

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN 1A WELL NO. 1 LOCATION _____

COUNTY COWLEY STATE OKLA

CONTRACTOR THOROUGH BROS DATE 2-23-60

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1000	04	3:45	3:47	2	
	08		1:50	3	
	12		1:54	4	
	16		1:57	3	
	20		4:00	3	
	24	4:05	4:12	7	CONN
	28		1:17	5	
	32		1:22	5	
	36		1:26	4	
	40		1:30	4	
	44		1:34	4	
	48		1:38	4	
	52		1:43	5	
	56	4:48	1:53	5	CONN
	60		1:58	5	
	64		5:03	5	
	68		1:06	3	
	72		1:10	4	
	76		1:14	4	
	80		1:17	3	
	84		1:20	3	
	88	5:25	5:28	3	CONN
	92		1:31	3	
	96		1:35	4	
	1100		1:39	4	
	04		1:45	6	
	08		1:50	5	
	12		1:52	6	
	16		6:00	4	
	20	6:06	6:10	4	CONN
	24		1:14	4	
	28		1:18	4	
	32		1:25	7	
	36		1:34	9	
	40		1:48	14	
	44		1:55	7	
	48		7:05	16	CONN. SEA. RIG.
	52	7:22	7:30	8	
	56		1:40	10	
	60		1:52	12	
	64		1:57	5	
	68		8:04	7	
	72		1:14	10	
	76		1:21	5	
	80	8:27	8:31	4	
	84		1:34	3	
	88		1:34.0	6	
	92		1:50	10	
	96		9:05	15	
	1200		1:20	15	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN AL WELL NO. _____ LOCATION _____

COUNTY COMBEY STATE OKLA

CONTRACTOR Thomovich DATE 2-23-64

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1200	1204	9:20	9:35	15	
	08		:47	12	
	12	9:52	10:05	13	
	16		:06	6	
	20		:12	6	
	24		:16	4	
	28		:20	4	
	32		:24	4	
	36		:28	4	
	1240		:31	3	CONN. J-T
	44	10:41	:47	6	
	48		11:00	13	
	52		:06	6	
	56		:11	5	
	60		:18	7	
	64		:24	6	
	68		:36	12	
	72		:47	11	CONN
	76	11:55	12:03	8	
	80		:08	5	
	84		:12	4	
	88		:16	4	
	92		:20	4	
	96		:24	4	
	1300		:28	4	
	04	12:33	:37	4	
	08		:43	5	
	12		:49	6	
	16		:55	6	
	20		1:02	7	
	24		:05	3	
	28		:10	5	
	32		:17	7	CONN.
	36	1:23	:28	5	
	40		:33	5	
	44		:38	5	
	48		:42	4	
	52		:48	6	
	56		:53	5	
	60		:57	4	
	64		2:03	6	CONN
	68	2:08	:15	7	
	72		:21	6	
	76		:26	5	
	80		:32	6	
	84		:38	6	
	88		:44	6	
	92		:53	9	
	96		3:03	10	
	1400	3:12	:24	12	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. A1 LOCATION _____

COUNTY Nowley STATE OKLA

CONTRACTOR The Roughneck DATE 2-23-64

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1400	04	3:24	3:30	6	
	08		3:40	10	
	12		3:50	10	
	16		4:00	10	
	20		4:09	9	
	24	4:24	4:32	8	Conn CK Rig
	28		4:40	8	
	32		4:46	6	
	36		5:5	9	
1436	40		5:12	7	
	44		10	8	
	48		2:0	10	
	52		3:8	8	
	56		3:5	7	Conn
	60	5:41	4:7	6	
	64		5:5	8	
	68		6:02	7	
	72		6:13	11	Trip For Bit
	76	8:55	9:00	5	
1476	80		05	5	
	84		09	4	Conn
	88	9:18	2:1	3	
	92		2:6	4	
	96		9:30	4	
1496	1500		34	4	10' sample
	4		38	4	
	8		43	5	
	12		47	4	
	16		52	5	Conn
	1520	10:02	10:06	4	
	24		10	4	
	28		13	3	
	32		18	5	
	36		2:1	3	
	1540		2:5	4	
	44		3:3	8	
	48		4:2	9	Conn
	1552	10:49	10:55	6	Conn
	56		11:02	7	
	60		07	5	
	64		14	7	
	68		20	6	
	72		26	6	
	76		30	10	
	1580		46	10	
	84	11:55	12:05	10	Conn CK Rig
	88		12:15	10	
	92		12:27	12	
	96		12:35	8	
	1600		41	6	

