

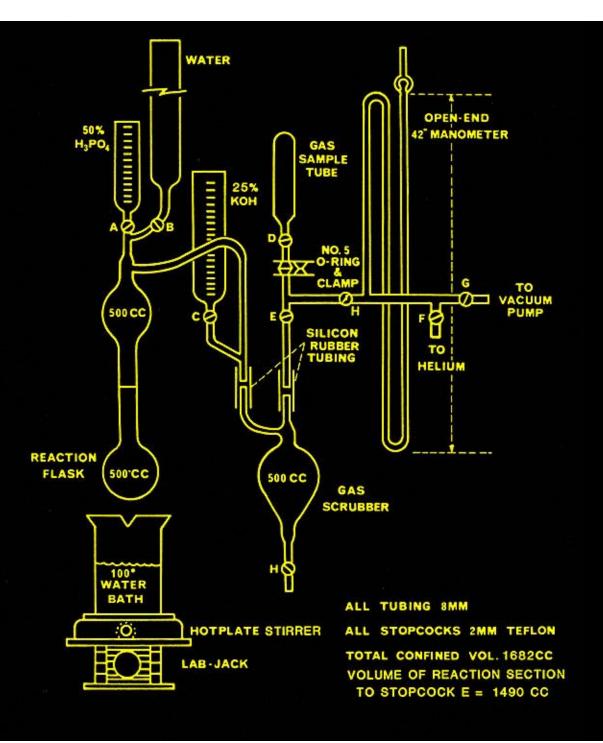
- 1. SLIGHT CRUSHING AND VACUUM REMOVES FREE GAS FROM THE PORES;
- 2. ACID + HEAT + VACUUM EXTRACTS THE RETAINED GAS FROM THE SEDIMENT COMPONENTS (DESORPTION);
- 3. GAS IS ANALYZED WITH A FLAME-IONIZATION CHROMATOGRAPH

Free Gases (In-Situ)

Interstitial (Headspace)

Disaggregation (Blender) (Ball Mill)

Acid-Extraction (Horvitz)

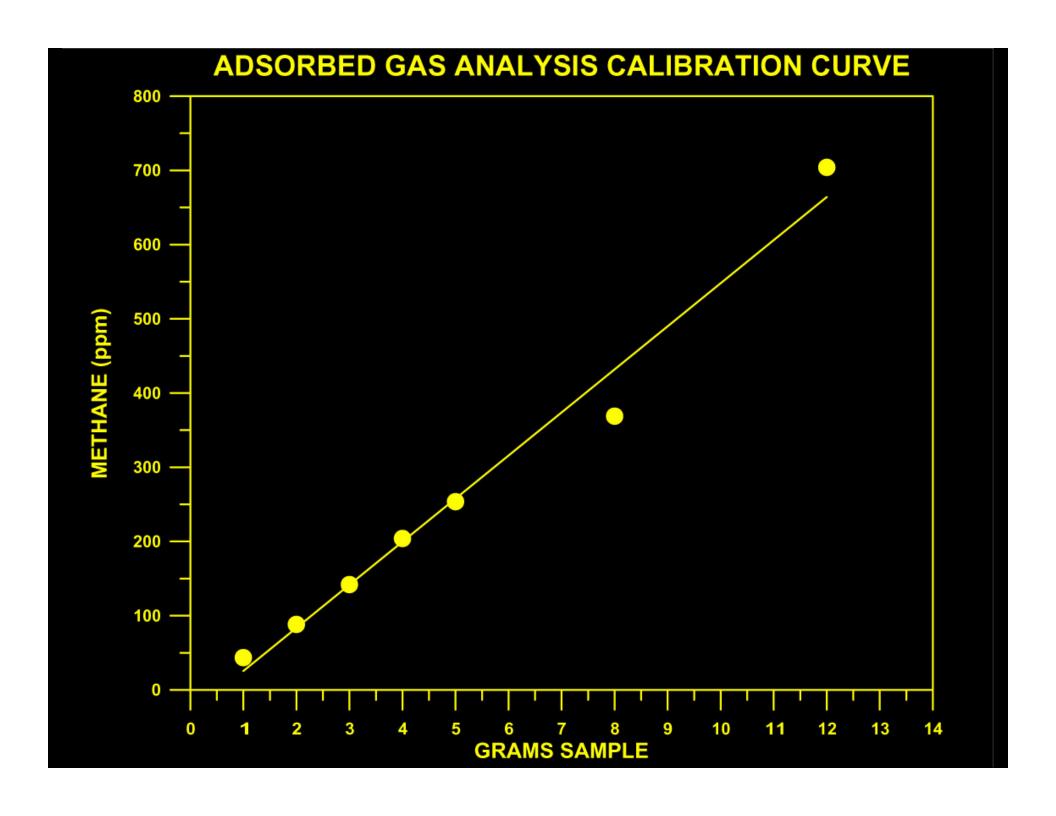


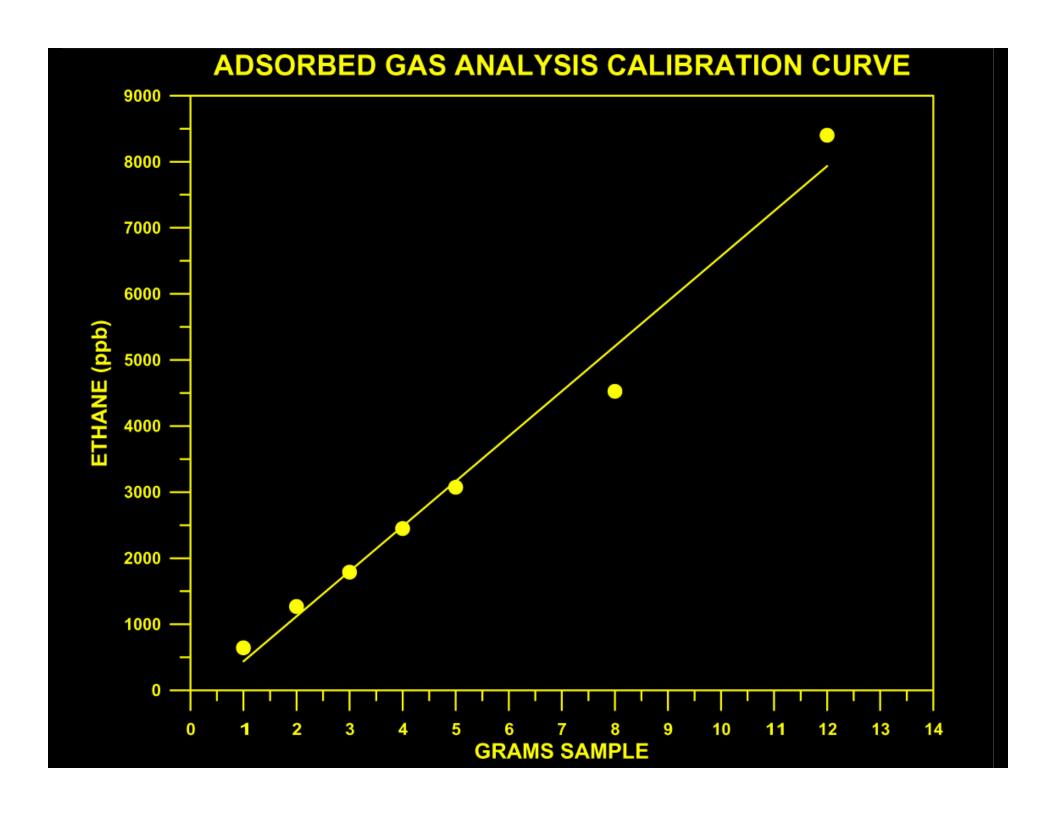
ADSORBED GAS ANALYSIS

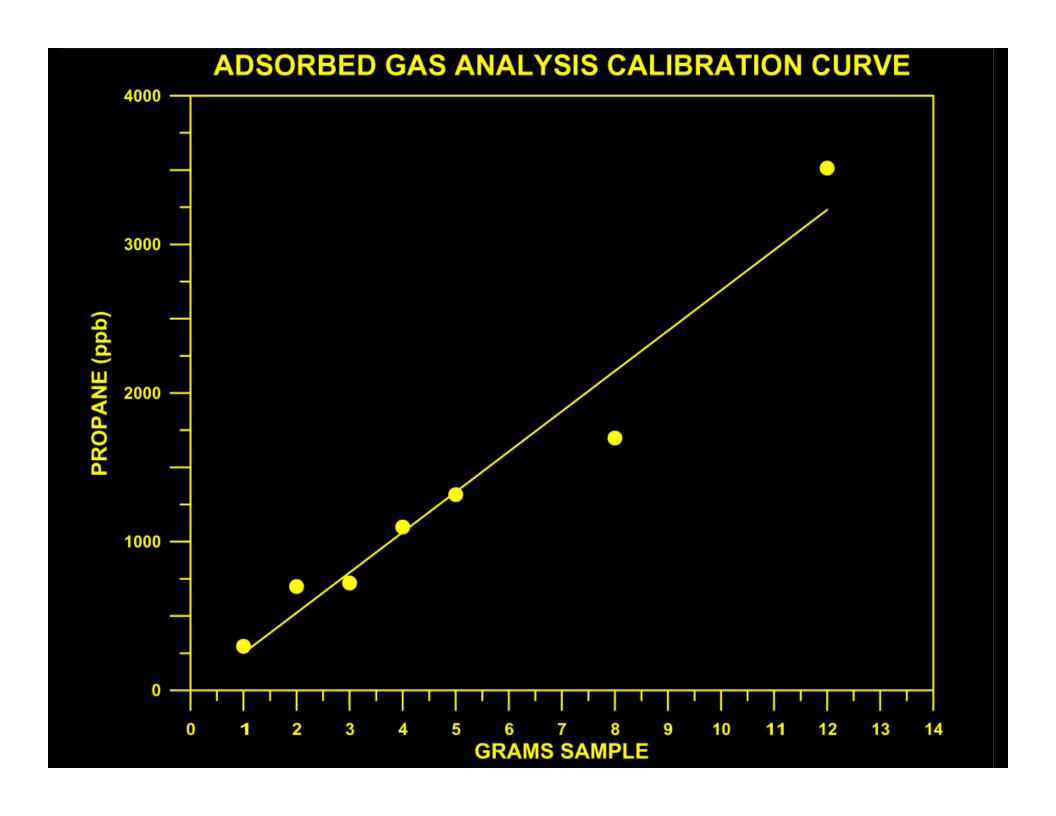
FUNCTIONAL RELATIONSHIP BETWEEN AMOUNT OF SAMPLE TAKEN FOR ANALYSIS AND MEASURED MAGNITUDE OF ADSORBED GASES

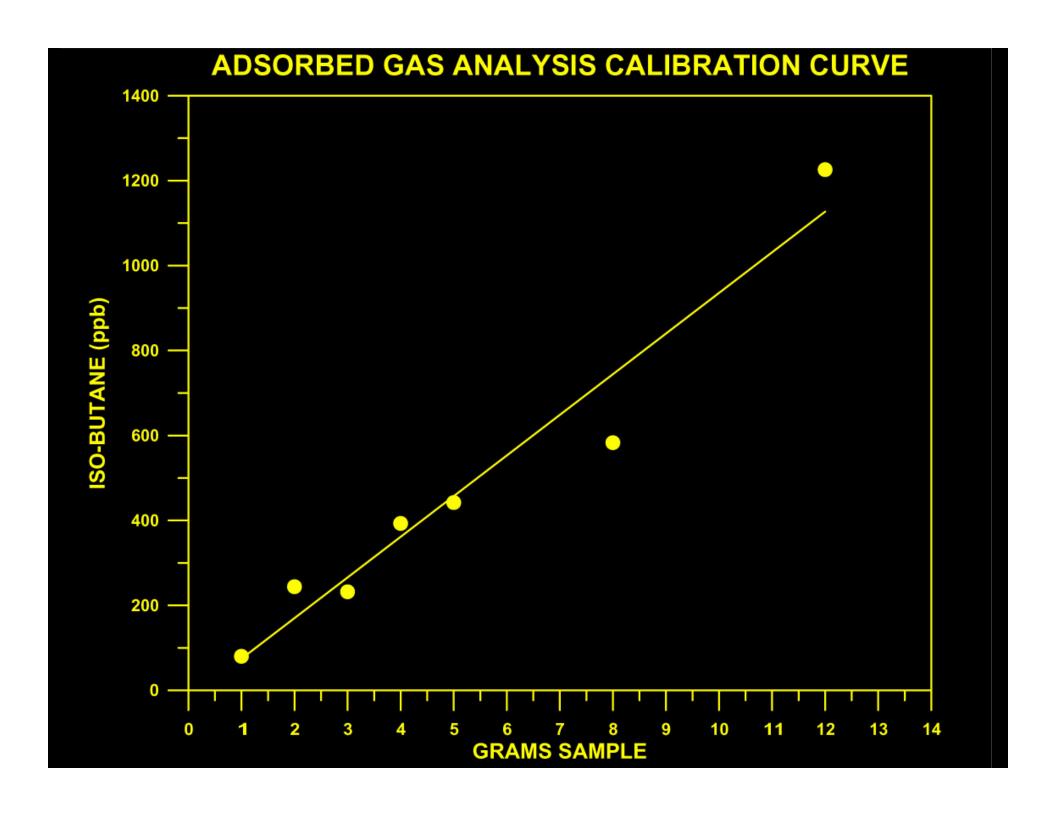
(SAMPLE AMOUNT IN GRAMS, MAGNITUDE OF GASES IN PPM, MICROLITER/LITER)

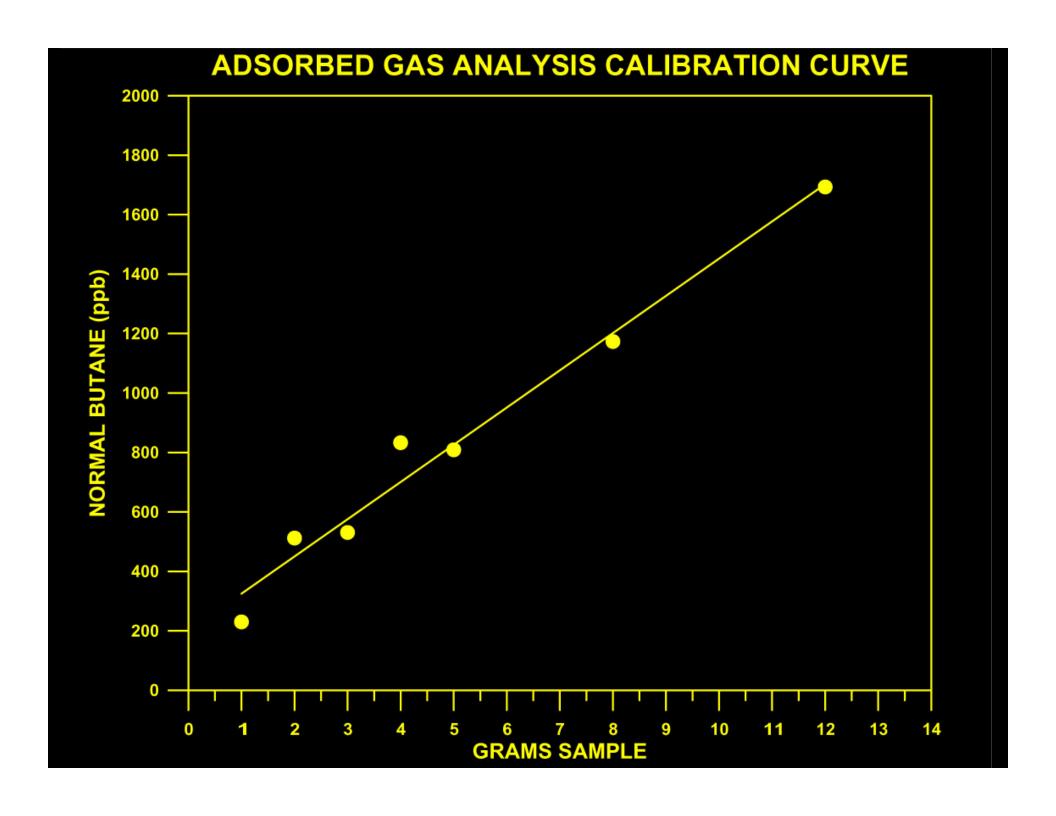
SAMPLE WEIGHT	C1	C2	C3	IC4	NC4
1 g	43.500	0.643	0.296	0.080	0.230
2 g	88.200	1.268	0.698	0.244	0.512
3 g	141.900	1.789	0.722	0.232	0.531
4 g	204.000	2.449	1.099	0.393	0.833
5 g	253.600	3.074	1.316	0.442	0.809
8 g	368.900	4.525	1.697	0.583	1.173
12 g	704.000	8.401	3.513	1.226	1.693











ADSORBED GAS ANALYSIS OF BLANK SAMPLES

SAMPLE	C1	C2	C3	IC4	NC4
Blank 1	2.600	0.210	0.072	0.152	0.375
Blank 2	2.400	0.054	0.049	0.068	0.114

ADSORBED GAS ANALYSIS - TEST SAMPLES ALL DATA IN PPB (WT. GAS/WT. WET SEDIMENT)

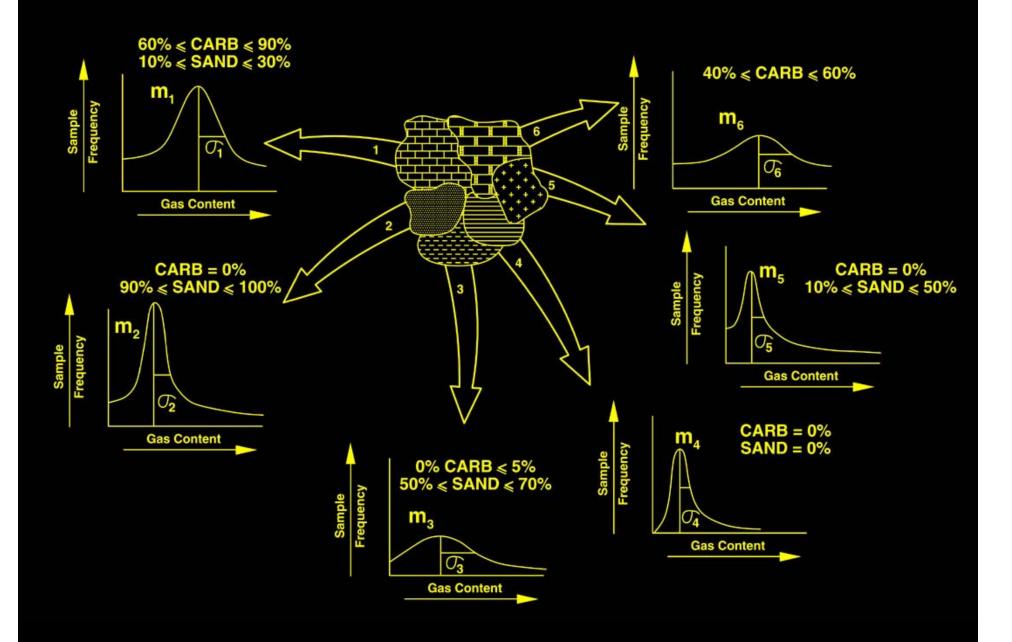
SITE	METHANE	ETHANE	PROPANE	I-BUTANE	N-BUTANE
A01	812.349	21.010	8.853	4.201	7.182
A01A	742.847	17.007	7.280	4.851	5.785
A02	831.563	19.762	8.430	3.990	6.880
A02A	1276.010	22.986	8.555	4.412	6.361
A03	521.620	32.524	31.312	14.364	30.455
A03A	504.174	26.639	23.192	10.933	21.517
A04	1254.184	21.514	9.693	4.531	8.014
A04A	1234.161	16.744	8.706	4.127	7.507
A05	1114.245	21.774	9.792	4.178	7.319
A05A	823.641	17.558	7.698	4.600	6.492
A06	785.826	19.650	14.908	7.142	12.928
A06A	595.162	14.543	10.141	5.757	9.223

