

**BAROID ppm LOG
SHOW EVALUATION REPORT**

COMPANY AMOCO PRODUCTION CO.
WELL OCS-Y-302 NO.1 -MARS-
LOCATION BLK.138, TRK.140
FORMATION _____
DEPTH 7355-7360
PROBABLE PRODUCTION NONE

MUD ANALYSIS

	BACKGROUND	NET INCREASE	
		PLOT 1	PLOT 2
		DEPTH <u>7355</u>	DEPTH <u>7360</u>
METHANE - ppm C ₁	1500	187000	97500
ETHANE - ppm C ₂	100	8500	3600
PROPANE - ppm C ₃		3300	1600
BUTANE - ppm C ₄		900	400
PENTANE+ - ppm C ₅₊		300	50
METHANE % - UNITS X	9	1870	975
TOTAL % - UNITS X	15	3320	2100
CHLORIDES	1400	1400	1400

DRILLING RATE: FT/HR X MIN/FT _____
FROM 15 TO 38

LITHOLOGY SD-clr, wh, lt brn, vf-m gr, w srted,
sbrnd-rnd, qtz, cht, cly, uncon, n flor, tr brn stn, blu-wh
strmg ct, gd dull yel resid ring

REMARKS Gas dropped right back to 40 units.

Received
OCS District Office

NEW ORDERS _____
APR 21 1986

Minerals Management Service
Anchorage, Alaska

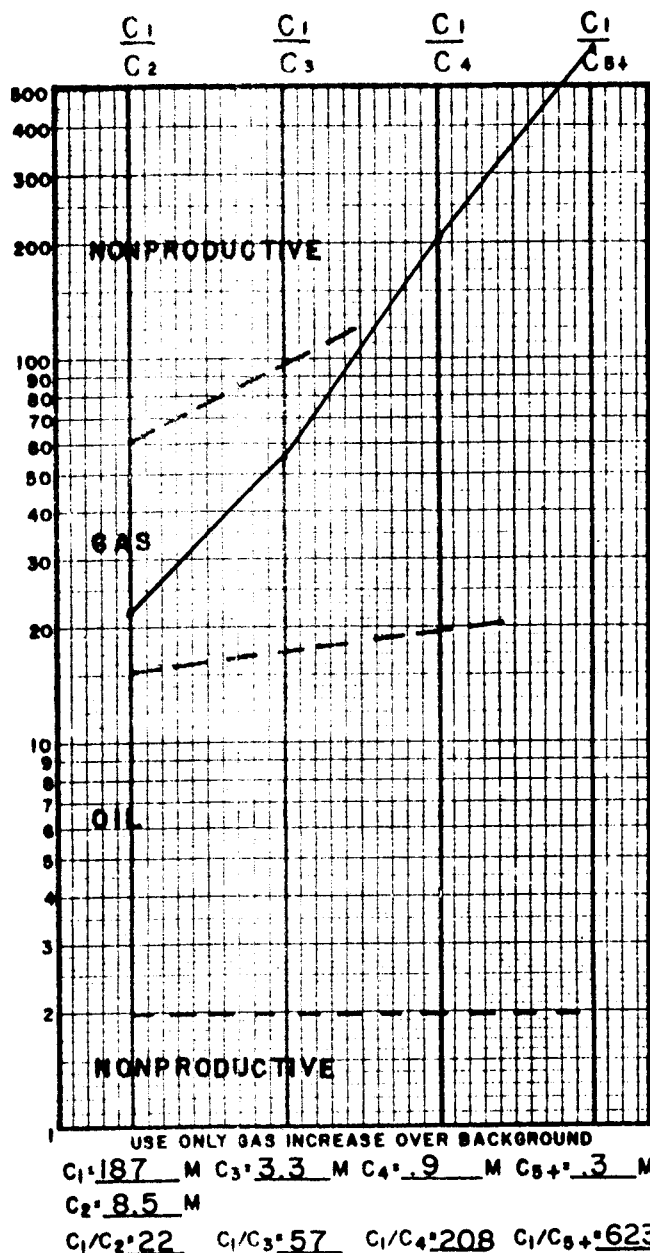
CALLED IN BY _____

TALKED TO _____

DATE 4/5/86 TIME 08:00 AM X PM _____

BR-30615

HYDROCARBON RATIOS



1. PLOT RATIOS ON LINES INDICATED.
2. EVALUATE SECTION FOR PROBABLE PRODUCTION AS INDICATED BY THE PLOTTED CURVE WITHIN THE FOLLOWING LIMITS:
 - a. PRODUCTIVE DRY GAS ZONES MAY SHOW ONLY C₁ BUT ABNORMALLY HIGH C₁ ONLY SHOWS ARE USUALLY INDICATIVE OF SALT WATER.
