

DRILLING TIME LOG

20-26-18 W

COMPANY Glen Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
20	05	40	52	7	Pump 5	2750	55				
	10		59	7			60				
	15		7:11	12			65				
	20		22	11			70				
	25		41	12	Conn 7 Min		75				
	30		48	7			80				
	35		56	8			85				
	40		8:02	6			90				
	45		10	8	OST 1		95				
	50	9:02	9:11	9			2800				
	55		19	8							
	60	25	32	7	Conn 5 Min						
	65		39	7							
	70		46	7							
	75		53	7							
	80		10:04	11							
	85		13	9							
	90	17	27	10	Conn 4 Min						
	95		40	13							
2600			49	9							
	05		59	10							
	10		11:05	6							
	15		13	8							
	20	17	28	11	Conn 4 Min						
	25		37	9							
	30		44	7							
	35		49	5							
	40		53	4							
	45		59	6							
	50	12:23	12:18	15	Conn.						
	55										
	60										
	65										
	70										
	75										
	80										
	85										
	90										
	95										
2700											
	5										
	10										
	15										
	20										
	25										
	30										
	35										
	40										
	45										
	50										

KG

FOUNDATION

Keep 1' D.T.

10' SAMPLES

until 3000' then Catch 5' SAMPLES

1 call Rupe at 3000'

Stop at 3300

MU 46684
Wichita

DRILLING TIME LOG

COMPANY Glen Rupe FARM. Case WELL NO. 1
LOCATION _____ COUNTY Edwards STATE Kansas
TYPE INDICATOR _____ SIZE OF BIT 7/8 SIZE OF DRILL PIPE 1 1/2 P.H.

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
						50	51	11:05	11:06	1	
							2		07	1	
							3		11:08	1	
							4		9	1	
							5		11	2	
							6		12	2	
							7		14	1	
							8		16	2	
							9		18	2	
						2660			19	1	
							61		21	2	
							62		23	2	
							63		25	2	
							64		27	2	
							65		28	1	
							66		11:30	2	
							67		32	2	
							68		34	2	
							69		36	2	
						9670			37	1	
							71		39	2	
							72		41	2	
							73		43	2	
							74		44	1	
							75		45	1	
							76		46	1	
							77		47	1	
							78		11:48	1	Conn. & Rig
							79	12:03	12:04	1	
						2680			05	1	
							81		6	1	
							82		7	1	
							83		8	1	
							84		9	1	
							85		10	1	
							86		11	1	
							87		12	1	
							88		13	1	
							89		14	1	
						9690			15	1	
							91		16	1	
							92		17	1	
							93		18	1	
							94		19	1	
							95		20	1	
							96		21	1	
							97		22	1	
							98		23	1	
							99		24	1	
						9700			12:25	1	

DRILLING TIME LOG

COMPANY Elen Rupe FARM. Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT 7 7/8 SIZE OF DRILL PIPE 4 1/2 F.H.

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	2701	12:25	12:26	1		2750	2751	3:44	3:47	3	
	2		29	3			52		50	3	
	3		31	2			53		53	3	
	4		33	2			54		55	2	
	5		35	2			55		58	3	
	6		36	1			56		4:01	3	
	7		37	1			57		04	3	
	8		39	2			58		08	4	
	9		12:42	3	Conn.		59		4:11	3	
8710	12:49	13:30	1			2760			14	3	
	11		52	2			61		17	3	
	12		55	3			62		20	3	
	13		58	3			63		24	4	
	14		1:02	4			64		27	3	
	15		05	3			65		4:30	3	
	16		7	2			66		33	3	
	17		11	4			67		36	3	
	18		13	2			68		39	3	
	19		14	1			69		44	5	
2720			16	2		2770			48	4	
	21		19	3			71		4:53	5	Conn. & Rock Swivel
	22		22	3			72	5:50	5:53	3	
	23		26	4			73		5:56	3	
	24		28	2			74		59	3	
	25		31	3			75		6:01	2	
	26		34	3			76		04	3	
	27		37	3			77		06	2	
	28		40	3			78		07	1	
	29		44	4			79		09	2	
2730			47	3		2780			11	2	
	31		50	3			81		13	2	
	32		53	3			82		16	3	
	33		55	2			83		17	1	
	34		57	2			84		18	1	
	35		1:59	2			85		19	1	
	36		2:00	2			86		20	1	
	37		03	2			87		21	1	
	38		06	3			88		23	2	
	39		9	3			89		24	1	
2740		2:12	3	Conn.		2790			26	2	
	41	2:18	2:20	2			91		28	2	
	42		24	2			92		29	1	
	43		26	2			93		6:30	1	
	44		28	2			94		31	1	
	45		30	2	Circ spls.		95		32	1	
	46	3:30	3:32	2			96		33	1	
	47		3:35	3			97		35	2	
	48		38	3			98		37	2	
	49		41	3			99		38	1	
2750		3:44	3			2800			6:40	2	Conn.

