

Vert WB

UNIVERSITY BLOCK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

- 01/25/99 P. 82 BO, 148 BW, 24 hrs. Btry prod was 687 BO, 429
MCF, 24 hrs. Univ "9" C #7H dwn - POC.
- 01/26/99 P. 28 BO, 90 BW, 12 hrs on POC. Put well back on hand.
Btry prod was 684 BO, 414 MCF, 24 hrs.
- 01/27/99 P. 82 BO, 150 BW, 24 hrs. Btry prod was 785 BO, 459
MCF, 24 hrs. Final Report for AFE #98121 to D & C a
10,800' Devonian tst in the University Blk 9 (Devonian)
Field.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

01/15/99
(cont'd)

SN @	10,471'
TAC @	10,283'
Devonian Perfs @	10,360'
	-10,464'

ND BOP. Set TAC w/20 pts tens. PU & RIH w/2-1/2" x 1-1/4" x 30' RHBC pmp (#CCT-10) on 20 - 1.5" K-bars, 73 - 7/8" & 74 - 1" rods (all rods MTO'd fr/St Univ "AO" #10H). SDFN. Prep to RIH w/remainder of rods, RDMO PU, set 640 AB ppg unit fr/St Univ "AU" #8 & put well on prod.
DWC: \$10,900. CWC: \$639,900.

01/16/99 RIH w/166 - 1-1/4" FG rods (MTO'd fr/St Univ "AO" #10H). HWO. RDMO PU. Laid 3" poly FL to Univ "9" A/B/C/D btry. Std running elec to well. SDFN. Prep to finish running elec to well & set 640 ppg unit.
DWC: \$13,900. CWC: \$653,800.

01/17/99 Fin running elec to well. Std setting 640 ppg unit (MTO'd fr/St Univ "AU" #8). SDFN.

01/18/99 SD for Sunday.

01/19/99 MIRU pmp trk. Loaded tbq w/9 BW. Press tbq to 500 psig in 5 strks w/rod pmp. Held OK. Put well on prod @ 10 x 144" SPM. Ppg, no tst. DOA - elec. Would not reset. Repaired panel & RWTP. Btry prod was 738 BO, 426 MCF, 24 hrs.

01/20/99 Ppg, no tst. Btry prod was 795 BO, 431 MCF, 24 hrs.

01/21/99 Ppg, no tst. Btry prod was 798 BO, 455 MCF, 24 hrs.

01/22/99 Ppg, no tst. Btry prod was 784 BO, 422 MCF, 24 hrs.

01/23/99 P. 72 BO, 143 BW, 24 hrs. Btry prod was 780 BO, 442 MCF, 24 hrs.

01/24/99 P. 77 BO, 139 BW, 24 hrs. Btry prod was 748 BO, 451 MCF, 24 hrs.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

01/13/99 Prep to ck SITP, BFL & continue swbg Dev perfs 10,360'-
(cont'd) 10,386'.
DWC: \$2,500. CWC: \$626,300.

01/14/99 SITP 0 psig. Kolor Kut tnk. 190 BO & 211 BW in tnk.
RU swab. BFL @ 4,300' FS. Swbd Dev perfs 10,360'-
10,386' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,300	--	BFL.
8:30	2	4,800	12	60% oil.
9:30	2	5,800	12	60% oil.
10:30	2	6,000	15	5% oil.
11:30	2	6,000	12	20% oil.
12:30 pm	2	6,300	12	20% oil.
1:30	2	6,100	15	20% oil.
2:30	2	6,100	6	20% oil.
3:30	2	6,100	9	40% oil.
4:30	2	6,100	15	20% oil.
5:30	2	6,100	9	40% oil.
		Ttl	117	

Rec 34 BO & 83 BW. 169 BWOL. RD swab. SDFN. Prep to
POH w/pkr & RBP & put well on prod w/rod pmp.
DWC: \$2,700. CWC: \$629,000.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

01/09/99
(cont'd)

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,000	--	BFL.
8:30	3	6,600	18	70% oil.
9:30	2	7,600	12	70% oil.
10:30	3	8,700	18	40% oil.
11:30	2	10,000	9	80% oil.
12:30 pm	2	10,000	3	80% oil.
1:30	1	10,000	3	80% oil.
2:30	1	10,130	6	90% oil.
3:30	1	10,130	6	90% oil.
4:30	1	10,130	6	90% oil.
		Ttl	81	

Rec 54 BO & 27 BW. 32 BWOL. RD swab. SDFN. Prep to
ck SITP, BFL & acidize Dev perms 10,360'-10,386'
w/2,000 gals 15% NEFE HCl acid.
DWC: \$2,400. CWC: \$617,200.

01/10/99 SITP 50 psig. Kolor Kut tnk. 71 BO & 95 BW in tnk.
RU swab. BFL @ 3,700' FS. Swbd Dev perms 10,360'-
10,386' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	3,700	--	BFL.
8:30	2	5,800	15	100% oil.
9:30	2	7,800	6	100% oil.
10:30	2	8,500	15	60% oil.
11:30	2	10,130	12	60% oil.
12:30 pm	2	10,130	6	60% oil.
		Ttl	54	

Rec 41 BO & 13 BW. 45 BWOL. RD swab. MIRU Reef pmp
trk w/2,000 gals 15% NEFE HCl acid. Bullheaded 2,000
gals 15% NEFE HCl acid into Dev perms 10,360'-10,386' @
2 BPM & 2,090 psig. Press broke back to 1,700 psig,
incr rate to 3 BPM & press broke back to 1,430 psig,
incr rate to 4 BPM & press incr to 1,590 psig. ISIP
500 psig, 1" SIP vac. 109 BLWTR. RDMO Reef pmp trk.
SDFN. Prep to swab Dev perms 10,360'-10,386'.

01/11/99 SD for Sunday.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

01/07/99
(cont'd)

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
10:30 am	1	9,400	6	100% wtr.
11:30	2	10,335	6	100% wtr.
12:30 pm	1	10,335	0	
1:30	1	10,335	0	
3:30	1	10,335	0	
5:30	1	10,335	0	
		Ttl	45	

Rec 45 BLW. RD swab. Prep to acidize Dev perfs
10,360'-10,386' w/250 gals 15% NEFE HCl acid.
DWC: \$2,500. CWC: \$611,300.

01/08/99 SITP vac. RU swab. BFL @ 10,335' (SN) FS. RD swab.
Rel pkr. RIH w/tbg & pkr to 10,386'. MIRU Reef pmp
trk w/250 gals 15% NEFE HCl acid. Spotted 250 gals 15%
NEFE HCl acid @ 10,386'. POH w/tbg & pkr to 10,130'.
Rev circ 3 BW dwn TCA. Set pkr @ 10,130'. Press tbg
to 100 psig & SI 2 hrs to let acid soak on perfs. Got
back on tbg & ppd @ 2,020 psig breaking back to 1,750
psig & 0.3 BPM. Incr rate to 0.5 BPM & press dropped
to 1,600 psig. ISIP 1,400 psig. 4" SIP vac. 69
BLWTR. RDMO Reef pmp trk. SITP vac. RU swab. BFL @
2,600' FS. Swbd Dev perfs 10,360'-10,386' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
12:00 pm	--	2,600	--	BFL.
1:00	4	6,300	24	100% wtr.
2:00	3	7,500	18	100% wtr.
3:00	2	8,700	12	100% wtr.
4:00	2	9,400	15	100% wtr.
5:00	2	9,800	9	50% oil.
		Ttl	78	

Rec 5 BO, 68 BLW & 5 BW. 5 BWOL. RD swab. SDFN.
Prep to swab Dev perfs 10,360'-10,386'.
DWC: \$3,500. CWC: \$614,800.

