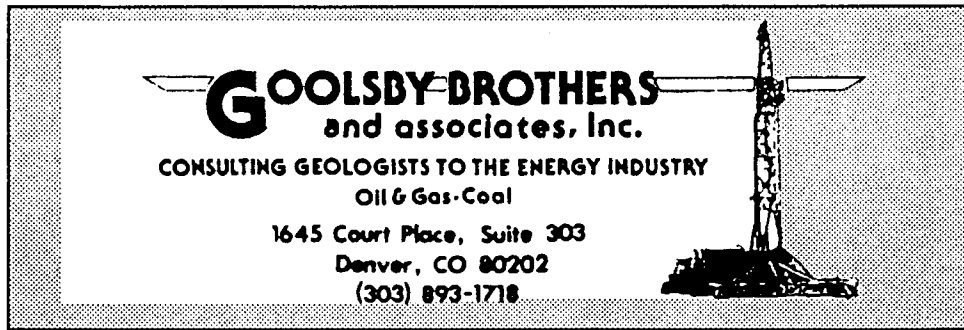


15-189-21857



GEOLOGICAL WELLSITE REPORT

ANADARKO PETROLEUM CORPORATION

Flower "A" #1

1320' FSL, 1250' FWL
Section 25, T31S, R38W
Stevens County, Kansas

Mathew D. Goolsby
Consulting Geologist

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SUMMARY

Norseman's rig #1 spudded the Flower "A" #1 for Anadarko Petroleum Corporation on November 27, 1994. A total depth of 3005 feet was reached on January 3, 1995.

The Flower "A" #1 was planned as a Hugoton Field evaluation project, and the well will not be commercially produced. After drilling to 2435 feet, 8 5/8" surface casing was set. From this point, the Chase Group and the Council Grove Group were continuously cored and drillstem tested in their separate reservoir intervals. The original program called for 16 cores and 17 DST's through the B-5 member of the Council Grove.

The Council Grove B-5 was cored on December 29th, and then drillstem tested. Normally, this zone is either within the water leg or the transition to the water leg of the field. Contrary to this, DST #16 flowed gas at a rate of 350 MCFPD. H₂S was also present in the zone, with a maximum reading of 600 ppm. In view of the encouraging results in the Council Grove "B", it was decided to log the well after coring 20 feet of rathole, and then coring ahead through the Council Grove "C".

Core #18 recovered 20 feet of light gray limestone with poor intercrystalline and vuggy porosity. Permeability appeared to be minimal. Due to fill on bottom, DST #18 was a misrun. DST #19 did not flow, indicating a tight reservoir.

The Flower "A" #1 was cased off with 5 1/2 inch casing on January 7, 1995. Electronic gauges will be installed, and the well will be used to monitor the field pressures.

WELL DATA

OPERATOR: Anadarko Petroleum Corporation

WELL NAME: Flower "A" #1

LOCATION: 1320' FSL, 1250' FWL (SW) Section 25, T31S, R38W
Stevens County, Kansas

FIELD: Hugoton

ELEVATION: GL 3139 (Datum)

SPUD DATE: 11/27/94

DATE TD REACHED: 01/03/95

CONTRACTOR: Norseman, Rig #1
TOOLPUSHER: Charlie Brown

TOTAL DEPTH: 3005'

HOLE SIZE: 12 1/4" to 2435', 7/8" to TD

SURFACE CASING: 8 5/8" Surface @ 2435' GL
5 1/2" to TD

FOAM CHEMICALS: Drilling Fluids Engineering, Monty James

FOAM/AIR UNIT: Weatherford, Rick Ackerman

CORING: Weatherford, Mark Franklin

CORE ANALYSIS: Reservoirs, Inc. (Midland, TX)

DRILLSTEM TESTING: Trilobite Testers, Tom Horacek

H₂S SAFETY: Safety International, Boy Reams

DST PRESSURE BOMBS: Precision Well Testing, Steve Helm

WELLSITE GEOLOGY: Goolsby Brothers & Associates, Inc.
GEOLOGIST: Mathew D. Goolsby

LOGGING COMPANY:

HLS (Intermediate run to 2435')
PROGRAM: DIL w/ GR, SP
Schlumberger (After Core #17 to 2973')
PROGRAM: DIT/GR, AIT, EPN/LDT

BOTTOM HOLE FORMATION: Council Grove "C"

REMARKS:

- 1) Encountered H₂S in Council Grove B-5
- 2) Well to be used as a field monitor well.
Will not be produced!

