SUMMARY OF MERCURY INJECTION TEST RESULTS

Company: University of Colorado at Boulder
Formation: Dolomite
County, State: Hodgeman, Kansas

Well: Oasis No. 5 Deutsch
Field: Bindley

Sample Identification:	5	6
Depth, feet:	4664.1	4673.0
Permeability to Air, md:	1.5	3.2
Porosity, percent:	17.0	17.4

Injection Pressure, psia	Pore Aperture Radius, microns	Mercury Saturation, percent pore space	
3	35.5	0.0	0.0
6	17.7	0.0	0.0
9	11.8	0.0	0.0
12	8.87	0.0	0.0
15	7.09	0.0	0.0
18	5.91	0.0	0.0
21	5.07	0.0	4.8
24	4.44	0.0	8.9
27	3.94	0.0	14.9
30	3.55	0.0	19.7
40	2.66	7.1	32.6
60	1.77	19.6	46.3
80	1.33	27.9	55.4
100	1.06	33.3	60.2
200	.532	48.5	70.2
300	.355	55.0	74.2
500	.213	62.7	78.0
750	.142	67.8	80.6
1000	.106	69.9	82.7
1250	.085	72.2	84.0
1500	.071	74.2	84.5
1750	.061	75.7	85.0
2000	.053	77.1	85.7

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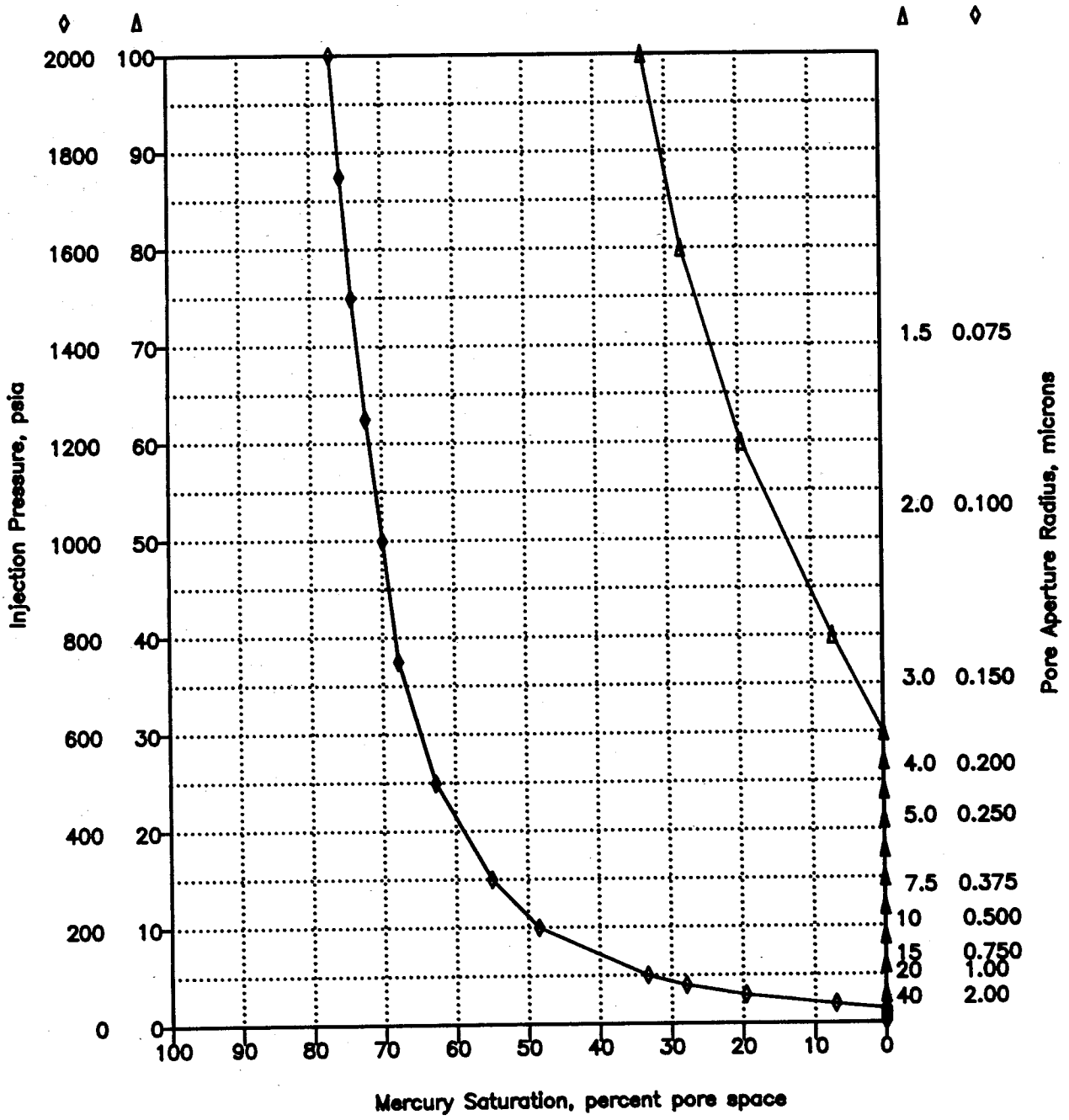
Injection Pressure vs Mercury Saturation