3146

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. 1A LOCATION _____
 COUNTY Nowley STATE KAN
 CONTRACTOR Thoroughbred DATE 2-24-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
16 00	4	1241	48	7	
	8		55	7	
	12		102	7	
	16	1:24	30	6	COND light flow
	20		38	8	changed bit size over
	24		45	7	
	28		52	7	
	32		59	7	
	36		206	7	
16 40	40		13	7	
	44		20	7	
	48	2:27	34	7	Conn.
	52		44	10	
	56		50	6	
16 60	60		57	7	
	64		304	7	
	68		12	8	
	72		18	6	
	76	3:39	36	8	322' H COND 5-74
16 80	80		42	6	
	84		50	8	
	88		58	8	
	92		406	8	
	96		16	10	
17 00	00		25	9	
	4		34	9	
	8	4:41	50	9	Conn
	12		59	9	
	16		508	9	
17 20	20		15	7	
	24		21	6	
	28		27	6	
	32		33	6	
	36	5:45	48	6	5 56 3 Conn 1734
17 40	40		54	6	
	44		602	6	
	48		69	7	
	52		17	8	
	56		25	8	
17 60	60		34	9	
	64	6:17	43	9	
	68	6:49	6:54	10	Conn
	72		7:08	9	
	76		16	8	
17 80	80		125	9	
	84		7:32	8	
	88		7:42	9	
	92		7:50	8	
	96		1:58	8	
18 00	00		4:04		

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. 1A LOCATION _____
 COUNTY Cowley STATE KANSAS
 CONTRACTOR Thorowgood DATE 2-24-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
1800	1904	9:17	9:30	13	
	08		9:45	15	
	12		9:00	15	Trip
	16	10:40	10:45	5	
	20		10:56	5	
	24		11:04	4	
	28		11:08	4	
	32		11:01	3	
	36		11:04	3	CONN
	1840	11:00	11:16	6	
	44		11:20	4	
	48		11:25	5	
	52		11:30	5	
	56		11:38	8	
	60		11:52	14	
	64	12:00	12:08	8	
	68		12:15	7	
	72		12:24	9	
	76		12:31	7	
	1880		12:37	6	
	84		12:44	7	
	88		12:52	9	
	92		1:00	7	JET. CONN
	96	1:15	1:21	6	
	1900		1:28	7	
	04		1:35	7	JET VOLCUM.
	08	1:40	1:47	7	
	12		1:56	9	HOPPER OPEN
	16		2:05	9	
	1920		2:12	7	
	24		2:20	8	CONN
	28	2:30	2:39	9	
	32		2:50	11	Hopper closed
	36		3:09	9	
	40		3:19	10	
	44		3:30	11	
	48		3:40	10	CONN
	56	3:49	4:00	11	Hopper open
	60		4:15	15	
	64		4:30	15	
	68		4:46	16	
	72		5:07	21	
	76		5:27	10	
	80		5:49	15	Hopper closed
	84		5:55	13	CONN
	88	6:00	6:16	16	
	92		6:40	24	
	96		7:10	30	Trip
1996	3000	8:55	9:01	6	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. 1A LOCATION E Arkansas City Kan.
 COUNTY Cowley STATE Kansas
 CONTRACTOR NAP DATE 2-24-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2000	2004	9:01	9:09	8	
	8		17	8	
	12		26	9	Conn
	16	9:39	39	7	
2016	2020		46	7	Vis-34-wt 9.8
	24		56	10	
	28		10:03	7	
	32		10	7	
	36		17	7	
2036	2040		23	6	
	44		10:30	7	Conn for Rig
	48	10:43	48	5	
	52		55	7	
	56		11:04	9	Vis 35 wt 9.7
2056	2060		19	9	
	64		22	9	
	68		29	7	
	72		35	6	
	76		41	6	
2080	2084	11:48	54	7	Conn
	88		12:01	7	
	92		10	9	
	96		16	6	
	2100		22	6	
	4		28	6	
	8	12:54	37	9	
	12		1:00	6	DOWN Re-spool Pipe line
	16		06	6	
	20		20	14	
2120	2124		35	15	
	28		47	12	
	32		59	12	
	36	2:21	2:11	12	
	40		26	8	CONN 2134-215-3 min
	44		36	10	Vis 33 wt 9.7
	48		46	10	
	52		56	10	Hopper open
	56		30:8	12	
	60		23	15	
2160	2164		40	17	302. 9 min
	68	4:11	55	15	DOWN 2164
	72		4:11	12	Hopper closed
	76		26	10	
	80		36	10	
	84		48	12	
	88		5:00	12	
	92		12	12	
	96		26	14	
	2200	8:00	4:13	17	
			23	13	TRIP