01/09/99 SITP 90 psig. Kolor Kut tnk. 17 BO & 80 BW in tnk.
RU swab. BFL @ 4,000' FS. Swbd Dev perfs 10,360'-
10,386' as follows:

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Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

01/05/99 SITP 0 psig. Kolor Kut tnk. 160 BO & 92 BW in tnk. RU swab. BFL @ 2,300' FS. Swbd Devonian perfs 10,457'-10,464' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	2,300	--	BFL.
8:30	2	3,000	12	100% oil.
9:30	3	6,600	15	100% oil.
10:30	2	8,300	12	100% oil.
11:30	2	10,535	15	70% oil.
12:30 pm	1	10,535	9	70% oil.
1:30	1	10,535	6	80% oil.
2:30	1	10,535	6	60% oil.
3:30	1	10,535	6	60% oil.
4:30	1	10,535	6	60% oil.
5:30	1	10,535	3	60% oil.
		Ttl	90	

Rec 73 BO & 17 BLW. 33 BLWTR. RD swab. SDFN. Prep to POH w/pkr & perf Dev zone 10,386'-10,360' (26', 27 shots).

DWC: \$2,500. CWC: \$603,500.

01/06/99 SITP 100 psig. Kolor Kut tnk. 220 BO & 110 BW in tnk. RU swab. BFL @ 3,300' FS. RD swab. Rel pkr. POH w/tbg & pkr. MIRU Computalog WL trk. PU & RIH w/4" csg gun. Perf'd Dev w/1 JSPF @ 120 degree phasing fr/10,386'-10,360' (26', 27 holes). RDMO WL trk. PU & RIH w/RBP & pkr on tbg. Set RBP @ 10,429'. POH w/tbg & pkr to 10,414' & set pkr. Press tstd RBP to 2,000 psig. Held OK. Rel pkr. POH w/tbg & pkr to 10,335'. Set pkr @ 10,335'. SDFN. Prep to swab tst Dev perfs 10,360'-10,386'.

DWC: \$5,300. CWC: \$608,800.

01/07/99 SITP 15 psig. RU swab. BFL @ 3,000' FS. Swbd Dev perfs 10,360'-10,386' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	3,000	--	BFL.
8:30	2	5,600	15	100% wtr.
9:30	3	8,000	18	100% wtr.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

12/31/98
(cont'd)

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
1:00 pm	--	4,200	--	BFL.
2:00	3	5,800	15	100% wtr.
3:00	3	6,800	21	100% wtr.
4:00	2	7,500	9	20% oil.
5:00	2	Scat	12	80% oil.
		Ttl	57	

Rec 11 BO & 46 BLW. 63 BLWTR (46 BLW fr/current acid
job & 17 BLW fr/previous acid job unrecovered). RD
swab. SDFN. Prep to ck SITP & BFL & continue swbg.
DWC: \$3,900. CWC: \$598,500.

01/01/99 SITP 110 psig. Kolor Kut tnk. 89 BO & 77 BW in tnk.
RU swab. BFL @ 3,600' FS. Swbd Devonian perms
10,457'-10,464' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
7:30 am	--	3,600	--	BFL.
8:30	3	4,600	12	100% oil.
9:30	3	7,300	15	100% oil.
10:30	2	9,000	15	60% oil.
11:30	3	Scat	15	90% oil.
12:30 pm	1	10,535	6	90% oil.
1:30	1	10,535	6	90% oil.
2:30	1	10,535	6	90% oil.
3:30	1	Scat	6	80% oil.
4:30	1	10,535	6	80% oil.
5:30	1	10,535	6	80% oil.
		Ttl	93	

Rec 80 BO & 13 BLW. 50 BLWTR. RD swab. SDFN. Prep
to ck SITP & BFL.
DWC: \$2,500. CWC: \$601,000.

01/02/99 SI for holiday.

01/03/99 SI for holiday.

01/04/99 SI for Sunday.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/29/98 Devonian perfs 10,457'-10,464'.
(cont'd) DWC: \$3,700. CWC: \$592,000.

12/30/98 SITP vac. Kolor Kut tnk. 41 BO & 20 BW in tnk. RU swab. BFL @ 4,800' FS. Swbd Devonian perfs 10,457'-10,464' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,800	--	BFL.
8:30	2	5,400	9	100% LW.
9:30	2	7,500	12	100% LW.
10:30	2	8,700	18	Trace of oil.
11:30	2	9,500	9	5% oil.
12:30 pm	1	10,400	3	50% oil.
1:30	1	10,400	6	90% oil.
2:30	1	10,400	3	90% oil.
3:30	1	10,400	3	90% oil.
4:30	1	10,400	3	90% oil.
5:30	1	10,400	3	90% oil.
		Ttl	69	

Rec 18 BO & 51 BLW. 17 BLWTR. RD swab. SDFN. Prep to check BFL & re-acidize Devonian perfs 10,457'-10,464' w/1,000 gals 15% NEFE HCl acid @ 2 BPM. DWC: \$2,600. CWC: \$594,600.

12/31/98 SITP 110 psig. Kolor Kut tnk. 50 BO & 80 BW in tnk. RU swab. BFL @ 5,000' FS. Swbd Devonian perfs 10,457'-10,464' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	5,000	--	BFL.
8:30	2	5,300	9	100% oil.
9:30	3	5,300	15	100% oil.
		Ttl	24	

Rec 24 BO & 0 BLW. 17 BLWTR. RD swab. MIRU Reef pmp trk w/1,000 gals 15% NEFE HCl acid. Bullheaded 1,000 gals 15% NEFE HCl acid into Dev perfs 10,457'-10,464' @ 2 BPM & 1,000 psig. Press gradually broke back to 750 psig. ISIP 500 psig. 1" SIP vac. 86 BLWTR. RDMO Reef pmp trk. RU swab. SITP vac, BFL @ 4,200' FS. Swbd Dev perfs 10,457'-10,464' as follows:

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Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/24/98 held OK. Rel pkr. POH & reset pkr @ 10,423'. RU
(cont'd) swab. BFL @ 1,600' FS. Swbd as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
2:00 pm	--	1,600	--	BFL.
3:00	3	4,700	15	100% wtr.
4:00	3	6,300	15	100% wtr.
5:00	2	8,300	9	100% wtr.
		Ttl	39	

Rec 39 BLW. RD swab. SDFN. Prep to continue swbg Dev perfs 10,457'-10,464'.

DWC: \$4,500. CWC: \$588,300.

12/25/98
thru SD for holidays.
12/27/98

12/28/98 SD for Sunday.

12/29/98 SITP 45 psig. Kolor Kut tnk. 20 BO & 42 BW in tnk.
RU swab. BFL @ 4,500' FS. Swbd Devonian perfs
10,457'-10,464' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,500	--	BFL.
8:30	3	5,300	15	100% oil.
9:30	2	9,000	6	80% oil.
10:30	2	9,500	12	20% oil.
11:30	1	10,400	0	
12:30 pm	1	10,400	0	
1:30	1	10,400	0	
		Ttl	33	

Rec 22 BO & 11 BW. RD swab. Rel pkr. RIH w/pkr to 10,464'. RU Reef pmp trk. Spotted 250 gals 15% NEFE HCl acid across Devonian perfs 10,457'-10,464'. Let acid soak on perfs 2 hrs. Ppd @ 0.2 BPM & 1,750 psig & perfs broke to 800 psig. Incr rate to 1/2 BPM @ 1,350 psig. ISIP 900 psig. 2" SIP vac. 68 BLWTR. SDFN. Prep to swab Devonian perfs 10,457'-10,464'.
DWC: \$3,700. CWC: \$592,000.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

12/22/98
(cont'd)

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
9:30 am	2	6,200	9	5% oil.
10:30	2	6,500	12	5% oil.
11:30	2	6,800	12	5% oil.
12:30 pm	2	6,800	9	5% oil.
1:30	2	6,800	12	5% oil.
2:30	2	6,800	12	5% oil.
3:30	2	6,800	9	5% oil.
		Ttl	90	

Rec 5 BO & 85 BW. RD swab. SDFN. Prep to continue
swbg Dev perms 10,506'-10,512'.
DWC: \$2,200. CWC: \$581,200.

12/23/98 SITP 50 psig. Kolor Kut tnk. 14 BO & 229 BW in tnk.
RU swab. BFL @ 4,000' FS. Swbd Dev perms 10,506'-
10,512' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
7:30 am	--	4,000	--	BFL.
8:30	1	4,600	6	100% wtr.
9:30	2	5,400	12	100% wtr.
10:30	2	5,800	12	Trace oil.
11:30	2	6,500	12	2% oil.
12:30 pm	2	6,500	9	2% oil.
1:30	2	6,500	12	2% oil.
2:30	2	6,500	9	2% oil.
3:30	2	6,500	12	2% oil.
4:30	2	6,500	9	2% oil.
5:30	2	6,500	12	2% oil.
		Ttl	105	

Rec 2 BO & 103 BW. RD swab. SDFN. Prep to set CIBP,
perf Dev zone 10,464'-10,457' & swab tst.
DWC: \$2,600. CWC: \$583,800.