UNIVERSITY OF COLORADO AT BOULDER
OASIS NO. 5 DEUTSCH WELL
BINDLEY FIELD
HODGEMAN COUNTY, KANSAS

SAMPLE ID:	5
SAMPLE DEPTH, feet:	4664.1
PERMEABILITY TO AIR, md:	1.5
POROSITY, percent:	17.0



Pore Aperture Radius vs Mercury Saturation

UNIVERSITY OF COLORADO AT BOULDER
OASIS NO. 5 DEUTSCH WELL
BINDLEY FIELD
HODGEMAN COUNTY, KANSAS

SAMPLE ID:	5
SAMPLE DEPTH, feet:	4664.1
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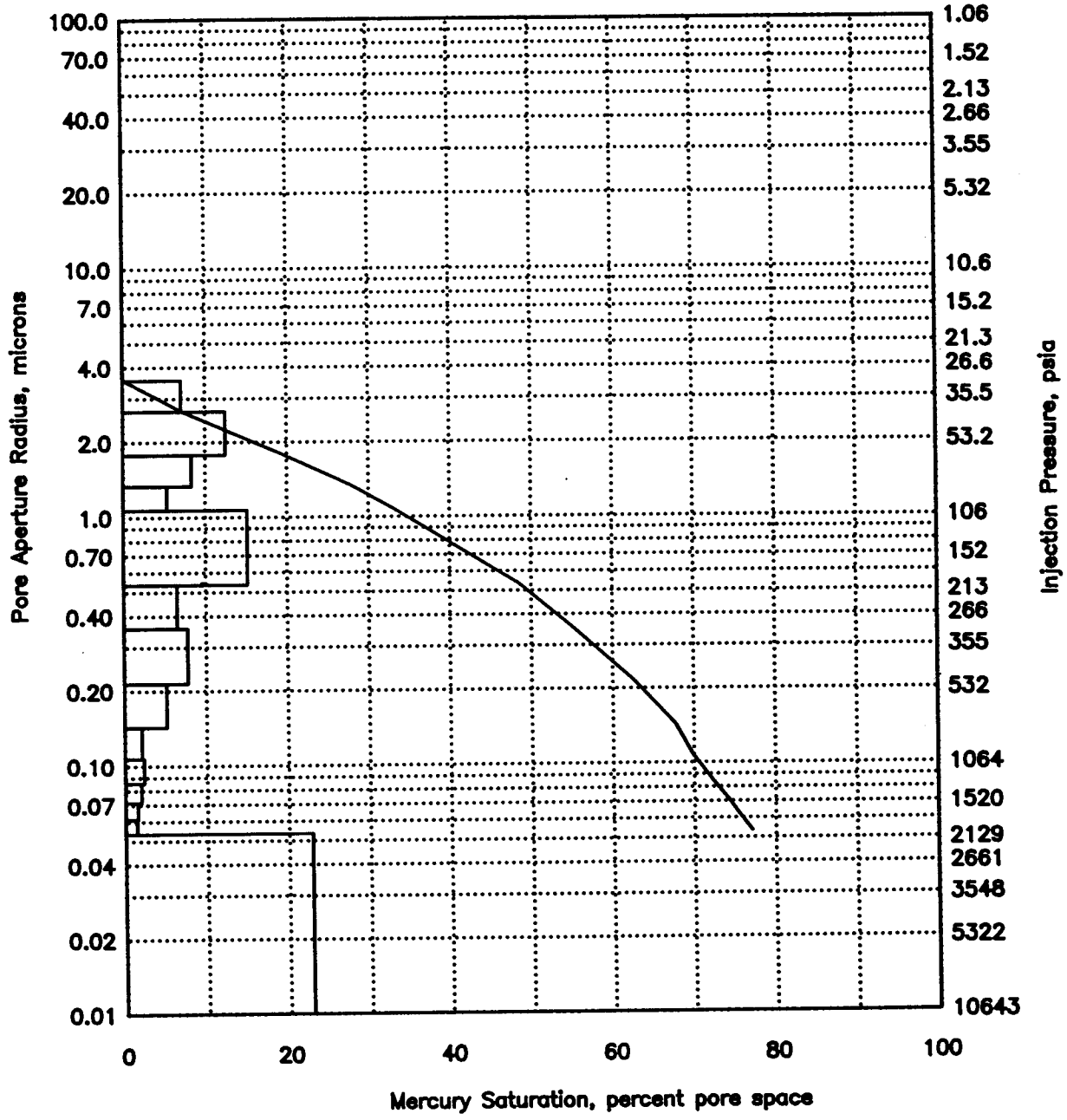
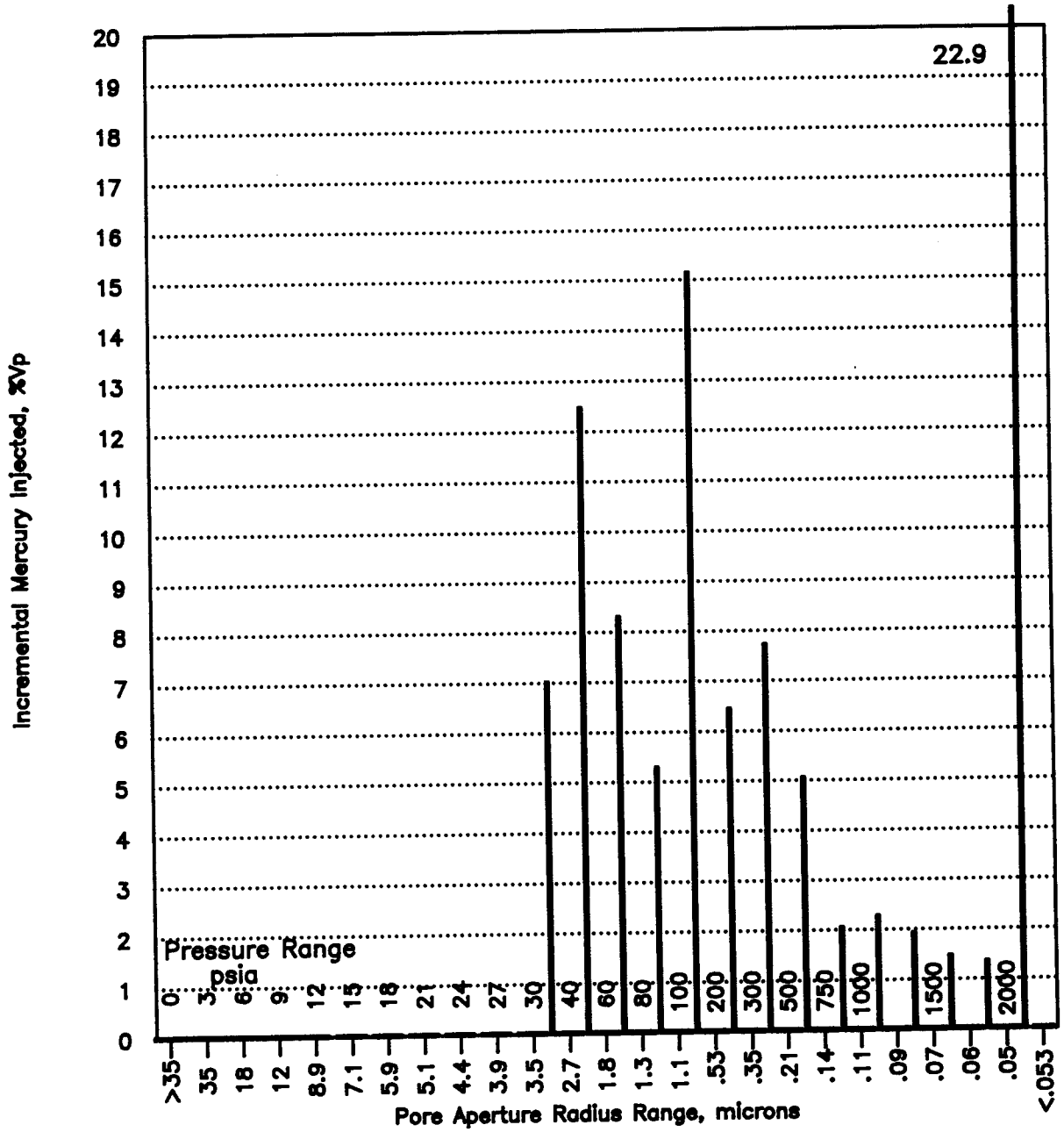