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM PUNN WELL NO. 11 LOCATION _____

COUNTY COWLEY STATE KS

CONTRACTOR Thompson DATE 2-25-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2200	2204	8:18	8:28	10	CONN
	08		:40	12	
	12		:48	8	
	16		:58	10	
	20		9:07	9	
	24		:15	8	
	28		9:22	7	
	32		:28	6	
	36	9:35	:43	8	
	40		:54	11	
	44		10:04	10	
	48		:15	11	✓ is 34 wt 7.8
	52		:27	12	
	56		:38	11	
	60		:48	10	
	64		11:00	12	
	68	11:06	:15	9	
	72		:27	12	
	76		:36	9	
	2280		4:10	10	
	84		:57	9	
	88		12:09	12	
	92		:20	11	
	96		:30	10	
	2300	12:37	:47	10	
	04		12:55	8	
	08		1:07	12	
	12		1:20	13	
	16		1:33	13	
	20		1:45	12	
	24		2:00	15	CONN
	28	2:07	2:20	13	HOPPER OPEN
	32	2:24 2:42	2:46	12	CLEAN SCREEN
	36		3:00	14	
	40		:15	15	
	44		:26	11	
	48		:36	10	
	52		:45	9	CONN CK NG
	56	3:59	4:04	5	
23	60		4:15	11	
	64		4:27	12	
	68		4:38	11	
	72		4:50	12	
	76		5:04	14	
	80		:18	14	
	84		2:8	10	CONN CK NG
	88	5:35	5:43	8	
	92		:54	11	
	96		6:06	12	
	2400		:16	10	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM Dunn WELL NO. 1A LOCATION Silverdale
 COUNTY Cowley STATE Kansas
 CONTRACTOR NAP DATE 2-25-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2400	2402	6:16	6:21	5	
	4		6:28	7	
	6		6:32	4	
	8		6:38	5	
2408	2410		40	2	
	12		44	4	
	14		47	3	
	16		50	3	conn
	18	6:52	6:59	3	
2418	2420		7:01	2	
	22		7:04	3	
	24		07	3	
	26		10	3	
	28		13	3	VIS-35-WT 9.7
2428	2430		16	3	
	32		20	4	
	34		23	3	
	36		28	5	
	38		35	7	
2438	2440		41	6	
	42		48	7	
	44		7:55	7	
	46		8:04	9	Trip New drilling line
	48	1:59	1:58	6	8 lbs test
2448	2450		206	8	
	52		15	9	
	54		22	7	VIS 35-WT 9.7
	56		29	7	
	58		36	7	
2458	2460		42	6	
	62		48	6	
	64		55	7	
	66		302	7	
	68		2	6	
	70		14	6	
	72		21	7	
	74		27	6	
	76		34	7	
	78		41	7	
2478	2480	3:47	53	6	conn.
	82		59	6	
	84		1:05	6	
	86		1	9	
	88			8	
	90		27	5	
	92		35	7	
	94		46	6	
	96		45	5	
	98		50	5	
	2500		55	5	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM Dunn WELL NO. 1A LOCATION _____