12/24/98 SITP 50 psig. RU swab. BFL @ 4,000' FS. Rel pkr.
POH w/tbg & pkr. MIRU WL trk. PU & RIH w/5-1/2" CIBP
& set on WL @ 10,500'. POH w/WL. PU & RIH w/4" csg
gun. Perf'd Devonian w/1 JSPF & 120 degree phasing
fr/10,464'-10,457' (7', 8 shots). PU & RIH w/pkr to
10,483'. Set pkr @ 10,483'. Tstd CIBP to 2,000 psig &

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Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/19/98
(cont'd)

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
8:30 am	2	4,700	15	100% wtr.

Rec 15 BW. RD swab. Rel pkr. POH w/tbg & pkr. RU WL unit. RIH w/5-1/2" CIBP & set on WL @ 10,560'. POH w/WL. RIH w/4" csg gun & perf'd Devonian w/1 JSPF fr/10,506'-10,512' (6', 7 shots). POH & RD WL. RIH w/pkr. Set pkr @ 10,547'. RU pmp trk & tsd CIBP to 2,000 psig. Held OK. Rel pkr. POH & reset pkr @ 10,483'. SDFN. Prep to swab Dev perfs 10,506'-10,512'.

DWC: \$5,500. CWC: \$575,900.

12/20/98 SITP 0 psig. RU swab. BFL @ 1,000' FS. Swbd Dev perfs 10,506'-10,512' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
8:00 am	--	1,000	--	BFL.
9:00	3	4,500	18	100% wtr.
10:00	3	7,000	18	100% wtr.
11:00	2	9,000	9	100% wtr.
12:00 pm	3	9,800	12	100% wtr.
1:00	2	9,500	9	100% wtr.
1:30	1	9,800	3	Tr of oil.
2:30	1	8,500	6	20% oil.
3:30	2	8,700	12	5% oil.
4:30	2	8,700	12	10% oil.
5:30	2	8,700	9	10% oil.
		Ttl	108	

Rec 4 BO & 104 BW. RD swab. SDFN. Prep to continue swbg Dev perfs 10,506'-10,512'.
DWC: \$3,100. CWC: \$579,000.

12/21/98 SD for Sunday.

12/22/98 SITP 30 psig. RU swab. BFL @ 4,000' FS. Swbd Dev perfs 10,506'-10,512' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
7:30 am	--	4,000	--	BFL.
8:30	2	4,600	15	10% oil.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/17/98 w/4" csg gun & perf'd Devonian w/1 JSPF fr/10,570'-
(cont'd) 10,576' (6', 7 shots). POH & RD WL. RIH w/pkr & tbg.
Set pkr @ 10,640'. RU pmp trk. Tstd CIBP @ 10,705' to
2,000 psig. Held OK. Rel pkr. POH & reset pkr @
10,546'. RU swab. BFL @ 2,400' FS. Swbd Dev perfs
10,570'-10,576' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
3:30 pm	--	2,400	--	BFL.
4:30	4	4,400	21	100% wtr.
5:30	4	6,400	24	100% wtr.
		Ttl	45	

SDFN. Prep to continue swbg Dev perfs 10,570'-10,576'.
DWC: \$5,900. CWC: \$567,900.

12/18/98 SITP vac. RU swab. BFL @ 4,000'. Swbd Dev perfs
10,570'-10,576' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,000	--	BFL.
8:30	2	4,700	15	100% wtr.
9:30	4	6,500	24	100% wtr.
10:30	2	6,300	9	100% wtr.
11:30	3	6,300	21	2% oil.
12:30 pm	2	6,300	21	2% oil.
1:30	2	6,300	15	2% oil.
2:30	2	6,300	15	2% oil.
3:30	2	6,000	15	2% oil.
4:30	2	5,700	15	Trace of oil.
5:30	2	6,300	12	Trace of oil.
		Ttl	159	

Est rec 2 BO & 157 BW. SDFN. Prep to continue swbg
Dev perfs 10,570'-10,576'.
DWC: \$2,500. CWC: \$570,400.

12/19/98 SITP 10 psig. RU swab. BFL @ 4,000' FS. Swbd Dev
perfs 10,570'-10,576' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,000	--	BFL.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

12/15/98
(cont'd)

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
2:00 pm	1	9,200	6	100% wtr.
3:00	1	9,700	6	100% wtr.
4:00	3	9,700	12	100% wtr.
5:00	2	9,200	12	100% wtr.
		Ttl	96	

Rec 96 BW (44 BW over tbq capacity). RD swab. SDFN.
Prep to ck BFL & spot 250 gals 15% NEFE HCL acid across
Dev perfs 10,724'-10,735'.
DWC: \$3,200. CWC: \$559,500.

12/16/98 SITP 0 psig. RU swab. BFL @ 5,300'. Swbd Dev perfs
10,724'-10,735' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
7:30 am	--	5,300	--	BFL.
8:30	2	5,700	15	100% wtr.
9:30	1	6,300	6	100% wtr.
10:30	2	7,100	18	100% wtr.
11:30	1	6,800	6	100% wtr.
12:30 pm	2	8,000	15	100% wtr.
1:30	2	8,900	15	100% wtr.
2:30	2	9,100	15	100% wtr.
3:30	2	9,300	15	100% wtr.
4:30	2	9,300	12	100% wtr.
		Ttl	117	

Rec 117 BW (98 BW over tbq capacity). RD swab. SDFN.
Prep to set CIBP & perf Dev zone 10,576'-10,570'.
DWC: \$2,500. CWC: \$562,000.

12/17/98 SITP 0 psig. RU swab. BFL @ 4,200'. Swbd Dev perfs
10,724'-10,735' as follows:

Time	Runs	FL ('FS)	Rec (Bbls)	Remarks
7:30 am	--	4,200	--	BFL.
8:30	2	4,900	15	100% wtr.
		Ttl	15	

RD swab. Rel pkr. POH w/tbg & pkr. RU WL unit. RIH
w/5-1/2" CIBP & set on WL @ 10,705'. POH w/WL. RIH

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/12/98
(cont'd)

Time	Runs	FL (FS)	Rec (Bbls)	Remarks
10:30 am	2	6,000	15	100% wtr.
11:00	2	7,500	18	100% wtr.
		Ttl	45	

Rec 45 BW. 115 BWOL. RD swab. SD for ice & snow.
Prep to ck BFL, set CIBP & perf Dev zone 10,724'-10,735'.
DWC: \$1,600. CWC: \$551,100.

12/13/98 SITP 0 psig. RU swab. BFL @ 4,200'. Swbd Dev perfs 10,812'-10,822' as follows:

Time	Runs	FL (FS)	Rec (Bbls)	Remarks
7:30 am	--	4,200	--	BFL.
8:30	4	5,900	27	100% wtr.
9:30	4	6,800	18	100% wtr.
		Ttl	45	

Rec 45 BW. 160 BWOL. RD swab. Rel pkr. POH w/tbg & pkr. LD pkr. MIRU Computalog WL trk. PU & RIH w/5-1/2" CIBP. Set CIBP @ 10,800'. PU & RIH w/4" csg gun. Perf'd Dev pay w/1 JSPF & 120 degree phasing @ 10,735'-10,724' (11', 12 shots). RDMO WL trk. PU pkr & RIH on 2-7/8" tbg. SDFN. Prep to finish in hole w/pkr & tbg to swab Dev perfs 10,724'-10,735'.
DWC: \$5,200. CWC: \$556,300.

12/14/98 SD for Sunday.