DAILY CHRONOLOGY

<u>DATE</u>	<u>7 AM DEPTH</u>	<u>7 AM ACTIVITY</u>	<u>FORMATION</u>
11/28/94	1150	Drilling 12 1/4"	Surface
11/29/94	1835	Drilling 12 1/4"	Surface
11/30/94	2430	Drilling 12 1/4"	Wellington
12/01/94	2435	Nipple Up	Wellington
12/02/94	2488	DST #1	Herrington
12/03/94	2533	DST #2	Krider
12/04/94	2533	DST #2	Krider
12/05/94	2550	CORE #3	Winfield Sandstone
12/06/94	2550	DST #3	Winfield Sandstone
12/07/94	2580	DST #4	Winfield Carbonate
12/08/94	2611	CORE #5	Gage Shale
12/09/94	2656	DST #5	Towanda
12/10/94	2700	DST #6	Upper Ft. Riley
12/11/94	2700	DST #6	Upper Ft. Riley
12/12/94	2725	DST #7	Lower Ft. Riley
12/13/94	2750	CORE #9	Flórence
12/14/94	2750	DST #8	Florence
12/15/94	2790	DST #9	Wreford
12/16/94	2790	DST #9	Wreford
12/17/94	2790	DST #10 (Commingled)	Wreford
12/18/94	2790	Trip f/ Core #11	Wreford
12/19/94	2850	DST #11	Council Grove "A"
12/20/94	2882	Circulate Core #12	Council Grove B-1
12/21/94	2882	DST #12	Council Grove B-1
12/22/94	2902	Pick up DST #13	Council Grove B-2
12/23/94	2902	DST #13	Council Grove B-2
12/24/94	2921	DST #14	Council Grove B-3
12/25/94	2921	Shut down f/X-Mas	Council Grove B-3
12/26/94	2921	Shut down f/X-Mas	Council Grove B-3
12/27/94	2921	Trip out DST #14	Council Grove B-3
12/28/94	2939	DST #15	Council Grove B-4
12/29/94	2958	Trip out Core #16	Council Grove B-5
12/30/94	2958	DST #16	Council Grove B-5
12/31/94	2978	Core #17/Logging	Council Grove B-5 Shale
01/01/95	2978	DST #17 (Commingled)	Council Grove B-5 Shale
01/02/95	2978	DST #17 (Commingled)	Council Grove B-5 Shale
01/03/95	3005	CORE #18	Council Grove "C"
01/04/95	3005	DST #18	Council Grove "C"
01/05/95	3005	DST #19	Council Grove "C"
01/06/95	3005	DST #19	Council Grove "C"
01/07/95	3005	Running 5 1/2" Casing	Council Grove "C"

