			Dull
85	12¼	Reed Reamer	Repress	Hard						6	150				62	4.50			Dull
86	17½	Reed Reamer	SOFT	Hard						5	140				131	7.00			Dull
87	17½	Reed Reamer	SOFT	Hard						10	140				45	6.00			Dull
88	17½	Reed Reamer	Hard	Hard						10	140				78	8.75			Dull
89	17½	Reed Reamer	Hard	Hard						10	140				98	12.75			Dull
90	17½	Reed Reamer	Rerun	Hard						10	140				75	8.75			Dull
91	17½	Reed Reamer	Repress	Hard						10	140				79	13.00			Dull
92	17½	Reed Reamer	Repress	Hard						5-10	150				83	10.00			Dull
93	17½	Reed Reamer	Repress	Lost cone						10	140				20	8.75			Dull
94	17½	Reed Reamer	Repress	Hard						10	140				12	5.50			Dull
95	17½	Reed Reamer	Return	Hard						10	140				8	2.00			Dull
96	17½	Reed Reamer	Repress	Hard						11	140				23	6.75			Dull
97	17½	Reed Reamer	Repress	Hard						10	140				10	4.50			Dull
98	17½	HTC OSC-2		Hard						10	140				16	6.25			Dull
99	17½	Reed Reamer	Repress	Hard						10	140				43	10.25			Dull
100	17½	Reed Reamer	Repress	Hard						12	140				12	6.00			Dull

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT./HR	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
101	17½	Reed Reamer	Rerun	Hard						10	140				2	3.00			Dull
102	17½	Reed Reamer	Repress	Hard						10	140				19	8.25			Dull
103	17½	Reed Reamer	Repress	Hard						10	140				15	7.75			Dull
104	17½	Reed Reamer	Rerun	Hard						10	140				7	4.00			Dull
105	17½	Reed Reamer	Rerun	Hard						10	140				10	3.50			Twisted
106	17½	Reed Reamer	Repress	Soft						10	140				30	7.25			Dull
107	17½	Reed Reamer	Repress	Soft						10	140				67	7.50			Dull
108	17½	Reed Reamer	Repress	Hard						10	140				65	16.75			Dull
109	17½	Reed Reamer	Repress	Hard						10	140				8	4.00			Twisted
110	17½	Reed Reamer	Repress	Hard						10	140				4	1.50			On Jets
111	12¼	HTC OSC		1200	1202	2	1.00	1.00	Drilled cement to plug			1202	339.50	3.54					Good
112	8⅝	HTC OWC		1202	1223	21	7.00	3.00		4	120	1223	346.50	3.53					211
113	8⅝	HTC OWC		1223	1244	21	6.75	3.11		5	150	1244	353.25	3.52					Dull
114	8⅝	HTC OWC		1244	1269	25	8.25	3.03		6	120	1269	361.50	3.51					211
115	8⅝	HTC OWC		1269	1300	31	7.00	4.43		6	120	1300	368.50	3.53					211
116	8⅝	HTC OWV		1300	1392	92	14.00	6.57		8-10	120	1392	382.50	3.64					321
117	8⅝	HTC OWV		1392	1447	55	11.75	4.68		6	120	1447	394.25	3.67					Dull
118	8⅝	HTC OWC		1447	1461	14	7.00	2.00		6	120	1461	401.25	3.64					Dull
119	8⅝	Reed YM		1461	1464	3	3.75	.80		4	120	1464	405.00	3.61					Dull
120	8⅝	HTC OWC		1464	1490	26	10.75	2.42		12	120	1490	415.75	3.58					Dull
121	8⅝	Reed YM		1490	1529	39	6.75	5.78		8	120	1529	422.50	3.62					22 I
122	8⅝	HTC OWC		1529	1554	25	8.50	2.94		10	120	1554	431.00	3.61					221
123	8⅝	HTC OWC		1554	1596	42	8.25	5.09		10	120	1596	439.25	3.63					211
124	8⅝	HTC OWV		1596	1644	48	12.75	3.76		12	100	1644	452.00	3.64					221
125	8⅝	Reed YSI		1644	1670	26	8.00	3.25		10	100	1670	460.00	3.63					211