COMPARISON OF ADSORBED GAS ANALYSIS BETWEEN WCO AND ETI METHODS (VALUES REPORTED AS PPB BY WEIGHT)

SAMPLE No.	C1	C2	C3	IC4	NC4
1					
ETI	387.6	70.2	52.9	12.0	22.4
WCO	330.0	66.4	48.4	16.0	25.4
6					
ETI	176.3	37.5	33.4	8.0	15.6
WCO	202.8	38.9	29.3	9.9	16.6

RESULTS OF ADSORBED GAS COMPARISONS BETWEEN WCO AND HORVITZ METHODS: VALUES REPORTED AS PPB BY WEIGHT

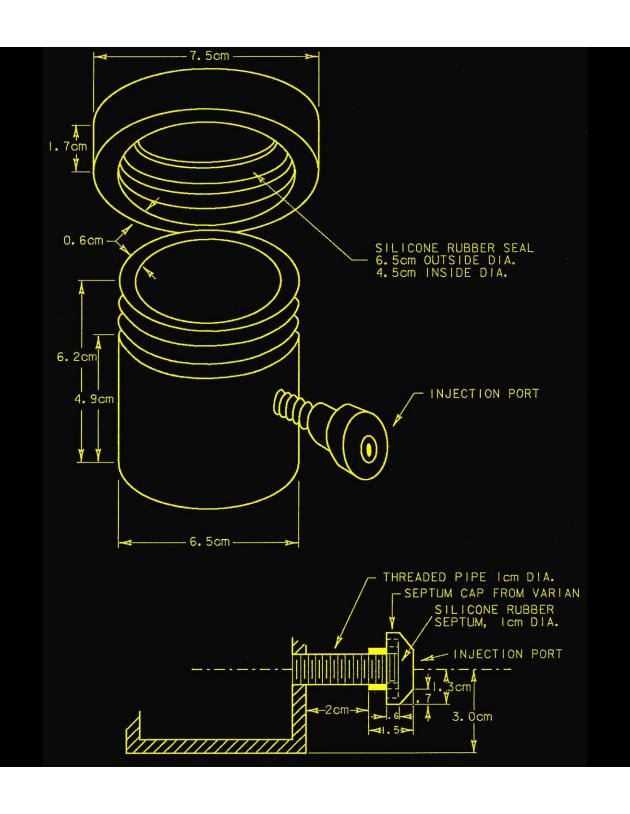
						Sum C			
Sample		C ₁	C ₂ =	C_2	C ₃ =	C ₃	iC ₄	nC ₄	(Saturates)
A68	WCO Horvitz	191.0 112.4	0.8	26.3 15.0	0.0	16.2 7.8	4.5 2.0	8.3 3.0	55.3 27.8
A104	WCO Horvitz	229.3 309.1	0.7	35.9 49.7	0.0	27.6 34.1	11.1 11.2	13.7 18.7	88.3 113.7
A62	WCO Horvitz	146.4 194.0	0.5	20.1 25.2	0.0	13.3 14.2	3.6 4.0	5.2 7.8	42.2 51.2
A94	WCO Horvitz	160.1 138.9	0.5 -	34.0 26.4	0.0	23.1 14.8	12.4 5.9	11.4 8.3	80.9 55.4
A60	WCO Horvitz	140.2 158.2	0.0	19.3 20.1	0.0	11.4 11.6	3.6 2.9	5.5 5.9	39.8 40.5
A75	WCO Horvitz	86.5 110.1	0.8	11.0 14.6	0.0	9.0 8.8	2.3 3.3	3.9 2.7	26.2 29.4
A82	WCO Horvitz	32.6 47.3	0.5 -	5.1 4.3	0.0	4.7 3.7	1.3 1.1	2.7 2.6	13.8 11.7
M2	WCO Horvitz	460.8 602.0	1.1	61.1 79.6	1.0	35.9 40.4	10.9 10.9	16.6 18.8	124.5 149.7
M4	WCO Horvitz	291.8 425.1	0.8	41.0 56.1	1.0	24.0 29.3	7.3 7.9	12.0 12.9	84.3 106.2
M5	WCO Horvitz	165.5 272.1	0.7	23.5 35.6	1.1	13.5 18.4	4.2 4.6	7.0 8.4	48.2 67.0
M18	WCO Horvitz	340.8 479.4	0.7	48.5 62.8	0.8	29.0 33.0	9.1 9.6	13.5 15.5	100.1 120.9
M23	WCO Horvitz	250.8 366.7	2.6 -	33.9 46.6	1.2	20.4 24.1	6.0 6.8	9.1 10.2	69.4 87.7
M24	WCO Horvitz	191.6 265.6	2.2	26.3 35.1	1.1	16.1 18.3	5.0 4.6	7.0 7.0	54.4 65.0
M33	WCO Horvitz	217.1 378.5	0.8 -	31.0 49.6	1.0	18.5 25.4	5.5 6.9	8.8 11.8	63.8 93.7
M35	WCO Horvitz	202.5 312.4	0.9	29.0 41.4	1.0 -	16.9 21.3	5.2 4.9	8.6 9.3	59.7 76.9
M41	WCO Horvitz	16.1 32.0	0.7	1.7 3.2	1.2 -	1.8 1.4	0.5 0.2	1.3 0.7	5.3 5.5
M46	WCO Horvitz	456.5 610.6	0.5 -	64.4 78.9	0.6 -	39.6 43.2	11.4 11.9	18.9 21.1	134.3 155.1
M50	WCO Horvitz	259.8 383.8	0.3	36.9 49.8	0.4	22.9 27.4	6.2 6.7	11.2 12.9	77.2 96.8
M51	WCO Horvitz	2.4 4.5	0.5	0.3 0.8	1.1	0.4 0.0	0.5 0.0	0.5 0.0	1.7 0.8



Blender

Too Many Variables

Time
Grinding Speed
Matrix
Volume (Size)
Dilution



Ball Mill Solves Blender Problems Volume Dilutions are constant

35 ml	Total Volume
10 ml	Headspace
4 ml	Ceramic Balls (2)
16 ml	H ₂ O
5 ml	Sediment

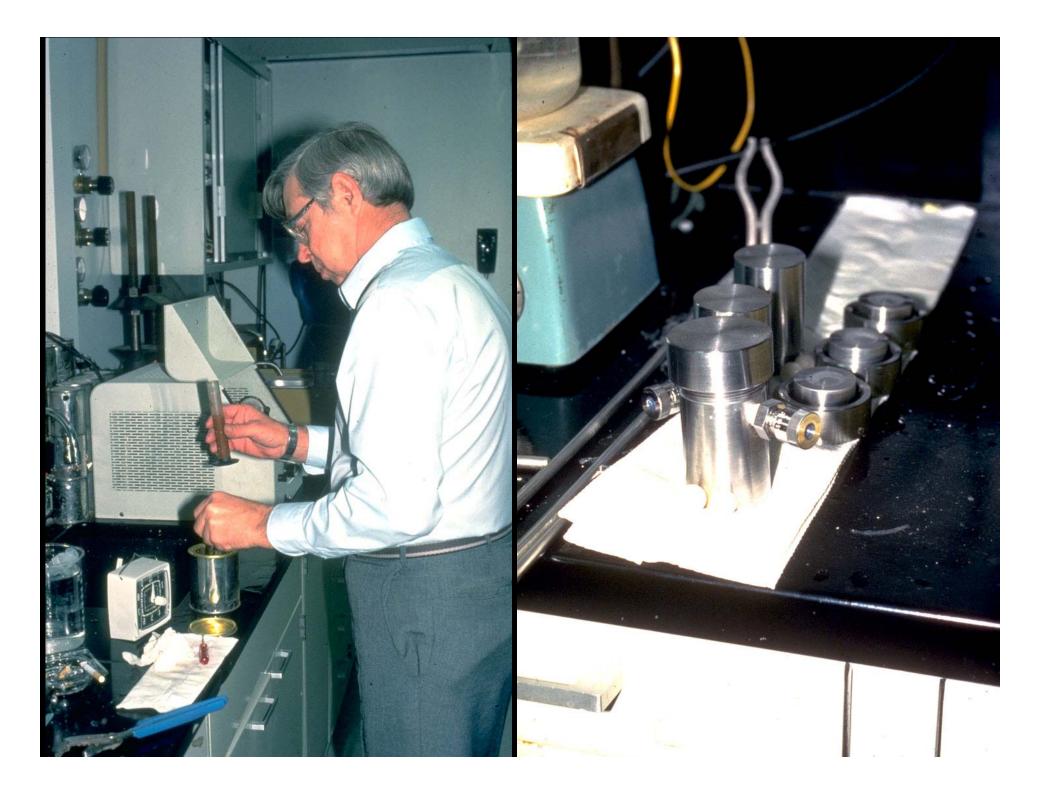
Grind 5 min. Spex Shaker

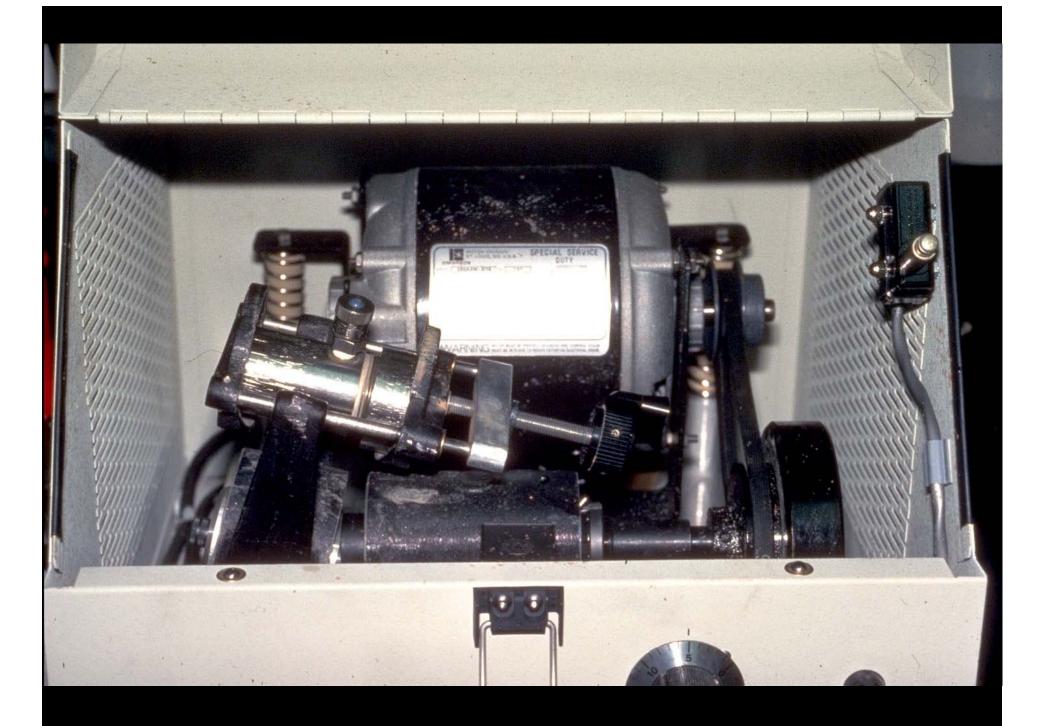
90° C water bath 3 min.

Multiply by 10 to obtain total volume

Divide by 5 to obtain result/grams

Correct for temperature variation









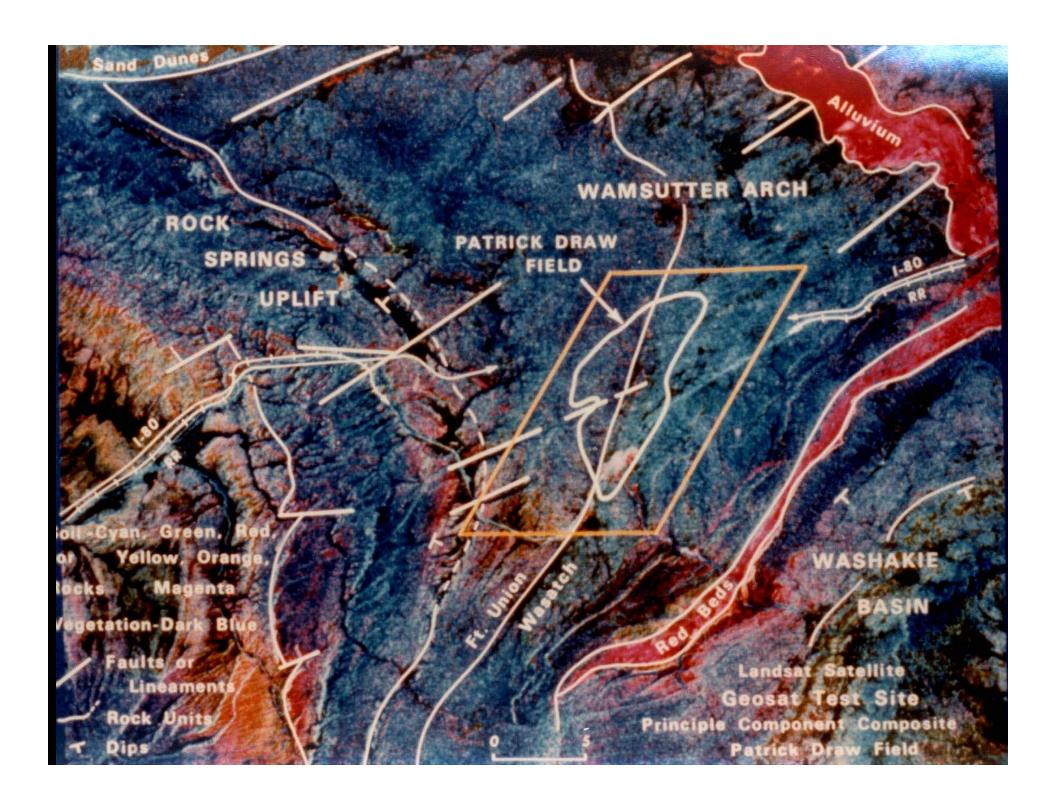


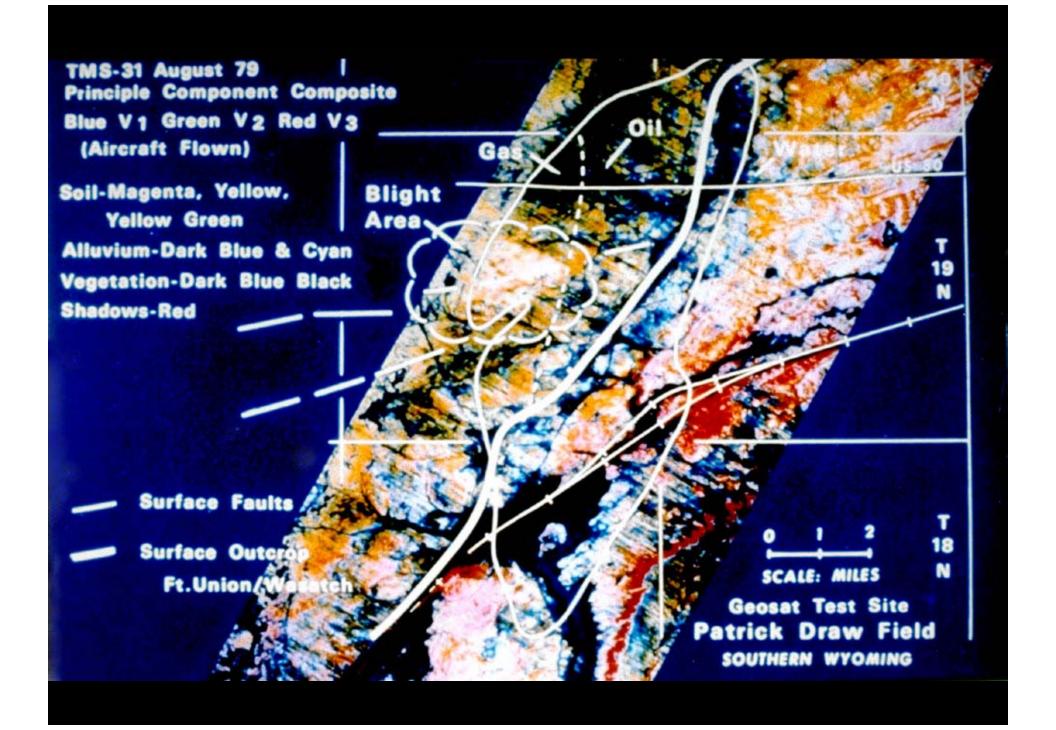
COMPARISON OF RESULTS OF FREE SOIL GAS AND DISAGGREGATED SOIL GAS SURVEYS, ROSEHILL, VIRGINIA (RICHERS, 1984)

Survey method	No. of sites	% methane	C1/C2	1000 x C3/C1
Free soil gas	145	72	7	110
Disaggregated gas	128	70	7	117

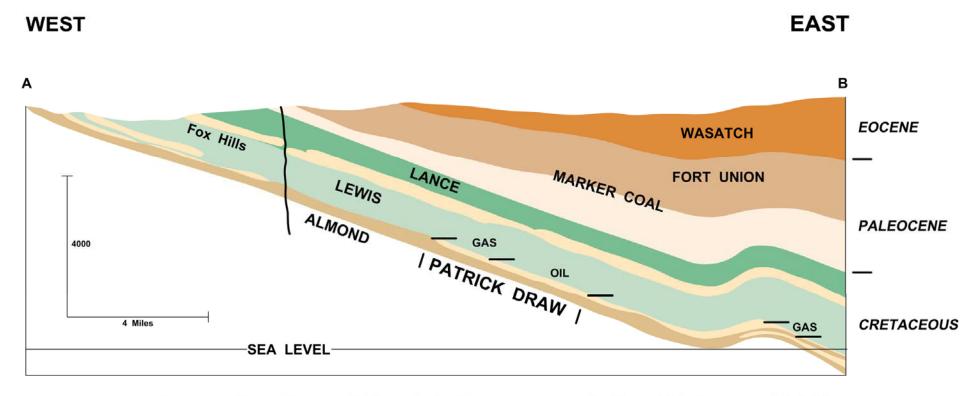
DIAGNOSTIC SOIL GAS RATIOS AT THE GULF RESEARCH FACILITY, PITTSBURGH, PA DEVONIAN GAS AREA