CORE RECORD

<u>CORE #</u>	<u>FORMATION</u>	<u>INTERVAL</u>	<u>FT RECOVERY</u>	<u># BOXES</u>	<u>DATE CORED</u>
1	Hollingsworth/Herrington	2438-2488	47	20	12/02/94
2	Krider	2488-2533	44.5	18	12/03/94
3	Winfield Sand	2533-2550	15.5	6	12/05/94
4	Winfield Dolomite	2550-2580.5	30.5	13	12/06/94
5	Gage	2580.5-2611	30.5	13	12/08/94
6	Towanda	2611-2656	44.5	18	12/08/94
7	Upper Ft. Riley	2656-2700	44.5	18	12/10/94
8	Lower Ft. Riley	2700-2725	25	10	12/11/94
9	Florence	2725-2750	24	10	12/13/94
10	Wreford	2750-2790	40.5	17	12/14/94
	Depth Correction + 1 foot @ 2790'				
11	Council Grove "A"	2791-2850	59	23	12/18/94
12	Council Grove B-1	2850-2882.5	32.5	13	12/20/94
13	Council Grove B-2	2882.5-2902	19	8	12/22/94
14	Council Grove B-3	2902-2921	19	8	12/23/94
15	Council Grove B-4	2921-2939	18	8	12/27/94
16	Council Grove B-5	2939-2958	18	8	12/29/94
17	Council Grove B-5 Shale	2958-2978	10	4	12/31/94
18	Council Grove "C"	2978-3005	27	11	01/03/95

DRILLSTEM TEST RECORD

<u>DST #</u>	<u>FORMATION</u>	<u>INTERVAL</u>	<u>DATE</u>	<u>REMARKS</u>
1	Herrington	2472-2488	12/02/94	
2	Krider	2498-2533	12/03/94	
3	Winfield Sand	2538-2550	12/05/94	
4	Winfield Dolomite	2553-2580	12/06/94	
5	Towanda	2614-2656	12/08/94	
6	Upper Ft. Riley	2656-2700	12/10/94	
7	Lower Ft. Riley	2712-2725	12/11/94	
8	Florence	2727-2750	12/13/94	
9	Wreford	2762-2790	12/15/94	
10	Chase Grp (Commingled)	2430-2790	12/16/94	
11	Council Grove "A"	2800-2850	12/18/94	
12	Council Grove B-1	2860.5-2882.5	12/20/94	
13	Council Grove B-2	2890-2902	12/22/94	
14	Council Grove B-3	2911-2921	12/23/94	
15	Council Grove B-4	2927-2939	12/27/94	
16	Council Grove B-5	2948-2958	12/29/94	350 MCF w/ 600 PPM H ₂ S
17	Council Grove (Commingled)	2802-2978	01/01/95	340 MCF w/ 400 PPM H ₂ S
18	Council Grove "C"	2986-3005	01/03/95	Misrun, Packer Failed
19	Council Grove "C"	2987-3005	01/05/95	

CORE DESCRIPTIONS

NOTE: Cores were "chip" sampled @ 1 foot intervals.

(Depth Caught) Lagged Depth

CORE #1, 2438 - 2488, RECOVERED 47 FEET

- 2441 - 2445.5 SH GY/ DK GY, GY BRN, FIRM, FREQ ANHYDRITE NODULES
- 2445.5 - 2447 ANHY WH/ CLR
- 2447 - 2449 LS TAN GY, MICXL, SLI CHKY, ARG, NO VIS Ø
- 2449 - 2461 SH DK GY W/ OCC ANHY INCLUSIONS & INTBDD W/ THIN BEDS OF LS LT GY, MIC/ VFXL, SOME PYRITIC, POOR INTXL Ø, V LOW PERM, FREQ ARG
- 2461 - 2462 SLTST LT GY, SLI LMY
- 2462 - 2470 SH DK GY/ RED BRN, OCC LMY

HERRINGTON

- 2470 - 2477 DOL LT TAN, VF / FXL, OCC ANHY, SUBSUCROSIC, FAIR INTXL Ø
- 2477 - 2488 SLTST V LT GY, OCC GRDG TO SLTY/ LVFG SS, LMY, OCC POOR INTERN Ø, FEW SH STRKS

CORE #2, 2488 - 2533, RECOVERED 44.5 FEET

- 2488 - 2491 SH DK GY, LMY IN PT
- 2491 - 2498 DOL GY, VFXL, V ARG, ANHYDRIC, DECR ARG @ BASE, SOME POOR INTXL Ø, INTBD W/ DK GY SH