12/15/98 Finished RIH w/pkr & tbg to 10,750'. Set pkr @ 10,750'. MIRU pmp trk. Press tstd CIBP to 2,000 psig. Held OK. Rel pkr. POH w/tbg & pkr to 10,703'. Set pkr @ 10,703'. RU swab. BFL @ 1,700'. Swbd Dev perfs 10,724'-10,735' as follows:

Time	Runs	FL (FS)	Rec (Bbls)	Remarks
10:00 am	--	1,700	--	BFL.
11:00	4	4,900	24	100% wtr.
12:00 pm	4	9,000	21	100% wtr.
1:00	3	10,703	15	100% wtr.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

12/10/98
(cont'd)

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
12:30 pm	1	10,600	0	
1:30	1	10,600	0	
		Ttl	6	

Rec 6 BW. RD swab. MIRU Reef pmp trk w/250 gals 15% NEFE HCl acid. Rel pkr. RIH w/pkr & tbg to 10,822'. Spotted 250 gals 15% NEFE HCl acid @ 10,822'. POH w/tbg & pkr to 10,570'. Rev 3 BW dwn TCA. Well did not circ. Set pkr @ 10,570'. Tbg on vac. Ppd 7 BW flush on vac. ISIP vac. 67 BLWTR. RDMO Reef pmp trk. SDFN. Prep to swab Dev perfs 10,812'-10,822'.
DWC: \$3,500. CWC: \$547,100.

12/11/98 SITP vac. RU swab. BFL @ 4,000'. Swbd Dev perfs 10,812'-10,822' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
7:30 am	--	4,000	--	BFL.
8:30	2	5,800	12	100% wtr.
9:30	3	6,800	9	100% wtr.
10:30	3	8,300	18	100% wtr.
11:30	3	8,000	18	100% wtr.
12:30 pm	2	8,000	18	100% wtr.
1:30	1	8,000	6	100% wtr.
2:30	3	8,000	21	100% wtr.
3:30	2	8,000	15	100% wtr.
4:30	2	8,000	12	100% wtr.
5:30	2	8,000	15	100% wtr.
		Ttl	144	

Rec 74 BLW & 70 BW. 70 BWOL. RD swab. SDFN. Prep to ck BFL, set CIBP & perf Dev zone 10,724'-10,735'.
DWC: \$2,400. CWC: \$549,500.

12/12/98 SITP vac. RU swab. BFL @ 4,200'. Swbd Dev perfs 10,812'-10,822' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> <u>('FS)</u>	<u>Rec</u> <u>(Bbls)</u>	<u>Remarks</u>
8:30 am	--	4,200	--	BFL.
9:30	2	5,000	12	100% wtr.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

12/05/98 to DO & tst DV tool.

(cont'd) DWC: \$1,700. CWC: \$533,800.

12/06/98 SD for Saturday.

12/07/98 SD for Sunday.

12/08/98 RIH w/4-3/4" bit, DC's & 2-7/8" tbg. RU rev unit. DO DV tool 7,949'-7,969'. Circ clean & tstd 5-1/2" csg to 1,000 psig for 5". Held OK. RIH w/bit to 10,842' & DO cmt to 10,855'. Circ hole w/2% KCl wtr. POH & LD DC's & bit. SDFN. Prep to run GR/CCL log & perf Devonian 10,812'-10,822'.
DWC: \$5,700. CWC: \$539,500.

12/09/98 MIRU Apollo WL trk. PU & RIH w/GR-CCL log. Ran GR-CCL log fr/PBTD 10,855' to 7,500'. PU & RIH w/4" csg gun. Perf'd Dev w/1 JSPF & 120° phasing fr/10,822'-10,812' (10', 11 shots). POH w/4" csg gun. RDMO Apollo WL trk. PU pkr. RIH w/pkr on tbg to 10,766'. Set pkr @ 10,766'. RU swab. BFL @ 100'. Swbd Dev perfs 10,812'-10,822' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> (<u>'FS</u>)	<u>Rec</u> (<u>Bbls</u>)	<u>Remarks</u>
2:30 pm	--	100	--	BFL.
3:30	4	4,000	27	100% wtr.
4:30	4	8,600	21	100% wtr.
5:30	3	10,766	15	100% wtr.
		Ttl	63	

Rec 63 BW. RD swab. Prep to continue swbg Dev perfs 10,812'-10,822'.

DWC: \$4,100. CWC: \$543,600.

12/10/98 SITP vac. RU swab. BFL @ 9,300'. Swbd Dev perfs 10,812'-10,822' as follows:

<u>Time</u>	<u>Runs</u>	<u>FL</u> (<u>'FS</u>)	<u>Rec</u> (<u>Bbls</u>)	<u>Remarks</u>
7:30 am	--	9,300	--	BFL.
8:30	2	10,766	6	100% wtr.
9:30	1	10,600	0	
10:30	1	10,600	0	
11:30	1	10,600	0	

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

11/27/98	17 jts - 5-1/2" 17# Csg	655.28'
(cont'd)	1 jt - 5-1/2" 17# Marker Jt	16.80'
	54 jts - 5-1/2" 17# Csg	2,212.27'
	1 - 5-1/2" Davis Lynch DV Tool	1.91'
	20 jts - 5-1/2" 17# Csg	854.36'
	53 jts - 5-1/2" 20# Csg	2,167.99'
	117 jts - 5-1/2" 17# Csg	4,950.04'
	Ttl Csg	10,899.33'
	Less Cut Off	-22.00'
	RKB to GL	18.50'
	Csg Set @	10,895.83'
	FC @	10,855.15'
	Marker Jt @	10,183'
		-10,200'
	DVT @	7,969'
		-7,971'

RU BJ Services. Cmt'd in 2 stgs. First stg - 715sx Cl "H" cmt w/3% KCl & 1% FL-25 (15.6 ppg, 1.20 cuft/sx). Disp w/8 BFW & 170 bbls mud. PD @ 8:45 pm 11/26/98 w/1,930 psig (430 psig over final disp press). Float held OK. Dropped DVT opening bomb & circ 4 hrs. Did not circ cmt to surf. Second stg - 625sx 35:65 Pozmix Cl "H" cmt w/6% gel & 1/4#/sx Colloflake (12.4 ppg, 1.99 cuft/sx) followed w/100sx Cl "H" cmt (15.6 ppg, 1.18 cuft/sx). Disp w/185 BFW. PD @ 1:50 am 11/27/98 w/3,030 psig (1,530 psig over final disp press). Float held OK. Did not circ cmt. ND BOP. Set slips. Cut off csg. Jetted pits clean. RR @ 7:00 am 11/27/98. RU Arc Pressure Data. Ran TS. TOC @ 4,150' FS. Tagged @ 7,965'.
DMC: \$0. CMC: \$21,649. DWC: \$111,155. CWC: \$495,555.

11/28/98
thru
12/03/98 WO completion.

12/04/98 MI & racked 10,900' of new 2-7/8", 6.5#, N-80, EUE, 8rd tbg. MIRU Sierra WS. SDFN. Prep to PU RB, DC's & RIH on tbg to DO DV tool.
DWC: \$36,500. CWC: \$532,100.

12/05/98 Repaired PU. PU 4-3/4" RB & 6 - 3-1/2" DC's & RIH on 160 jts 2-7/8", 6.5#, N-80, EUE, 8rd tbg. SDFN. Prep

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 Lo D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

11/23/98 40-60 units, TG 4,600 units.
(cont'd) DMC: \$1,159. CMC: \$17,583. DWC: \$5,522. CWC: \$323,384.

11/24/98 Drlg @ 10,770' (370'/24 hrs), Lm, Dolo, Survey: 1° @ 10,680', MW 9.2, Vis 43, PV 10, YP 11, Gels 6/15, pH 10, WL 8, Cl 20,000, Ca 160, Solids 5.1%, Added 8sx caustic, 50sx gel, 3sx SA, 8sx Drispac & 10 gals Flo-drill, Bit #9, In @ 10,204' (566'/40-3/4 hrs), WOB 45,000#, RPM 60, PP 1,350#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg 22-3/4 hrs, Survey 1 hr, Rig Serv 1/4 hr. 80% Lm, 20% Dolo. BGG 60 units, CG 75 units, Survey gas 520 units. Show @ 10,518'-10,650'. Dolo, lm 10-40% fluorescence w/fair to good cut. 150 units gas.
DMC: \$2,559. CMC: \$20,142. DWC: \$9,837. CWC: \$333,221.