Survey method	No. of sites	% methane	C1/C2	1000 x C3/C1
Free soil gas	73	89	18	21
Disaggregated gas	38	91	25	22



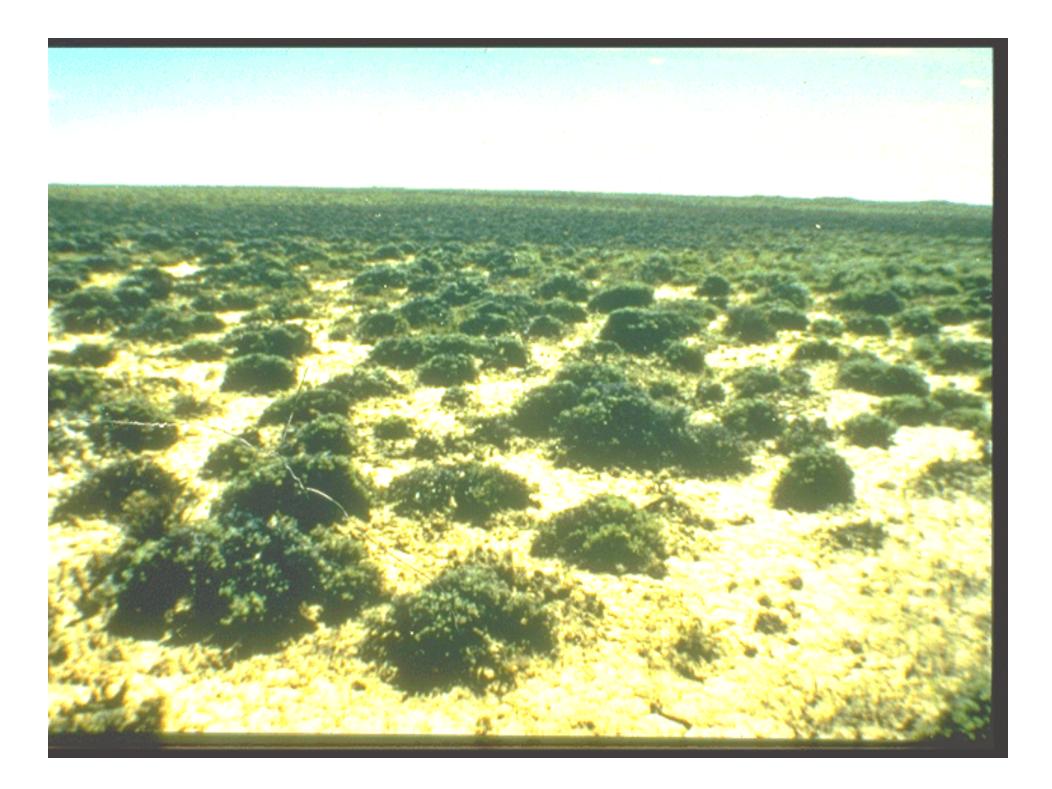


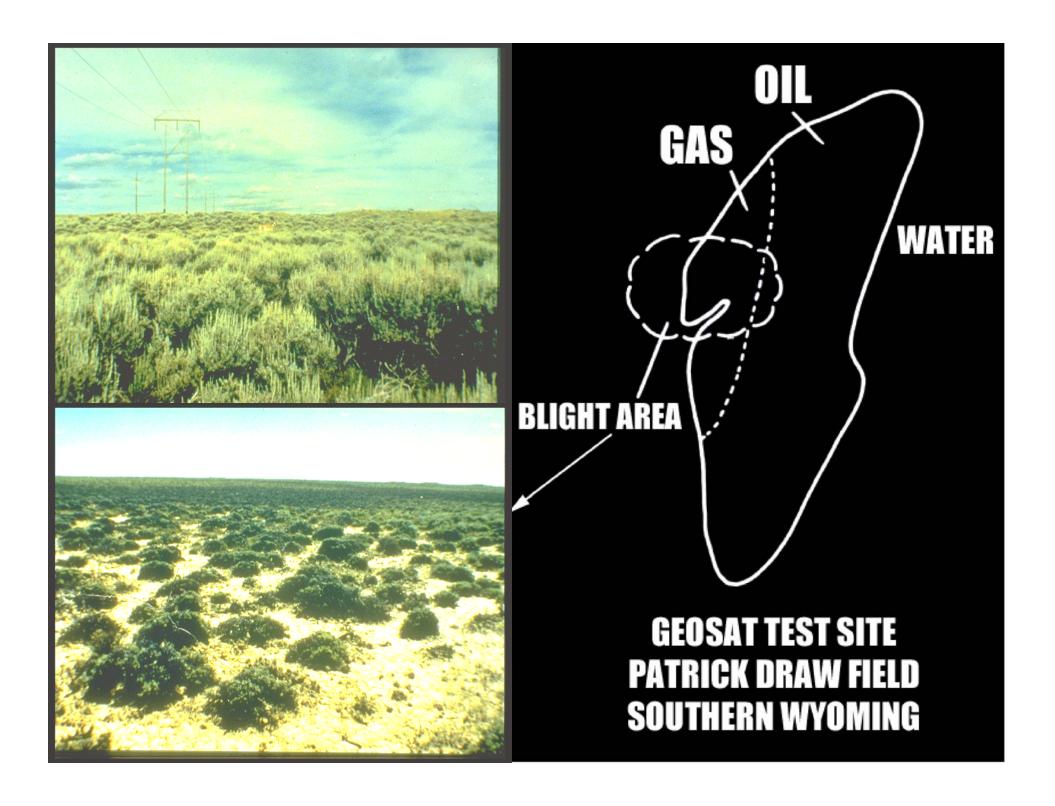
CROSS SECTION THROUGH PATRICK DRAW FIELD from Rock Springs Uplift to Table Rock Field

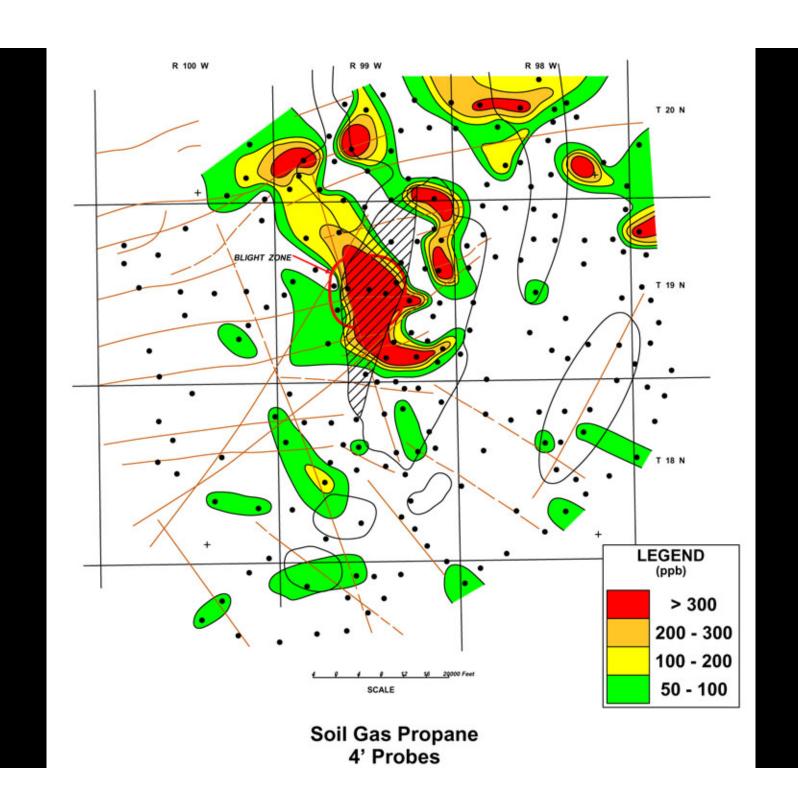


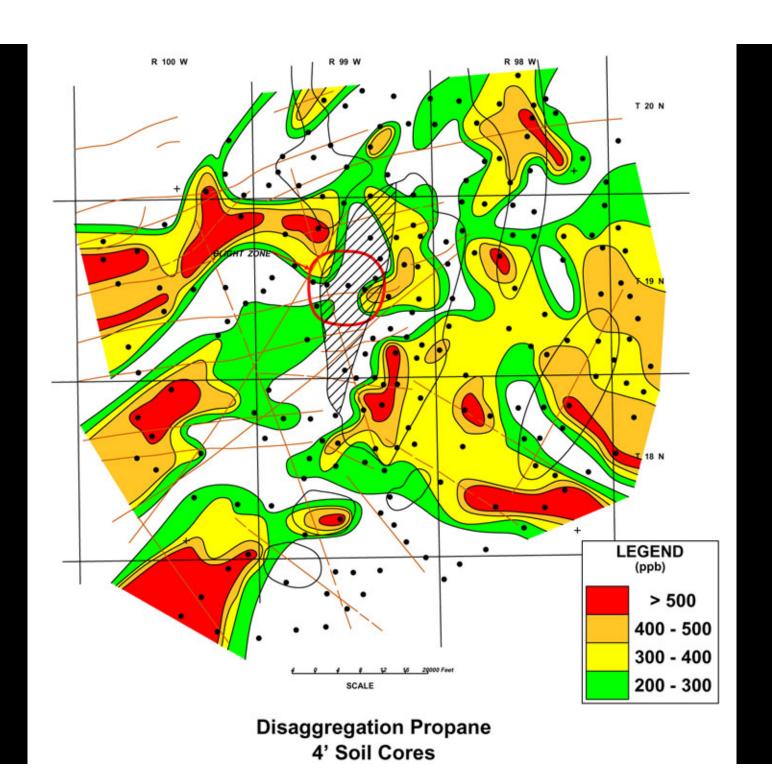
Cross Section of Patrick Draw area (after Weimer, 1966)