KRIDER

- 2498 - 2500 DOL LT/ M GY, VFXL, SLI ARG, FAIR/ GOOD INTXL & VUG Ø, LOOKS PERM, SUCROSIC TEXT
- 2500 - 2529 DOL TAN/ GY BRN, VF/ MEDXL, OCC ARG MAT, SUCROSIC, GOOD INTXL & VUG Ø, LOOKS VERY PERM

2529 - 2532 DOL LT TAN/ BRN, VF/ LFXL, SUCROSIC, POOR INTXL Ø, SCAT FAIR Ø, INC ARG TO BASE

2532 - 2532.5 SH V DK GY, FIRM

CORE #3, 2533 - 2550, RECOVERED 15.5 FEET

2533 - 2538 DOL GY, MIC/ VFXL, V ARG & TITE, FIRM

2538 - 2540 SH GY/ RED BRN, V DOLIC IN PT, SLI BRKN

2540 - 2544 SH DK RED BRN, SB WXY, BLKY, FIRM

2544 - 2545 LS LT TAN/ GY, MICXL, SLI/ V ARG, SCAT SD, TITE, V FIRM

2545 - 2546 SH DK GY/ MAR, BCMG V SDY @ BASE

WINFIELD SAND

2546 - 2546.5 SS V LT GY, VFG, SLI ARG & SLTY, FREQ CLY FL, EST 10% Ø

2546.5 - 2548.5 SS CRM/ LT TAN, LVF/ FG, MSRTD, SB ANG, OCC CLY FL, EST 13-17% Ø, SOME V FRI, LOOKS PERM

2548.5 - 2550 NO RECOVERY

CORE #4, 2550 - 2580.5, FULL RECOVERY

2550 - 2551 SS TAN, LVFG, M/ WSRTD, EST 10-12% Ø, LOW PERM

2551 - 2553 DOL LT GY, MIC/ VFXL, SDY, SLI ARG, TITE

2553 - 2554 DOL V LT GY, CHKY/ VFXL, OCC SDY, POOR INTXL/ CHKY Ø, V LOW PERM, ARG

WINFIELD DOLOMITE

2554 - 2556 DOL LT GY, MICXL, DECR ARG & SDY, SCAT INTXL Ø, MOST TITE

2556 - 2559 DOL LT GY, SLI/ V SDY, MIC/ VFXL, GRDS TO DOLIC SS @ TOP W/ 14% Ø

- 2559 - 2563 DOL WH/ LT TAN, VFXL, SLI CHKY TOP, SUCROSIC @ BASE, FOSS, SOME FXL, POOR INTXL & VUG Ø, LOW PERM
- 2563 - 2572 DOL LT/ M GY, ARG, CHKY/ FXL, FOSS, SCAT POOR INTXL, CHKY Ø, MOST TITE
- 2572 - 2580.5 DOL CRM/ TAN, MIC/ FXL, SLI/ V FOSS, MOST CLN, OCC ARG STRKS, POOR INTXL/ CHK Ø, SOME VUGGY Ø 2576 - 2578

CORE #5, 2580.5 - 2611, FULL RECOVERY

- 2580.5 - 2582 DOL V LT GY, LMY, VFXL/ CHKY, POOR INTXL & CHKY Ø, ARG, FOSS, V LOW PERM
- 2582 - 2583 LS CRM/ LT GY, DOLIC, VF/ FXL, FAIR INTXL & VUG Ø
- GAGE
- 2583 - 2590.5 SS GY, VFG, SLTY IN PT, INTBDD W/ GY SH, CLY FL, Ø VARIES TITE TO 11%, LOW PERM
- 2590.5 - 2611 SH RED BRN, OCC GY, BLKY, SLI SLTY, SLI BRKN, DOLIC @ BASE