 - b. IF THE C₁/C₂ RATIO FALLS LOW IN THE OIL SECTION AND THE C₁/C₄ RATIO FALLS HIGH IN THE GAS SECTION THE ZONE IS PROBABLY NONPRODUCTIVE.
 - c. IF ANY RATIO (C₁/C₂ EXCEPTED IF OIL MUD IS USED) IS LOWER THAN A PRECEDING RATIO THE ZONE IS PROBABLY NONPRODUCTIVE. FOR EXAMPLE, IF C₁/C₂ IS LESS THAN C₁/C₃ THE ZONE IS PROBABLY WET.
 - d. THE RATIOS MAY NOT BE DEFINITIVE FOR TIGHT, LOW PERMEABILITY ZONES.

SHOW EVALUATION REPORT

HYDROCARBON RATIOS

COMPANY Amoco Production Co.
 WELL OCS-Y-302 No. 1
 LOCATION BLK 138, Tsk 140
 FORMATION _____
 DEPTH 7355 - 7360
 PROBABLE PRODUCTION _____

MUD ANALYSIS

	BACKGROUND	NET INCREASE	
		PLOT 1	PLOT 2
		DEPTH 7355	DEPTH 7360
METHANE - ppm C ₁	1500	187000	97500
ETHANE - ppm C ₂	100	8400	3600
PROPANE - ppm C ₃		1600	1600
BUTANE - ppm C ₄		600	400
PENTANE - ppm C ₅		300	50
METHANE % - UNITS	9	1870	975
TOTAL % - UNITS	15	3320	2100
CHLORIDES	1400	1400	1400

DRILLING RATE: FT/HX MIN/FT —
 FROM 15 TO 28

LITHOLOGY SD - clc, wh, lt brn, vs - m gr,
WSPR, sbnd - rnd, qtz, ch + cly, uncens,
n flac, tr brn str, blu-wh strong ct, gd dull
yel resid ring

REMARKS _____

Gas dropped right off, back down to 10' 10"