DRILLING TIME LOG

COMPANY Glen Rupe FARM. Case WELL NO. 1
 LOCATION _____ COUNTY _____ STATE _____
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
OM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
20	2801	6:45	6:47	2		2850	51	10:07	11	4	
	2		52	5			52		15	4	
	3		55	3			53		18	3	
	4		59	4			54		22	4	
	5		7:03	4			55		26	4	
	6		06	3			56		31	5	
	7		10	4			57		35	4	
	8		14	4			58		39	4	
	9		17	3			59		43	4	
2810			20	3		2860			47	4	
	11		23	3			61		50	3	
	12		26	3			62		54	4	
	13		30	4			63		58	4	
	14		34	4			64		11:02	4	
	15		37	3			65	16	09	3	Conn.
	16	44	46	2	Rig		66		12	3	
	17		49	3			67		14	2	
	18		52	3			68		17	3	
	19		56	4			69		20	3	
2820			58	2		2870			25	5	
	21		8:01	3			71		30	5	
	22		03	2			72		35	5	
	23		06	3			73		39	4	
	24		08	2			74		43	4	
	25		10	2			75		46	3	
	26		13	3			76		50	4	
	27		15	2			77		54	4	
	28		18	3			78		58	4	
	29		21	3			79		12:02	4	
2830			24	3		2880			05	3	
	31		27	3			81		08	3	
	32		31	4			82		11	3	
	33		35	4			83		15	4	
	34	45	119	4	Conn.		84		18	3	
	35	59	7:03	4			85		22	4	
	36		07	4			86		27	5	
	37		11	4			87		31	4	
	38		16	5			88		35	4	
	39		21	5			89		40	5	
2840			25	4		2890			45	5	
	41		30	5			91		50	5	
	42		34	4			92		54	4	
	43		39	5			93		59	5	
	44		43	4			94		1:04	5	
	45		47	4			95		09	5	
	46		51	4			96	13	17	4	Conn.
	47		54	3			97		20	3	
	48		57	3			98		24	4	
	49		10:02	5			99		27	3	
2850			07	5		2900			30	3	

DRILLING TIME LOG

COMPANY Reps FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Utah
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
2900	1	1:30	34	4		2950	51	6:18	19	1	
	2		38	4			52		21	2	
	3		42	4			53		23	2	
	4		46	4			54		24	1	
	5		50	4			55		26	2	
	6		54	4			56		27	1	
	7		59	5	trip		57		29	2	Conn
	8	4:32	34	2			58	33	35	2	
	9		36	2			59		37	2	
2910			39	3		2960			39	2	
	11		42	3			61		40	1	
	12		43	1			62		41	1	
	13		45	2			63		42	1	
	14		47	2			64		43	1	
	15		48	1			65		46	3	
	16		50	2			66		49	3	
	17		52	2			67		52	3	
	18		54	2			68		54	2	
	19		56	2			69		56	2	
2920			58	2		2970			58	2	
	21		5:01	3			71		700	2	
	22		3	2			72		02	2	
	23		6	3			73		04	2	
	24		8	2			74		6	2	
	25		11	3			75		8	2	
	26		14	3	Conn Swivel		76		11	3	
	27	5:20	22	2			77		14	3	
	28		24	2			78		17	3	
	29		27	3			79		20	3	
2930			30	3		2980			23	3	
	31		32	2			81		25	2	
	32		34	2			82		27	2	
	33		36	2			83		30	3	
	34		38	2			84		34	4	
	35		40	2			85		37	3	
	36		42	2			86		40	3	
	37		43	1			87		42	2	Conn
	38		45	2			88	7:59	4:01	2	Hopper Open
	39		48	3			89		3	2	
2940			50	2		2990			6	3	
	41		53	3			91		9	3	
	42		56	3			92		11	2	
	43		6:00	4			93		14	3	
	44		02	2			94		17	3	
	45		6	4			95		20	3	
	46		9	3			96		22	2	
	47		11	2			97		25	3	
	48		14	3			98		28	3	
	49		16	2			99		30	2	
2950			18	2		3000			32	2	

DRILLING TIME LOG

COMPANY Rupe FARM. Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kans
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
3001	8.32	34	2			3050	30 51	11:13	11:15	2	
2		36	2				52		18	3	
3		39	3				53		21	3	
4		41	2				54		25	4	
5		44	3				55		28	3	
6		47	3				56		31	3	
7		50	3				57		34	3	
8		52	2				58		36	2	
9		55	3				59		38	2	vis 38
3010		58	3			3060		11:41		3	WT 9.9
11	9:02	1					61		49	3	
12		5	3				62		47	3	
13		8	3				63		50	3	
14		11	3				64		54	4	
15		15	4				65		57	3	
16		17	2				66	12:00		3	
17		20	3				67		03	3	
18		22	2		Conn.		68		07	4	
19	9:27	30	3				69		12	5	
3020		33	3			3070		16	4		
21		36	3				71		21	5	
22		39	3				72		24	3	
23		42	3				73		27	3	
24		46	4				74		31	4	
25		50	4				75		34	3	
26		53	3				76		38	4	
27		56	3				77		41	3	
28		59	3				78		45	4	
29	10:02	3					79		48	3	
3030		5	3			3080		51	3		
31		8	3			81	12:55	4		Conn.	
32		11	3			82	1:01	11:03	2		
33		16	5			83		1:07	4		
34		19	3			84		1:09	2		
35		22	2			85		11	2		
36		25	3			86		14	3		
37		28	3			87		17	3		
38		31	3			88		20	3		
39		34	3			89		23	3		
3040		38	4			3090		26	3		
41		42	4				91		28	2	
42		45	3				92		30	2	
43		48	3				93		32	2	
44		49	1				94		34	2	
45		51	2				95		36	2	
46		54	3				96		39	3	
47		56	2				97		41	2	
48		58	2				98		43	2	
49	11:00	2			Conn.		99		44	1	
3050	11:12	11:13	1			3100		46	2		

COMPANY

Glen Rupe

FARM

Case

WELL NO.