PORE PRINT

Pore Space Controlled by Pore Apertures

UNIVERSITY OF COLORADO AT BOULDER
OASIS NO. 5 DEUTSCH WELL
BINDLEY FIELD
HODGEMAN COUNTY, KANSAS

SAMPLE ID:	5
DEPTH, feet:	4664.1
AIR PERMEABILITY, md:	1.5
POROSITY, percent:	17.0



Injection Pressure vs Mercury Saturation

UNIVERSITY OF COLORADO AT BOULDER
OASIS NO. 5 DEUTSCH WELL
BINDLEY FIELD
HODGEMAN COUNTY, KANSAS

SAMPLE ID:	6
SAMPLE DEPTH, feet:	4673.0
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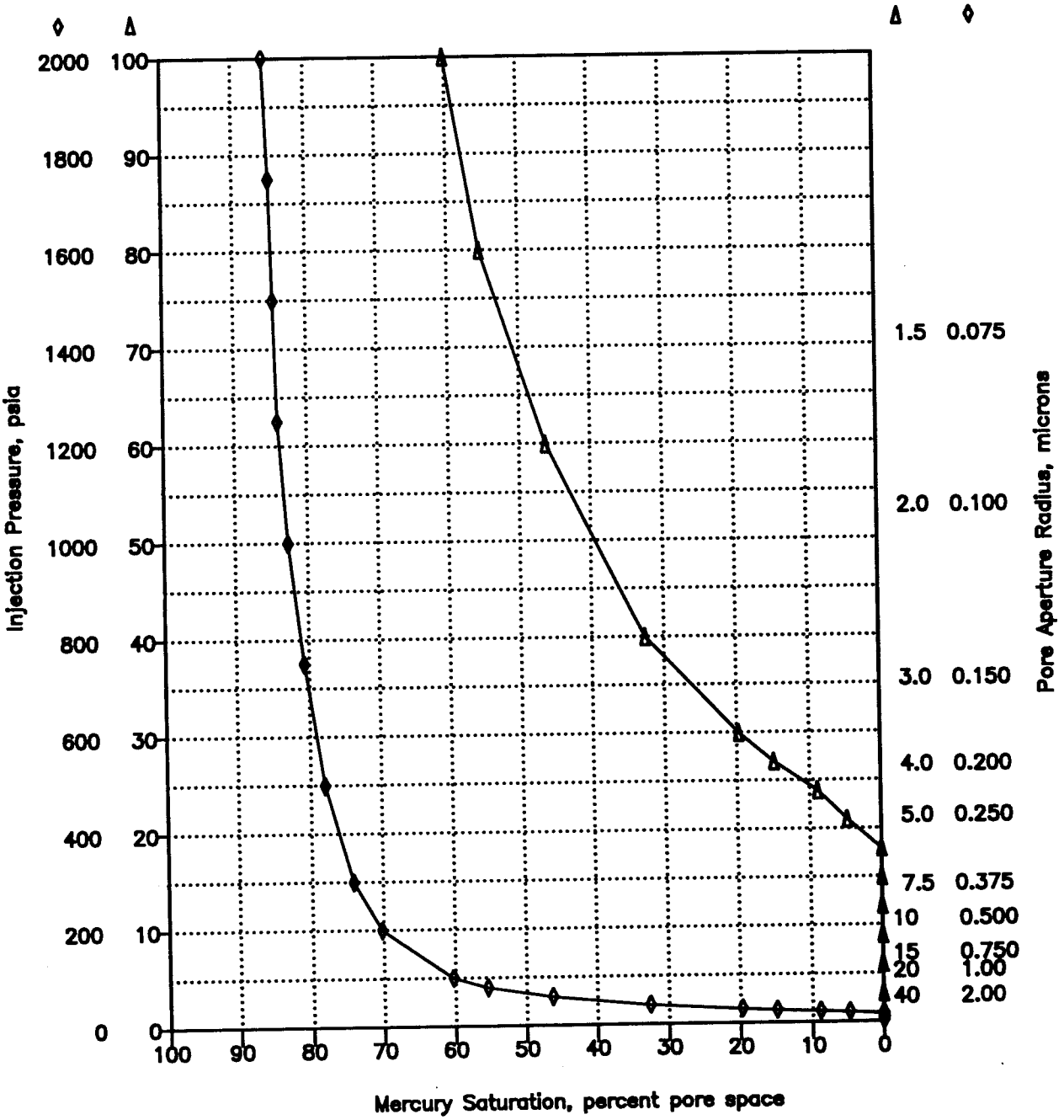
POROSITY, percent:	17.4