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT / HR	DEVIATION DEGREES	WT. M	TABLE R. P. M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
126	8 5/8	HTC ONV		1670	1683	13	5.00	2.60		10	100	1683	465.00	3.62					211
127	8 5/8	HTC ONV		1683	1711	28	9.75	2.87		16	100	1711	474.75	3.60					211
128	8 5/8	Reed YM		1711	1752	41	11.00	3.73		15	120	1752	485.75	3.61					211
129	8 5/8	Reed YM		1752	1753	1	1.00	1.00		15	120	1753	486.75	3.60					311 Twist off
130	8 5/8	Reed YM		1753	1773	20	9.25	2.16		15	120	1773	496.00	3.57					321
131	8 5/8	HTC W7		1773	1810	37	13.25	2.79		15	120	1810	509.25	3.55					421
132	8 5/8	HTC W7		1810	1850	40	10.75	3.72		12	120	1850	520.00	3.56					421
133	8 5/8	HTC W7		1850	1938	88	12.25	7.18		12	120	1938	532.25	3.64					221
134	8 5/8	HTC ONV		1938	2000	62	12.50	4.96		7	130	2000	544.75	3.67					121
135	8 5/8	HTC OSC		2000	2035	35	11.50	3.04		7	130	2035	556.25	3.66					211
136	8 5/8	HTC ONV		2035	2122	87	15.25	5.70		10	130	2122	571.50	3.71					221
137	8 5/8	HTC ONV		2122	2187	65	11.50	5.65		6	120	2187	583.00	3.75					111
138	8 5/8	HTC ONV		2187	2254	67	16.75	4.00		6	120	2254	599.75	3.76					221
139	8 5/8	HTC ONV		2254	2314	60	16.00	3.75		6	120	2314	615.75	3.76					111
140	8 5/8	HTC ONV		2314	2391	77	17.50	4.40		6	120	2391	633.25	3.78					111
141	8 5/8	HTC ONV		2391	2447	56	15.00	3.73		7	120	2447	648.25	3.77					121
142	8 5/8	HTC ONV		2447	2536	89	20.00	4.45		7	120	2536	668.25	3.79					111
143	8 5/8	Reed YSI		2536	2602	66	17.00	3.88		9	120	2602	685.25	3.80					Mis Loaded
144	8 5/8	HTC ONV		2602	2754	152	26.00	5.85		7-10	120	2754	711.25	3.87					111
145	8 5/8	HTC ONV		2754	2841	87	14.50	6.00		14	110	2841	725.75	3.91					Dull
146	8 5/8	HTC ONV		2841	2852	11	5.50	2.00		14	110	2852	731.25	3.90					Dull
147	8 5/8	HTC W7		2852	2860	8	7.50	1.07		14	110	2860	738.75	3.87					21 I
148	8 5/8	HTC W7		2860	2884	24	9.50	2.53		14	110	2884	748.25	3.85					21 I
149	8 5/8	HTC W7		2884	2916	32	11.00	2.91		14	110	2916	759.25	3.84					31 I
150	8 5/8	HTC W7		2916	2936	20	9.50	2.11		20	110	2936	768.75	3.82					31 I

WELL AMERADA PET. & C. CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L.S.D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