11/25/98 Logging @ 10,900' (130'/24 hrs), Lm, Dolo, Survey: 3/4° @ 10,900', MW 9.4, Vis 63, PV 15, YP 21, Gels 11/23, pH 11, WL 5, Alk 0.4/1.10, Cl 24,000, Solids 6.4%, Added 2sx caustic, 88sx gel, 3sx SA, 5sx Drispac & 5 gals Flo-drill, Bit #9, In @ 10,204', Out @ 10,900' (696'/48 hrs), WOB 45,000#, RPM 60, PP 1,350#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg 7-1/4 hrs, Trip 6-1/2 hrs, C & C 2-3/4 hrs, Log 7-1/2 hrs. Drld to 10,900'. Circ. SOH (no correction). RU Schlumberger WJ. Ran Platform Express logging suite consisting of DLL/MSFL/CNL/LDT/ML/GR/Cal fr/loggers TD of 10,900' to 5,100'. Logs on btm @ 1:00 am 11/25/98. Prep to run FMI & RFT logs.
DMC: \$1,507. CMC: \$21,649. DWC: \$7,475. CWC: \$340,696.

11/26/98 TOH & LD DP @ 10,900', Lm, Dolo. Trip 8-1/2 hrs, C & C 2-3/4 hrs, Repr 2-1/4 hrs, Log 9-1/2 hrs, Misc 1 hr. Fin running OH logs. RD WL unit. TIH. Circ & TOH. LD DP.
DMC: \$0. CMC: \$21,649. DWC: \$43,704. CWC: \$384,400.

11/27/98 Rig Rel @ 10,900', Lm, Dolo. Trip (LD DP) 3-3/4 hrs, C & C 5-3/4 hrs, Rn Csg/Cmt 10-1/4 hrs, ND/Tst BOP 3-1/4 hrs, Misc 2 hrs. Fin LD DP & DC's. RU csg crew & ran new 5-1/2", 17# & 20#, L-80, LTC csg as follows:

1	- 5-1/2" Davis Lynch FS	1.40'
1 jt	- 5-1/2" 17# Csg	38.10'
1	- 5-1/2" Davis Lynch FC	1.18'

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian test in the University Blk 9 (Devonian) Field.

- 11/19/98 caustic, 20sx bar, 27sx gel, 2sx SA & 10 gals Flo-
(cont'd) drill, Bit #8, In @ 8,441' (1,025'/82-3/4 hrs), WOB
45,000#, RPM 60, PP 1,300#, Liner 6" x 8" stroke, SPM
100, GPM 294. Drlg 23-1/4 hrs, Survey 3/4 hr. 90% Lm,
10% Sh. BGG 20-40 units, Survey gas 145 units.
DMC: \$1,315. CMC: \$14,038. DWC: \$7,135. CWC: \$299,875.
- 11/20/98 Drlg @ 9,785' (319'/24 hrs), Sh, MW 9.3, Vis 42, PV 12,
YP 11, Gels 5/19, pH 11, WL 11, Alk 50/125, Cl 22,000,
Ca 240, Solids 6.5%, Added 11sx gel, 2sx SA & 5sx
Drispac, Bit #8, In @ 8,441' (1,344'/106-3/4 hrs), WOB
45,000#, RPM 60, PP 1,300#, Liner 6" x 8" stroke, SPM
100, GPM 294. Drlg 24 hrs. 100% Sh. BGG 145 units.
DMC: \$895. CMC: \$14,933. DWC: \$7,318. CWC: \$307,193.
- 11/21/98 Drlg @ 10,025' (240'/24 hrs), Lm, Sh, Ch, Survey: 1-
3/4 @ 9,868', MW 9.4, Vis 43, PV 13, YP 12, Gels 9/16,
pH 10.5, WL 10, Alk 0.80/1.10, Cl 28,000, Ca 160,
Solids 6.2%, Added 4sx caustic, 25sx gel, 1sx Drispac &
5 gals Flo-drill, Bit #8, In @ 8,441' (1,584'/130 hrs),
WOB 45,000#, RPM 60, PP 1,300#, Liner 6" x 8" stroke,
SPM 100, GPM 294. Drlg 23-1/4 hrs, Survey 3/4 hr. 70%
Lm, 20% Sh, 10% Ch. BGG 40 units, Survey gas 530
units.
DMC: \$496. CMC: \$15,429. DWC: \$5,596. CWC: \$312,789.
- 11/22/98 TOH For Bit @ 10,204' (179'/24 hrs), Lm, Sh, MW 9.2,
Vis 43, PV 9, YP 15, Gels 6/20, pH 10, WL 10, Alk
0.70/0.95, Cl 20,000, Ca 200, Solids 5.2%, Added 5sx
caustic, 38sx gel, 4sx Drispac & 2 gals Flo-drill, Bit
#8, In @ 8,441', Out @ 10,204' (1,763'/151 hrs), WOB
45,000#, RPM 60, PP 1,300#, Liner 6" x 8" stroke, SPM
100, GPM 294. Drlg 21 hrs, Survey 1/4 hr, Trip 2-3/4
hrs. 60% Lm, 40% Sh. BGG 60 units, CG 140 units.
DMC: \$995. CMC: \$16,424. DWC: \$5,073. CWC: \$317,862.
- 11/23/98 Drlg @ 10,400' (196'/24 hrs), Lm, Survey: 2° @
10,204', MW 9.2, Vis 42, PV 8, YP 12, Gels 9/12, pH
10.5, WL 10, Cl 19,000, Ca 200, Solids 4.5%, Added 3sx
caustic, 35sx gel, 5sx Drispac & 5 gals Flo-drill, Bit
#9, 7-7/8" STC F32H, SN LT2410, Bit/Nozzles 12/12/12,
In @ 10,204' (196'/18 hrs), WOB 45,000#, RPM 60, PP
1,300#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg
18 hrs, W & R 1/4 hr, Trip 5-3/4 hrs. 100% Lm. BGG

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFF #98121 to D & C a 10,700' Devonian tst
in the University Blk 9 (Devonian) Field.

- 11/14/98 repairs. 90% Lm, 10% Sh.
(cont'd) DMC: \$0. CMC: \$8,732. DWC: \$1,683. CWC: \$271,461.
- 11/15/98 Rig Repair @ 8,441' (0'/24 hrs), Lm, Sh, MW 8.8, Vis 34, PV 4, YP 8, Gels 5/10, pH 9.5, WL 20, Alk 20/25, Cl 24,000, Ca 440, Solids 2.1%, Bit #8, In @ 8,441'. Repr 24 hrs. Repairing hydromatic shaft. Bit @ 5,000' (inside csg).
DMC: \$0. CMC: \$8,732. DWC: \$1,080. CWC: \$272,541.
- 11/16/98 Drlg @ 8,600' (159'/24 hrs), Lm, MW 8.9, Vis 24, PV 10, YP 11, Gels 5/15, pH 10.5, WL 13, Cl 13,000, Solids 3.5%, Added 5sx caustic, 73sx bar, 96sx gel, 7sx SA, 10 gals K10-drill & 3sx Drispac, Bit #8, In @ 8,441' (159'/13 hrs), WOB 42,000#, RPM 60, PP 1,200#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg 13 hrs, W & R 1/4 hr, Trip 1-1/2 hr, Repr 9-1/4 hrs. 100% Lm. BGC 40 units, CG 60 units, TG 5,000 units. Show 8,441' to 8,480'. 10-20% fluorescence in lm. Gas 100 units.
DMC: \$2,728. CMC: \$11,460. DWC: \$6,471. CWC: \$279,012.
- 11/17/98 Drlg @ 8,873' (273'/24 hrs), Lm, Sh, Survey: 1-1/2° @ 8,597', MW 9.1, Vis 43, PV 10, YP 20, Gels 15/25, pH 10.5, WL 13, Alk .75/.60, Cl 20, Ca 160, Solids 3.8%, Added 2sx caustic & 2sx Drispac, Bit #8, In @ 8,441' (432'/36-1/4 hrs), WOB 45,000#, RPM 60, PP 1,250#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg 23-1/4 hrs, Survey 3/4 hr. 80% Lm, 20% Sh. BGC 30-40 units.
DMC: \$365. CMC: \$11,825. DWC: \$6,558. CWC: \$285,570.
- 11/18/98 Drlg @ 9,183' (310'/24 hrs), Lm, Survey: 1° @ 8,814', MW 9.2, Vis 45, PV 9, YP 17, Gels 15/25, pH 12, WL 14, Cl 22,000, Ca 200, Solids 4.4%, Added 3sx caustic, 6sx gel & 5sx Drispac, Bit #8, In @ 8,441' (742'/59-1/2 hrs), WOB 45,000#, RPM 60, PP 1,300#, Liner 6" x 8" stroke, SPM 100, GPM 294. Drlg 23-1/4 hrs, Survey 3/4 hr. 100% Lm. BGC 24 units, Survey gas 270 units. Show @ 9,014'-9,030', 10% fluorescence, 32 units. Show @ 9,100'-9,110', 10% fluorescence, 52 units. Show @ 9,120'-9,150', 20% fluorescence, 60 units.
DMC: \$898. CMC: \$12,723. DWC: \$7,170. CWC: \$292,740.
- 11/19/98 Drlg @ 9,466' (283'/24 hrs), Lm, Sh, Survey: 1/2° @ 9,372', MW 9.2, Vis 42, PV 9, YP 12, Gels 10/23, pH 11, WL 14.8, Cl 23,000, Ca 280, Solids 5.6%, Added 2sx