Pore Aperture Radius vs Mercury Saturation

UNIVERSITY OF COLORADO AT BOULDER
OASIS NO. 5 DEUTSCH WELL
BINDLEY FIELD
HODGEMAN COUNTY, KANSAS

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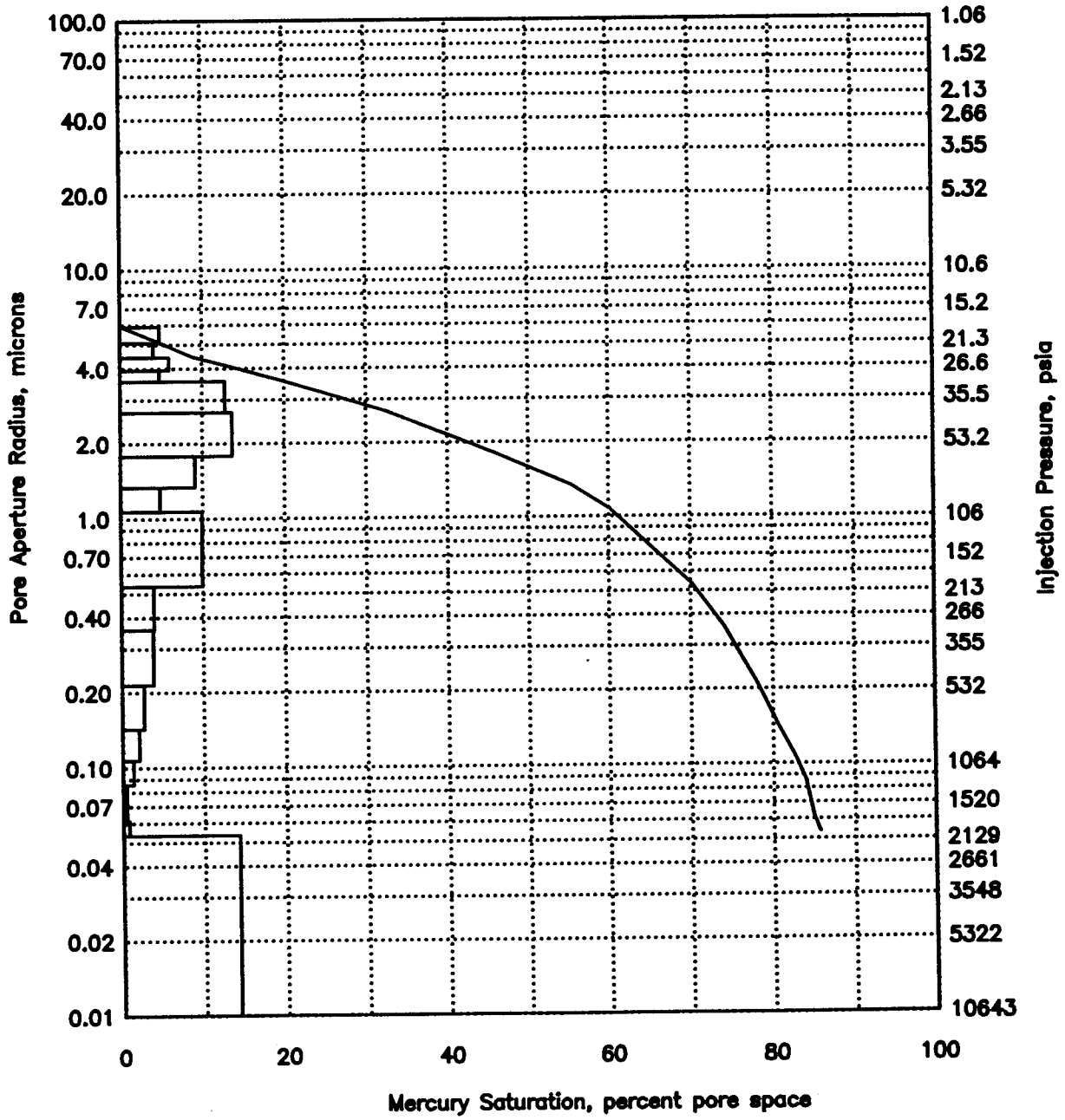