(5) BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN RATE FT/HR	DEVIATION DEGREES	WT. M	TABLE R.P.M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
151	8 5/8	HTC W7		2936	2970	34	9.25	1.14		20	110	2970	778.00	3.82					3 I
152	8 5/8	HTC W7		2970	3002	32	9.50	3.37		30	110	3002	787.50	3.81					3 I
153	8 5/8	HTC W7		3002	3024	22	9.25	2.38		30	110	3024	796.75	3.80					2 I
154	8 5/8	HTC W7		3024	3058	34	10.25	3.32		30	110	3058	807.00	3.79					3 I
155	8 5/8	HTC W7		3058	3081	23	9.00	2.56		30	110	3081	816.00	3.78					3 I
156	8 5/8	HTC OWC		3081	3112	31	10.00	3.10		30	70	3112	826.00	3.77					2 I
157	8 5/8	HTC OWC		3112	3149	37	8.75	4.23		32	60	3149	834.75	3.77					2 I
158	8 5/8	HTC OWC		3149	3209	60	17.00	3.53		32	60	3209	851.75	3.77					3 I
159	8 5/8	HTC OWV		3209	3291	82	13.25	6.19		32	60	3291	865.00	3.80					3 I
160	8 5/8	HTC OWV		3291	3346	55	11.75	4.68		20	60	3346	876.75	3.82					2 I
161	8 5/8	HTC OWV		3346	3431	85	16.00	5.31		10	120	3431	892.75	3.84					3 I
162	8 5/8	HTC OWV		3431	3506	75	12.25	6.12		10	120	3506	905.00	3.87					2 2 I
163	8 5/8	HTC OWV		3506	3569	63	11.25	5.60		10	120	3569	916.25	3.90					2 2 I
164	8 5/8	HTC OWV		3569	3611	42	10.75	3.91		10	120	3611	927.00	3.90					2 2 I
165	8 5/8	HTC OWV		3611	3651	40	9.50	4.21		10	120	3651	936.50	3.90					3 2 I
166	8 5/8	HTC OWV		3651	3668	17	6.50	2.62		10	110	3668	943.00	3.89					3 2 I
167	8 5/8	HTC OWV		3668	3691	23	6.50	3.54		20	110	3691	949.50	3.89					2 2 I
168	8 5/8	HTC OWC		3691	3723	32	7.00	4.57		20	110	3723	956.50	3.89					4 2 I
169	8 5/8	HTC W7		3723	3729	6	4.00	1.50		20	120	3729	960.50	3.88					4 2 I
170	8 5/8	HTC W7R		3729	3754	25	9.00	2.78		30	60	3754	969.50	3.87					3 2 I
171	8 5/8	Reed YH		3754	3773	19	6.50	2.92		30	60	3773	976.00	3.87					3 1 I
172	8 5/8	Reed YH		3773	3786	13	6.50	2.00		30	60	3786	982.50	3.85					4 4 O
173	8 5/8	HTC W7R		3786	3796	10	6.50	1.54		30	60	3796	989.00	3.84					2 I
174	8 5/8	Reed YH		3796	3801	5	4.75	1.05		30	60	3801	993.75	3.82					4 4 O
175	8 5/8	Reed YH		3801	3812	11	8.75	1.26		30	60	3812	1002.50	3.80					4 4 O