1

LOCATION

COUNTY

Edwards

STATE

Kansas

TYPE INDICATOR

SIZE OF BIT

7/8

SIZE OF DRILL PIPE

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	3101	1:46	1:47	1		3150	3151	4:38	4:42	4	
	2		49	2			52		45	3	
	3		50	1			53		49	4	
	4		52	2			54		53	4	
	5		54	2			55		56	3	
	6		55	1			56	5:00		4	
	7		58	3			57	09		3	
	8	2:02		4			58	06		3	
	9		06	4			59	09		3	
3110			10	4		3160			12	3	
	11		14	4			61		15	3	
	12		20	6	Conn.		62		19	4	
	13	2:26	2:29	3			63		23	4	
	14		31	3			64		28	5	
	15		35	3			65		33	5	
	16		38	3			66		36	3	
	17		41	3			67		40	4	
	18		44	3			68		44	4	
	19		47	3			69		48	4	
3120			49	2		3170			52	4	
	21		52	3			71		56	4	
	22		54	2			72	6:00		4	
	23	3:57		3			73	6:05		5	Trip
	24	3:00		3			74	9:1-	9:02	3	
	25		02	2			75		06	3	
	26		04	2			76		08	2	
	27		06	2			77		11	3	
	28		09	3			78		14	3	
	29		12	3			79		16	2	
3130			16	4		3180			17	1	
	31		19	3			81		19	2	
	32		23	4			82		20	1	
	33		27	4			83		22	2	
	34		31	4			84		25	3	
	35		35	4			85		27	2	
	36		39	4			86		29	2	
	37		43	4			87		32	3	
	38		47	4			88		34	2	
	39		51	4			89		37	3	
3140			55	4		3190			39	2	
	41		58	3			91		41	2	
	42		4:02	4			92		44	3	
	43	4:10	4:12	2	CONN.		93		46	2	
	44		15	3			94		48	2	
	45		18	3			95		50	2	
	46		21	3			96		52	2	
	47		24	3			97		54	2	
	48	4:28		4			98		56	2	
	49		33	5			99		58	2	
3150			4:38	5		3200			10:-	2	

stop@3300

DRILLING TIME LOG

COMPANY Glen Rupe FARM. Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT 7 7/8 SIZE OF DRILL PIPE 4 1/2

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
0	3201	10:01	10:02	2		3250	51	16	18	2	
	2		04	2			52		21	3	
	3		06	2	CONN.		53		24	3	
	4	10:12	14	2			54		27	3	
	5		16	2			55		30	3	
	6		17	1			56		33	3	
	7		18	1			57		35	2	
	8		20	2			58		37	2	
	9		21	1			59		40	3	
3210			25	2		3260			43	3	
	11		26	3			61		46	3	
	12		28	2			62		49	3	
	13		31	3			63		51	2	
	14		34	3			64		53	2	
	15		36	2			65		56	3	
	16		39	3			66	1:02	1:05	3	Conn.
	17		41	2			67		07	2	
	18		44	3			68		10	3	
	19		46	2			69		13	3	
3220			49	3		3270			15	2	
	21		52	3			71		19	2	
	22		55	3			72		20	3	
	23		58	3			73		24	4	
	24	11:01		2			74		27	3	
	25		05	3			75		30	3	
	26		06	3			76		34	4	
	27		09	3			77		37	3	
	28		11	2			78		40	3	
	29		14	3			79		43	3	
3230			17	3		3280			46	3	
	31		21	4			81		50	4	
	32		25	4			82		53	3	
	33		29	4			83		56	3	
	34		33	4	CONN.		84		59	3	
	35	38	41	3			85	2:02		3	
	36		42	1			86		05	3	
	37		43	1			87		08	3	
	38		45	2			88		11	3	
	39		47	2			89		15	4	
3240			50	3		3290			18	3	
	41		53	3			91		20	2	
	42		55	2			92		22	2	
	43		57	2			93		24	2	
	44	12:01		3			94		26	2	
	45		03	3			95		29	3	
	46		05	2			96		31	2	
	47		08	3			97	35	37	2	Conn.
	48		11	3			98		39	2	
	49		14	3			99		41	2	
3250			16	2		3300			43	2	

DRILLING TIME LOG

COMPANY Rope FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kns.
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
3300	1	2:43	2:46	3		3350	3351	4:25	4:27	2	
	2		50	4			52		30	3	
	3		53	3			53		33	3	
	4		56	3			54		36	3	
	5		58	2			55		38	2	
	6	3:01		3			56		41	3	
	7		4	3			57		44	3	
	8		8	4			58	4:48		4	Conn
	9		11	3			59	4:53	4:55	2	
3310			12	1		3360			4:58	3	
	11		14	2			61		5:02	4	
	12		16	2			62		05	3	
	13		18	2			63		08	3	
	14		19	1			64		11	3	
	15		21	2			65		14	3	
	16		23	2			66		18	4	
	17		26	3			67		22	4	
	18		28	2			68		25	3	
	19		29	1			69		29	4	
3320			30	1		3370			32	3	
	21		32	2			71		35	3	
	22		34	2			72		37	2	
	23		36	2			73		40	3	
	24		38	2			74		44	4	
	25		41	3			75		47	3	
	26		43	2			76		50	3	
	27		45	2	Conn + Rig		77		53	3	
	28	4:56	58	2			78		56	3	
	29		4:01	3			79		59	3	
3330			4	3		3380	5:59	6:02		3	
	31		6	2			81		1:06	4	
	32		9	3			82		09	3	
	33		11	2			83		13	4	
	34		14	3			84		16	3	
	35		16	2			85		19	3	
	36		19	3			86		23	4	
	37		22	3			87		29	6	
	38		25	3			88		32	3	
	39		27	2	STOP		89		35	3	
3340			28	1		3390		6:39		4	Circ Samples
	41	7:48	49	1			91	2:57	58	1	
	42		51	2			92		3:00	2	Test 3338-90
	43		53	2			93		3:03	3	
	44		55	2			94		5	2	
	45	4:57		2	Run 39' Anchor		95		8	3	3390
	46	3:45	3:46	1	start out of 6:00		96		10	2	3338
	47		3:48	2			97		12	2	52' Anchor
	48		3:50	2			98		16	4	
	49		3:53	3			99		18	2	
3350			3:56	3	Circ Samples	3400			21	3	