PORE PRINT

Pore Space Controlled by Pore Apertures

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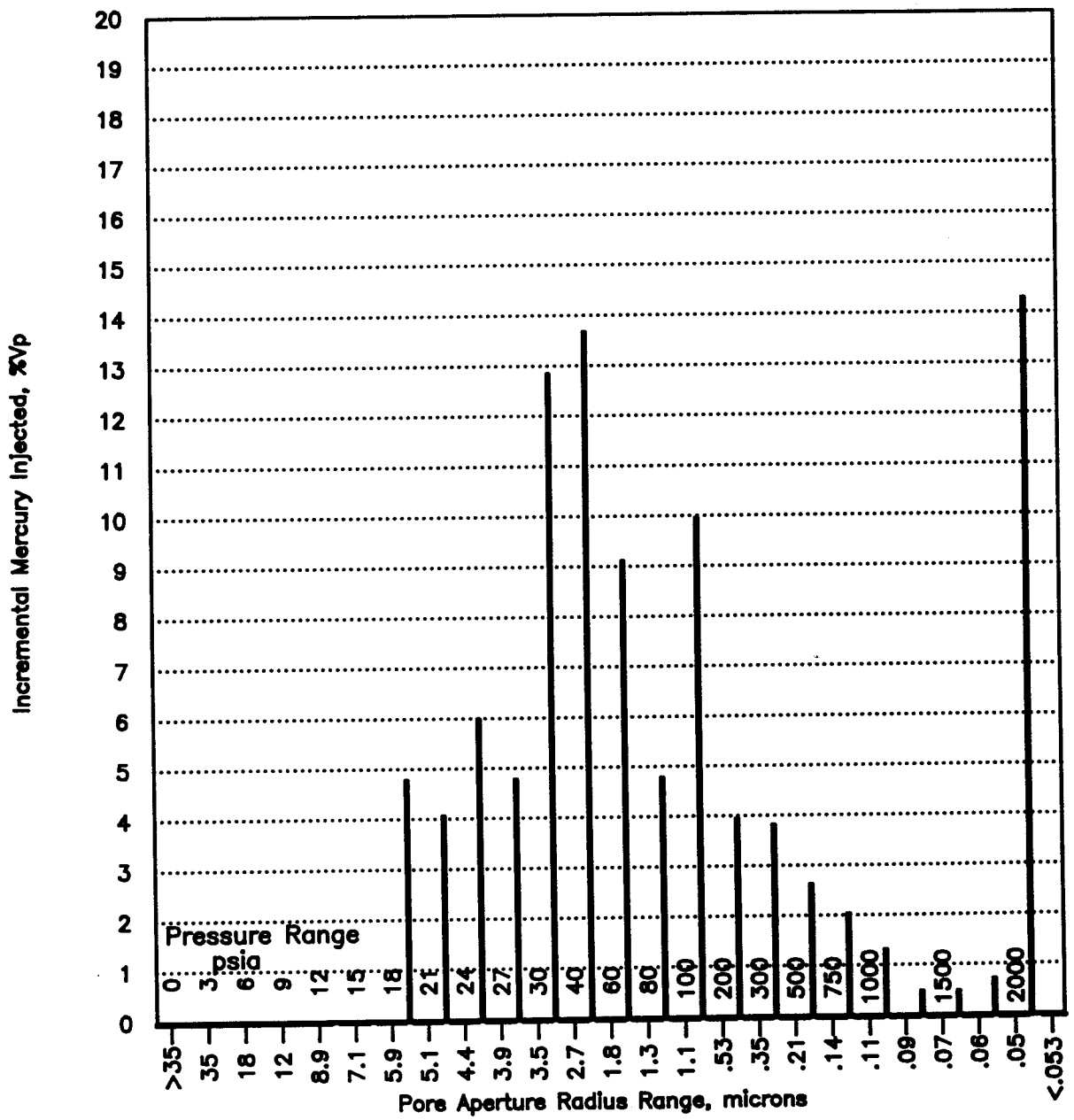