NEW ORDERS _____ RECEIVED _____
 OCS DISTRICT OFFICE

APR 09 1986

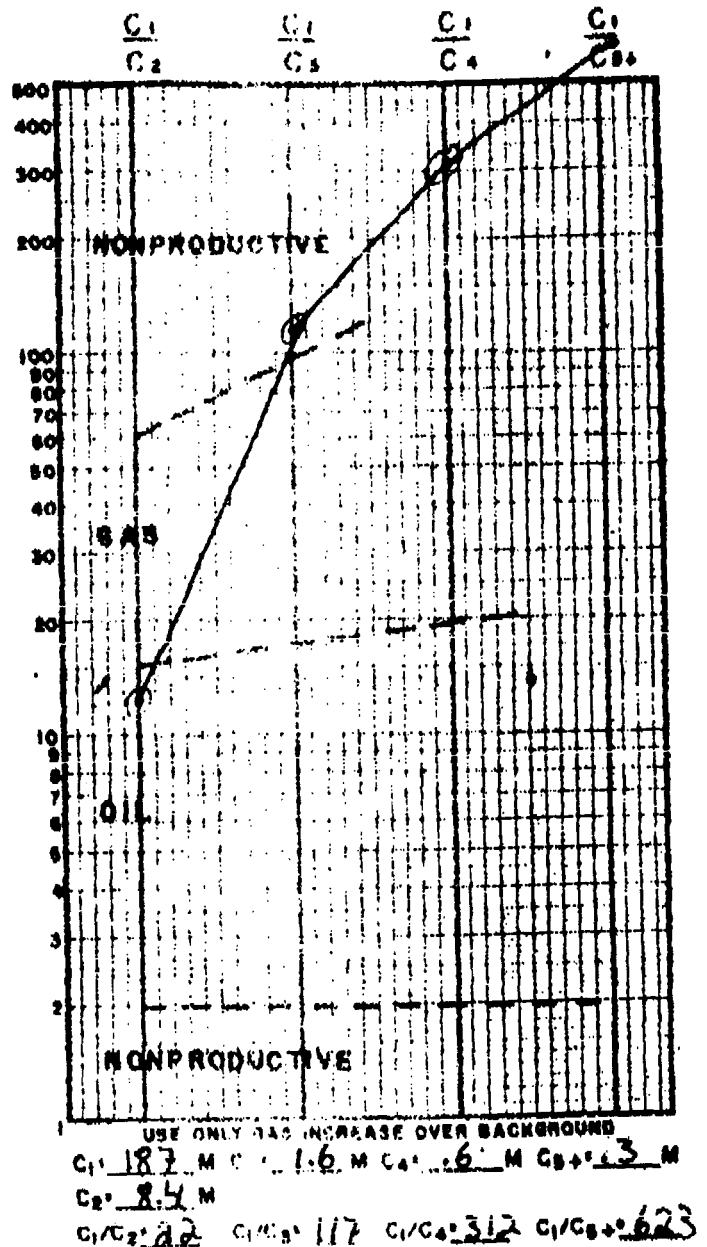
MINERALS MANAGEMENT SERVICE
 ANCHORAGE, ALASKA

CALLED IN BY _____

TALKED TO _____

DATE 4/6/86 TIME 08:00 AM ☒ PM _____

BR-30615



1. PLOT RATIOS OF LINES INDICATED.
2. EVALUATE SECTION FOR PROBABLE PRODUCTION AS INDICATED BY THE PLOTTED CURVE WITHIN THE FOLLOWING LIMITS:
 - a. PRODUCTIVE DRY GAS ZONES MAY SHOW ONLY C₁ BUT ABNORMALLY HIGH C₂ ONLY SHOWS ARE USUALLY INDICATIVE OF SALT WATER
 - b. IF THE C₁/C₂ RATIO FALLS LOW IN THE OIL SECTION AND THE C₁/C₂ RATIO FALLS HIGH IN THE GAS SECTION THE ZONE IS PROBABLY NONPRODUCTIVE.
 - c. IF ANY RATIO (C₁/C₂ EXCEPTED IF OIL MUD IS USED) IS LOWER THAN A PRECEDING RATIO THE ZONE IS PROBABLY NONPRODUCTIVE. FOR EXAMPLE, IF C₁/C₂ IS LESS THAN C₁/C₃ THE ZONE IS PROBABLY WT
 - d. THE RATIOS MAY NOT BE DEFINITIVE FOR TIGHT, LOW PERMEABILITY ZONES.

SHOW EVALUATION REPORT

CORRECTED

COMPANY ITMOCO PRODUCTION CO.
 WELL OCS-Y-302 NO. 1
 LOCATION BLK 138, TRK 146
 FORMATION _____
 DEPTH 7355-7360
 PROBABLE PRODUCTION NONE

MUD ANALYSIS

	BACKGROUND	NET INCREASE	
		PLOT 1	PLOT 2
		DEPTH 7355	DEPTH 7360
METHANE - ppm C ₁	1500	18700	97500
ETHANE - ppm C ₂	100	8500	3600
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BUTANE - ppm C ₄		900	400
PENTANE - ppm C ₅		300	50
METHANE % - UNITS	9	1870	975
TOTAL % - UNITS	15	3320	2100
CHLORIDES	1400	1400	1400

DRILLING RATE: FT/HRX MIN/FT
 FROM 15 TO 38

LITHOLOGY sd - cl, wh, lt brn, w/m g, loess
shnd - red, gr, ch, clay, uncon, n flbr, r
brn sd, blu wh strma, cr, gd dill, yel resid, clng