DRILLING TIME LOG

COMPANY Rupe FARM. Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kans.
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
OM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	1	4:21	24	3		3450	1	6:20	6:24	4	
	2		28	4			2		27	3	Conn
	3		31	3			3	6:52	34	2	
	4		34	3			4		36	2	
	5		37	3			5		38	2	
	6		40	3			6		41	3	
	7		43	3			7		45	4	
	8		46	3			8		49	4	
	9		49	3			9		52	3	
3410			52	3		3460			55	3	
	1		55	3			1		58	3	
	2		58	3			2		1:01	3	
	3		1:02	4			3		04	3	
	4		5	3			4		07	3	
	5		8	3			5		10	3	
	6		11	3			6		13	3	
	7		13	2			7		18	5	
	8		15	2			8		22	4	
	9		18	3			9		26	4	
3420			21	3		3470			30	4	
	1		25	4	Conn + Right		1		35	5	
	2	4:48	57	3			2		38	3	
	3		53	2			3		41	3	
	4		55	2			4		45	4	
	5		58	3			5		49	4	
	6		5:02	9			6		53	4	
	7		5	3			7		56	3	
	8		8	3			8		59	3	
	9		11	3			9		8:02	3	
3430			14	3		3480			05	3	
	1		17	3			1		09	4	
	2		20	3			2		12	3	
	3		23	3			3		16	4	Conn.
	4		25	2			4	8:20	24	4	
	5		26	1			5		27	3	
	6		30	4			6		30	3	
	7		34	4			7		33	3	
	8		35	1			8		36	3	
	9		38	3			9		39	3	
3440			41	3		3490			42	3	
	1		44	3			1		45	3	
	2		50	6			2		47	2	
	3		55	5			3		51	4	
	4		6:00	5			4		54	3	
	5		04	4			5		57	3	
	6		08	4			6		7:00	3	*
	7		11	3			7		1:03	3	
	8		15	4			8		6	3	
	9		17	2			9		9	3	
3450			20	3		3500			12	3	

DRILLING TIME LOG

COMPANY Glen Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT 7 7/8 SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
OM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
350	351	9:12	9:15	3		3550	3551	11:40	11:42	2	
	2		17	2			52		44	2	
	3		19	2			53		46	2	
	4		21	2			54		49	3	
	5		23	2			55		51	2	
	6		25	2			56		53	2	
	7		27	2			57		55	2	
	8		30	3			58		57	2	
	9		33	3			59		59	2	
3510			35	2		3560		12:01		2	
	11		38	3			61		03	2	
	12		41	3			62		05	2	
	13		43	2			63		07	2	
	14		45	2	Conn.		64		09	2	
	15	9:49	9:52	3			65		11	2	
	16		54	2			66		14	3	
	17		57	3			67		16	2	
	18		10:00	3			68		18	2	
	19		3	3			69		21	3	
3520			6	3		3570		23	2		
	21		9	3			71		25	2	
	22		12	3			72		28	3	
	23		15	3			73		31	3	
	24		18	3			74		34	3	
	25		20	2			75		37	3	
	26		22	2			76		40	3	
	27		24	2			77		12:43	3	Conn.
	28		25	1			78	12:47	12:49	2	
	29		27	2			79		51	2	
3530		10:29		2		3580		52	1		
	31		31	2			81		52 1/2	1 1/2	
	32		33	2			82		55	2 1/2	
	33		35	2			83		57	2	
	34		39	4			84		1:00	3	
	35		42	3			85		02	2	
	36		46	4			86		04	2	
	37		50	4			87		07	3	
	38		54	4			88		10	3	
	39		58	4			89		13	3	
3540		11:02		4		3590		15	2		
	41		6	4			91		16	1	
	42		10	4			92		18	2	
	43		15	5			93		22	4	
	44		18	3			94		24	2	
	45		11:21	3			95		27	3	
	46	1 FT OFS		—	Conn.		96		30	3	
	47	11:31	11:34	3			97		34	4	
	48		36	2			98		37	3	
	49		38	2			99		40	3	
3550		11:40		2		3600		1:42	2		

DRILLING TIME LOG

COMPANY Glen Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT 7/8 SIZE OF DRILL PIPE _____
 NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED	TIME		FROM	TO	BEGAN	ENDED	TIME	
0	3601	1:42	1:44	2		3650	3651	4:48	4:53	5	
	2		46	2			52		57	4	
	3		49	2			53		5:00	3	
	4		52	3			54		04	4	
	5		55	3			55		09	5	
	6		59	4			56		13	4	vis 38
	7	2:02		3			57		16	3	WT 9.5
	8	2:09		2	Conn		58		18	2	
	9	2:09	2:11	2			59		20	1	
3610			14	3		3660			23	3	
	11		17	3			61		27	4	
	12		19	2			62		30	3	
	13		23	4			63		34	4	
	14		27	4			64		38	4	
	15	3:30		3			65		5:43	5	trip
	16		35	5			66	8:47	8:50	3	
	17		39	4			67		53	3	
	18		42	3			68		56	3	
	19		46	4			69		7:--	4	
3620			50	4		3670			63	3	
	21		54	4			71		07	4	
	22		57	3			72	13	17	4	Conn.
	23	3:00		3			73		21	4	
	24		04	4			74		24	3	
	25		08	4			75		26	2	
	26		12	4			76		29	3	
	27		15	3			77		32	3	
	28		19	4			78		35	3	
	29		22	3			79	38	41	3	Rig
3630			25	3		3680			44	3	
	31		27	2			81		47	3	
	32	3:30		3			82		50	3	
	33		33	3			83		53	3	
	34		37	4			84		57	4	
	35		42	5			85		10:--	3	
	36		46	4			86		63	3	
	37		51	5			87		06	3	
	38		56	5			88		10	4	
	39	4:01		5	Conn.		89		14	4	
3640	4:06		08	2		3690			19	5	
	41		13	5			91		22	3	
	42		18	5			92		25	3	
	43		22	4			93		28	3	
	44		26	4			94		31	3	
	45		29	3			95		34	3	
	46		33	4			96		36	2	
	47		37	4			97		38	2	
	48		41	4			98		40	2	
	49		45	4			99		42	2	
3650		4:48		3		3700			44	2	