Spot CSWSE Loc. 33-21-24 W Code 15 Boxes 1341-51

Oper. Oasis No. 5 Lse Deutsch Field Bindley County Hodgeman

Stratigraphy | Core Recov. | Samples | Unit No. | Depth | Lithology | Contact | Color | Depositional Texture | Grain Size or Allochem or Dolomite x'l | Cement | Porosity | Permeability | Fossils/Grain | Accessory Constituents | Bedding: Horizontal / Cross Lamin. | Sedimentary Structures | Interpreted Depos. Envir. | Parts. | Tests | Prod. Data | Remarks

Core Recov.: Photo; Chemical; X Ray; Peel; Thin Section

Contact: Mudstone; Wackestone; Packstone; Grainstone; Boundstone

Depositional Texture: Silt; v. fine; fine; medium; coarse; v. coarse; granule; >gran.

Cement: Small; Large; v. large; Intepart; Intrapart; Transpar.

Porosity: .01 – 1.0; 1.0 – 10.0; 10.0 – 100; 100 – 1000; >1000

Permeability: Fen. Stigmaria; Echinoderms; Brachiopods; Forams; Sponge Spic. (Silt)

Fossils/Grain: Pellets; Pyrite; Glauconite; Quartz; Feldspar; Dolomite

Accessory Constituents: massive; thick; medium; thin; lamin; wavy; Interstrat.; Flaser

Bedding: Horizontal / Cross Lamin.: Large scale sets; Medium; Small; Low-Angle; Ripple