REMARKS Gas dropped back to 40' above

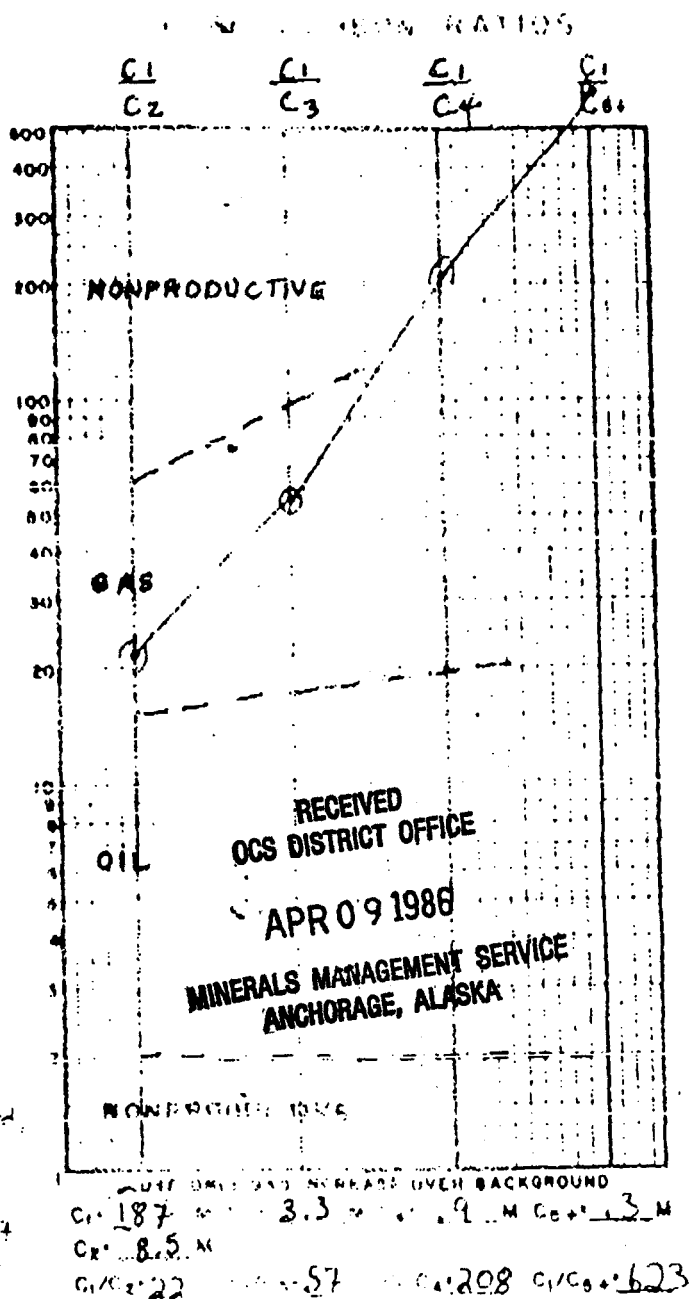
NEW ORDERS _____

CALLED IN BY _____

TALKED TO _____

DATE 4/5/86 TIME 08:00 AMX PM _____

RR-30615



1. PLOT RATIO CURVES INDICATED
2. EVALUATE THE PROBABLE PRODUCTION AS INDICATED BY THE PLOTTED CURVE WITHIN THE FOLLOWING LIMITS:
 - a. PRODUCTION OF GAS ZONES MAY SHOW ONLY ONE OF ANORMALLY HIGH C₁ ONLY SHOWS ARE USUALLY INDICATIVE OF SALT WATER
 - b. IF THE C₁/C₂ RATIO FALLS LOW IN THE OIL SECTION AND THE C₁/C₃ RATIO FALLS HIGH IN THE GAS SECTION THE ZONE IS PROBABLY NONPRODUCTIVE
 - c. IF ANY RATIO (C₁/C₂ EXCEPTED IF OIL MUD IS USED) IS LOWER THAN A PRECEDING RATIO THE ZONE IS PROBABLY NONPRODUCTIVE. FOR EXAMPLE, IF C₁/C₂ IS LESS THAN C₁/C₃, THE ZONE IS PROBABLY WET
 - d. THE RATIOS MAY NOT BE DEFINITIVE FOR TIGHT, LOW PERMEABILITY ZONES.

NOTE ^{to} CORRECTION

BAROID CONVERSION

$$1\% = 100 \text{ UNITS} = 10,000 \text{ PPM}$$

<u>Depth</u>	<u>TOTAL</u> <u>UNITS</u>	<u>C1</u> <u>PPM</u>	<u>C2</u> <u>PPM</u>	<u>C3</u> <u>PPM</u>	<u>C4</u> <u>PPM</u>
73					
8455	3320	187,000	8,500	3300	900
73 8460	2100	97,500 47,500	3,600	1600	400
73 8465	310	24,100	1,100	600	TR
73 8470	270	21,500	1,000	500	TR
73 8475	210	15,000	700	400	TR
73 8480	140	6,900	300	200	TR
73 8485	90	4,900	200	100	TR
73 8490	21	1,500	100		
73 8495	20	1,500	100		

7510	170	11,000	500	250	—
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MAX GAS PAST 29 hrs

@ 1201 4-5 thru 0500 4/6

RECEIVED
DGS DISTRICT OFFICE

APR 09 1986
MINERALS MANAGEMENT SERVICE
ANCHORAGE, ALASKA