



00254543

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COLO. OIL & GAS CONS. COMM.

CHANDLER AND ASSOCIATES

#4-13 Zschach

NW NW Sec. 13, T. 8 N., R. 90 W.

Moffat County, Colorado

DVR	
FJP	✓
HHM	✓
JAM	✓
JJD	✓
RLS	
CGM	

John H. Rathbone

John H. Rathbone
Consulting Geologist
1018 Republic Building
Denver, Colorado 80202

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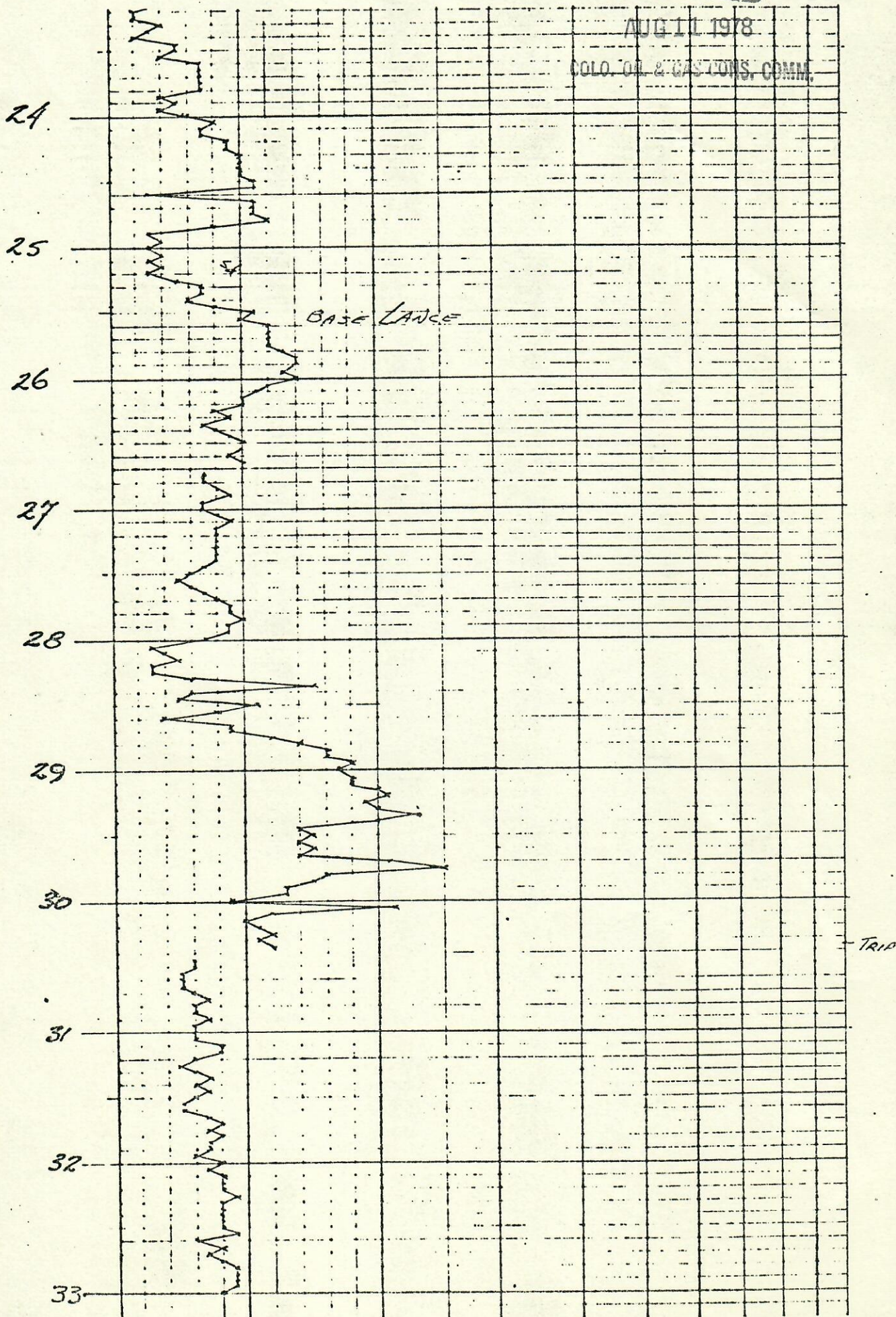
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DRILLING TIME Log
Minutes per 5 Minutes feet