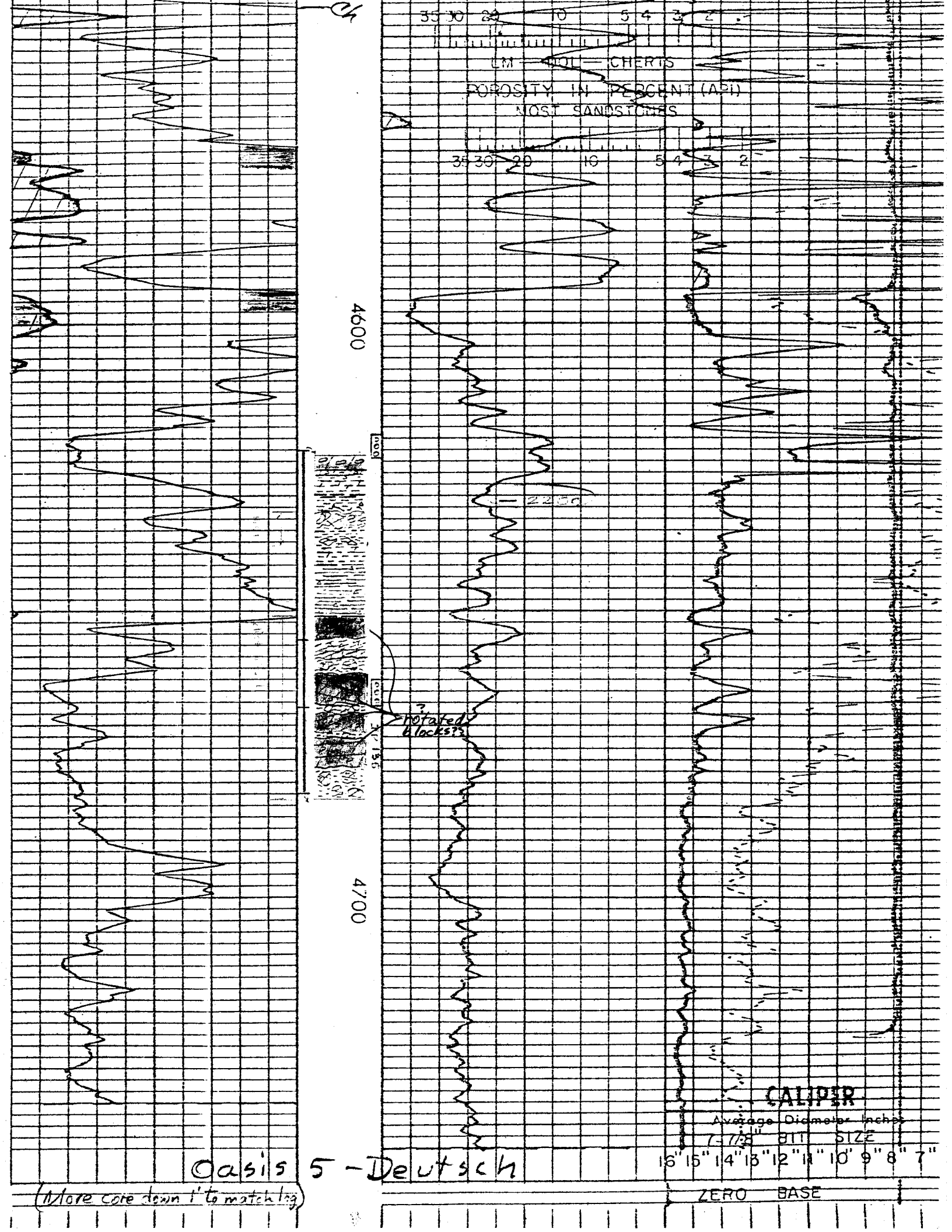
Sedimentary Structures: flank; Bdy. mound flank and ?; Collapse Breccia

Interpreted Depos. Envir.: Bdy. mound

Remarks: not seen before; chit, pseud. shy.?; chit, pseud. shy.?; dol. clasts in gn. Sh. matrix (Condemn.); fr. all stn. in vugs in chit, pseud. shy (?); chit, pseud. shy.?; gy. Sh. is carb.; incip. breccia; mottles look like fenestrae but not open. chit, pseud. shy.?; buy oil stn. need oil stn.; need oil stn.; incip. breccia; Mud. oil stn.; Breccia (vugs, collapse?)

Lithology: Sh; grd; grd sh; grd sh; grd; grd; Alt.; Sh; Sh; Sh; Sh; Sh; Sh; Sh

Color: wh/gy – olgy; M.gn.gy; gn; dk.gy; gn; gn.gy; dk.gy; gn; dk.gy; dk.gy; grn.brn; tan; dk.gy.gy; grn.brn; gn.gy; gn; gn; grn.brn; gn.gy; grn.brn; gn; gn; g


35 30 20 10 5 4 3 2
LM — DOL — CHERTS
POROSITY IN PERCENT (API)
MOST SANDSTONES
35 30 20 10 5 4 3 2
4600
4700
rotated blocks?
CALIPER
Average Diameter Inches
7 7/8" BIT SIZE
16" 15" 14" 13" 12" 11" 10" 9" 8" 7"
ZERO BASE
Oasis 5 - Deutsch
(More core down 1' to match log)