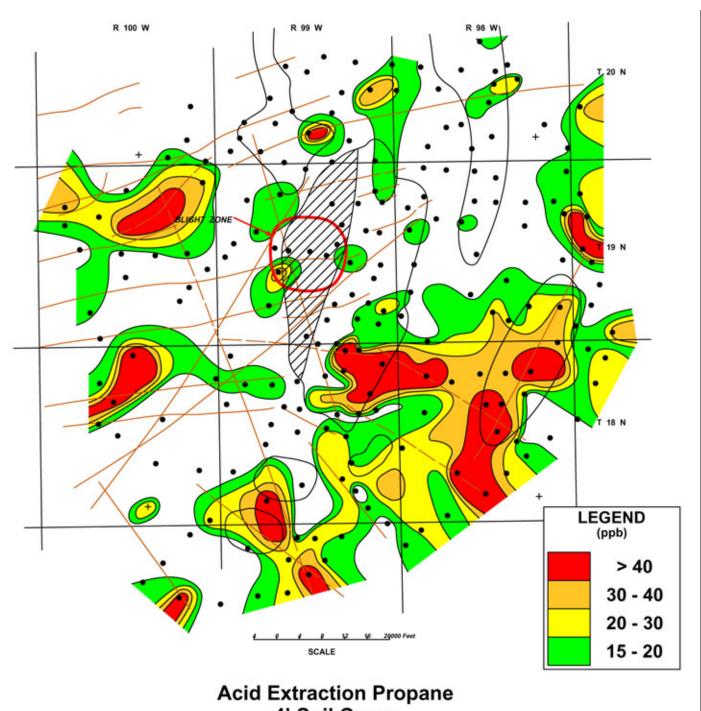




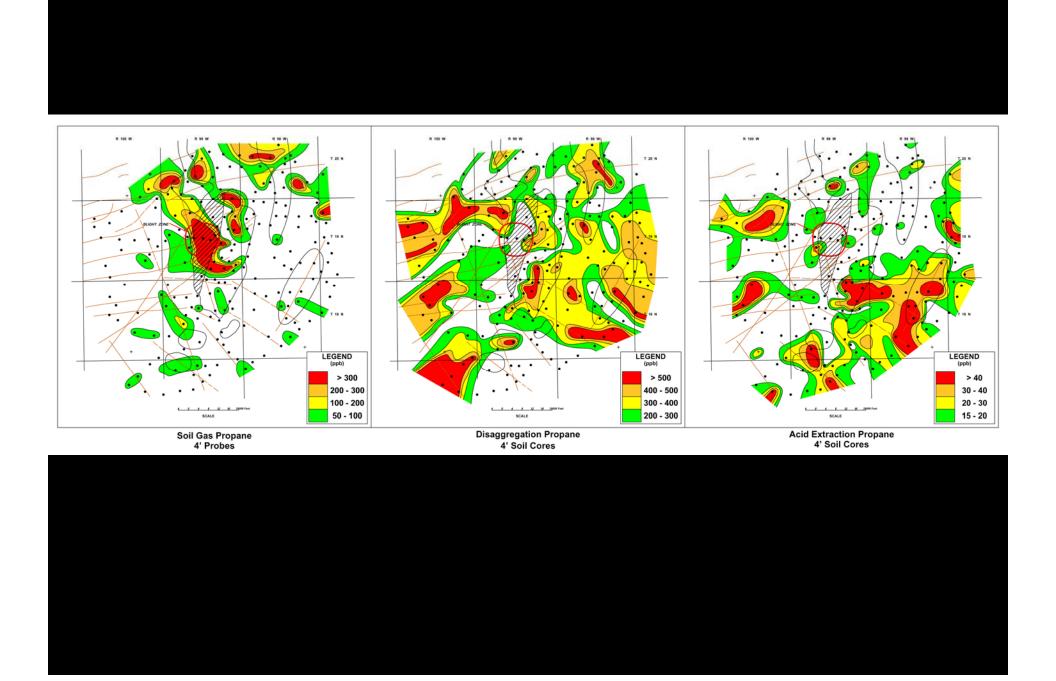


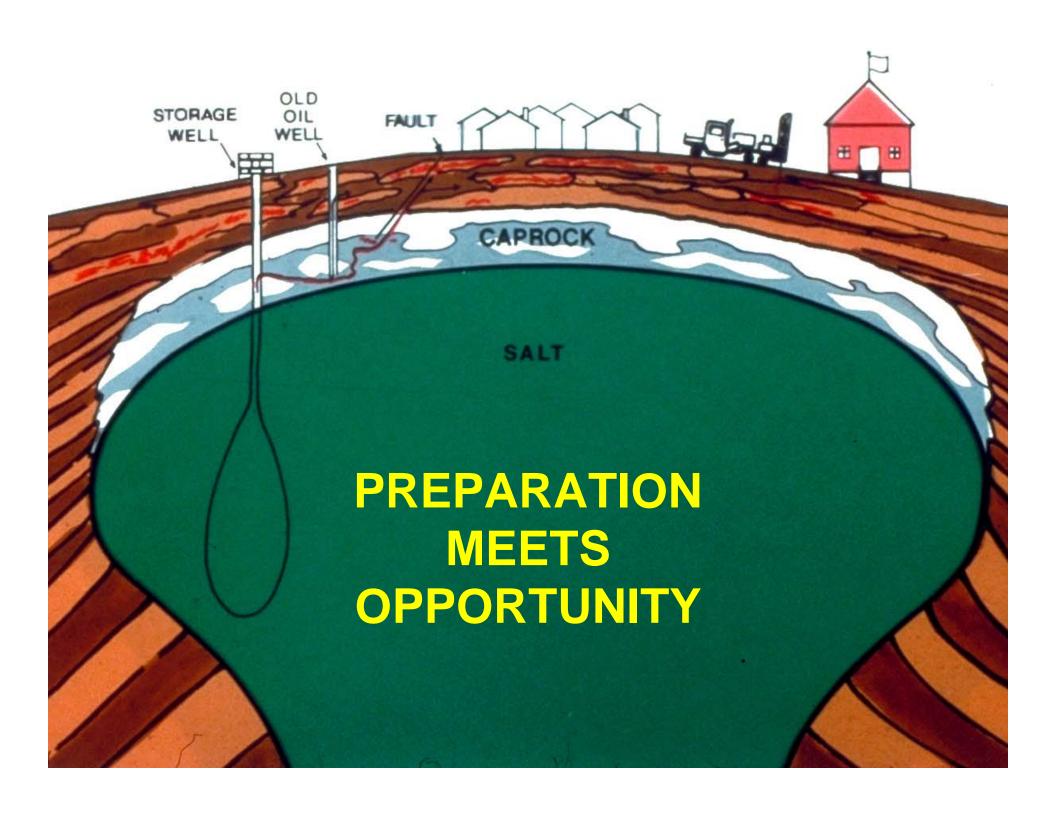




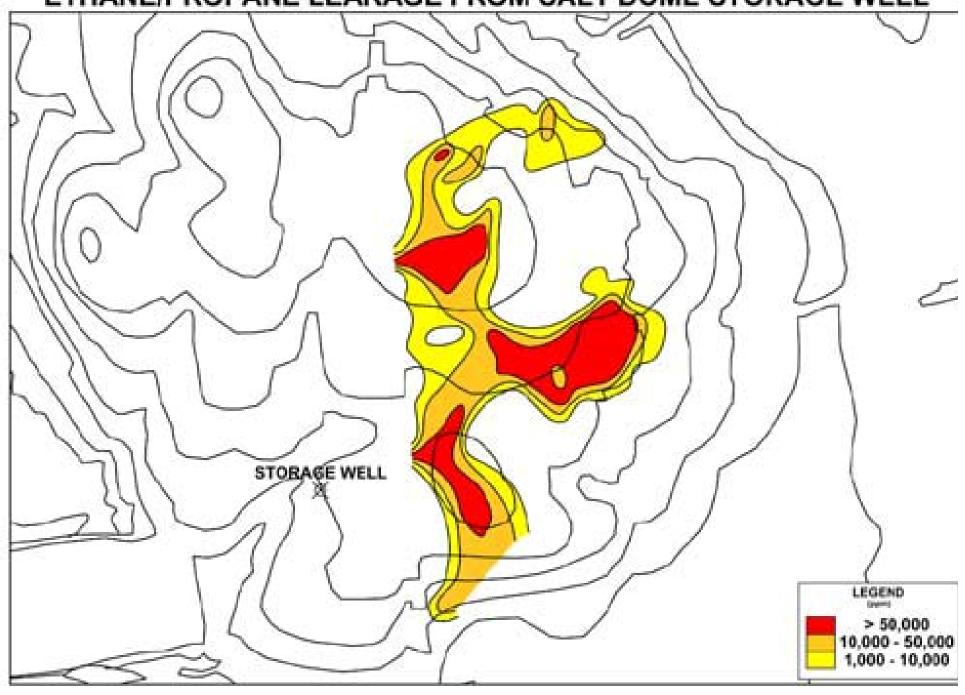


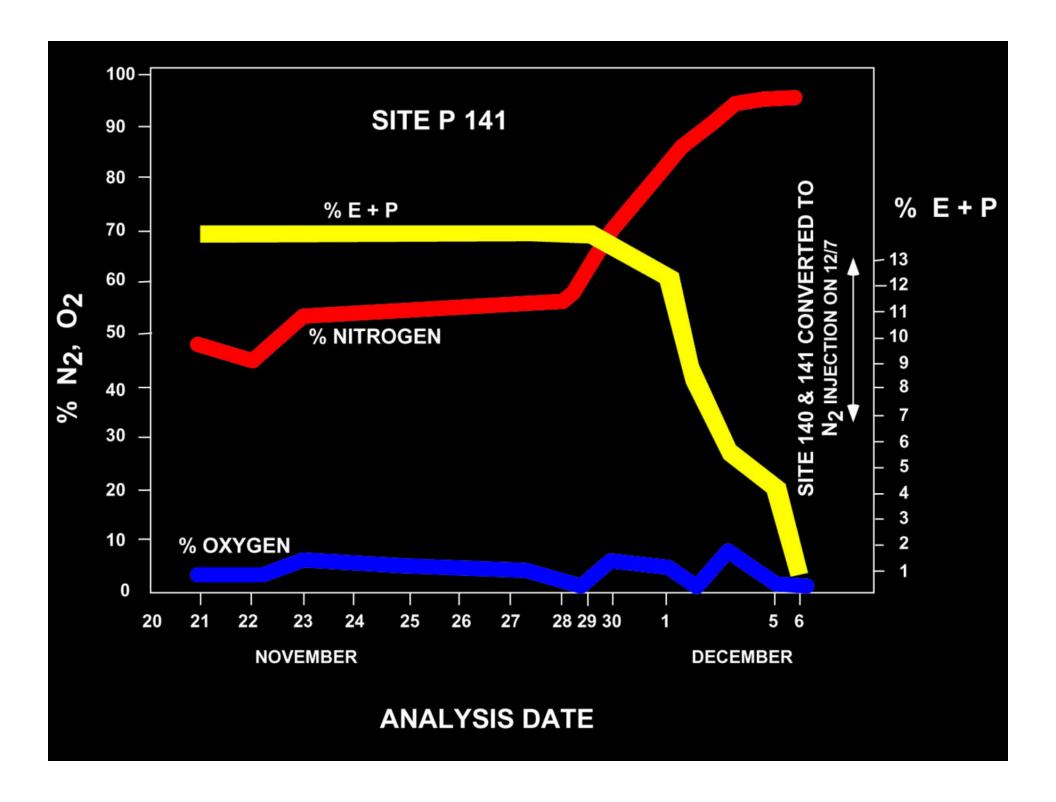
Acid Extraction Propane 4' Soil Cores



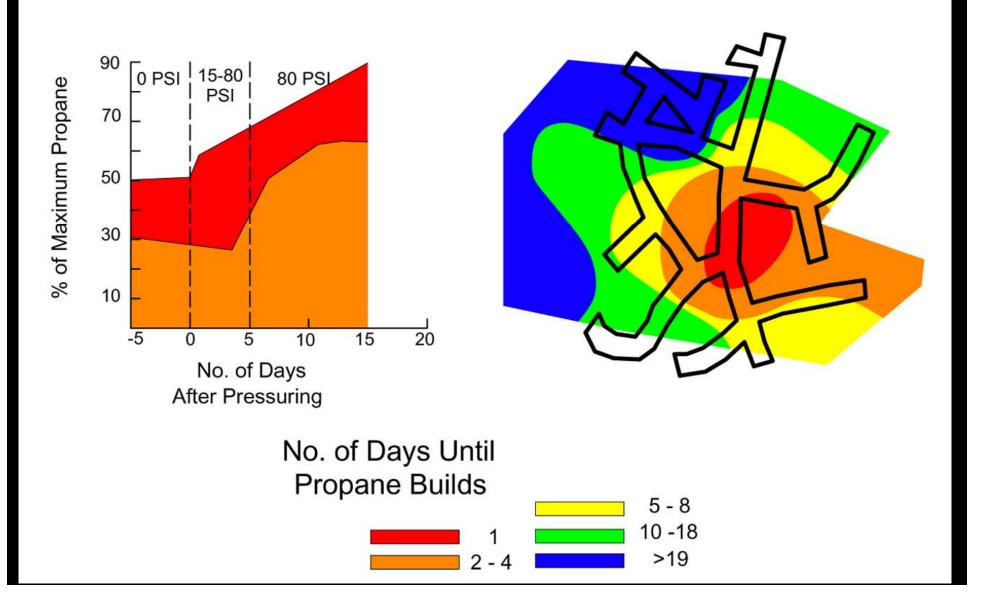


ETHANE/PROPANE LEAKAGE FROM SALT DOME STORAGE WELL

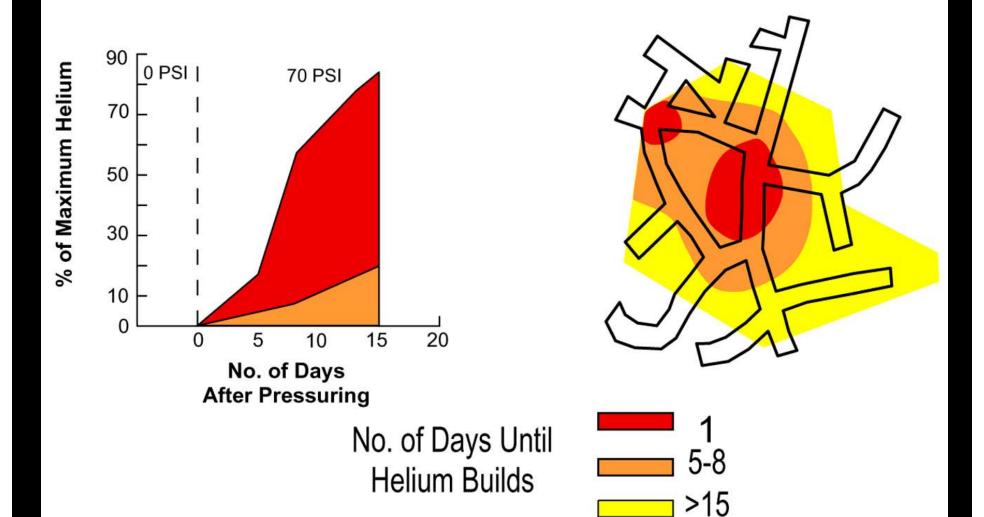


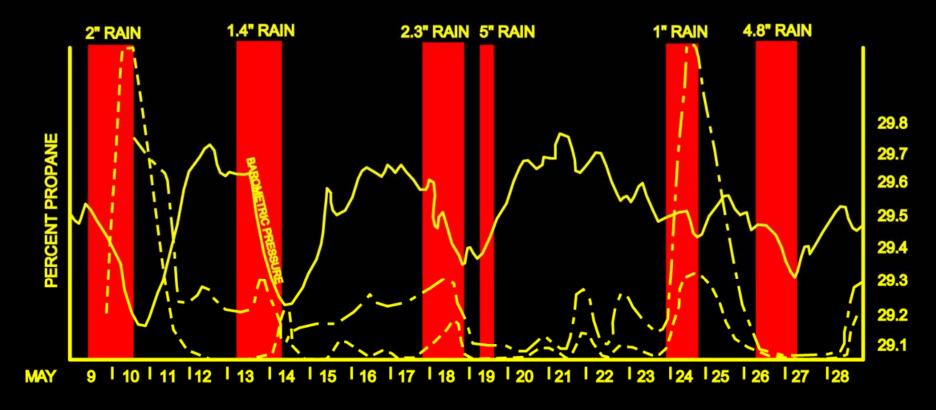


PROPANE RECHARGE ABOVE PROPANE STORAGE CAVERN OCTOBER 1981



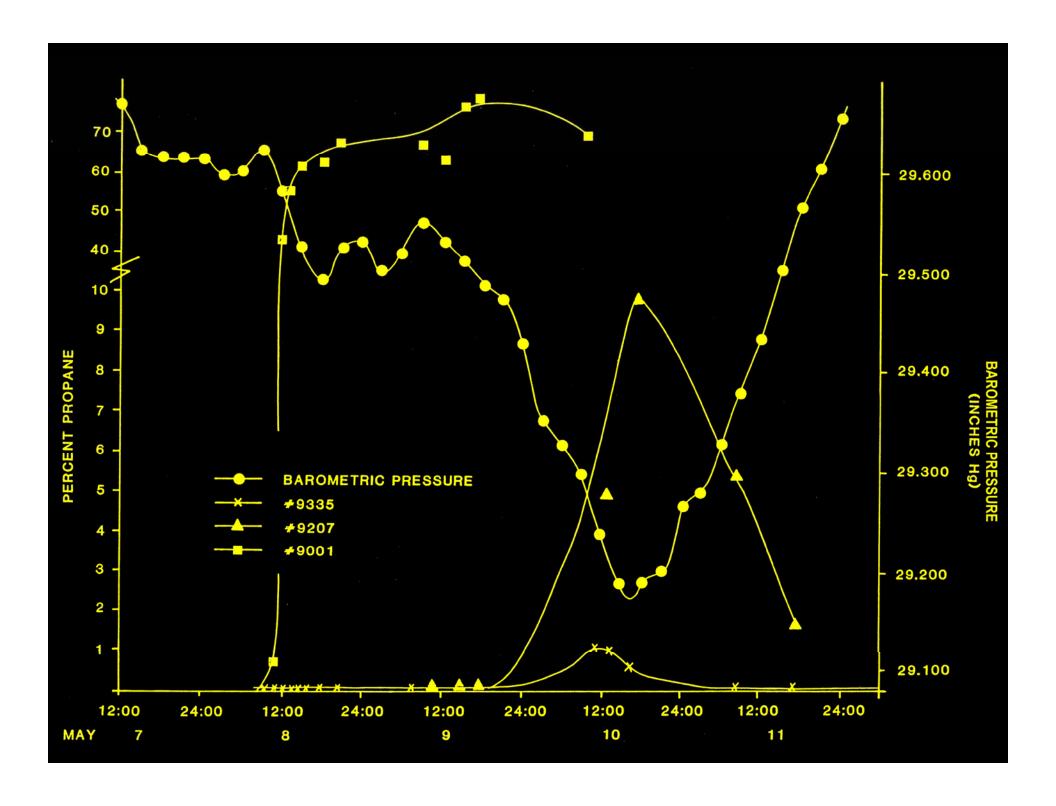
HELIUM RECHARGE ABOVE PROPANE STORAGE CAVERN OCTOBER 1982

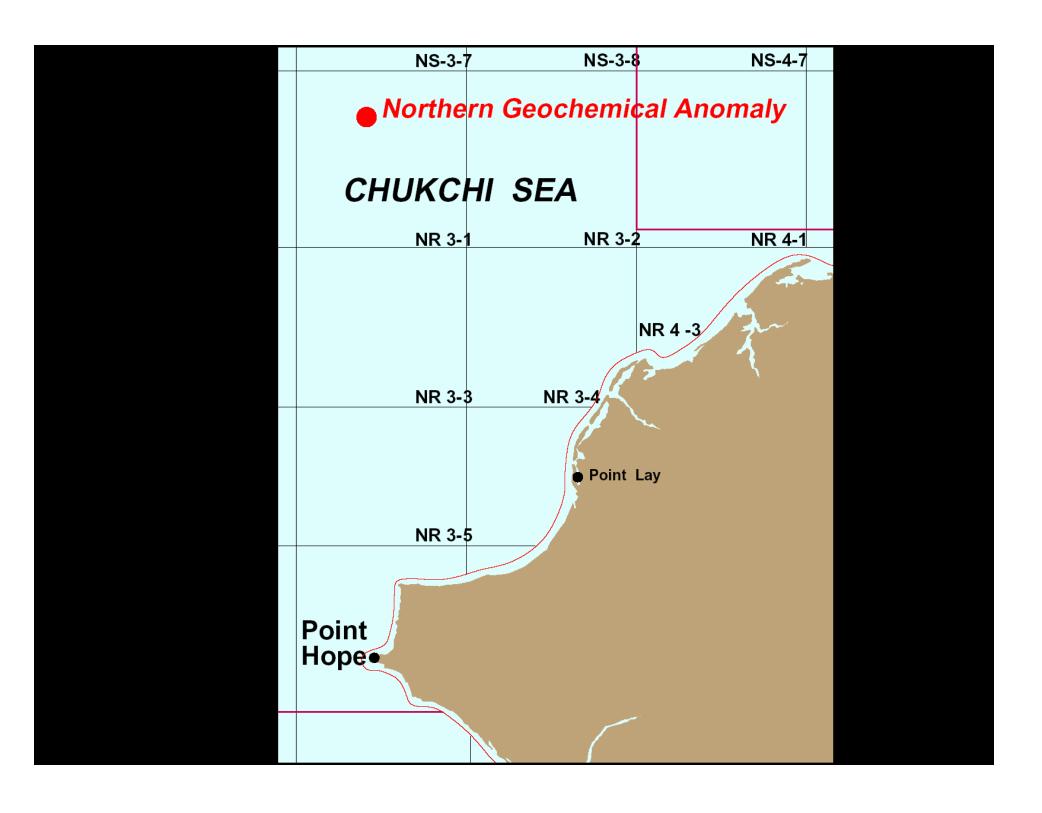


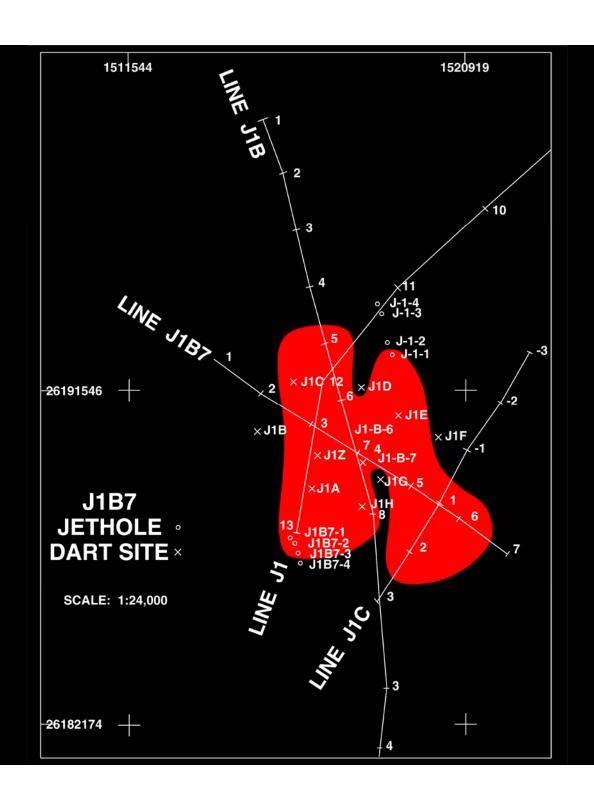


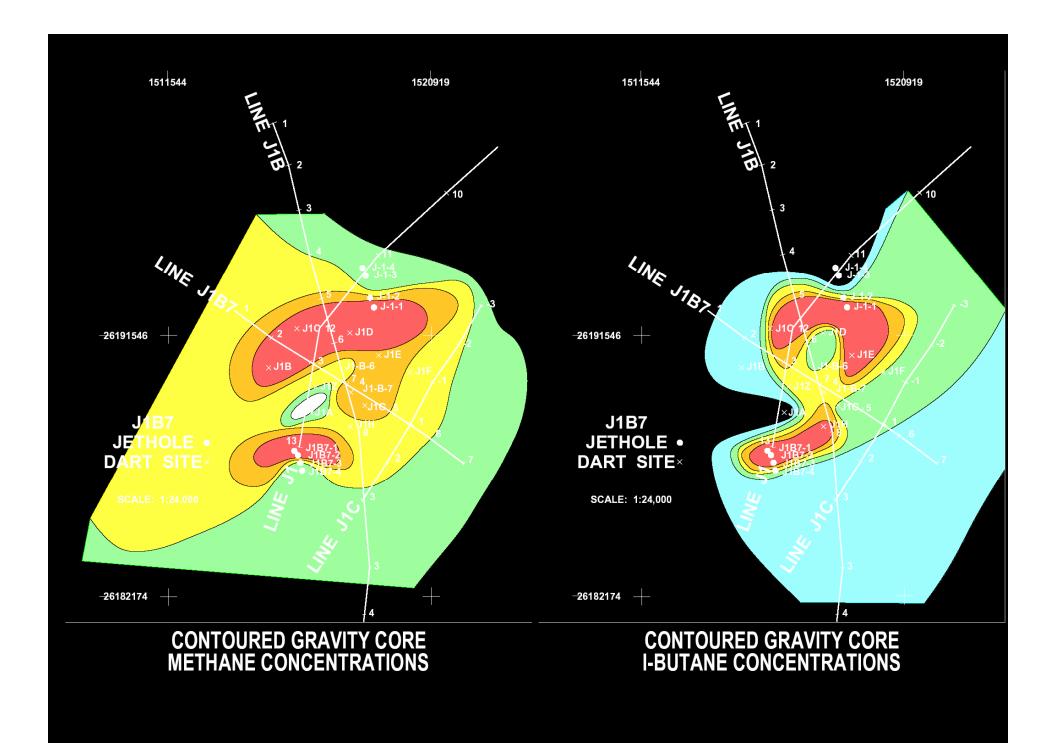
BAROMETRIC PUMPING OF HYDROCARBONS

- ----- PERCENT PROPANE UNDER GROUND SHEET
- ----- PERCENT PROPANE UNDER GROUND SHEET
- BAROMETRIC PRESSURE







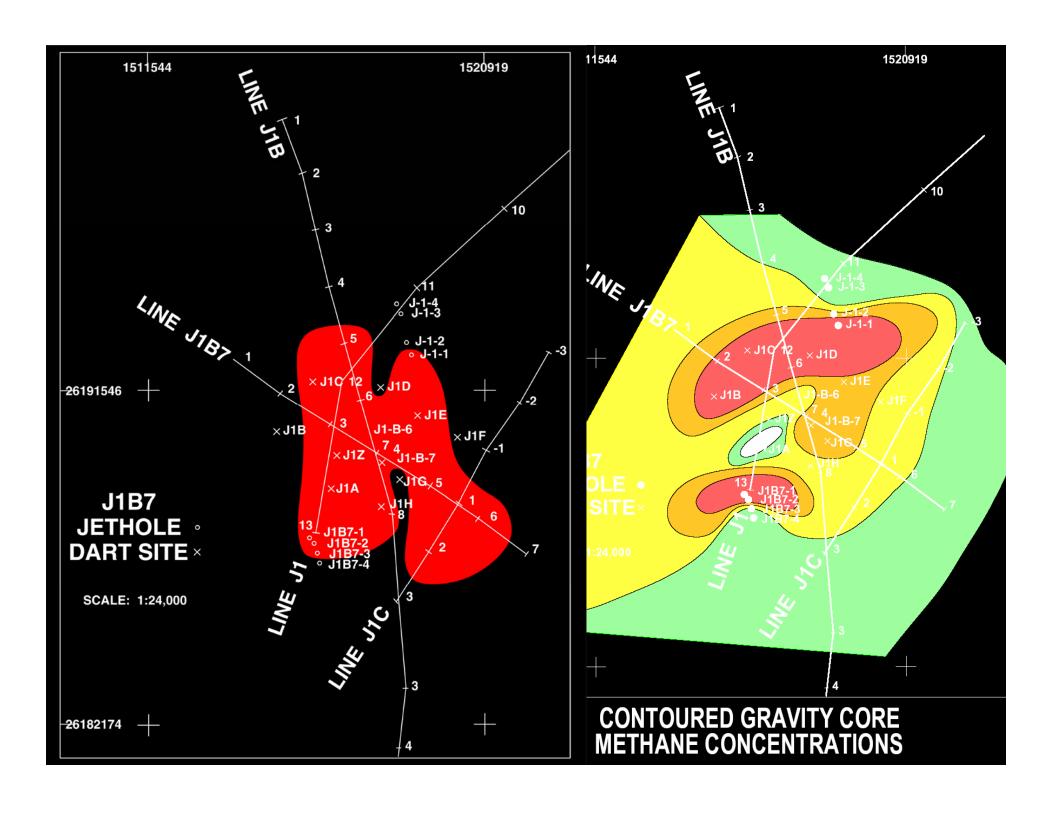


DARTS FROM REGIONAL GRID CLOSEST TO JET LOCATION J1B7 (C1-C4 IN PPM, 2D FLUORESCENCE IN UNITS)