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BITS

				<u>Out</u>	<u>Feet</u>	<u>Hours</u>
1A	12-1/2	Smith		340	300	9-3/4
1	7-7/8	HTC	OSC 3AJ	1395	1055	16-1/4
2	7-7/8	HTC	OSC 1G	1847	452	8-1/4
3	7-7/8	HTC	OSC 3J	2598	751	17-1/2
4	7-7/8	HTC	OSC 1G	3036	458	18-1/4
5	7-7/8	HTC	OSC 3A	3301	264	6-1/2

DEVIATIONS

653	1/2°
1395	1/2°
1847	1/2°
2598	1°
3036	1-1/2°

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MUD

			<u>WT</u>	<u>Vis</u>	<u>WL</u>
4	10:30 AM	1293	9.0	30	50
5	10:30 AM	2220	9.0	30	15.6
6	10:00 AM	2910	9.3	35	5.6
7	5:00 AM	3300	9.7	45	6.0

Mud by BAROID

Engineer: Dave Decker

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DRILLING TIME

600 - 650										
650 - 700	x	x	3	4	3	4	4	3	5	5
700 - 750	3	3	3	3	3	3	4	4	4	3
750 - 800	3	3	3	3	3	4	3	3	3	3
800 - 850	2	3	2	3	2	3	1	2	1	2
850 - 900	3	3	3	4	2	2	2	2	3	2
900 - 950	2	2	1	1	1	2	1	1½	1½	1½
950 - 1000	1½	1½	1½	1½	1	3	3	4	6	5
1000 - 1050	2	5	4	5	3	2	2	2	3	1½
1050 - 1100	1½	1½	2	2	2	2	2	1½	4	3
1100 - 1150	3	2	4	5	5	5	4	2	2	3
1150 - 1200	4	5	11	2	2	2	x	x	x	x
1200 - 1250	3	4	5	3	x	4	4	6	4	4
1250 - 1300	5	4	5	4	5	3	5	4	5	5
1300 - 1350	7	8	4	3	1	6	2	4	6	9
1350 - 1400	9	10	10	7	8	10	10	13	11	x
1400 - 1450	5	6	8	2	3	3	3	x	4	4
1450 - 1500	5	3	3	2	2	2	2	3	5	3
1500 - 1550	4	5	4	4	2	4	3	4	8	2
1550 - 1600	2	2	2	1	3	3	4	2	2	1
1600 - 1650	3	3	4	5	4	3	4	6	5	5
1650 - 1700	5	5	5	6	6	6	6	5	x	x
1700 - 1750	x	6	6	3	5	7	5	3	7	7
1750 - 1800	8	6	3	3	5	5	8	10	8	7
1800 - 1850	8	8	6	3	5	7	7	8	8	10
1850 - 1900	x	4	6	4	3	x	3	6	4	4
1900 - 1950	4	6	5	4	5	5	4	5	6	7
1950 - 2000	5	5	8	5	5	4	6	5	6	4
2000 - 2050	4	3	6	7	5	5	7	5	6	6
2050 - 2100	6	6	3	2	2	3	6	5	7	5
2100 - 2150	5	8	8	7	8	6	x	6	3	5
2150 - 2200	7	6	6	5	5	6	4	5	4	3
2200 - 2250	4	5	5	6	4	3	2	2	2	2
2250 - 2300	2	2	2	4	4	3	3	2	2	3
2300 - 2350	5	3	4	2	2	4	3	2	5	5
2350 - 2400	4	7	7	7	7	7	4	5	4	6
2400 - 2450	8	7	7	9	9	10	10	10	10	11
2450 - 2500	11	3	11	11	11	12	8	3	4	3
2500 - 2550	4	3	4	3	5	7	7	6	8	11
2550 - 2600	10	12	12	12	12	13	14	14	13	14
2600 - 2650	12	11	10	10	8	9	7	8	9	10
2650 - 2700	10	9	10	x	7	7	8	8	9	7
2700 - 2750	8	9	8	8	8	8	8	8	7	6
2750 - 2800	5	6	7	8	9	9	10	9	9	7
2800 - 2850	3	4	5	3	3	6	15	6	5	11
2850 - 2900	8	4	9	9	12	14	16	16	18	17
2900 - 2950	18	18	20	21	19	20	23	20	14	15
2950 - 3000	14	15	14	21	25	16	15	13	13	9
3000 - 3050	21	12	10	11	12	11	12	x	6	6
3050 - 3100	15	15	5	6	7	6	6	7	6	6
3100 - 3150	6	8	8	6	5	6	7	6	7	6
3150 - 3200	5	5	7	8	7	8	7	7	6	8
3200 - 3250	7	8	8	8	9	8	8	8	8	8
3250 - 3300	9	6	8	7	8	9	9	9	9	8