WELL AMERADA ET AL CROWN YT-A #1

Rig No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT NO.	BIT INFORMATION: HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DRILLED FOOTAGE AND HOURS: DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT./HR.	SURVEYS: DEVIATION DEGREES	ROTARY: WT. M	TABLE R. P. M.	ACCUMULATIVE FOOTAGE DRILLED: FOOTAGE	HOURS	PEN. RATE	REAMING: FOOTAGE	HOURS	CORING: FOOTAGE	HOURS	CONDITION AND REMARKS
176	8¾	HTC W7R		3812	3820	8	4.50	1.78		30	60	3820	1002.00	3.79					H 2 E
177	8¾	HTC W7R		3820	3824	4	3.25	1.23		30	60	3824	1010.25	3.79					H 2 E
178	8¾	HTC RG3		3824	3824					15	50				7	1.50			FBIR
179	8¾	HTC RG1J		3824	3904	80	27.00	2.96		35	38	3904	1037.25	3.76					1 C
180	8¾	HTC RG1J		3904	3962	58	18.50	3.14		35-40	38	3962	1055.75	3.75					3 I
181	8¾	HTC RG1J RR		3962	3977	15	7.75	1.94		40	38	3977	1063.50	3.74					3 I
182	8¾	HTC RG1J		3977	4079	102	37.00	2.76		40	38	4079	1100.50	3.71					H 2 I
183	8¾	HTC RG1J		4079	4114	35	17.00	2.06		40	38	4114	1117.50	3.68					H 2 I
184	8¾	HTC RG3 RR		4114	4114					35	50				4	2.00			D. 11
185	8¾	HTC W7R		4114	4115	1	2.00	.50		40	38	4115	1119.50	3.68					3 3 I
186	8¾	HTC RG1J		4115	4130	15	11.00	1.36		40	35	4130	1130.50	3.65					3 I
187	8¾	Reed 4 H V		4130	4136	6	7.25	.83		40	35	4136	1137.75	3.64					H 2 O
188	8¾	Reed 2 C N V		4136	4138	2	2.50	.80		40	35	4138	1140.25	3.63					3 2 I
189	8¾	HTC RG1J		4138	4164	26	15.25	1.70		40	35	4164	1155.50	3.60					4 H. O Lost 2 Cones
190	8¾	Reed 2 C		4164	4164		Milled on		Iron										3 I E
191	8¾	HTC RG1J		4164	4178	14	9.25	1.51		40	34	4178	1164.75	3.59					2 I E
192	8¾	HTC RG1J		4178	4191	13	8.75	1.49		40	34	4191	1173.50	3.57					2 2 O
193	8¾	HTC RG1J		4191	4195	4	3.25	1.23		40	34	4195	1176.75	3.56					O I I
194	6½	HycaLog DIAMOND		4195	4208	13	6.75	1.93		12-14	65	4208	1183.50	3.56			13	6.75	Core #6
195	8¾	HTC RG3		4208	4208										13	4.25			1 4 I E
196	8¾	HTC RG1J		4208	4231	23	11.25	2.04		45	34	4231	1194.75	3.54					2 2 I
197	8¾	HTC RG1J		4231	4249	18	6.50	2.77		45	34	4249	1201.25	3.54					3 2 O
198	8¾	HTC RG1J RR		4249	4264	15	6.25	2.40		45	35	4264	1207.50	3.53					H 2 I
199	8¾	HTC RG1J		4264	4333	69	30.00	2.30		45	35	4333	1237.50	3.50					1 I E
200	8¾	HTC W7		4333	4373	40	12.25	3.27		35	60	4373	1249.75	3.50					

WELL AMERADA ET AL CROWN YT-A #1

Rig No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT / HR.	DEVIATION DEGREES	WT. M	TABLE R. P. M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
201	8 5/8	HTC W7		4373	4390	17	6.75	2.52		38	60	4390	1254.50 ⑦	3.49					32
202	8 5/8	HTC RGIJ		4390	4494	104	28.50	3.65		45	34	4494	1285.00	3.50					3H
203	8 5/8	HTC RGIJ		4494	4594	100	30.00	3.33		45	34	4594	1315.00	3.49					2.4
204	8 5/8	Reed YC G		4594	4643	49	24.75	1.98		48	34	4643	1339.75	3.47					44
205	8 5/8	HTC RGIJ		4643	4727	84	38.75	2.17		48	34	4727	1378.50	3.43					2.4
206	8 5/8	HTC RGIJ		4727	4818	91	31.75	2.87		48	34	4818	1410.25	3.42					44
207	8 5/8	HTC RGIJ		4818	4909	91	29.75	3.06		45	34	4909	1440.00	3.41					3.4
208	8 5/8	Hycalog DIAMOND		4909	4913	4	2.75	1.45		18	50	4913	1442.75	3.41					4.4
209	8 5/8	HTC RGIJ		4913	4996	83	26.75	3.10		45	34	4996	1469.50	3.40					3.4
210	8 5/8	HTC RGIJ		4996	5102	106	31.75	3.34		45	34	5102	1501.25	3.40					1.4
211	8 5/8	Reed YC-G		5102	5106	4	4.25	.94		45	34	5106	1505.50	3.39					00
212	8 5/8	HTC W7		5106	5157	51	12.00	4.25		34	70	5157	1517.50	3.40					2.2
213	8 5/8	Reed YH		5157	5199	42	12.00	3.50		35	70	5199	1529.50	3.40					3.2
214	8 5/8	HTC W7		5199	5234	35	10.00	3.50		40	65	5234	1539.50	3.40					3.2
215	8 5/8	HTC W7		5234	5293	59	15.25	3.87		35	65	5293	1554.75	3.40					3.3
216	8 5/8	HTC W7		5293	5363	70	14.00	5.00		32	65	5363	1568.75	3.42					2.4
217	8 5/8	Reed YH		5363	5408	45	11.75	3.83		32	65	5408	1580.50	3.42					3.2
218	8 5/8	HTC W7		5408	5463	55	13.75	4.00		30	65	5463	1594.25	3.43					2.1
219	8 5/8	HTC OWC		5463	5534	71	14.50	4.90		30	65	5534	1608.75	3.44					11
220	8 5/8	HTC OWC		5534	5549	15	5.75	2.61		20	80	5549	1614.50	3.44					3.1
221	8 5/8	HTC W7R		5549	5576	27	11.25	2.40		20-30	60	5576	1625.75	3.43					221
222	8 5/8	HTC W7		5576	5598	22	8.50	2.59		35	60	5598	1634.25	3.43					4.1
223	8 5/8	HTC W7		5598	5614	16	6.50	2.46		35	60	5614	1640.75	3.42					2.1
224	8 5/8	HTC OWC		5614	5643	29	10.50	2.76		45	60	5643	1651.25	3.42					2
225	8 5/8	HTC OWC		5643	5708	65	19.25	3.37		45	60	5708	1670.50	3.43					