DRILLING TIME LOG

COMPANY Rupe FARM Cass WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kans
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
OM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	1	10:44	10:46	2	Conn.	3750	51	1:25	28	3	
	2	50	52	2			52		31	3	
	3		54	2			53		34	3	
	4		56	2			54		36	2	
	5		58	2			55		38	2	
	6		11:01	3			56		40	2	
	7		04	3			57		42	2	
	8		07	3			58		44	2	
	9		11	4			59		47	3	
3710			15	4		3760			49	2	
	11		20	5			61		52	3	
	12		24	4			62		55	3	
	13		28	4			63	59	2:01	2	Conn.
	14		31	3			64		04	3	
	15		34	3			65		07	5	
	16		36	2			66		15	6	
	17		38	2			67		18	3	
	18		40	2			68		21	3	
	19		42	2			69		25	4	
3720			45	3		3770			30	5	
	21		48	3			71		35	5	
	22		50	2			72		39	4	
	23		53	3			73		42	3	
	24		57	4			74		45	3	
	25		12:1	3			75		48	3	
	26		03	3			76		52	4	
	27		06	3			77		57	5	
	28		08	2			78		3:02	5	
	29		10	2			79		06	4	
3730			12	2		3780			10	4	
	31		14	2			81		17	7	
	32		17	3			82		24	7	
	33	21	23	2	Conn.		83		31	7	
	34		25	2			84		38	7	
	35		27	2			85		45	7	
	36		30	3			86		50	5	
	37		33	3			87		55	5	
	38		37	4			88		1:00	5	
	39		41	4			89		5	5	
3740			45	4		3790			8	3	
	41		48	3			91		13	5	
	42		51	3			92		18	3	
	43		55	4			93		20	4	
	44		59	4			94		25	5	Conn.
	45		1:04	5			95	44	45	4	
	46		09	5			96		48	3	
	47		13	4			97		52	4	
	48		17	4			98		55	3	
	49		21	4			99		5:01	6	
3750			25	4		3800			06	5	

DRILLING TIME LOG

COMPANY Rupe FARM CASE WELL NO. 1
 LOCATION _____ COUNTY EDWARDS STATE KANS
 TYPE INDICATOR _____ SIZE OF BIT 7 7/8 SIZE OF DRILL PIPE 4 1/2

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	1	5:06	10	4		3850	51	1:14	1:18	4	
	2		15	5			52		1:22	4	
	3		21	6			53		1:26	4	
	4		27	6			54		1:29	3	
	5		30	3			55		1:30	1	
	6		34	4			56		1:32	2	Conn n
	7		39	5			57	1:38	1:40	2	
	8		46	7			58		41	1	
	9		50	4			59		43	2	
3810	10		55	5		3860			45	3	
	11		6:01	6			61		48	3	
	12		4	3			62		51	3	
	13		6	2			63		54	3	
	14		8	2			64		57	3	Vic. 36
	15		12	4			65		2:00	3	WT. 9.4
	16		16	4			66		03	3	
	17		22	6			67		09	6	
	18		28	6			68		14	5	
	19		35	7			69		19	5	
3820	20		41	6		3870			22	3	
	21		45	4			71		25	3	
	22		52	7			72		27	2	
	23		59	7			73		29	2	
	24		7:06	7	3.8		74		31	2	
	25		14	8	Conn n		75		33	2	
	26	7:19	27	8			76		36	3	
	27		32	5			77		38	2	
	28		39	7			78		41	3	
	29		46	7			79		43	2	
3830	30		54	8		3880			45	2	
	31		8:01	7			81		47	2	
	32		37	6			82		49	2	
	33		10	3			83		51	2	
	34		17	7			84		53	2	
	35		22	5			85		56	3	
	36		30	8			86		58	2	CONN.
	37		37	7			87				
	38		45	8			88				
	39		51	6			89				
3840	40		59	8		3890					9.60 ft
	41		9:06	7			91				Corr
	42		14	8			92				To
	43		22	8			93				Pipe
	44		30	8	Trip		94				Strap.
	45	12:34	57	3			95				
	46		1:01	4			96				
	47		1:04	3			97	3:03	3:05	2	
	48		1:07	3			98		07	2	
	49		1:10	3			99		08	1	
3850	50		1:14	4		3900			3:10	2	Call Point

DRILLING TIME LOG

COMPANY Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kans
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
390	3901	3:10	3:11	1		3951	3952	4:46	4:47	1	
	2		13	2			52		49	2	Hooper off
	3		3:15	2			53		51	2	
	4		17	2			54		53	2	
	5		18	1			55		54	1	
	6		19	1			56		55	1	
	7		21	2			57	4:56		1	Conn.
	8		23	2			58	5:02	5:03	1	
	9		25	2			59		5:04	1	
3910			26	1		3960			5	1	
	11		28	2			61		6	1	
	12		3:30	2			62		7	1	
	13		32	2			63		8	1	
	14		34	2			64		10	2	
	15		36	2			65		13	3	
	16		38	2			66		15	2	
	17		40	2			67		18	3	
	18		42	2			68		21	3	
	19		44	2			69		24	3	
3920			46	2	mix mud	3970			27	3	
	21		3:49	3			71		31	4	
	22		51	2			72		34	3	
	23		53	2			73		37	3	
	24		55	2			74		40	3	
	25		57	2			75		45	5	
	26		59	2	Conn.		76		48	3	
	27	4:05	4:07	2			77		53	5	
	28		09	2			78		57	4	
	29		10	1					6:00	3	
3930			12	2		3980			6:04	4	
	31		14	2					08	4	
	32		15	1					11	3	
	33		17	2					15	4	
	34		19	2					19	4	
	35		20	1					21	2	
	36		21	1					23	2	
	37		23	2					26	3	
	38		26	3					6:28	2	Conn.
	39		28	2				6:33	6:35	2	
3940			30	2		3990			39	4	
	41		31	1					43	4	
	42		32	1					47	4	
	43		34	2					52	5	
	44		36	2					57	5	
	45		37	1					7:03	6	
	46		39	2					09	6	
	47		41	2					14	5	
	48		43	2					18	4	
	49		45	2					20	2	
3950			4:46	1		4010			22	2	