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field.

- 11/10/98 7,320' (615'/130-3/4 hrs), WOB 8,000#, RPM 75, PP
(cont'd) 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg
16-1/2 hrs, W & R 1/4 hr, Survey 3/4 hr, Trip 6-1/2
hrs. 70% Lm, 20% Sh, 10% Dolo. BGG 3 units.
DMC: \$0. CMC: \$2,885. DWC: \$2,085. CWC: \$252,819.
- 11/11/98 Drlg @ 8,025' (90'/24 hrs), Lm, Survey: 4-1/2° @
7,951', MW 8.5, Vis 28, pH 11, Bit #7, In @ 7,320'
(705'/154 hrs), WOB 8,000#, RPM 75, PP 1,350#, Liner 6"
x 8" stroke, SPM 110, GPM 323. Drlg 23-1/4 hrs, Survey
3/4 hr. 100% Lm. BGG 8-10 units, MG 10 units.
DMC: \$0. CMC: \$2,885. DWC: \$2,588. CWC: \$255,407.
- 11/12/98 Running Svy @ 8,175' (150'/24 hrs), Lm, Sh, Surveys:
4° @ 8,013', 4° @ 8,075' & 3-1/4° @ 8,137', MW 8.6, Vis
38, pH 10, WL 15, Added 10sx caustic, 132sx gel, 22sx
SA, 3sx Flodrill & 5sx Poly Pac, Bit #7, In @ 7,320'
(855'/175-3/4 hrs), WOB 10-18,000#, RPM 70, PP 1,350#,
Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 21-3/4
hrs, Survey 2-1/4 hrs.
DMC: \$2,560. CMC: \$5,445. DWC: \$6,152. CWC: \$261,559.
- 11/13/98 Drlg @ 8,405' (230'/24 hrs), Lm, Ch, Survey: 3° @
8,200', MW 8.9, Vis 43, pH 10, WL 15, Added 12sx
caustic, 170sx bar, 26sx gel, 20sx SA & 8sx Poly Pac,
Bit #7, In @ 7,320' (1,085'/198-3/4 hrs), WOB 38,000#,
RPM 60-65, PP 1,200#, Liner 6" x 8" stroke, SPM 100,
GPM 294. Drlg 23 hrs, Survey 1 hr. Well fld 1/2"
stream of sulfur wtr @ 8,175'. Raised mud wt to 8.9
ppg to control wtr flow. 90% Lm, 10% Ch. BGG 130-180
units, MG 180 units.
DMC: \$3,287. CMC: \$8,732. DWC: \$8,219. CWC: \$269,778.
- 11/14/98 Rig Repair @ 8,441' (36'/24 hrs), Lm, Sh, Survey: 1-
3/4° @ 8,400', MW 8.8, Vis 34, PV 4, YP 8, Gels 5/10,
pH 9.5, WL 20, Alk 20/25, Cl 24,000, Ca 440. Solids
2.1%, Bit #7, In @ 7,320', Out @ 8,441' (1,121'/200-3/4
hrs), WOB 38,000#, RPM 65, PP 1,200#, Liner 6" x 8"
stroke, SPM 100, GPM 294, Bit #8, 7-7/8" STC F37H, SN
LT2839, Bit/Nozzles 12/12/12, In @ 8,441'. Drlg 2 hrs,
Trip 9 hrs, Repr 13 hrs. Drld to 8,441'. TFB. SOH
(no correction). TIH to 8,000'. Hydromatic shaft
broke. TOH to 5,000' (inside csg). SD for rig

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian test in the University Blk 9 (Devonian) Field.

- 11/05/98 Added 2sx Lm, Bit #7, In @ 7,320' (242'/47-3/4 hrs), (cont'd) WOB 18-15,000#, RPM 63, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 13-3/4 hrs, Survey 1-1/2 hr, Trip 8-3/4 hrs. BGG 8 to 10 units, TG 36 units.
DMC: \$6. CMC: \$2,828. DWC: \$2,225. CWC: \$241,114.
- 11/06/98 Drlg @ 7,655' (93'/24 hrs), Lm, Ch, Sh, Survey: 4-1/2° @ 7,578', MW 8.5, Vis 28, pH 10, Added 2sx Lm, Bit #7, In @ 7,320' (335'/63 hrs), WOB 15,000#, RPM 63, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 15-1/4 hrs, W & R 1/4 hr, Survey 3/4 hr, Trip 7 hrs, Misc 3/4 hr. BGG 4 units, TG 25 units, MG 12 units.
DMC: \$6. CMC: \$2,834. DWC: \$2,644. CWC: \$243,758.
- 11/07/98 Drlg @ 7,725' (70'/24 hrs), Lm, Dolo, Sh, Survey: 4-3/4° @ 7,641', MW 8.5, Vis 28, pH 10, Added 2sx Lm, Bit #7, In @ 7,320' (405'/74-1/4 hrs), WOB 10,000#, RPM 65, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 11-1/4 hrs, W & R 1/4 hr, Survey 3/4 hr, Trip 3 hrs, Repr 8-3/4 hr. BGG 8 units, TG 40 units.
DMC: \$6. CMC: \$2,840. DWC: \$2,259. CWC: \$246,017.
- 11/08/98 Drlg @ 7,780' (55'/24 hrs), Lm, Dolo, Survey: 5° @ 7,702', MW 8.5, Vis 28, pH 10, Added 10sx Lm, Bit #7, In @ 7,320' (460'/91-3/4 hrs), WOB 8-10,000#, RPM 60-75, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 17-1/2 hrs, Survey 3/4 hr, Trip 5-3/4 hrs. Ppd soft line. Chained out of hole. Found cracked tool jt. TIH. Drlg. 90% Lm, 10% Dolo. BGG 4 units, TG 50 units, CG none, MG 10 units. 7,690'-7,770' tr fluorescence.
DMC: \$45. CMC: \$2,885. DWC: \$2,046. CWC: \$248,063.
- 11/09/98 Drlg @ 7,875' (95'/24 hrs), Lm, Dolo, Sh, Surveys: 4-3/4° @ 7,764' & 5° @ 7,826', MW 8.5, Vis 28, pH 11, Bit #7, In @ 7,320' (555'/114-1/4 hrs), WOB 8-10,000#, RPM 75, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 22-1/2 hrs, Survey 1-1/2 hr. 70% Lm, 20% Dolo, 10% Sh. BGG 8-10 units, MG 10 units.
DMC: \$0. CMC: \$2,885. DWC: \$2,671. CWC: \$250,734.
- 11/10/98 Drlg @ 7,935' (60'/24 hrs), Lm, Sh, Dolo, Survey: 4-1/2° @ 7,888', MW 8.5, Vis 28, pH 11, Bit #7, In @

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian test in the University Blk 9 (Devonian) Field.