Site	Water Depth (ft)	Methane	Ethane	Propane	I-Butane	N-Butane	Ethylene	Propylene	LF2D	HF2D
EE55	156	30.785	0.462	0.498	0.090	0.123	1.176	0.510	6.00	21.00
EE56	156	25.994	0.431	0.328	0.038	0.086	0.847	0.323	6.00	18.00
FF54	150	8.209	0.192	0.266	0.013	0.061	0.471	0.108	5.00	6.00
FF55	156	19.500	0.385	0.320	0.064	0.089	0.719	0.308	0.00	0.00
FF57	162	42.999	0.467	0.208	0.018	0.035	0.465	0.210	0.00	0.00
GG54	156	27.285	0.511	0.354	0.060	0.087	0.678	0.262	6.00	21.00
GG56	156	45.735	0.253	0.223	0.022	0.039	0.694	0.217	6.00	30.00
GG57	156	37.588	0.478	0.211	0.028	0.035	0.551	0.238	8.00	41.00

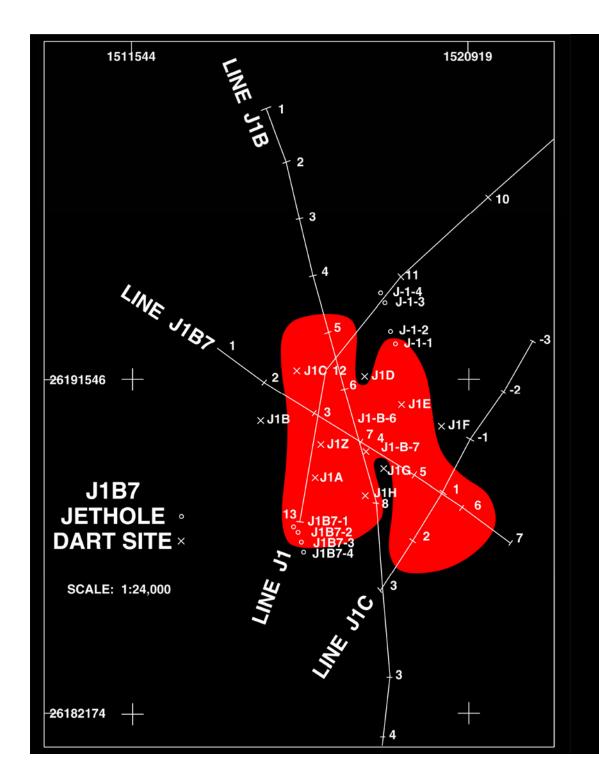
CHUKCHI SEA GEOCHEMICAL SURVEY GEOCHEMICAL ANOMALY SPECIAL STUDIES (C1-C4 IN PPM, 2D FLUORESCENCE IN UNITS) DART SAMPLES

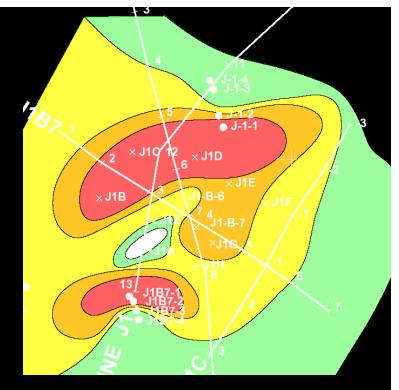
Site	Depth (ft)	Methane	Ethane	Propane	I-Butane	N-Butane	Ethylene	Propylene	LF2D	HF2D
J1B6	162	69.8	0.807	0.453	0.118	0.115	0.664	0.167	7.000	12.000
J1B7	162	227.8	1.463	1.353	0.175	0.151	1.301	0.157	5.000	15.000
J1A	161	22.4	0.491	0.243	0.028	0.054	0.850	0.179	5.000	11.000
J1B	163	379.3	5.895	0.415	0.055	0.061	0.777	0.157	5.000	15.000
J1C	164	640.2	10.025	2.459	0.681	0.350	1.632	0.615	12.000	18,000
J1D	162	588.0	2.809	0.519	0.096	0.107	0.771	0.351	10.000	20.000
J1E	162	256.5	31.560	6.091	1.663	0.185	7.030	0.186	2.000	10.000
J1F	164	71.0	0.934	0.530	0.098	0.097	1.187	0.348	3.000	8.000
J1G	165	249.2	3.077	3.503	0.102	0.112	0.775	0.229	4.000	9.000
J1H	165	76.3	1.681	1.129	0.565	0.318	2.051	0.613	2.000	7.000



CHUKCHI SEA GEOCHEMICAL SURVEY GEOCHEMICAL ANOMALY SPECIAL STUDIES J1B7 JET SAMPLE ANALYSES (C1-C4 IN PPM, 2D FLUORESCENCE UNITS)

Site	Depth (ft)	Methane	Ethane	Propane	I-Butane	N-Butane	Ethylene	Propylene	LF2D	HF2D
Location 1										
J1B711	2	350.4	0.952	0.692	0.000	0.142	0.395	0.144	3.000	7.00
J1B712	7	1908.3	17.572	4.533	0.665	0.388	1.671	0.422	5.000	9.00
J1B713	12	57461.7	482.072	24.283	18.539	2.000	29.319	0.051	6.000	14.00
Location 2										
J1B721	2	1407.1	17.684	0.545	0.124	0.158	1.371	0.159	2.000	8.00
J1B722	7	2106.2	32.569	2.128	0.865	0.497	9.561	0.070	11.000	19.00
J1B723	12	2084.4	12.279	0.728	2.653	0.346	3.115	0.201	3.000	7.00
J1B724	17	33436.3	42.832	1.122	0.220	0.181	10.756	1.545	5.000	21.00
J1B725	22	185.9	2.422	0.933	0.477	0.369	0.753	0.680	4.000	11.00
Location 3										
J1B731	2	924.5	27.275	2.061	0.941	0.276	2.143	0.166	9.000	15.00
J1B732	7	952.8	29.030	2.221	1.910	0.353	2.910	0.198	2.000	10.00
J1B733	12	61421.0	189.580	3.539	3.980	0.578	36.693	0.000	3.000	7.00
J1B734	17	51576.4	197.078	1.293	0.443	0.259	18.136	0.641	50.000	60.00
Location 4										
J1B741	2	28.8	0.526	0.301	0.055	0.103	0.670	0.364	4.000	12.00
J1B742	7	52.0	1.095	0.579	0.079	0.091	0.935	0.173	5.000	20.00
J1B743	12	56.9	1.380	1.311	0.134	0.186	1.473	0.395	4.000	12.00

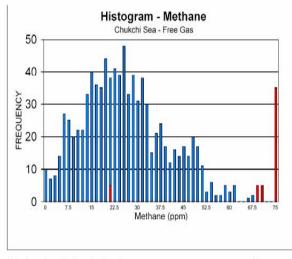


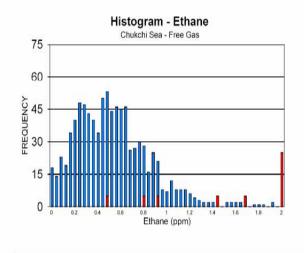


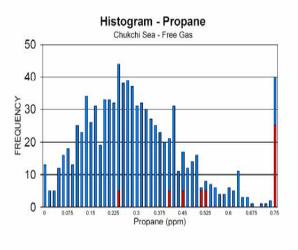
1985 CHUKCHI SEA GEOCHEMICAL SURVEY JET 1 (C1-C4 IN PPM, 2D IN FLUORESCENCE UNITS)

Site	Depth (ft)	Methane	Ethane	Propane	I-Butane	N-Butane	Ethylene	Propylene	LF2D	HF2D
Oite	Deptii (it)	Wethane	Lillane	Гторапе	I-Dutane	N-Dutane	Luiyiene	riopylene	LIZU	111 20
Location 1										
J111	2	2190.56	10.663	0.532	13.297	0.859	2.245	0.227	24.0	23.0
J112	6	No Recovery								
J113	11	61221.00	350.513	1.725	8.528	0.137	18.139	0.909	2.0	5.0
J114	16	81471.92	622.070	7.987	63.638	2.163	37.704	1.151	4.0	15.0
J115	21	Only Flouresc	ence Sampl	e Taken					3.0	10.0
Location 2										
J121	3	40.972	0.818	0.341	0.060	0.055	0.653	0.098	3.0	9.0
J122	6	Only Flourece	nce Sample	Taken					3.0	13.0
J124	10	No Recovery								
J124	16	94.453	1.096	0.267	0.325	0.048	0.692	0.297	8.0	21.0
J125	21	Only Flourece	nce Sample	Taken					4.0	15.0
Location 3										
J131	2	38.191	0.578	0.297	0.072	0.069	0.519	0.088	5.0	13.0
J132	6	46.785	1.202	0.524	0.132	0.129	0.441	0.161	13.0	16.0
J133	7	37.308	1.079	0.902	0.115	0.135	1.077	0.235	5.0	11.0
J134	11	Only Flouresc							2.0	3.0
J135	16	Only Flouresc							4.0	12.0
J136	21	Only Flouresc	ence Sampl	es Taken					10.0	17.0
Location 4										
J141	2	47.236	0.446	0.120	0.030	0.025	0.430	0.150	6.0	12.0
J142	6	Only Flouresc	ence Sampl	e Taken					30.0	54.0
J143	11	104.536	1.120	0.238	0.137	0.187	1.130	0.250	3.0	5.0
J144	15	No Recovery								
J145	21	Only Flouresc	ence Sampl	e Taken					38.0	54.0
Dart at Jet 1										
J14		52.080	1.464	0.612	0.150	0.143	1.249	0.381	5.80	0.00
1i1i										

MAGNITUDE HISTOGRAMS - Chukchi Sea Dart Core Samples - Regional Free Gas vs. Macroseep Samples







Exploration Technologies, Inc.

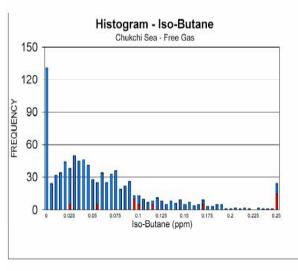
Figure - 1a

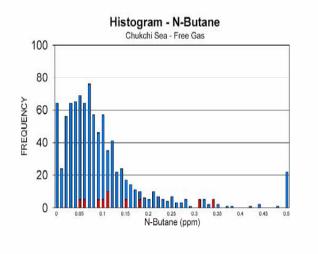
Exploration Technologies, Inc.

Figure - 1b

Exploration Technologies, Inc.

Figure - 1c





Histogram - Helium
Chukchi Sea - Free Gas

20
20
15
15
0
Helium (ppm)

Exploration Technologies, Inc.

Figure - 1d

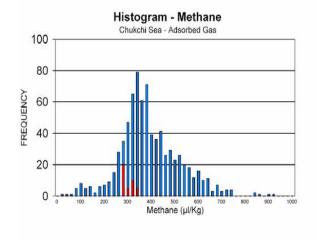
Exploration Technologies, Inc.

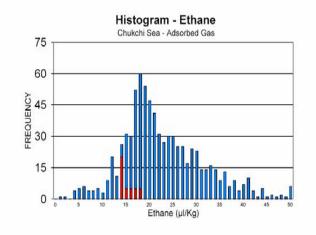
Figure - 1e

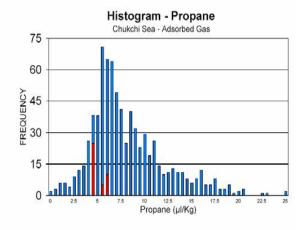
Exploration Technologies, Inc.

Figure - 1f

MAGNITUDE HISTOGRAMS - Chukchi Sea Dart Core Samples - Regional Adsorbed Gas vs. Macroseep Samples







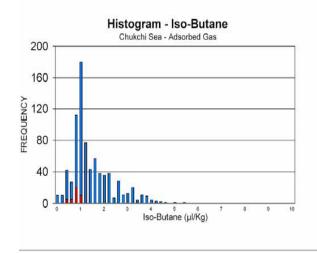
Exploration Technologies, Inc.

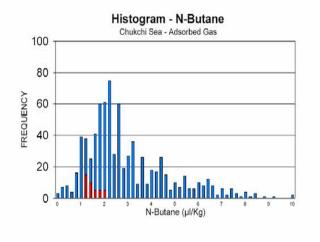
Figure - 2a

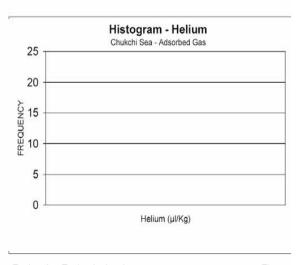
Exploration Technologies, Inc.

Figure - 2b Exploration Technologies, Inc.

Figure -







Exploration Technologies, Inc.

Figure - 2d

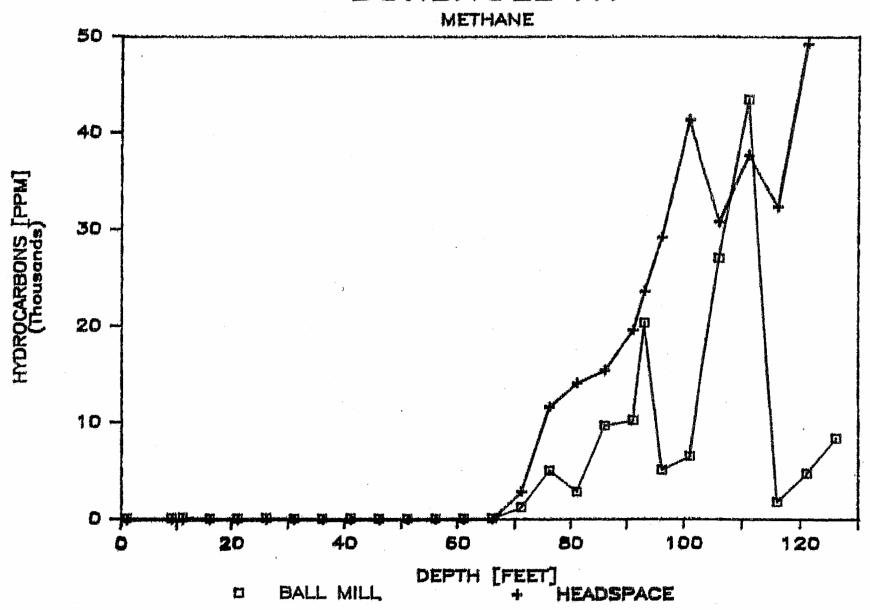
Exploration Technologies, Inc.

Figure - 2e

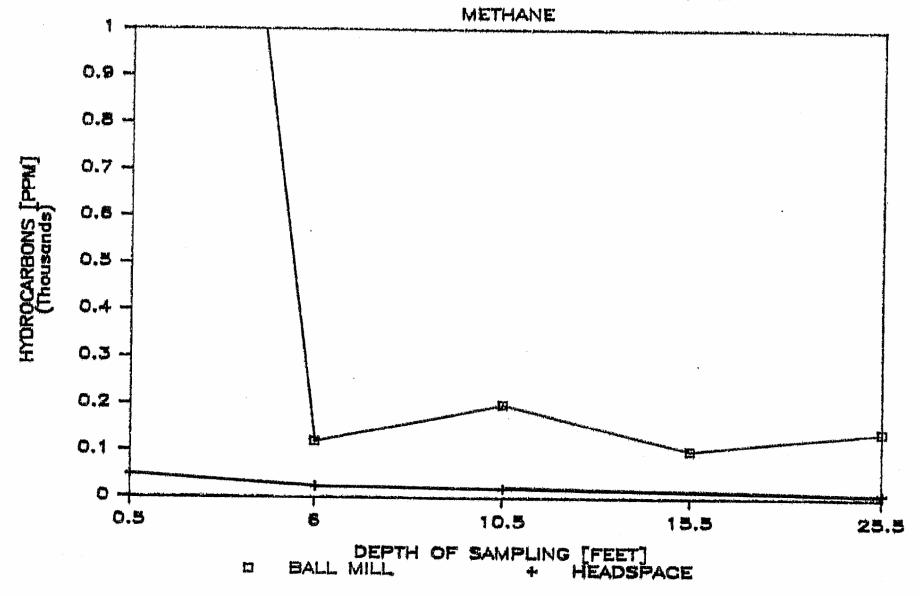
Exploration Technologies, Inc.