COUNTY Rowley STATE Kansas

CONTRACTOR _____ DATE 2-26-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
25	00	4:55	5:00	5	
	4		06	6	
	6		13	7	
	8		20	7	
25	10	5:27	5:32	5	CONN.
	12		37	5	
	14		44	5	
	16	49	49	5	W/S 35 WT 9.5
	18		55	6	
25	20		6:02	7	
	22		10	8	
	24		21	11	
	26		31	10	
	28		37	6	
25	30		43	6	
	32		49	6	
	34		55	6	
	36		7:00	5	
	38		7:07	7	
25	40		7:12	5	CONN. SPR. HIG.
	42	7:21	7:25	4	
	44		30	5	
	46		36	6	
	48		41	5	W/S 36 WT 9.9
25	50		46	5	
	52		52	6	
	54		8:02	10	
	56		07	5	
	58		13	6	
25	60		18	5	
	62		23	5	
	64		28	5	
	66		33	5	
	68		38	5	
	70		43	5	CONN.
	72	8:46	8:53	5	
	74		58	5	
	76		9:04	6	
	78		10	6	
25	80		11	6	
	82		12:1	5	
	84		25	4	
	86		30	5	
	88		35	5	
	90		41	6	
	92		46	5	
	94		52	6	
	96		58	6	
	98		10:03	5	
26	00		109	6	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. A1 LOCATION _____
 COUNTY COWLEY STATE KANS
 CONTRACTOR The Roughbed DATE 2-25-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2600	02	10:16	10:20	4	
	04		:23	3	
	06		:26	3	
	08		:31	5	
	10		:35	4	
	12		:40	5	
	14		:44	4	
	16		:47	3	
	18		:52	5	
26	20		:57	5	
	22		11:02	5	
	24		:07	5	
	26		:12	5	
	28		:16	4	
	30		:19	3	
	32		:28	9	CONN
	34	11:33	:39	6	
	36		:49	10	
	38		:57	8	
26	40		12:04	7	
	42		:11	7	
	44		:17	6	
	46		:23	6	
	48		:29	6	
	50		:34	5	
	52		:40	6	
	54		:44	4	
	56		:48	4	
	58		:53	5	
26	60		:58	5	
	62		1:02	4	
	64		1:08	6	CONN
	66	1:15	1:20	5	
	68		:24	4	
	70		:29	5	
	72		:34	5	
	74		:39	5	
	76		:44	5	
	78		:49	5	
	80		:54	5	
	82		2:00	6	
	84		:05	5	
	86		:11	6	
	88		:17	6	
	90		:22	5	
	92		:27	5	
	94		:34	7	
	96		:40	6	CONN
	98	2:46	2:52	6	
2700			3:01	9	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM Dunn WELL NO. 14 LOCATION Silverdale
 COUNTY Cowley STATE Kansas
 CONTRACTOR N.A.P. DATE 2-26-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2700	2702	301	305	4	
	4		19	7	
	6		20	8	
	8		30	10	
	10		37	7	
	12		44	7	
	14		51	7	
	16		58	7	
	18		406	8	
2718	2720		13	7	
	22		4:22	9	Trip For Bit & CK rig
	24	6:35	6:42	7	
	26		6:49	7	Conn
	28	6:55	7:03	8	
	30		7:15	12	
	32		7:25	10	
	34		37	12	
	36		47	10	
	38		57	10	
2738	2740		8:08	17	losing mud
	42	8:20	27	7	Hopper open
	44		37	10	
	46		48	11	10 sh. H/L
	48		58	10	8 H/Ls
	50		9:06	8	2 H/Ls
	52		18	12	5 H/Ls
	54		35	17	Conn Hopper closed
	56	9:45	9:53	8	
	58		10:04	11	VIS-37-WT-98+
2758	2760		10:15	11	
	62		10:26	11	
	64		39	13	
	66		59	14	VIS-37-WT 9.8
	68		11:08	15	
	70		19	11	
	72		30	11	
	74		41	11	
	76		52	11	
	78		1205	19	
2778	2780		18	13	
	82		29	11	
	84		39	10	
	86		49	10	
	88	12:58	1:09	11	Conn Ch. Rig
	90		20	11	
	92		30	10	
	94		41	11	
	96		58	17	
	98		212	14	
2798	2800		22	10	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DENN WELL NO. LA LOCATION 31/2 mi N of
 COUNTY Cowley STATE Kansas
 CONTRACTOR NAP DATE 2-27-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2800	2	2:22	32	10	VIS 37 WT 98
	4		40	8	
	6		49	9	
	8		305	16	Order in 2805 sample C.P.C.
28	10	406	421	15	VIS 35-WT 98
	12		37	16	
	14		49	12	
	16		5:04	15	
	18		16	12	
28	20	5:21	5:39	12	CONN Hopper open
	22		46	14	
	24		59	13	
	26		6:12	13	close Hopper
	28		32	10	
28	30		32	10	
	32		42	10	
	34		53	11	
	36		7:06	13	
	38		18	12	
28	40		:29	11	VIS 37 WT 10
	42		7:45	16	HOPPER OPEN
	44		7:58	13	
	46		8:13	15	
	48		8:22	9	HOPPER CLOSED
28	50		8:29	17	CONN. SER. RIG.
	52	8:50	9:02	12	
	54		9:17	15	
	56		9:30	13	
	58		:47	17	
28	60		10:10	23	
	62		:28	18	TIGHTEN mud line
	64	10:45	:53	8	
	66		11:03	10	
	68		:13	10	
	70		:34	21	HOPPER OPEN
	72		12:00	26	
(3-3-65)	74	X 5:43	50	7	
	76		58	8	
	78		606	8	
28	80		14	8	
	82	6:25	32	7	CONN
	84		38	6	
	86		45	6	
	88		49	5	
	90		55	6	
	92		7:01	6	
	94		7:06	5	
	96		7:12	6	
	98		7:19	6	
29	00		7:23	5	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. 1A LOCATION _____