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLED FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		CONDITION AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	5 TIME HRS.	PEN. RATE FT./HR.	DEVIATION DEGREES	WT. M	TABLE R. P. M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
226	8¾	HTC OWC		5708	5808	100	21.75	4.60		25	60	5808	1686.75	3.44					1.2.I
227	8⅞	HTC OWV		5808	5922	114	23.50	4.85		20	80	5922	1710.25	3.46					1.2.I
228	8⅞	Reed YSJ		5922	6025	103	21.75	4.74		25	85	6025	1732.00	3.48					1.2.I
229	8⅞	Reed YM		6025	6126	101	22.75	4.44		25	85	6126	1754.75	3.49					2.2.I
230	8⅞	HTC OWC		6126	6153	27	8.75	3.09		25	60	6153	1763.50	3.49					2.I.I
231	8⅞	HTC W7		6153	6180	27	11.50	2.35		30	60	6180	1775.00	3.48					2.I.I
232	8⅞	HTC W7		6180	6222	42	14.50	2.90		30	60	6222	1789.50	3.48					2.2.I
233	8⅞	Reed YM		6222	6247	25	7.75	3.23		30	60	6247	1797.25	3.48					3.4.0
234	8⅞	HTC W7		6247	6257	10	5.50	1.82		30	68	6257	1802.75	3.47					3.1.0
235	8⅞	HTC RGIJ		6257	6297	40	20.00	2.00		45	44	6297	1822.75	3.45					1.3.I
236	8⅞	HTC W7		6297	6320	23	9.25	2.49		25	65	6320	1832.00	3.45					2.2.0
237	8⅞	HTC W7		6320	6330	10	6.50	1.54		35	60	6330	1839.50	3.44					3.1.I
238	8⅞	Reed YCJ RR		6330	6339	9	6.75	1.33		45	45	6339	1845.25	3.44					2.I.I
239	8⅞	HTC W7R		6339	6372	33	15.50	2.13		30	60	6372	1860.75	3.42					2.2.I
240	8⅞	HTC W7		6372	6403	31	11.00	3.00		30	65	6403	1871.75	3.42					2.2.I
241	8⅞	HTC W7		6403	6426	23	10.00	2.30		28	65	6426	1881.75	3.41					2-I-I
242	8⅞	HTC OWC		6426	6467	41	12.25	3.35		30	65	6467	1894.00	3.41					2-2-0
243	8⅞	HTC OWC		6467	6505	38	12.75	2.98		30	65	6505	1906.75	3.41					2-2-0
244	8⅞	Reed YM		6505	6532	27	11.25	2.40		30	65	6532	1918.00	3.41					2-1-1
245	8⅞	HTC OWC		6532	6560	28	11.00	2.55		28	65	6560	1929.00	3.40					2-2-1
246	8⅜	HTC OWC		6560	6615	55	18.00	3.06		28	65	6615	1947.00	3.40					2-2-1
247	8⅞	HTC OWC		6615	6671	56	15.75	3.56		30	65	6671	1962.75	3.40					2-2-1
248	8⅞	HTC OWC		6671	6736	65	21.00	3.10		30	65	6736	1983.75	3.40					2-2-1
249	6¼	Hycalog Diamond		6736	6754	18	9.50	1.90		10	70	6754	1993.25	3.39			12	9.50	Good
250	8⅞	HTC OWC		6754	6834	80	20.50	3.90		30	65	6834	2013.75	3.39	12	2.00			2-2-1