- 10/31/98 Drlg @ 6,990' (305'/24 hrs), Lm, Sh, Surveys: 2° @ 6,670', NP @ 6,855' & 2° @ 6,884', MW 8.4, Vis 28, pH 10, Added 4sx paper & 5 gals MF-55, Bit #6, In @ 5,170' (1,820'/73 hrs), WOB 25-40,000#, RPM 65, PP 1,400#, Liner 6" x 8" stroke, SPM 108, GPM 313. Drlg 22 hrs, Survey 2 hrs.
DMC: \$94. CMC: \$2,379. DWC: \$6,283. CWC: \$225,684.
- 11/01/98 Drlg @ 7,225' (235'/24 hrs), Lm, Dolo, Surveys: 2-1/2° @ 7,038' & 3-1/4° @ 7,162', MW 8.4, Vis 28, pH 11, Added 4sx paper & 5 gals MF-55, Bit #6, In @ 5,170' (2,055'/95-3/4 hrs), WOB 25-30,000#, RPM 65, PP 1,400#, Liner 6" x 8" stroke, SPM 108, GPM 313. Drlg 22-3/4 hrs, Survey 1 hr, Rig Serv 1/4 hr.
DMC: \$94. CMC: \$2,473. DWC: \$5,110. CWC: \$230,794.
- 11/02/98 Drlg @ 7,294' (69'/24 hrs), Lm, Dolo, Ch, Survey: 3° @ 7,224', MW 8.5, Vis 28, pH 10, Cl 15,000, Added 4sx paper, 20sx gel, 1sx SA & 1sx lime, Bit #6, In @ 5,170' (2,124'/115-1/4 hrs), WOB 20-23,000#, RPM 65, PP 1,425#, Liner 6" x 8" stroke, SPM 108, GPM 313. Drlg 19-1/2 hrs, Survey 1/2 hr, Trip 4 hrs.
DMC: \$150. CMC: \$2,623. DWC: \$2,386. CWC: \$233,180.
- 11/03/98 Drlg @ 7,394' (100'/24 hrs), Lm, Dolo, Ch, Survey: 3-1/2° @ 7,317', MW 8.5, Vis 28, pH 11, Cl 16,000, Added 1sx caustic, 3sx paper, 3sx lime & 5 gals MF-55, Bit #6, In @ 5,170', Out @ 7,320' (2,150'/119 hrs), Bit #7, 7-7/8" STC F37H, SN LT2851, Bit/Nozzles 12/12/12, In @ 7,320' (74'/11 hrs), WOB 20,000#, RPM 60, PP 1,325#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 14-3/4 hrs, W & R 1/4 hr, Survey 1/2 hr, Trip 7-1/4 hrs, Misc 1-1/4 hr.
DMC: \$124. CMC: \$2,747. DWC: \$2,879. CWC: \$236,059.
- 11/04/98 Drlg @ 7,494' (100'/24 hrs), Lm, Dolo, Survey: 4° @ 7,408', MW 8.6, Vis 28, Cl 16,000, Added 5 gals MF-55, Bit #7, In @ 7,320' (174'/34 hrs), WOB 15,000#, RPM 63, PP 1,350#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 23 hrs, Survey 3/4 hr, Rig Serv 1/4 hr.
DMC: \$75. CMC: \$2,822. DWC: \$2,830. CWC: \$238,889.
- 11/05/98 Drlg @ 7,562' (68'/24 hrs), Lm, Dolo, Surveys: 4-1/4° @ 7,457' & 4-1/2° @ 7,515', MW 8.5, Vis 28, pH 10,

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field of Andrews County, TX.

10/27/98
(cont'd)

DVT @ 1,752'
Cmt Basket @ 1,765'

RU BJ Services. Cmt'd in 2 stages as follows: First Stage - 700sx 50/50 Pozmix Cl "C" cmt w/10% gel, 5% salt & 1/4#/sx Celloflake (11.6 ppg, 2.61 cuft/sx) followed w/200sx Cl "C" cmt w/1% CaCl (14.8 ppg, 1.34 cuft/sx). Disp w/220 BFW & 88 bbls mud. PD @ 3:30 pm 10/26/98 w/1,500 psig (500 psig over final disp press). Float held OK. Opened DVT & circ 4 hrs. Did not circ cmt. Second Stage - 640sx Cl "C" cmt w/4% gel & 2% CaCl (13.5 ppg, 1.74 cuft/sx) followed w/100sx Cl "C" cmt w/2% CaCl (14.8 ppg, 1.34 cuft/sx). Disp w/108 BFW. PD @ 8:15 pm 10/26/98 w/2,600 psig (1,750 psig over final disp press). Float held OK. Circ 20sx cmt to surf. WOC. Cut off csg. NU BOP. DMC: \$0. CMC: \$2,214. DWC: \$66,946. CWC: \$189,541.

10/28/98 Drlg @ 5,290' (190'/24 hrs), Dolo, MW 8.4, Vis 28, pH 11, Bit #5, 7-7/8" STC F271 (RR), Serial #LS543, Bit/Nozzles 12/12/12, In @ 5,100', Out @ 5,170' (70'/4 hrs), Bit #6, 7-7/8" STC 37, Serial #LT2887, Bit/Nozzles 12/11/11, In @ 5,170' (120'/5-1/4 hrs), WOB 50,000#, RPM 60, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 9-1/4 hrs, Wash & Ream 3/4 hr, Trip 9-3/4 hrs, NU/Tst BOP 1 hr, Misc 3-1/4 hrs. DMC: \$0. CMC: \$2,214. DWC: \$4,262. CWC: \$193,803.

10/29/98 Drlg @ 5,900' (610'/24 hrs), Lm, Dolo, Survey: 1-1/2° @ 5,523', MW 8.4, Vis 28, pH 10, Added 5sx paper & 5sx lime, Bit #6, In @ 5,170' (730'/28 hrs), WOB 50,000#, RPM 60, PP 1,400#, Liner 6" x 8" stroke, SPM 108, GPM 313. Drlg 22-3/4 hrs, Survey 1/2 hr, Rig Serv 1/4 hr, Misc 1/2 hr. DMC: \$40. CMC: \$2,254. DWC: \$11,338. CWC: \$205,141.

10/30/98 Drlg @ 6,685' (785'/24 hrs), Lm, Surveys: 1-3/4° @ 6,020' & 1-3/4° @ 6,515', MW 8.4, Vis 28, pH 11, Added 9sx paper, Bit #6, In @ 5,170' (1,515'/51 hrs), WOB 50-25,000#, RPM 65, PP 1,400#, Liner 6" x 8" stroke, SPM 108, GPM 313. Drlg 23 hrs, Survey 1 hr. DMC: \$31. CMC: \$2,285. DWC: \$14,260. CWC: \$219,401.

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian test in the University Blk 9 (Devonian) Field of Andrews County, TX.