CORE #6, 2611 - 2656, RECOVERED 44.5 FEET

- 2611 - 2614 SH RED BRN/ GY/ LT GY GRN, DOLIC, FIRM
- TOWANDA
- 2614 - 2617.5 SS LT GY/ TAN, SLTY, V DOLIC & ARG, RARE POOR Ø
- 2617.5 - 2625 LS V LT GY, MICXL, V SDY W/ VFG SD, POOR INTXL/ INTGRN Ø, GRDS TO LMY SS IN PT, DOLIC IN PT, OCC CHKY, LOW PERM
- 2625 - 2632 LS CRM/ LT GY, FOSS, MIC/ FXL, OCC CHKY, POOR INTXL & VUG Ø
- 2632 - 2635 LS CRM/ TAN, VF/ MED XL, FOSS, FAIR INTXL & VUG Ø, LOW PERM
- 2635 - 2639 LS GY, VFXL, V ARG & LAMINATED W/ SH, TITE, DOLIC

- 2639 - 2654 LS CRM/ V LT GY, VF/ MED XL, FOSS, POOR/ FAIR INTXL & VUG Ø, SOME CHKY, FEW ARG STRKS, LOW PERM
- 2654 - 2655.5 SH V DK GY, LMY, FIRM & INTBDD W/ LS GY, FOSS, V ARG, TITE

CORE #7, 2656 - 2700, FULL RECOVERY

- 2656 - 2668 SLTST LT/ M GY, ARG, BRIT, OCC SH PARTINGS, FISS SH @ 2666 & 2667.5
- 2668 - 2673.5 SLTST INC LMY, BRIT

FT. RILEY

- 2673.5 - 2677 LS CRM/ TAN, VFXL, SLI DOLIC & SUCROSIC, FOSS, POOR INTXL Ø, TR VUG Ø
- 2677 - 2685 LS AA, INC Ø W/ FREQ VUGS
- 2685 - 2691 LS LT TAN/ LT GY, VFXL, SLI SUC & DOLIC, BCMG ARG, SOME CHKY, POOR INTXL Ø
- 2691 - 2700 LS TAN GY, VFXL, SLI ARG & SLTY, POOR INTXL Ø, SCAT VUGS, FEW SH STRKS

CORE #8, 2700 - 2725, FULL RECOVERY

- 2700 - 2712 LS LT GY, VFXL, SLI SUCROSIC, SLI ARG, POOR INTXL Ø, OCC VUGS, LOW PERM, SLI FOSS, SLI/ V DOLIC & SOME GRDS TO DOL
- 2712 - 2721 DOL LT/ V DK GY, VFXL, V ARG W/ FREQ IRREG SH LAMINAE, FREQ ANHY NODULES, FEW STREAKS W/ POOR INTXL Ø & V LOW PERM
- 2721 - 2725 DOL, VFXL, V ARG, INC LMY & FOSS, TR STRKS W/ POOR INTXL Ø, V LOW PERM, INC ARG & LMY @ BASE

CORE #9, 2725 - 2750, RECOVERED 24 FEET

- 2725 - 2727 SLTST GY, ARG, DOLIC, FIRM

2727 - 2730 LS DK GY, MICXL, ARG, SLI SLTY, SLI DOLIC, GRDG TO CALC SH

FLORENCE

2730 - 2732 LS GY/ DK TAN, VFXL, SLI ARG, SCAT POOR INTXL Ø

2732 - 2740 LS LT GY/ LT GY BRN, VFXL, SLI MOT, POOR INTXL Ø IN PATCHES, RARE VUGS, NO VIS PERM, INC SLTY/ ARG @ BASE W/ DECR Ø