Figure -

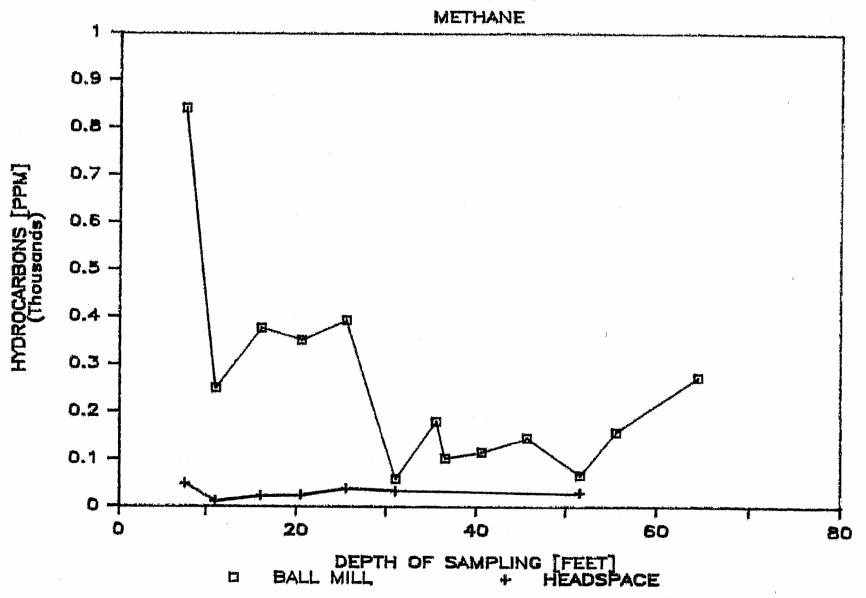
BOREHOLE A1



BOREHOLE BBB- 37/2



BOREHOLE P - 3

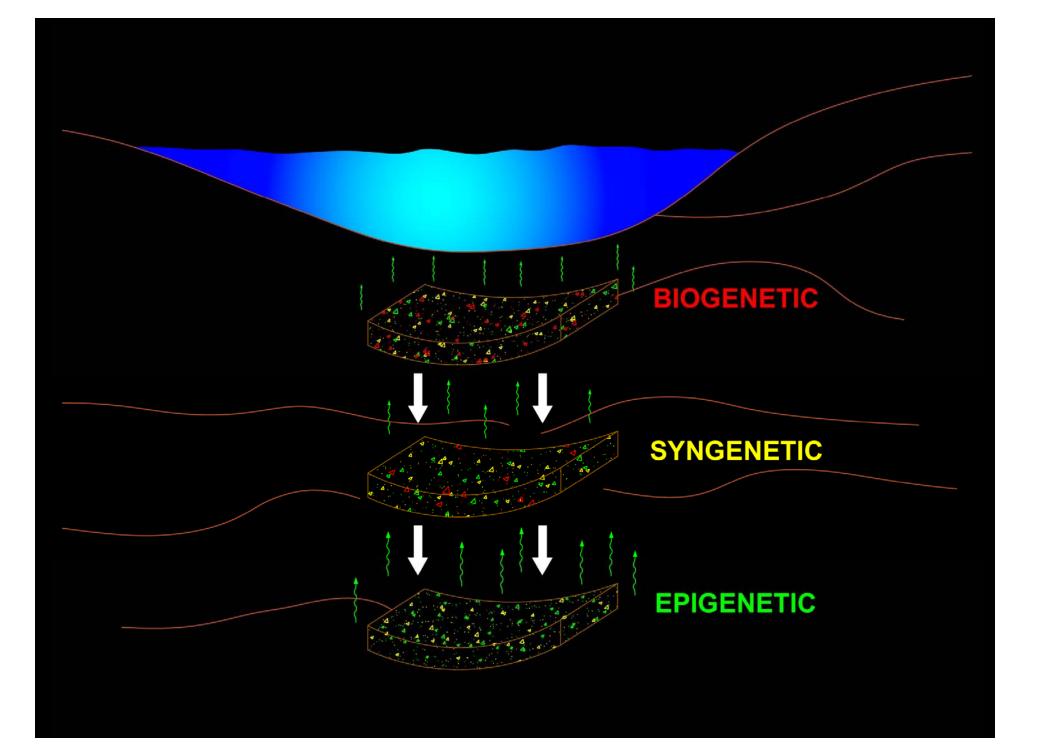


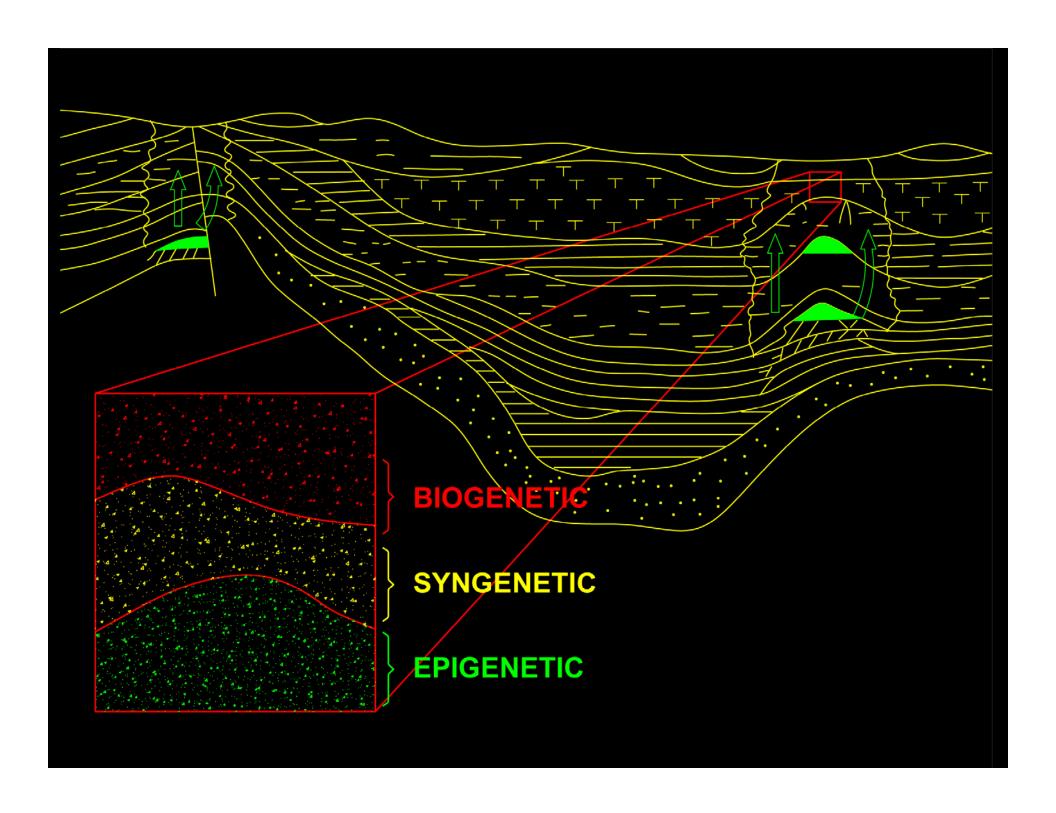
DETRITALLY DISTRIBUTED GASES EXIST

THEY APPEAR THERMAL BECAUSE THEY ARE, THEY WERE CREATED DURING ROCK FORMATION AT DEPTH, UPLIFTED AND ERODED TO MAKE SOILS

RECYCLED GASES STILL EXIST IN THESE SEDIMENTS

THESE GASES SHOULD NOT BE EXTRACTED AND MIXED WITH FREE GAS





MIGRATED GASES

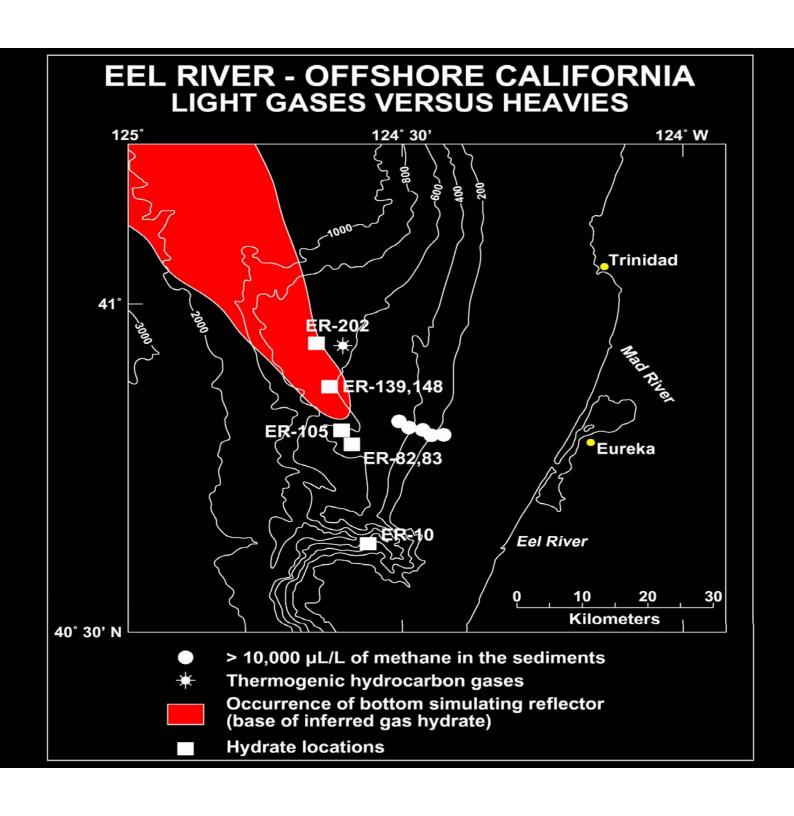
FREE GAS (IN-SITU)
HEADSPACE GASES (HEAT, VACUUM AND SOLVENT EXTRACTION)

LIGHT HYDROCARBONS C1-C4 ARE LABILE AND EASILY EXTRACTED

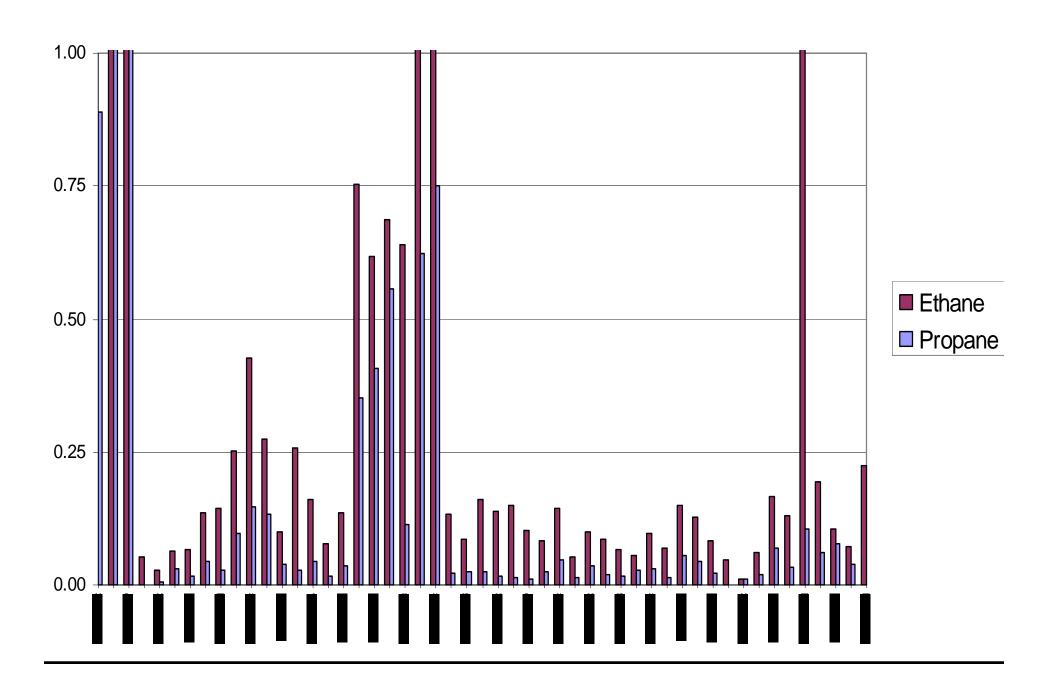
DISAGGREGATION ONLY IMPORTANT TO FREE GASES (OPEN PORE SPACE)

VACUUM, HEAT AND SOLVENT

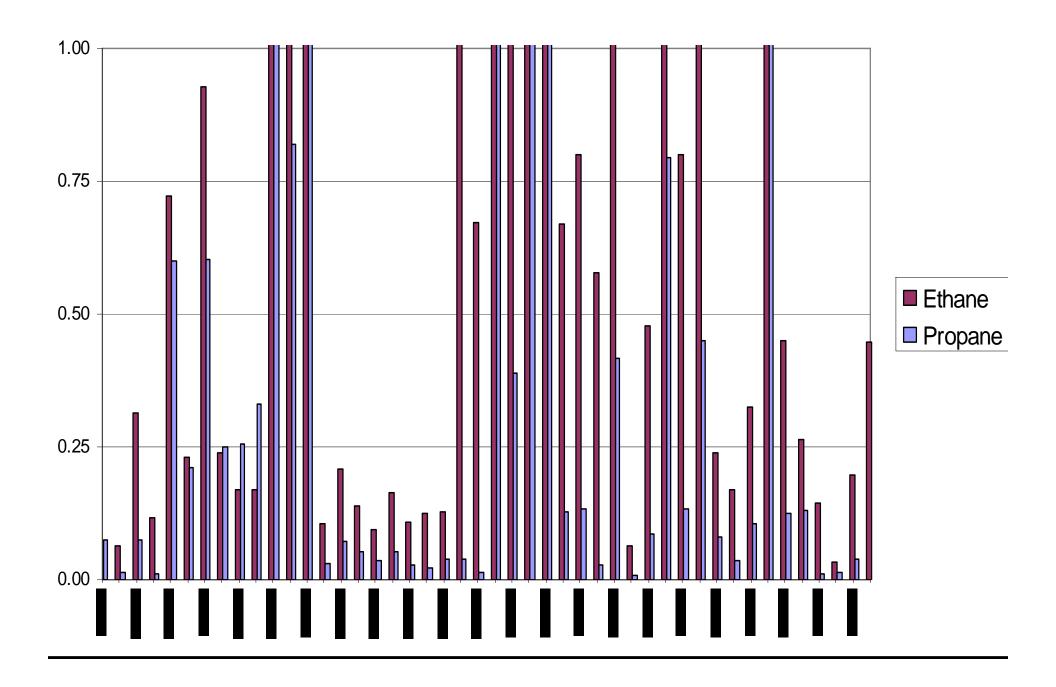
COMPOSITIONS SAME FROM 100% DOWN TO SUBPPMV