- 10/24/98 Drlg @ 4,330' (365'/24 hrs), Dolo, Sh, Survey: 3/4° @ 4,023', MW 10, Vis 29, pH 10, Added 8sx lm & 6 gals MF-55, Bit #4, In @ 3,543' (787'/40-1/4 hrs), WOB 50-60,000#, RPM 70, PP 1,200#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 23-1/4 hrs, Survey 1/4 hr, Repr 1/2 hr.
DMC: \$116. CMC: \$1,804. DWC: \$8,435. CWC: \$106,727.
- 10/25/98 Drlg @ 4,690' (360'/24 hrs), Dolo, Sh, Sd, Survey: 1-1/2° @ 4,422', MW 10, Vis 29, pH 10, Added 4sx paper & 11sx lm, 10 gals MF-55, Bit #4, In @ 3,543' (1,147'/63-3/4 hrs), WOB 60,000#, RPM 70, PP 1,200#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 23-1/2 hrs, Survey 1/2 hr.
DMC: \$205. CMC: \$2,009. DWC: \$7,515. CWC: \$114,242.
- 10/26/98 RU Csg Crew @ 5,100' (410'/24 hrs), Dolo, Sh, Sd, Survey: 1-1/2° @ 5,061', MW 10.1, Vis 29, pH 10, Added 1sx paper, 33sx gel, 7sx lm, Bit #4, In @ 3,543', Out @ 5,100' (1,557'/80-1/4 hrs), WOB 60,000#, RPM 70, PP 1,200#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 16-1/2 hrs, Survey 1/4 hr, Trip 5-1/4 hrs, C & C 1-1/2 hr, Misc 1/2 hr. Drld to intermediate csg depth (5,100'). Circ hole clean. Spotted viscous plug on btm. TOH. LD 8" DC's. RU csg crew.
DMC: \$205. CMC: \$2,214. DWC: \$8,353. CWC: \$122,595.
- 10/27/98 NU BOP @ 5,100' (0'/24 hrs), Dolo, Sh, Sd, Wash & Ream 2 hrs, C & C 4 hrs, Rn Csg/Cmt 8-1/4 hrs, WOC 2-1/4 hrs, NU/Tst BOP 7-1/2 hrs. Ran new 8-5/8", 32#, J-55 & NS-80, STC csg as follows:
- | | | |
|-----------------|-----------------------------------|-----------|
| 1 | - 8-5/8" Davis Lynch Float Shoe | 1.52' |
| 1 jt | - 8-5/8" NS-80 Csg | 41.76' |
| 1 | - 8-5/8" Davis Lynch Float Collar | 1.37' |
| 24 jts | - 8-5/8" NS-80 Csg | 969.47' |
| 55 jts | - 8-5/8" J-55 Csg | 2,331.53' |
| 1 | - 8-5/8" Davis Lynch DV Tool | 2.17' |
| 42 jts | - 8-5/8" J-55 Casing | 1,759.88' |
| Total Csg Tally | | 5,107.70' |
| Less Cut Off | | -26.20' |
| KB to GL | | +18.50' |
| Csg Set @ | | 5,100.00' |
| FC @ | | 5,055.35' |

UNIVERSITY BLK 9 "B", WELL #8

Reports for AFE #98121 to D & C a 10,700' Devonian tst in the University Blk 9 (Devonian) Field of Andrews County, TX.

- 10/19/98 RU BJ Services. Cmt'd w/260sx Cl "C" cmt w/4% gel, 2% CaCl₂ & 1/4#/sx Celloflake (13.5 ppg, 1.75 cuft/sx) followed w/100sx Cl "C" cmt w/2% CaCl₂ (14.8 ppg, 1.34 cuft/sx). Disp w/42.5 BFW. PD @ 7:35 pm 10/18/98 w/500 psig (340 psig over final disp press). Float did not hold. Circ 200sx cmt to surf. Left well SI for 5 hrs. Cut off csg. Welded on csg hd. NU BOP. DMC: \$0. CMC: \$362. DWC: \$6,138. CWC: \$30,823.
- 10/20/98 Drlg @ 900' (586'/24 hrs), Rd Bd, Survey: 3/4° @ 800', MW 8.4, Vis 30, pH 10, Bit #3, 11" STC FDS+, Serial #LS6440, Bit/Nozzles 12/12/12, In @ 314' (586'/5-3/4 hrs), WOB 40,000#, RPM 100, PP 950#, Liner 6" x 8" stroke, SPM 93, GPM 274. Drlg 5-3/4 hrs, Survey 1/4 hr, Trip 1/2 hr, NU/Tst BOP 14 hrs, Misc 3-1/2 hrs. DMC: \$16. CMC: \$378. DWC: \$11,120. CWC: \$41,943.
- 10/21/98 Drlg @ 2,800' (1,900'/24 hrs), Anhy, Salt, Surveys: 3/4° @ 1,318', 1/4° @ 1,815' & 1/2° @ 2,346', MW 10, Vis 29, pH 10, Bit #3, In @ 314' (2,486'/28-1/4 hrs), WOB 40-50,000#, RPM 100, PP 1,150#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 22-1/2 hrs, Survey 1 hr, Misc 1/2 hr. DMC: \$141. CMC: \$519. DWC: \$33,946. CWC: \$75,889.
- 10/22/98 Drlg @ 3,500' (700'/24 hrs), Anhy, Surveys: 1° @ 2,816' & 1-1/2° @ 3,307', MW 10.1, Vis 29, pH 10, Added 10sx paper, 9sx lime, 5 gals MF-55 & Drayage, Bit #3, In @ 314' (3,186'/51-1/2 hrs), WOB 40-50,000#, RPM 80, PP 1,200#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 23-1/4 hrs, Survey 3/4 hr. DMC: \$840. CMC: \$1,359. DWC: \$13,305. CWC: \$89,194.
- 10/23/98 Drlg @ 3,965' (465'/24 hrs), Anhy, Sd, Survey: 1-3/4° @ 3,543', MW 10, Vis 29, pH 10, Added 6sx paper, 19sx gel, 15sx lime & 10 gals MF-55, Bit #3, In @ 314', Out @ 3,543' (3,229'/53 hrs), Bit #4, 11" Varel ETD29, Serial #142681, Bit/Nozzles 12/12/12, In @ 3,543' (422'/17 hrs), WOB 50,000#, RPM 70, PP 1,200#, Liner 6" x 8" stroke, SPM 110, GPM 323. Drlg 18-1/2 hrs, W & R 1 hr, Trip 4-1/2 hrs. DMC: \$329. CMC: \$1,688. DWC: \$9,098. CWC: \$98,292.

UNIVERSITY BLK 9 "B", WELL #8

First Report for AFE #98121 to D & C a 10,700' Devonian
tst in the University Blk 9 (Devonian) Field of Andrews
County, TX.

- 08/24/98 Topographic Surveyors staked loc 2,425' FNL & 1,300'
FEL, Sec 15, Blk 9, ULS, Andrews Co., TX. GL 3,164'.
- 03/06/98 Drlg permit approved by Texas RRC to drill a 10,700'
Devonian well. Permit #473967. API #42-003-38384.
- 10/14/98 Rowland Trucking Company of Eunice, NM finished
construction of loc.
- 10/18/98 Running Surface Csg @ 314' (314'/24 hrs), Rd Bd,
Survey: 3/4° @ 281', MW 9.8, Vis 45, pH 9, Added 60sx
gel & 4sx lime, Bit #1, 17-1/2" STC, Retip, Serial
#71999, Bit/Nozzles 13/13/11, In @ 0', Out @ 93'
(93'/3-1/4 hrs), WOB All, RPM 120, Liner 6" x 10"
stroke, PP 800#, SPM 77, GPM 270, Bit #2, 17-1/2" STC,
Retip, Serial #RT, Bit/Nozzles 11/11/12, In @ 93', Out
@ 314' (221'/5-3/4 hrs), WOB All, RPM 120, Liner 6" x
8" stroke, PP 700#, SPM 80, GPM 230. RU 4-3/4 hrs,
Drlg 9 hrs, Survey 1/4 hr, Trip 2 hrs, Rig Serv 6 hrs,
C & C 1/2 hr, Rn Csg/Cmt 1/2 hr, Misc 1 hr. MIRU Key
Rig #36. Spudded well @ 10:45 am 10/17/98. Drld to
314'. Circ. TOH. RU csg crew & std running 13-3/8"
csg.
DMC: \$362. CMC: \$362. DWC: \$24,685. CWC: \$24,685.
- 10/19/98 NU BOP's @ 314' (0'/24 hrs), Rd Bd. W & R 3-1/2 hrs,
Trip 5-1/4 hrs, C & C 1 hr, Rn Csg/Cmt 2-3/4 hrs, WOC 5
hrs, NU/Tst BOP 1-1/2 hr, Misc 5 hrs. Unable to get
csg past ledge @ 91'. TOH w/csg. TIH w/bit & reamer.
W & R out hole. Circ hole clean. TOH w/bit & ran new
13-3/8", 48#, H-40, STC csg as follows:
- | | | |
|-------|------------------------------------|---------|
| 1 | - 13-3/8" Davis Lynch TX Pattern | |
| | Shoe | 1.15' |
| 1 jt | - 13-3/8" Csg | 38.07' |
| 1 | - 13-3/8" Davis Lynch Insert Float | 0.00' |
| 7 jts | - 13-3/8" Csg | 277.99' |
| | Ttl Csg Tally | 317.21' |
| | Less Cut Off | -21.71' |
| | KB to GL | 18.50' |
| | Csg Set @ | 314.00' |
| | IF @ | 274.78' |