DRILLING TIME LOG

COMPANY Rupe FARM Cass WELL NO. 1
 LOCATION _____ COUNTY _____ STATE _____
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	1	7:22	24	2		4050	51	10:26	30	4	
	2		26	2			52		35	5	
	3		28	2			53		40	5	
	4		32	4			54		45	5	
	5		37	5			55		50	5	
	6		41	4			56		55	5	
	7		44	3			57	11:01	6		
	8		47	3			58		06	5	
	9		50	3			59		11	5	
4010			53	3		4060			16	5	
	11		56	3			61		23	7	
	12		59	3			62		30	7	
	13	8:02		3			63		35	5	
	14		06	4			64		40	5	
	15		11	5			65		44	4	
	16		15	4			66	50	53	3	Pump
	17		19	4			67		56	3	
	18		24	5			68		59	3	
	19	36	39	3	Conn. Rig		69	12:02	3		
4020			41	2		4070			05	3	
	21		44	3			71		08	3	
	22		47	3			72		11	3	
	23		49	2			73		14	3	
	24		52	3			74		17	3	
	25		56	4			75		20	3	
	26	9:01		5			76		23	3	
	27		06	5			77		26	3	
	28		10	4			78		29	3	
	29		14	4			79		32	3	
4030			18	4		4080			36	4	
	31		21	3			81		40	4	
	32		24	3			82	58	1:01	3	Conn. - Rig
	33		27	3			83		04	3	
	34		30	3			84		06	3	
	35		33	3			85		1:08	2	
	36		36	3			86		11	3	
	37		38	2			87		14	3	
	38		41	3			88		17	3	
	39		44	3			89		20	3	
4040			46	2		4090			23	3	
	41		49	3			91		26	3	
	42		52	3			92		29	3	
	43		55	3			93		31	2	
	44		57	2			94		33	2	
	45		59	2			95		36	3	
	46	10:02		2			96		39	3	
	47		06	4			97		42	3	
	48		11	5			98		45	3	
	49		15	4			99		48	3	
4050	22	26	4		Conn.	4100			51	3	

DRILLING TIME LOG

COMPANY Rupe FARM. Cass WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kans.
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	1	1:51	53	2		41 50	51	4:53	57	4	
	2		56	3			52		5:02	5	
	3		59	3			53		8	6	
	4		2:02	3			54		11	3	
	5		05	3			55		16	5	Trip
	6		08	3			56	8:47	51	4	
	7		10	2			57		55	4	
	8		13	3			58		9:00	5	
	9		16	3			59		03	3	
41	10		19	3		41	60		7	4	
	11		22	3			61		11	4	
	12		25	3			62		16	5	
	13	29	32	3	Conn.		63		21	5	
	14		35	3			64		31	10	
	15		39	4			65		36	5	
	16		41	2			66		40	4	
	17		44	3			67		43	3	
	18		47	3			68		48	5	
	19		51	4			69		52	5	
41	20		54	3		41	70		57	5	
	21		57	3			71		10:01	4	
	22		3:--	3			72		3	2	
	23		03	3			73		7	4	
	24		5	2			74		10	3	Conn.
	25		7	2	Start 5' sampler		75	10:14	18	4	
	26		11	4			76		21	3	
	27		14	3			77		25	4	
	28		17	3			78		29	4	
	29		20	3			79		32	3	
41	30		23	3		41	80		36	4	
	31		27	4			81		39	3	
	32		30	3			82		44	5	
	33		32	2			83		46	2	
	34		38	6			84		48	2	
	35		46	8			85		50	2	
	36		52	6			86		52	2	
	37		55	3			87		54	2	
	38		4:00	5			88		57	3	
	39		05	5			89		11:01	4	
41	40		11	6		41	90		05	4	
	41		15	4			91		11	6	
	42		18	3			92		17	6	
	43		21	3	Conn + Rig		93		24	7	
	44	4:32	34	2			94		34	10	
	45		38	4			95		42	8	
	46		42	4			96		46	4	VIC 40
	47		46	4			97		11:50	4	WT 9.7
	48		48	2			98		54	4	
	49		50	2			99		56	2	mix mud
41	50		53	3		42	00	11:56	12:01	5	