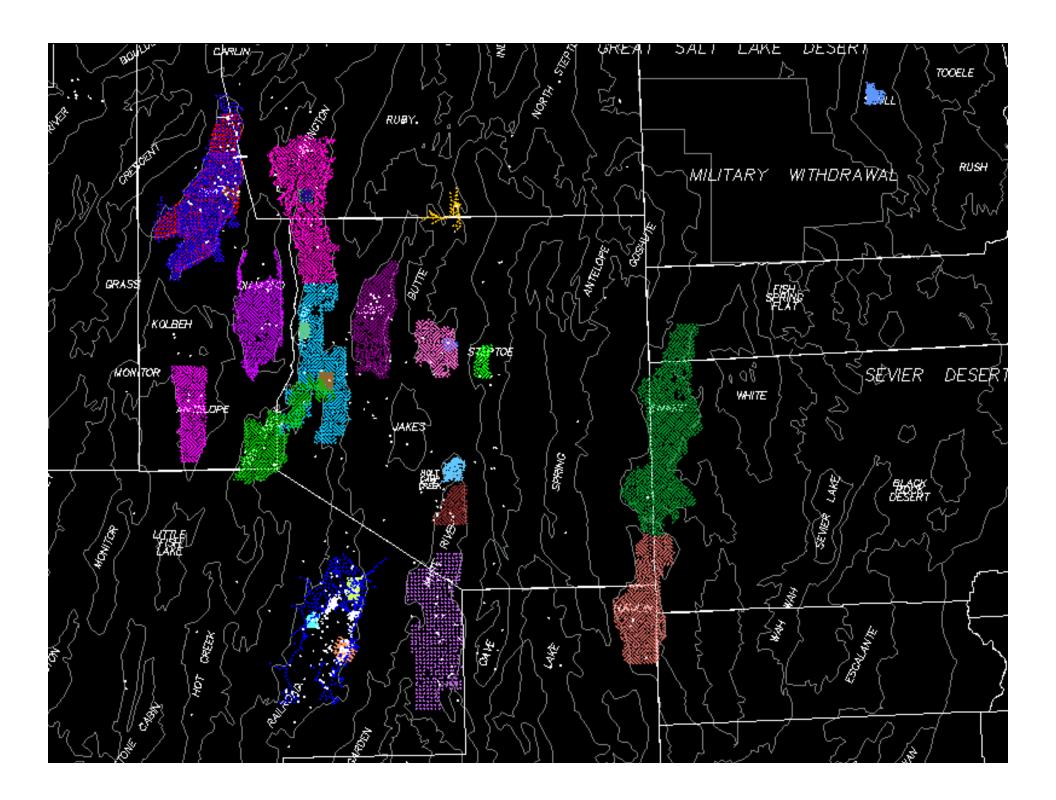


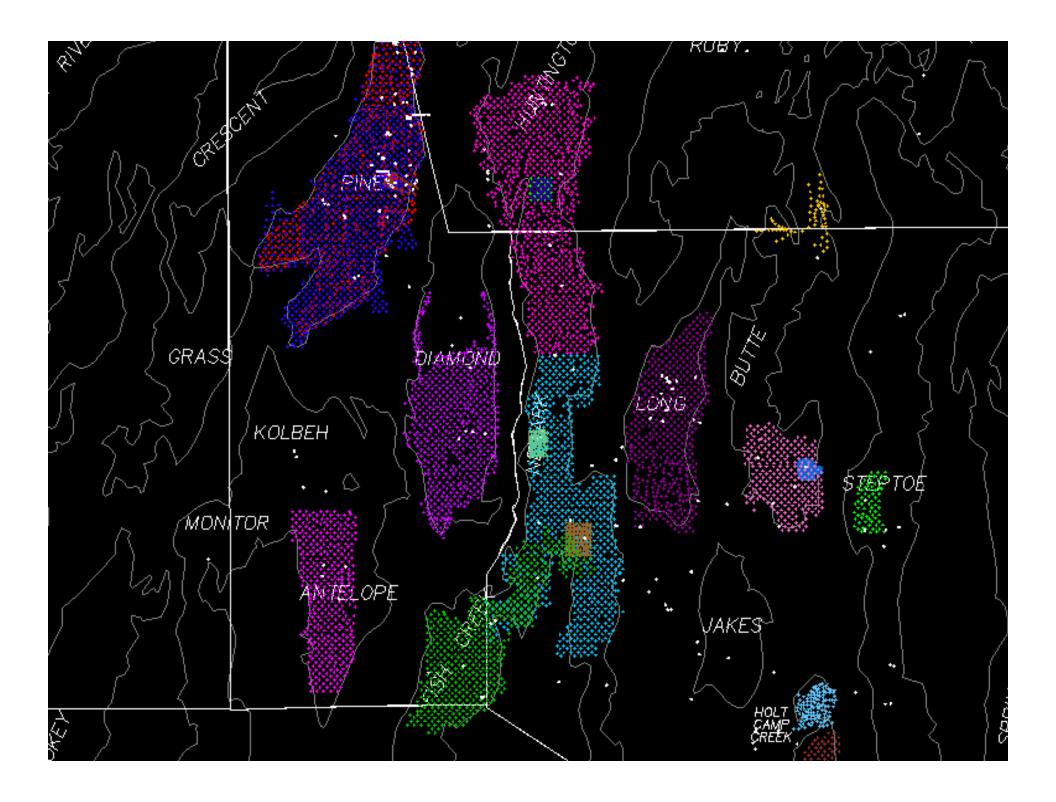
EEL River

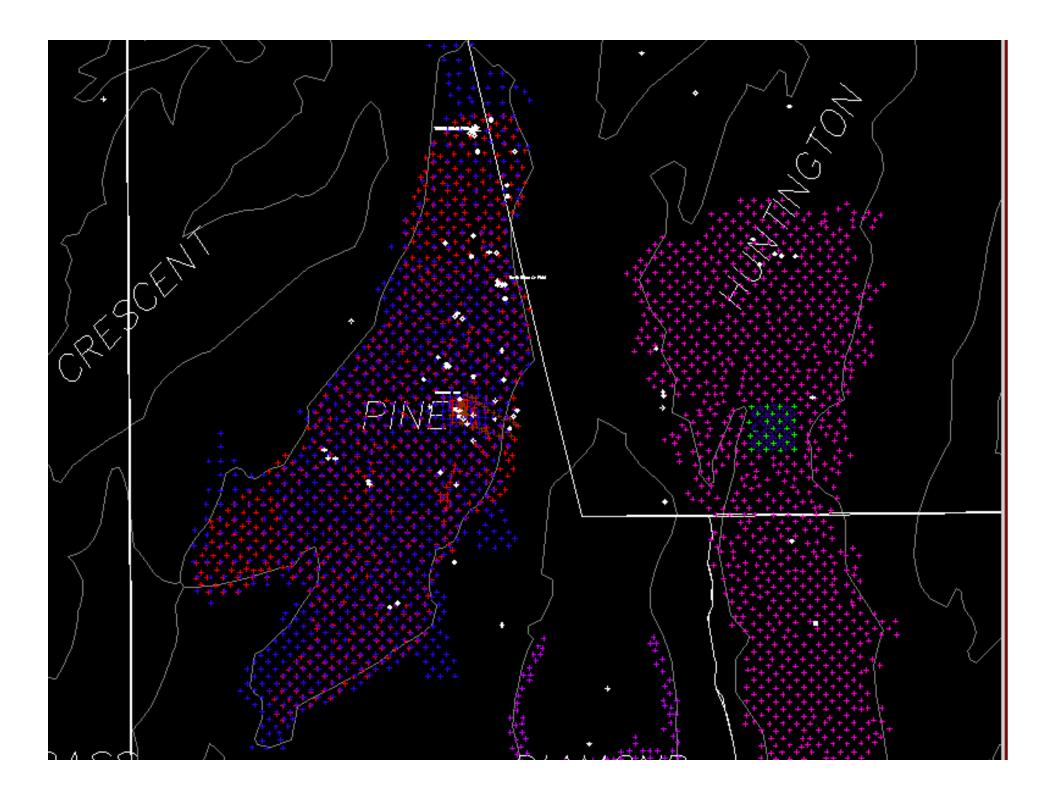


EEL River



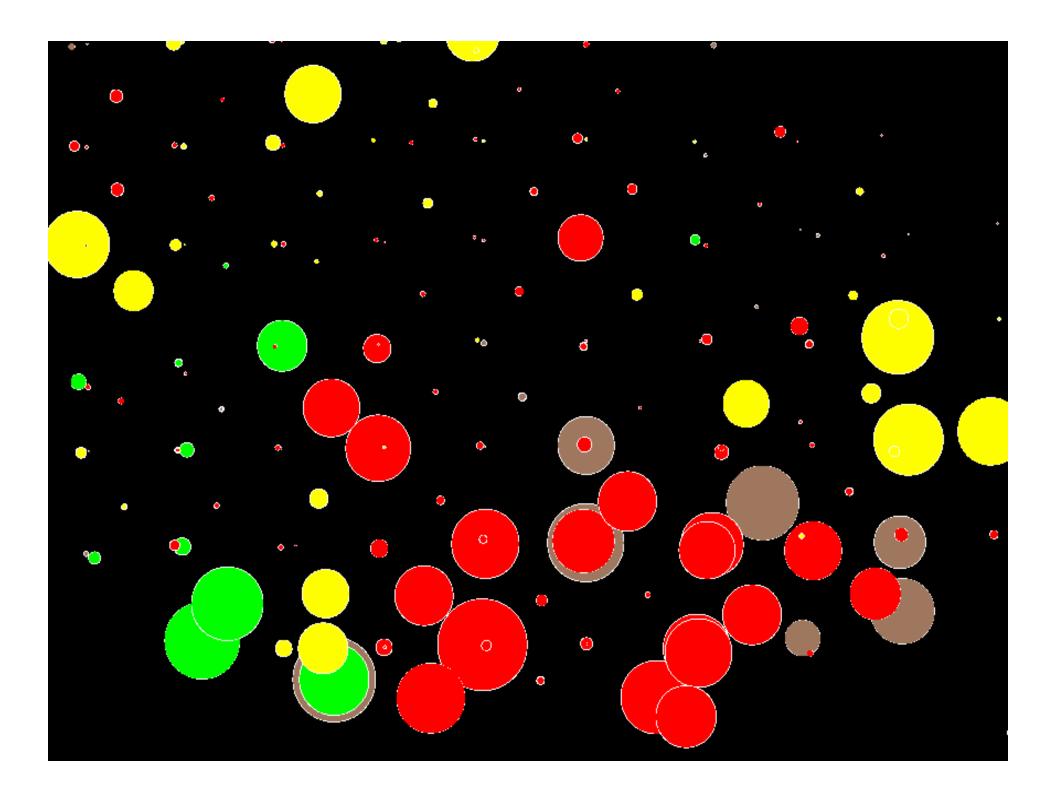


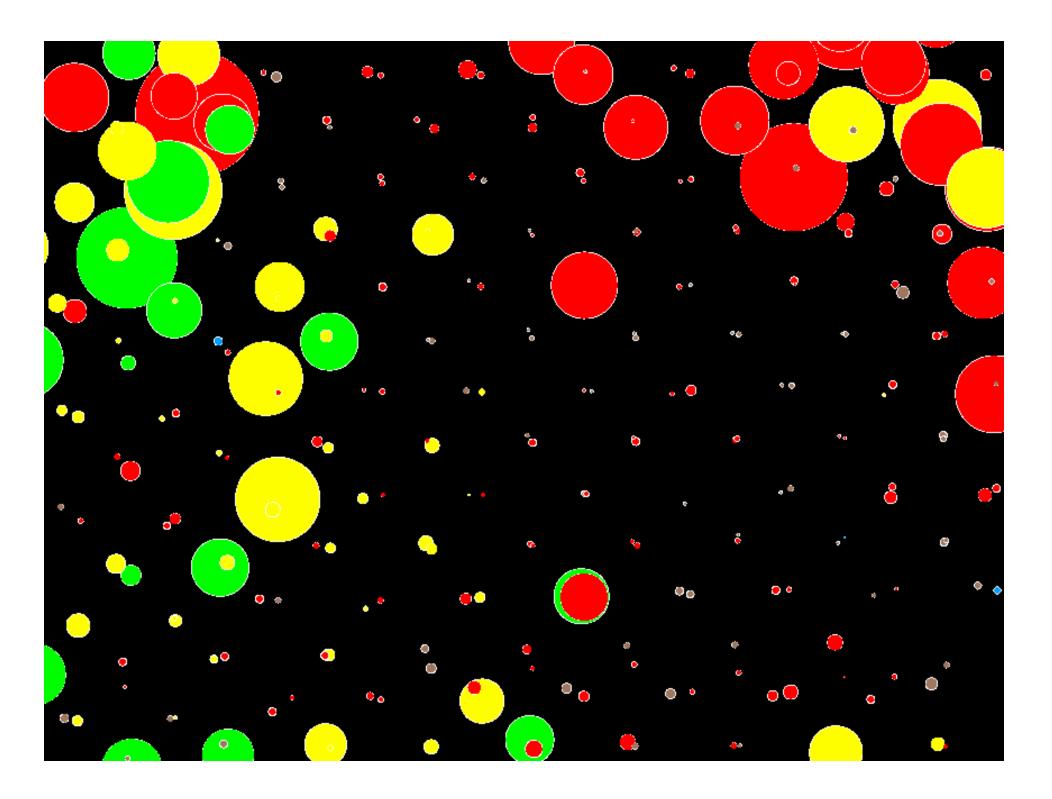


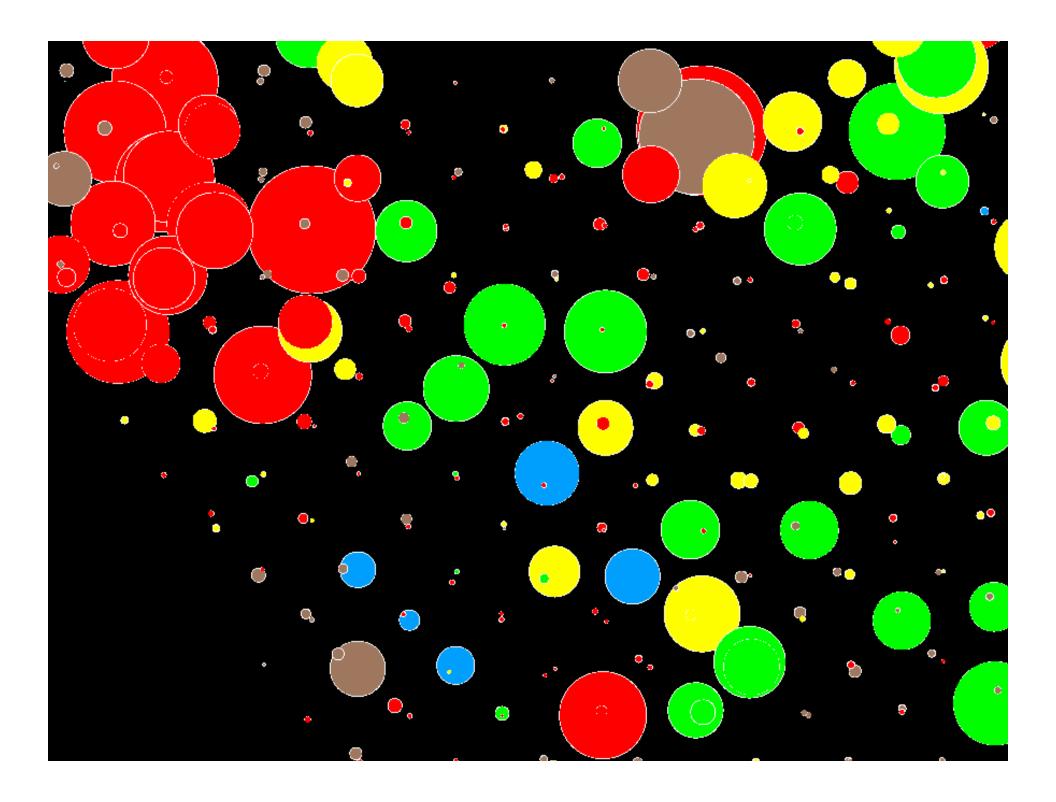


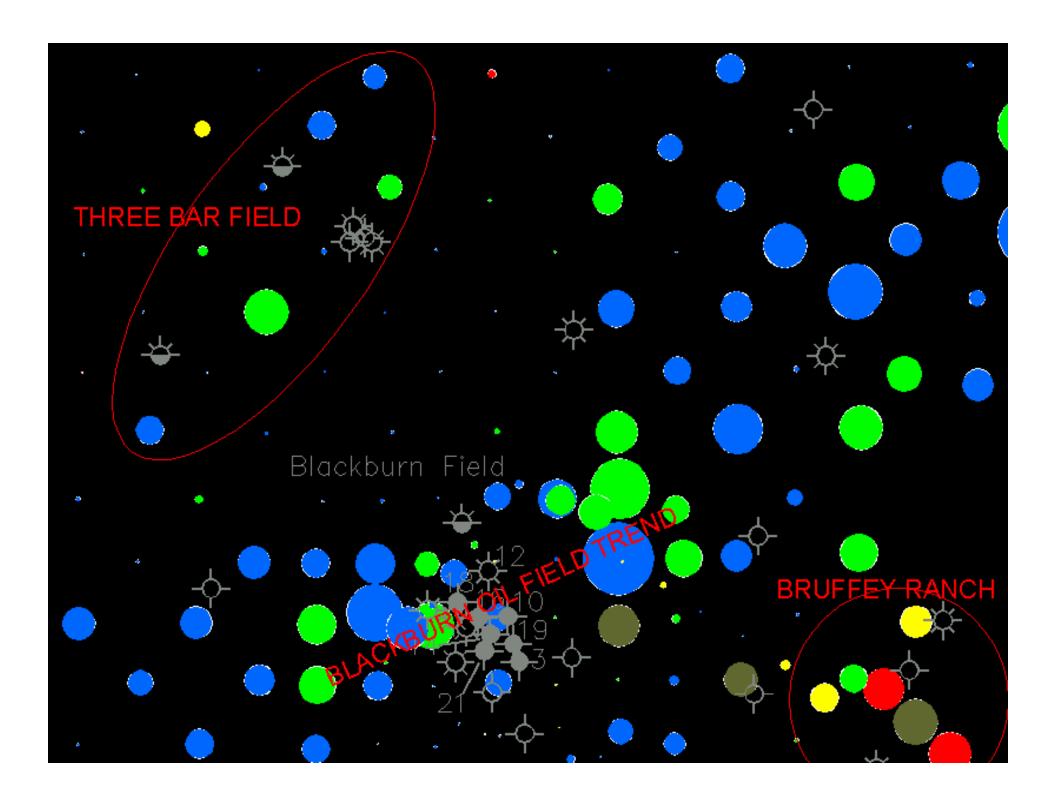
Pine Valley Data

N	Iarathon	Texaco					
1986 10	07 sites	1988 985 sit					
Methane	0.925		1.32				
Ethane	0.020		0.027				
Propane	0.015		0.016				
C1/C2	103.0		112.0				
	46.8		46.8				
	21.6		20.6				









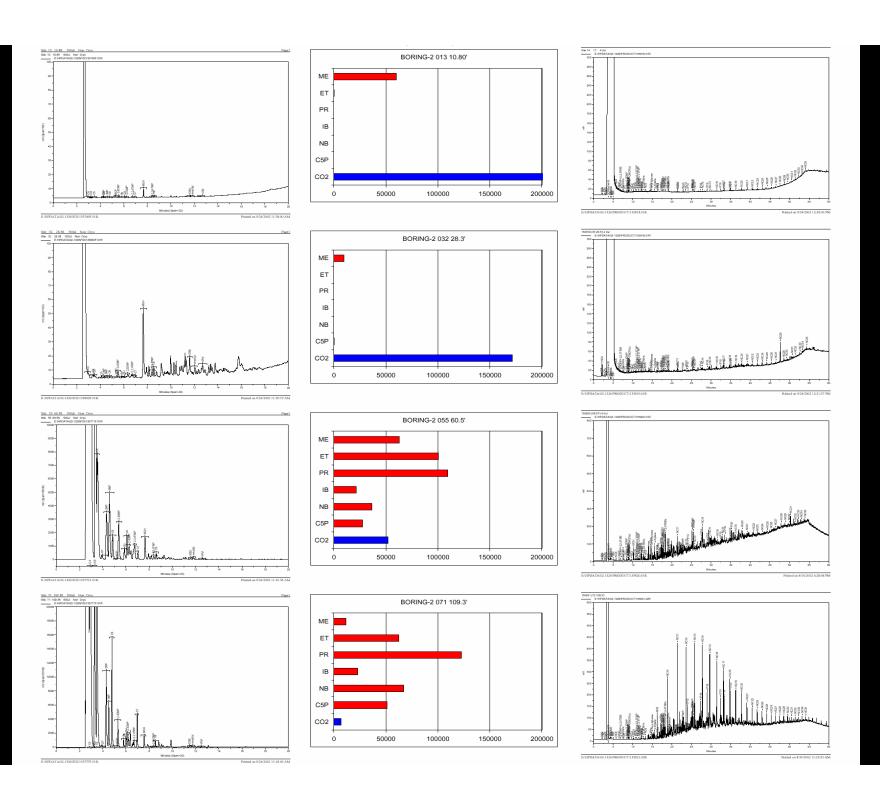
PIERCE JUNCTION SALT DOME, HARRIS COUNTY, TEXAS

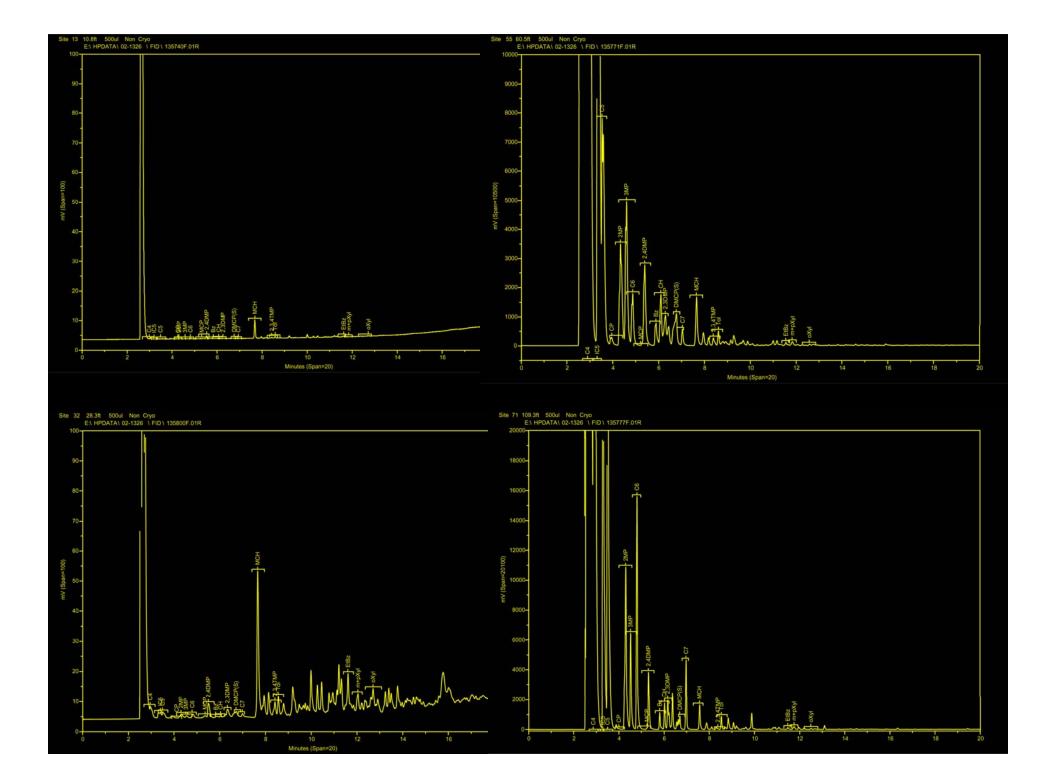
By W.F. Bowman September 8, 1927 Published by The Oil Weekly

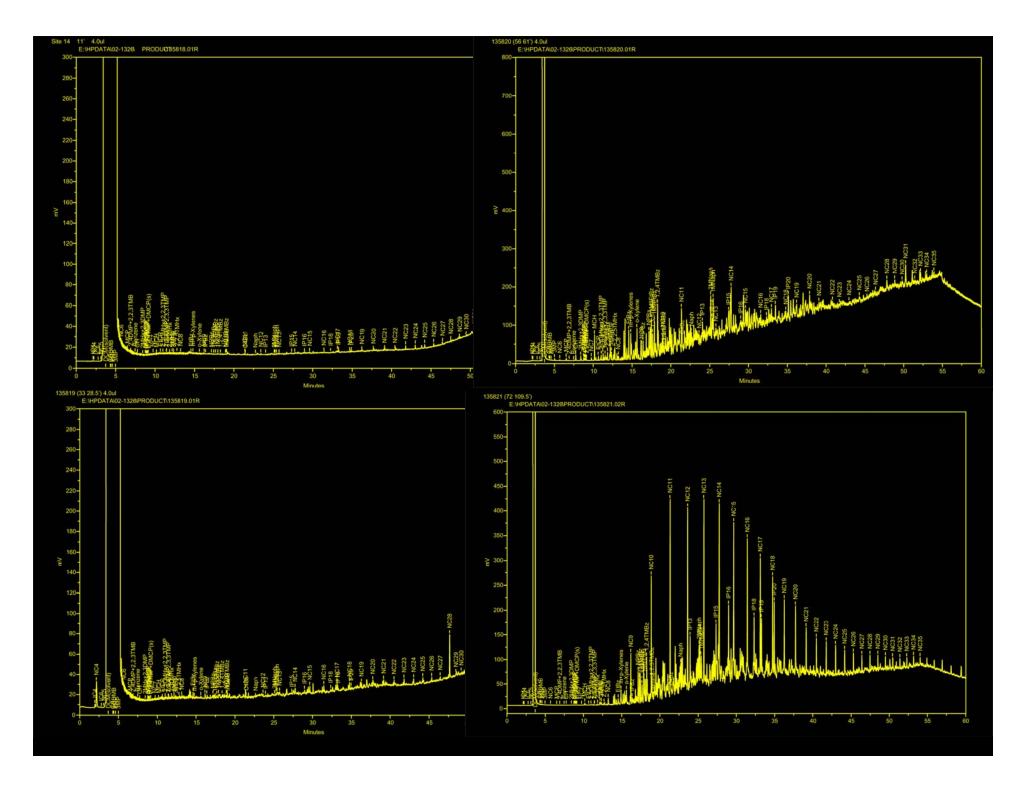
"Since the starting of operations in this area in 1901, some 35 different companies and individuals have drilled a total of about 180 wells in the area. Of this number 52 had been completed before commercial production was found by the Snowden-McSweeney Company in July of 1921".