WELL AMERADA ET AL CROWN YT-A #1

RIG No. _____ CONTRACT No. _____ TOOLPUSHER _____

OPERATOR _____

L. S. D. _____ SEC. _____ TWP. _____ RGE. _____ W. _____ M. AREA _____

SPUDDED _____ 19____ COMPLETED _____ 19____

AMERADA

BIT PERFORMANCE RECORD

BIT INFORMATION				DRILLING FOOTAGE AND HOURS					SURVEYS	ROTARY		ACCUMULATIVE FOOTAGE DRILLED			REAMING		CORING		GRADING AND REMARKS
BIT No.	HOLE SIZE IN.	MAKE AND TYPE	SERIAL No.	DEPTH FT. FROM	DEPTH FT. TO	FOOTAGE FT.	TIME HRS.	PEN. RATE FT./HR.	DEVIATION DEGREES	WT. M	TABLE R. P. M.	FOOTAGE	HOURS	PEN. RATE	FOOTAGE	HOURS	FOOTAGE	HOURS	
251	8 5/8	HTC OWV		6834	6867	33	9.75	3.38		30	65	6867	2022.50	3.39					3-2-1
252	8 5/8	HTC OWC		6867	6929	62	18.50	3.35		30	65	6929	2041.00	3.39					2-2-1
253	8 5/8	HTC OWC		6929	7013	84	23.50	3.57		30	65	7013	2065.50	3.40					2-2-1
254	8 5/8	HTC OWC		7013	7104	91	27.75	3.28		25	65	7104	2093.25	3.39					2-2-1
255	8 5/8	HTC OWC		7104	7188	84	24.25	3.20		25	65	7188	2117.50	3.39					2-2-1
256	8 5/8	Reed 4 M		7188	7260	72	24.00	3.00		25	65	7260	2141.50	3.39					2-2-1
257	8 5/8	HTC OWC		7260	7355	95	28.00	3.39		25	65	7355	2171.50	3.39					2-2-1
258	8 5/8	HTC OWC		7355	7437	82	27.00	3.04		25	65	7437	2198.50	3.38					2-2-1
259	8 5/8	HTC OWC		7437	7522	85	28.25	3.00		25	65	7522	2226.75	3.38					2-2-1
260	8 5/8	HTC OWC		7522	7609	87	29.50	2.95		25	65	7619	2256.25	3.38					3-2-1
261	8 5/8	Reed 4 M		7609	7663	54	18.25	2.81		30	65	7663	2275.50	3.37					2-2-1
262	8 5/8	HTC OWC		7663	7735	72	26.25	2.74		30	65	7735	2301.75	3.36					2-2-1
263	8 5/8	HTC OWC		7735	7804	69	18.00	3.83		30	65	7804	2319.75	3.36					2-2-1
264	6 1/8	Hycolog Diamond		7804	7824	20	9.75	2.05		12	75	7824	2329.50	3.36			20	9.75	Gage
265	8 5/8	HTC. OWC		7824	7860	36	13.75	2.62		35	65	7860	2343.25	3.36			20	2.00	3-1-1
266	8 5/8	HTC. OWC		7860	7929	69	24.50	2.82		35	65	7929	2367.75	3.35					2-2-1
267	8 5/8	HTC OWC		7929	7977	48	25.00	1.92		30	65	7977	2392.75	3.37					1-1-4
268	8 5/8	HTC OWC		7977	8004	27	12.25	2.20		35	65	8004	2405.00	3.33					1-1-4