DRILLING TIME LOG

COMPANY Glen Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	4201	12:01	12:05	4	mix mud	4250	4251	6:09	6:17	8	VIC 43
2			09	4			52		24	7	WT 9.8
3			13	4			53		31	7	
4			18	5			54		39	8	
5		12:24		6			55	6:46		7	
6	12:37		41	4	Conn. + Rig.		56		54	8	
7			47	6			57	7:02		8	
8			53	6			58		59	7	
9			59	6			59		16	7	
4210	12:59		1:06	7		4260			22	6	
11			12	6			61		29	7	
12			21	9			12		35	6	
13			31	10			13		41	6	
14			39	8			14		47	6	
15			47	8			15		53	6	
16		1:55		8			16		8:--	7	
17		2:02		7			17		06	6	
18		2:12		10			18	15	20	5	Conn.
19		2:22		10			19		24	4	
4220	2:32		10			4270			29	5	
21			41	9			71		34	5	
22			50	9			12		40	6	
23		3:00		10			72		46	6	
24			08	8			73		51	5	
25			14	6			75		57	6	VIC 44
26			22	8			76		7:04	7	WT 9.8
27			30	8			77		11	7	
28			36	6			78		23	11	
29			45	9			79		31	8	
4230			51	6		4280			41	10	
31			55	4			81		51	10	Trip
32		4:00		5			82	3:15	19	4	Circ 30 Min
33			04	4			83		24	5	
34			10	4			84		28	4	
35			17	7			85		33	5	
36			27	10	Conn		86		38	5	
37	4:35		4:42	7	VIC 43		87		43	5	
38			51	9	WT 9.8		88		48	5	
39			58	7			89		52	4	
4240		5:04		6		4290			55	3	
41		5:12		8			91		59	4	
42			18	6			92		2:03	4	
43			25	7			93		06	3	
44		5:32		7			94		10	4	
45			38	6	SE		95		14	4	
46			40	2			96		18	4	
47			42	2			97		23	5	
48			50	8			98		25	2	
49		6:01		11			99	29	30	1	Conn.
4250		6:09		8		4300			31	1	

Glen Rupe
Kansan Motel

DRILLING TIME LOG

COMPANY Glen Rupe FARM Case WELL NO. 1
LOCATION _____ COUNTY Edwards STATE Kansas
TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
4300	1	2:31		1/2		4350	51	7:45		1/2	
	2		32	1/2			52		46	1/2	
	3		33	1			53			1/3	
	4		37	4			54			1/3	
	5		43	6		4355		47		1/3	
	6		48	5	Case		56		48	1	
	7	3:42	46	4			57		50	2	
	8		52	6			58		53	3	
	9		58	6			59		54	1	
4310		4:06	8			4360		56		2	
	11		13	7			61		59	3	Conn.
	12		16	3			62	8:03	4	1	
	13		20	4			63		5	1	
	14		28	8			64		6	1	
	15		32	4		4365		8		2	
	16		36	4			66		11	3	
	17		40	4			67		19	8	
	18		45	5			68		24	6	
	19		51	6			69		29	5	
4320			57	6		4370		33		4	
	21	5:03	6				71		38	5	
	22		7	4			72		42	4	
	23		12	5			73		45	3	
	24		17	5			74		49	4	
	25		22	5		4375		55		6	
	26		26	4			76	9:01		6	
	27		30	4			77		06	5	Room 20
	28		34	4			78		13	7	Kansan
	29		41	7			79		19	6	Motel
4330			45	4	Case	4380		24		5	at breakfast
	31	5:54	6:04	10			81		31	7	
	32		9	5			82		36	5	
	33		15	6			83		41	5	
	34		22	7			84		45	4	
	35		32	10		4385		49		4	
	36		38	6			86		52	3	
	37		47	9			87		55	3	
	38		52	5			88		59	4	
	39		58	6			89	10:00	04	5	
4340		7:04	6			4390		12		8	
	41		11	7			91		17	5	Conn
	42		18	7			92	10:22	28	6	
	43		23	5			93		35	7	
	44		29	6			94		41	6	
	45		34	5		4395		50		9	
	46		38	4			96		57	7	
	47		41	3			97		11:03	6	
	48		44	3			98		09	6	
	49			1/2			99		16	7	
4350		4:5	1/2			4400		11:22		6	

DRILLING TIME LOG

206
2
2.12

COMPANY Glen Rupe FARM. Case WELL NO. 1
LOCATION _____ COUNTY Edwards STATE Kansas
TYPE INDICATOR _____ SIZE OF BIT 7/8 SIZE OF DRILL PIPE 4 1/2 P.H.

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	4401	11:22	11:28	6		4450	4451	7:20	25	5	
	2		34	6			52		31	6	
	3		42	8			53	50	55	5	Conn. Pipe 50' 1
	4		49	7			54		58	3	
	5	11:57		8			55	8:02		4	
	6	12:05		8			56		07	5	
	7		13	8			57		12	5	
	8		21	8			58		16	4	
	9		28	7			59		20	4	
4410			36	8		4460			25	5	
	11		43	7			61		30	5	
	12		52	9			62		36	6	Circ
	13	12:59		7		63	10:34		37	3	
	14	1:09		10			64		44	7	
	15	1:17		8			65		51	7	
	16	1:26		9			66		58	7	
	17	1:34		8			67	11:05		7	
	18	1:46		12			68	11:15		10	
	19	1:54		8			69	11:26		11	
4420		2:05		11	Trip Circ 1/2 hr.	4480		11:32		6	
	21	5:48	5:52	4			71	11:40		8	
	22		56	4			72		48	8	
	23	6:01		5			73		56	8	
	24		05	4			74	12:02		6	
	25		09	4			75	12:08		6	
	26		13	4			76	12:13		5	
	27		16	3			77	12:17		4	
	28		19	3			78	12:22		5	
	29		23	4			79	12:29		7	
4430			27	4		4480		12:33		4	
	31		32	5			81	12:37		4	
	32		34	2			82	12:39		2	
	33		38	4			83	12:41		2	Conn.
	34		40	2			84	12:51	12:53	2	
	35		43	3			85		55	2	
	36		45	2			86	12:57		2	
	37		47	2			87	1:03		6	
	38		49	2			88		09	6	
	39		51	2			89		17	8	
4440			53	2		4490			22	5	
	41		55	2			91		29	7	
	42		57	2			92		34	5	
	43		59	2			93		40	6	
	44	2:01		2			94		47	7	
	45		04	3			95		53	6	
	46		07	3			96		59	6	
	47		10	3			97	2:07		8	
	48		13	3			98		13	6	
	49		16	3			99		20	7	
4450			20	4		4500		2:28		8	