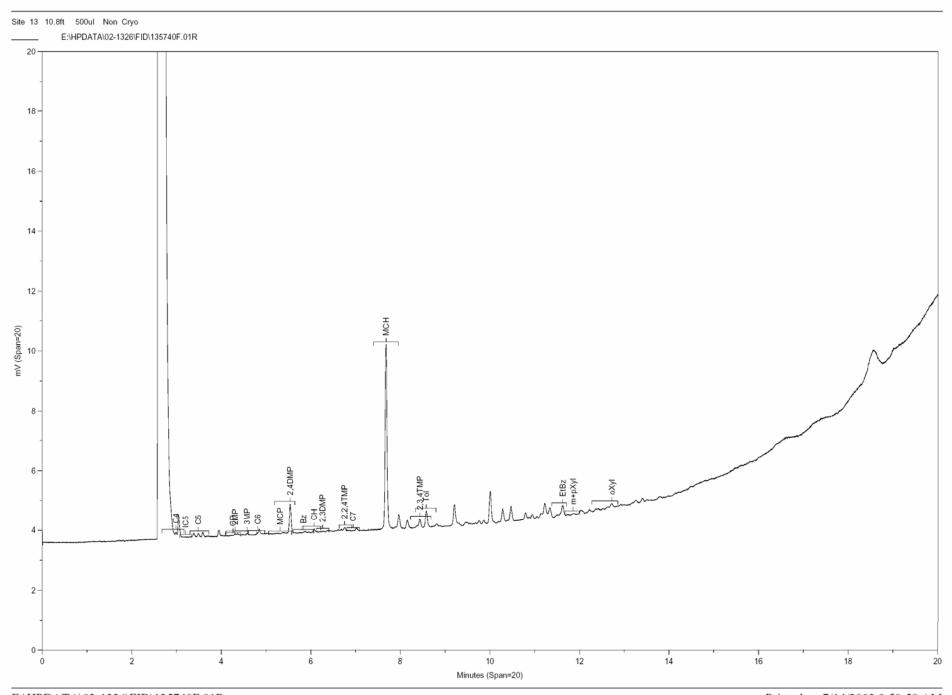
VOLATILE ORGANIC C1-C4, C5+ (ppmv), NITROGEN, OXYGEN, & CO2 (%) HYDROCARBONS

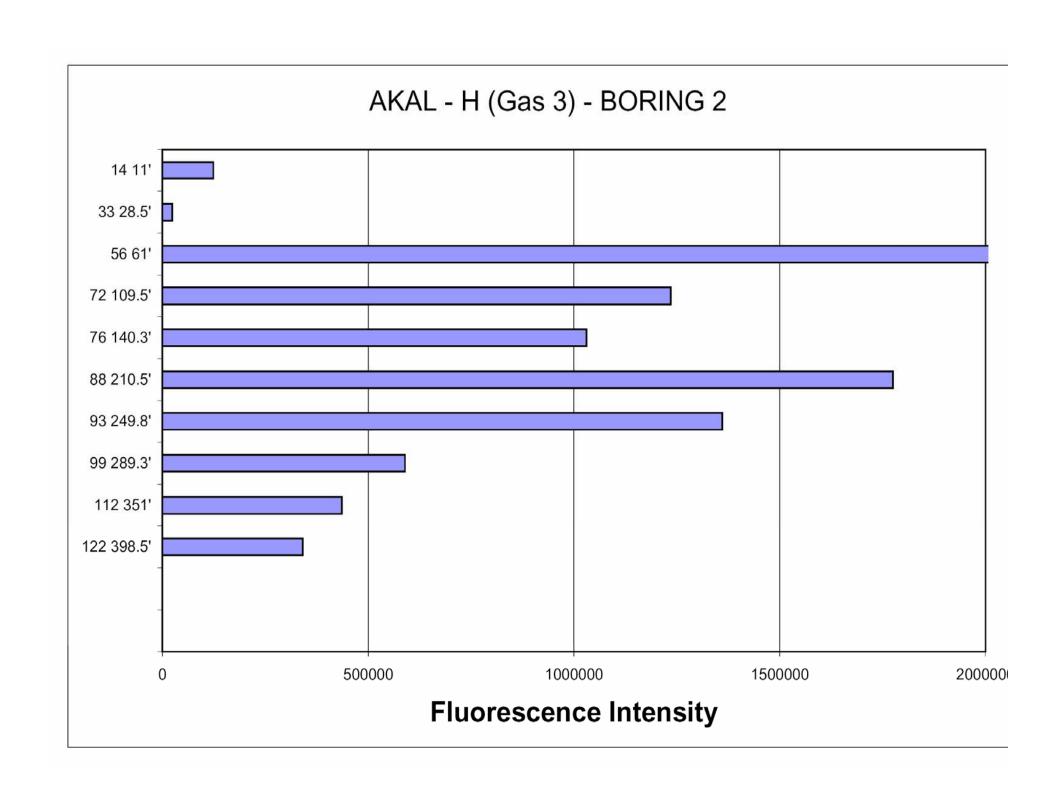
SAMPLE NO.		METHANE	ETHANE	PROPANE	I-BUTANE	N-BUTANE	C5-BZ	BZ-TL	TL-XYL	XYL+	C5+	NITROGEN	OXYGEN	CO2
AKAL-H (Gas-3)														
BORNG-2 013	10.80	59,897.9	344.875	9.754	1.188	0.671	0.5	2.3	1.5	0.5	4.8	13.63	1.69	25.6
BORNG-2 032	28.3'	9,6449	38.174	5.592	1.126	0.955	8.1	43.4	60.3	80.1	191.9	23.29	2.12	17.1
BORNG-2 043	38'	55,377.3	5,948.470	939.529	79.736	37.332	127.9	167.4	146.5	260.8	702.6	17.68	2.01	14.6
BORNG-2 048	45'	85,9796	67,031.797	59,937.941	13,682.830	9,941.155	7,2247	2,9190	1,0180	678.8	11,8404	21.05	1.98	8.4
BORNG-2 052	55'	65,0289	67,239.859	82,012.117	16,629.168	27,147.326	20,7667	6,0148	1,5116	716.1	29,0091	15.37	1.46	6.8
BORNG-2 055	60.5	62,9307 1	00,320.336	109,367.414	21,542.879	36,708.938	20,3140	5,4697	1,2006	541.8	27,5260	32.60	1.97	5.2
BORNG-2 071	109.3	11,3560	62,259.918	122,691.852	23,132.186	67,278.508	43,2785	5,6613	1,4251	688.1	51,0529	21.90	1.72	0.7
BORNG-2 077	140.5	11,1697	58,413.172	135,656.125	25,985.234	77,539.852	67,3718	6,5763	1,1320	793.8	75,8739	23.81	1.30	2.8
BORNG-2 082	170'	27,5210	74,744.047	137,256.156	25,043.521	72,245.227	64,4649	7,767.3	1,6531	1,0926	74,977.9	11.63	1.22	4.4
BORNG-2 085	190'	18,6945	67,613.500	121,553.117	22,257.410	63,120.379	64,657.7	7,8841	1,6845	1,5881	75,8144	10.49	1.30	4.2
BORNG-2 087	210'	25,1150	86,924.242	154,629.281	26,914.770	77,583.773	64,9581	7,6726	1,5949	718.3	74,9438	20.70	1.17	1.6
BORNG-2 094	250'	14,177.0	83,626.523	163,812.063	30,239.393	89,263.789	73,4431	9,0458	2,1812	1,4588	86,1289	23.20	1.73	1.5
BORNG-2 097	269.3"	42,4294	90,574.898	140,104.094	25,543.834	73,618.125	65,9537	7,0493	1,4016	486.2	74,8908	12.11	2.02	1.5
BORNG-2 100	289.5'	47,7066	99,643.219	161,661.234	29,922.691	88,259.641	73,8957	8,2481	1,8026	987.8	84,9342	28.42	2.25	0.8
BORNG-2 109	331.3'	27,9841	52,189.301	90,803.844	18,582.004	54,553.672	54,0983	6,5994	1,7523	743.4	63,1934	10.19	2.09	1.2
BORNG-2 113	351.5'	1,4407	24,176.404	94,370.023	22,387.422	70,391.734	33,7912	4,6188	1,0238	551.8	39,9856	24.04	2.32	1.6
BORNG-2 121	391.5'	2,8455	28,277.949	71,186.617	14,081.453	42,353.559	46,2762	6,5191	1,387.2	822.9	55,0053	22.56	2.15	2.9

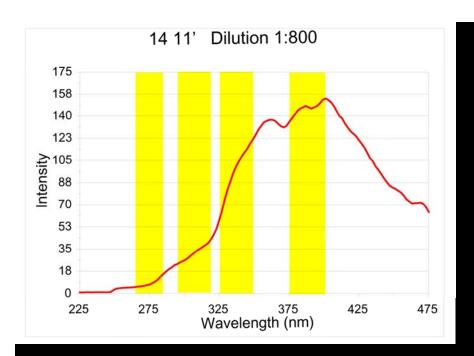


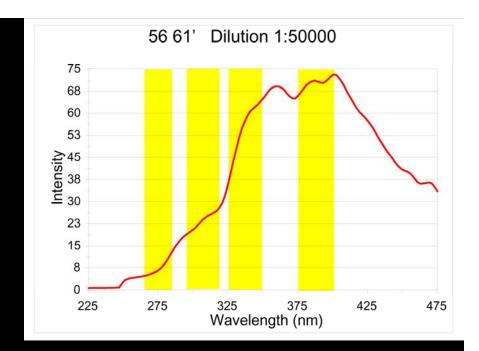


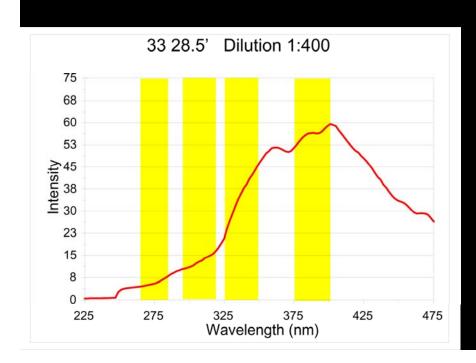


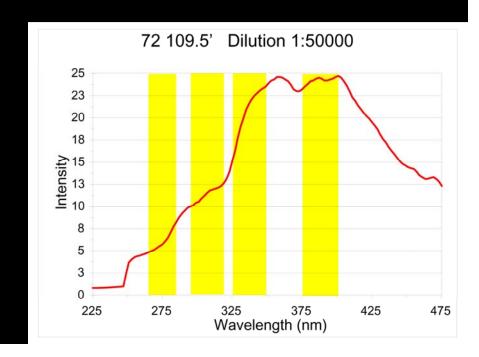


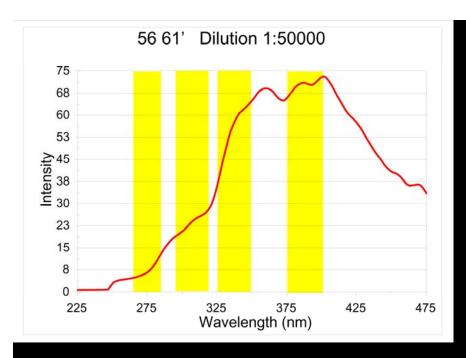


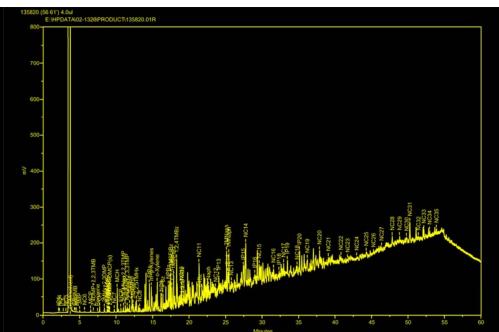


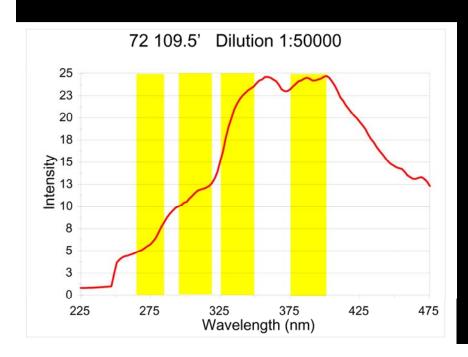


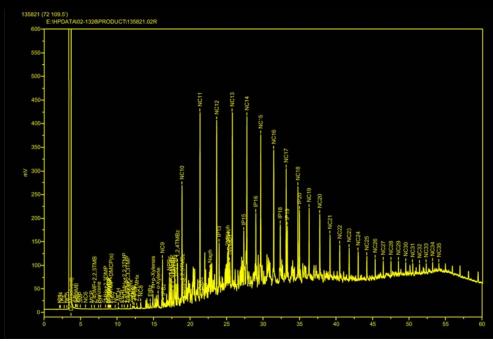


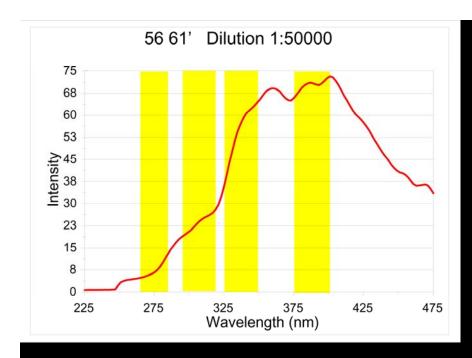


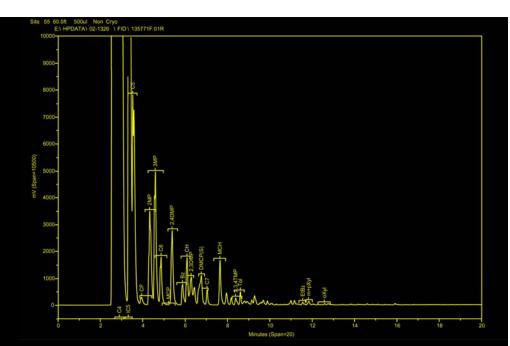


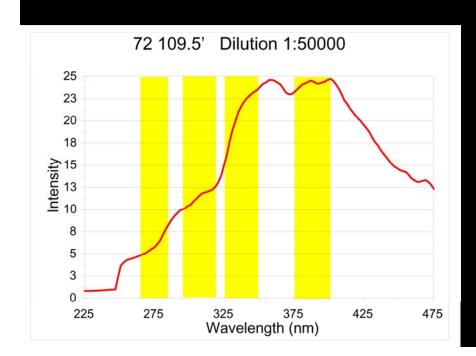


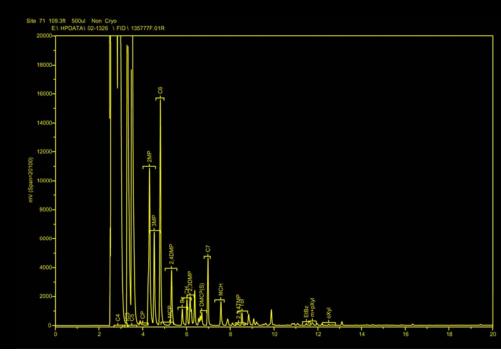












CONCENTR	ATION AND IS	оторіс сс	MPOSITION	OF NATURAL	GAS HYD	ROCARBONS
DEPTH (m)	METHANE*	ETHANE*	PROPANE*	ISOBUTANE (ppm)	BUTANE (ppm)	ISOPENTANE (ppm)
					Core IG-47-2	-7
1.1	5,900	142	Tr	1,100	ND	ND
2.3	273,000	608	ND	99	ND	ND
	-56.5					
3.7	105,000	290	Tr	92	ND	ND
	-54.2					
5.7	196,000	4,400	561	273	775	538
	-44.7					
7.4	645,000	9,980	1,440	397	3,080	1,130
	-61.9					
7.6	663,000	10,600	1,510	334	2,880	906
	-61.8					
9.2	659,000	22,300	9,630	1,800	3,770	774
	-59.7	-28.6	-24.5			
10.5	439,000	14,200	5,830	1,104	3,525	963
	-61.0				010-47-0	40
0.0	242 000	22.000	92 600		Core IG-47-2-	
8.0	343,000	32,000	83,600	21,000	3,680	257
4.5	-48.1	-28.6	-24.5	0.000	E 0.40	2.050
1.5	45,500	4,340	11,400	9,320	5,240	3,850
	-30.5	0.000		40.400		0.000
3.6	18,700	9,890	25,800	13,100	5,530	2,660
	-53.7					