2740 - 2745 SLTST V LT GY, LMY/ DOLIC, SLI ARK, POSS MICRO Ø

2745 - 2749 SH DK RED BRN, BLKY, SLI SLTY, BRKN

CORE #10, 2750 - 2790, RECOVERED 40.5 FEET

2750 - 2759 SH MOT GY/ DK RED BRN, SLI BRKN, OCC LMY

2759 - 2761.5 SH GY GRN/ RED BRN, INC LMY, HD

WREFORD

2761.5 - 2766 LS OFF WH/ LT GY, VFXL, SLI SLTY, SCAT POOR INTXL Ø

2766 - 2774 LS LT GY, VFXL, ARG IN PT, SLTY/ SDY, POOR INTXL & OCC VUG Ø, V LOW PERM

2774 - 2780 LS LT GY BRN, DECR ARG, POOR INTXL & VUG Ø, V LOW PERM, SOME W/ FREQ PIN PT VUGS

2780 - 2788 LS GY, ARG/ SLTY, MIC/ VFXL, SOME VUGGY, FOSS, V LOW PERM, INC DK GY & ARG @ BASE

COUNCIL GROVE

2788 - 2790 SH GY/ GY GRN, BLKY, SLI BRKN, LMY IN PT

- - DEPTH CORRECTED +1 FOOT @ 2790 - -

CORE #11, 2791 - 2850, FULL RECOVERY

2791 - 2797 SH RED BRN, SOME GY BRN, BRKN, OCC SLTY, SCAT ANHY, ANHY INC @ BASE, OCC MOT GY GRN

2797 - 2803 SH DK RED BRN/ GY, INC SLTY & ANHYDRIC, INC FIRM

2803 - 2810.5 SH RED BRN/ GY, SLI BRKN, SOME FISS, OCC SLTY & ANHYDRIC

COUNCIL GROVE "A"

2810.5 - 2814 DOL LT GY, MIC/ VFXL, V ANHYDRIC, POOR INTXL & PIN PT VUG Ø, SLI MICRO SUCROSIC, V LOW PERM

2814 - 2820 DOL GY, MICXL, V ARG, ANHYDRIC, NO VIS Ø

2820 - 2824 LS TAN/ GY BRN, MICXL, OCC VFXL, CLN/ ARG, TITE, FIRM

2824 - 2826 LS DK GY, CRYPTOXL, SLI ARG, DNS, HD, TITE

2826 - 2834 LS GY/ DK GY, MICXL/ VFXL, V ARG, TITE, GRDG TO V LMY SH

2834 - 2840 AA W/ FEW THIN BEDS LS GY/ GY BRN, VFXL, SLI ARG, FOSS, TR INTXL Ø, NO VIS PERM

2840 - 2845 SH GY, V SLTY, SLI LMY, SOME GRDG TO ARG LS, NO VIS Ø

2845 - 2848 LS LT/ DK GY BRN, MIC/ VFXL, SLI FOSS & ARG, TITE

2848 - 2850 SH M GY, SLI LMY, SLI BRKN

CORE #12, 2850 - 2882.5, FULL RECOVERY

2850 - 2856 SH AA W/ THIN STRKS DOL LT GY, V SLTY, ARG, POOR INTXL Ø, FREQ ANHY

2856 - 2858 SH DK RED BRN, OCC LT GY GRN, SLTY, BRKN

2858 - 2862 SLTST V LT GY GRN, SDY, SLI ARG, OCC GRDS TO SLTY SS, POOR Ø, TR W/ LOW PERM

2862 - 2865 SH RED BRN, OCC MOT W/ GY GRN, BLKY, ANHY, BRKN

COUNCIL GROVE "B-1"

2865 - 2870 DOL CRM, MIC/ VFXL, PATCHY POOR INTXL & OCC VUG Ø, TR LOW PERM

- 2870 - 2880 DOL CRM/ WH, LMY, MIC/ VFXL, SCAT CHKY, POOR
SUCROSIC Ø, TR VUGS, SLI FOSS, TR WK PERM
- 2880 - 2882 SH LT/ M GY, DOLIC, FIRM
- 2882 - 2882.5 DOL LT TAN GY, VFXL, SLI SUCROSIC, SLI ARG, POOR INTXL
Ø, TR LOW PERM