COUNTY CONROY STATE OKLA

CONTRACTOR The Rough Method DATE 2-3-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
2900	02	7:23	7:29	6	
	04		:37	8	
	06		:45	8	
	08		:53	8	
	10		:58	5	
	12		8:04	6	CONN
	14	8:09	8:14	5	vis 53 WT 9.5
	16		:19	5	
	18		:25	6	
	20		:30	6	
	22		:35	5	
	24		:41	6	
	26		:46	5	
	28		:53	7	
	30		:58	5	
	32		9:03	5	
	34		:09	6	
	36		:14	5	
	38		:19	5	
	40		:25	6	
	42		:29	4	
	44		:34	5	CONN. WORK ON AIR LINES
	46	9:45	:51	6	
	48		:56	5	
	50		10:02	6	
	52		:07	5	
	54		:15	8	
	56		:22	7	
	58		:30	8	
	60		:39	9	
	62		:47	8	
	64		:55	8	
	66		11:00	5	
	68		:05	5	
	70		:10	5	
	72		:15	5	
	74		:20	5	CONN
	76	11:24	11:30	6	
	78		:37	7	
	80		:45	8	
	82		:53	8	
	84		12:01	8	
	86		12:09	8	
	88		:15	6	
	90		:20	5	
	92		:25	5	
	94		:31	6	
	96		:35	4	
	98		:39	4	
3000			:45	6	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM DUNN WELL NO. 1A LOCATION _____
 COUNTY COWLEY STATE KANS
 CONTRACTOR Thompson & Red DATE 3-3-65

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3000	3002	12:45	1:53	8	
	04		1:03	10	
	06		1:11	8	CONN
	08	1:21	1:30	9	
	10		1:36	6	
	12		1:42	6	
	14		1:49	7	vis 40 wt. 9.4
	16		1:58	9	
	18		2:05	7	
3020	20		2:10	5	
	22		2:15	5	
	24		2:20	5	
	26		2:26	6	
	28		2:32	6	
	30		2:38	6	
	32		2:45	7	
	34		2:55	10	Conn ck reg
	36	3:05	3:11	6	
	38		3:17	6	
3040	40		3:25	8	
	42		3:35	10	
	44		3:45	10	vis 38 - wt 9.4
	46		3:53	8	
	48		4:00	7	
	50		4:07	7	
	52		4:17	10	
	54		4:27	10	
	56		4:34	7	
	58		4:41	7	
3060	60		4:50	9	
	62		4:56	6	
	64		5:02	6	
	66		5:08	6	conn
	68	5:11	5:15	4	
	70		5:21	6	
	72		5:26	5	
	74		5:31	6	
	76		5:38	6	
	78		5:43	5	
3080	80		5:48	5	
	82		5:54	6	
	84		6:01	7	
	86		6:07	6	
	88		6:13	6	
	90		6:20	7	
	92		6:27	7	
	94		6:34	7	
	96		6:39	5	
	98		6:45	6	conn
3100	100	6:52	6:58	6	

NATIONAL ASSOCIATED PETROLEUM CO.

RITZ BLDG. TULSA OKLA.

TIME LOG

FARM Dunn WELL NO. 1A LOCATION Silverdale
 COUNTY Cowley STATE Kansas
 CONTRACTOR Thoroughbred Drilling Co. DATE _____

DEPTH		DRILLING TIME		ACTUAL TIME	REMARKS
FROM	TO	BEGAN	ENDED		
3100	3102	6:58	7:04	6	
	4		7:10	6	Hopper open
	6		7:16	6	
	8		7:24	8	rough
	10		7:31	7	
	12		7:37	6	Hopper closed
	14		7:44	7	
	16		7:51	7	
	18		8:01	10	
3118	3120		8:09	8	
	22		8:19	10	
	24		8:30	11	
	26		8:39	9	
	28		8:51	12	Conn circular sample 15 min
	30	✓ 12:25	30	5	Reamed 4 ft. Trip for bit
	32		33	3	
	34		37	4	
	36		42	5	9 nodarin 3155 sample
	38		55	13	VIS 39 WT 9-5
3138	3140		1:17	22	
	42		34	17	
	44		48	14	
	46		2:01	13	
	48		15	14	
	50		29	14	
	52		43	14	
	54		57	14	
	56		3:11	14	VIS 38 wt 9-5
	58		37	16	Conn for sample 3158
3158	3160				mining out 506
	62				VIS 38 wt 9-5 430
	64				
	66				
	68				
	70				
	72				
	74				
	76				
	78				
3178	3180				
	82				
	84				
	86				
	88				
	90				
	92				
	94				
	96				
	98				
3198	3200				