DRILLING TIME LOG

COMPANY Ellen Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT 7 7/8 SIZE OF DRILL PIPE 4 1/2

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
DM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
00	4501	2:28	2:34	6		4550	4551	28	32	4	
	2		2:41	7			52		35	3	
	3		2:48	7			53		39	4	
	4		2:54	6			54		43	4	
	5		3:00	6			55		47	4	
	6		3:07	7			56		55	8	
	7		3:15	8			57	5:07	13	6	Rig.
	8		3:22	7			58		19	6	
	9		3:29	7			59		26	7	
4510			3:36	7		4560			35	9	
	11		3:43	7			61		44	9	} Mix Mud
	12		3:50	7			62		53	9	
	13		3:55	5			63		71-	7	
	14		3:58	3	Conn.		64		67	7	
	15	4:03	4:07	4			65		13	6	
	16		11	4			66		19	6	
	17		13	2			67		27	8	
	18		17	4			68		34	7	
	19		22	5			69		41	7	
4520			27	5		4570			47	6	
	21		32	5			71		52	5	
	22		39	7	vic 43		72		56	4	
	23		45	6	WT 9-8		73		10:01	5	
	24		52	7			74		08	7	
	25		5:00	8			75	15	28	5	Conn + Service
	26		6	6			76		25	5	
	27		11	5			77		30	5	
	28		15	4			78		35	5	
	29		18	3			79		41	6	
4530			21	3		4580			48	7	
	31		24	3			81		55	7	
	32		27	3			82		11:05	8	
	33		5:30	3			83		11	8	
	34		34	4			84		19	8	
	35		37	3			85		26	7	
	36		43	6			86		33	7	
	37		49	6			87		42	9	
	38		56	7			88		49	7	
	39		6:02	6			89		57	8	
4540			09	7		4590			12:04	7	
	41		17	8			91		10	6	
	42		25	8			92		18	8	
	43		6:33	8	Conn		93		26	8	
	44	6:41	6:47	6			94		33	7	
	45		55	8			95		39	6	
	46		7:02	2			96		46	7	
	47		11	8			97		54	8	
	48		18	7			98		15-	6	
	49		24	6			99		68	8	
4550			28	4		4600			17	9	trip

DRILLING TIME LOG

COMPANY Rupe FARM Case WELL NO. 1
 LOCATION _____ COUNTY Edwards STATE Kansas
 TYPE INDICATOR _____ SIZE OF BIT _____ SIZE OF DRILL PIPE _____

NOTE SHUT DOWN TIME, ROUND TRIPS, CHANGING BIT, CONDITION AND TYPE OF BIT AND REPAIRS

DEPTH		DRILLING TIME		ACTUAL	REMARKS	DEPTH		DRILLING TIME		ACTUAL	REMARKS
DM	TO	BEGAN	ENDED	TIME		FROM	TO	BEGAN	ENDED	TIME	
01	01	5:00	06	6		4650	51	10:57	11:02	5	
	2		12	6			52		11:07	5	
	3		16	4	Conn & Swivel		53		11:16	9	
	4	5:21	31	10			54		25	9	
465			38	7		4655			31	6	
	6		43	6			56		41	10	
	7		50	7			57		49	8	
	8		59	9			58		55	6	
	9		5:06	7			59	11:55	12:01	6	
4610			12	6		4660			8	7	
	11		22	10			61		13	5	
	12		26	8			62		17	4	
	13		34	8			63		20	3	
	14		42	8			64		12:30	10	
4615			49	7		4665			37	7	Conn
	16		56	7			66	12:48	52	4	
	17		7:04	8			67	12:52	1:01	9	
	18		17	13			68		09	8	
	19		25	8			69		14	5	
4620			32	7		4670			23	9	
	21		37	5			71		32	9	
	22		44	7			72		40	2	
	23		53	9			73		46	6	
	24		8:01	8			74		57	11	
4625			09	8		4675			2:04	7	
	26		18	9			76		11	7	
	27		24	6			77		20	9	
	28		30	6			78		33	13	
	29		38	8			79		43	10	
4630			46	8		4680			51	8	
	31		51	5			81		3:09	9	
	32		57	6			82		08	8	
	33		9:01	4			83		15	7	
	34		1:08	7	Conn		84		23	8	
4635	9:13		17	7		4685			32	9	
	36		22	5			86		40	8	
	37		28	6			87		46	6	
	38		33	5			88		52	6	
	39		38	5			89		59	7	
4640			49	9		4690			4:05	6	
	41		57	8			91		12	7	
	42		05	8			92		21	9	
	43		14	9			93		30	9	
	44		21	7			94		39	9	
4645			30	9		4695			50	11	Conn.
	46		37	7			96	4:56	5:03	7	
	47		44	7			97		11	8	
	48		48	4			98		21	10	
	49		53	5			99		5:30	9	
4650			57	4	Call Geol.	4700			37	7	

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS	DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED			FROM	TO	BEGAN	ENDED		
4760	01	5:37	5:50	13							
	2		59	9							
	3	5:59	6:07	8							
	4		13	6							
	5		18	5							
	6		21	3							
	7		25	4							
	8		29	4							
	9		32	3							
4710			38	6							
	11		42	4							
	12		45	3							
	13		48	3							
	14		52	4							
	15		55	3							
	16		59	4							
	17		7:02	3							
	18		06	4							
	19		09	3							
4720			12	3							
	21		16	4							
	22		20	4							
	23		24	4							
	24		29	5							
	25		34	7							
					Q190- 051'6 - 47' ANCHOR						