CORE #13, 2882.5 - 2902, RECOVERED 19 FEET

- 2883 - 2888.5 SH DK BRK RED, OCC GY, OCC SLTY, BRKN, V BRIT
- COUNCIL GROVE "B-2"
- 2888.5 - 2890 LS V LT GY, V DOLIC, SB CHKY/ VFXL, POOR/ OCC FAIR
INTXL & PIN PT VUG Ø, LOW PERM
- 2890 - 2894 LS LT GY, DOLIC, ALGAL, VF/ FXL, FAIR/ GOOD INTXL & VUG
Ø, GOOD VIS PERM
- 2894 - 2901 LS OFF WH/ GY, INC VFXL, DOLIC, POOR INTXL & PIN PT
VUG Ø, LOW PERM, SLI ARG & CHKY IN PT
- 2901 - 2902 LS GY/ DK GY, V ARG, SCAT VUG Ø, PRED TITE

CORE #14, 2902 - 2921, FULL RECOVERY

- 2902 - 2903 SH RED BRN, V BRKN, SB WXY
- 2903 - 2914 SH DK RED BRN, OCC GY, BRKN IN PT, FREQ ANHYDRIC & V
FIRM

COUNCIL GROVE "B-3"

- 2914 - 2918 DOL LT GY/ CRM, VF/ FXL, POOR/ FAIR INTXL & PIN PT VUG
Ø, LOW PERM, SLTY/ SLI ARG & BASE
- 2918 - 2921 SH DK RED BRN, V BRKN, SLI SLTY

CORE #15, 2921 - 2939, FULL RECOVERY

- 2921 - 2923.5 SH AA

2923.5 - 2929 SH DK RED BRN, FREQ LMY & MOT W/ TITE GY LS, SOME ANHYDRIC

2929 - 2930.5 SH DK RED BRN, V BRIT, BRKN
COUNCIL GROVE "B-4"

2930.5 - 2933 DOL CRM/ LT GY, VF/ FXL, ALGAL, FOSS, FAIR/ GOOD INTXL Ø, FAIR PERM

2933 - 2936 LS OFF WH, DOLIC, VFXL, SLI FOSS, SCAT INTXL/ PIN PT VUG Ø, NO PERM

2936 - 2938 LS GY, VF/ MICXL, V ARG & GRDG TO LMY SH

2938 - 2939 SH GY, V BRIT, BRKN

CORE #16, 2939 - 2958, RECOVERED 18 FEET

2939 - 2940 NO RECOVERY

2940 - 2941 SH DK RED BRN, BRKN

2941 - 2945 SH GY/ GRN, WXY, BLKY, BRIT, BRKN

2945 - 2948 SH AA INTBDD W/ LS LT GY/ CRM, VFXL, CLN/ ARG, TITE
COUNCIL GROVE "B-5"

2948 - 2953 LS OFF WH, CHKY/ VFXL, POOR/ FAIR VUG & INTXL Ø, FOSS, LOW PERM

2953 - 2955 LS WH, V FOSS, FXL, FAIR/ GOOD INTXL & VUG Ø, GOOD PERM

2955 - 2958 LS V LT GY, VFXL, POOR/ FAIR INTXL & VUG Ø, V POOR/ LOW PERM, COMPLETELY BRKN

CORE #17, 2958 - 2978, RECOVERED 10 FEET, 10 FEET JAMMED IN BARREL

2958 - 2968 NO RECOVERY, SHALE JAMMED IN CORE BARREL

2968 - 2978 SH RED BRN, OCC GRN, V BRKN

CORE #18, 2978 - 3005, FULL RECOVERY

2978 - 2980 SH GRN/ RED BRN, SLI BRKN

2980 - 2985 SH DK RED BRN, FIRM, SLI BRKN

COUNCIL GROVE "C"

2985 - 2991 LS LT GY/ CRM, VF/ FXL, SOME ARG, POOR INTXL & VUG Ø,
V LOW/ NO VIS PERM, DOLIC

2991 - 2998 LS AA, INC ARG W/ OCC POOR Ø, NO VIS PERM, FREQ GY
GRN SH PARTINGS

2998 - 3005 LS LT GY, VFXL, ARG, OCC VUGS, PRED TITE, NO PERM,
BCMG, V ARG @ BASE

-- DRILLER'S TD @ 3005 --