

ATTACHMENT TO ACO-1

API #15-015-23972-0000

KNOX A-55

1425'FNL, 1800'FWL

Sec. 15-25S-05E

Butler County, KS

	Geo Samples KB 1335	Log Tops KB 1335
Admire 550'	563 +772 PSO	569 +766
Admire 650	693 +642 PSO	688 +647
Burlingame	842 +493	841 +494
White Cloud Lm	930 +405	929 +406
White Cloud Sd	942 +393	944 +391
Topeka	1098 +237	1097 +238
Oread	1423 -88	1424 -89
Heebner	1459 -124	1458 -123
Douglas	1490 -155	1479 -144
Lansing	1731 -396	1731 -396
Lansing Base		1866 -531
Kansas City	2023 -688	2021 -686
Stark	2126 -791	2125 -790
B/KC	2191 -856	2189 -854
Checkerboard	2265 -930	2261 -926
Hepler Sand	2281 -946 GSO	2278 -943
Altamont	2311 -970	2304 -969
Pawnee		2353 -1018
Cherokee	2399 -1064	2397 -1062
Ardmore Lm	2469 -1134 -59'low	2466 -1131
Miss		2501 -1166
Miss Chert	2505 -1170 SO	2506 -1171
Base/Miss Chert		2555 -1220
PTD	2560 -1225	2559 -1224

DST #1 2476-2550 Zone: MISS CHERT(2505-2550)

Times: 30-45-45-60

1st open: Surface blow, increased to 3.25" No BB

2nd open No blow, increased to 1"

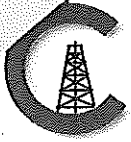
Rec.: 70' drilling mud

Tool Sample: 100% mud.

IHP: 1229 FHP: 1223

IFP: 12-30 FFP: 32-52

ISIP: 800 FSIP: 759 TEMP: 96 degrees F



CONSOLIDATED
Oil Well Services, LLC

APR 28 2013

REMIT TO
Consolidated Oil Well Services, LLC
Dept. 970
P.O. Box 4346
Houston, TX 77210-4346

MAIN OFFICE
P.O. Box 884
Chanute, KS 66720
620/431-9210 • 1-800/467-8676
Fax 620/431-0012

INVOICE

Invoice # 258241

Invoice Date: 04/24/2013 Terms: 0/0/30,n/30

Page 1

VESS OIL CORPORATION
1700 WATER FRONT PKWAY BLD 500
WICHITA KS 67206
(316) 682-1537

KNOX A #55
38596
15-25-5
04-20-13
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	150.00	14.9500	2242.50
1102	CALCIUM CHLORIDE (50#)	400.00	.7400	296.00
1107	FLO-SEAL (25#)	50.00	2.3500	117.50
Description		Hours	Unit Price	Total
467	CEMENT PUMP (SURFACE)	1.00	825.00	825.00
467	EQUIPMENT MILEAGE (ONE WAY)	.00	4.00	.00
681	MIN. BULK DELIVERY	1.00	350.00	350.00

Parts:	2656.00	Freight:	.00	Tax:	173.97	AR	4004.97
Labor:	.00	Misc:	.00	Total:	4004.97		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed _____ Date _____

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650

CONSOLIDATED
Oil Well Services, LLC

MAY 10 2013

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INVOICE

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Invoice Date: 04/30/2013 Terms: 0/0/30,n/30

Page 1

VESS OIL CORPORATION
1700 WATER FRONT PKWAY BLD 500
WICHITA KS 67206
(316) 682-1537

KNOX A #55
38598
15-25-5
04-25-13
KS

Part Number	Description	Qty	Unit Price	Total
1126A	THICK SET CEMENT	150.00	19.2000	2880.00
1110A	KOL SEAL (50# BAG)	750.00	.4600	345.00
1144G	MUD FLUSH (SALE)	500.00	1.0500	525.00
4130	CENTRALIZER 5 1/2"	6.00	48.0000	288.00
4104	CEMENT BASKET 5 1/2"	2.00	220.0000	440.00
4159	FLOAT SHOE AFU 5 1/2"	1.00	344.0000	344.00
4454	5 1/2" LATCH DOWN PLUG	1.00	254.0000	254.00
	Description	Hours	Unit Price	Total
491	MIN. BULK DELIVERY	1.00	350.00	350.00
603	CEMENT PUMP	1.00	1030.00	1030.00
603	EQUIPMENT MILEAGE (ONE WAY)	.00	4.20	.00

=====
Parts: 5076.00 Freight: .00 Tax: 332.48 AR 6788.48
Labor: .00 Misc: .00 Total: 6788.48
Subt: .00 Supplies: .00 Change: .00
=====

Signed _____

Date _____

BARTLESVILLE, OK 918/338-0808 EL DORADO, KS 316/322-7022 EUREKA, KS 620/583-7664 PONCA CITY, OK 580/762-2303 OAKLEY, KS 785/672-8822 OTTAWA, KS 785/242-4044 THAYER, KS 620/839-5269 GILLETTE, WY 307/686-4914 CUSHING, OK 918/225-2650



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Invoice # 258898

Invoice Date: 05/20/2013 Terms: 0/0/30,n/30

Page 1

VESS OIL CORPORATION
1700 WATER FRONT PKWAY BLD 500
WICHITA KS 67206
(316) 682-1537

KNOX A #55
41629
15-25S-5E
05-15-13
KS

Part Number	Description	Qty	Unit Price	Total
1104S	CLASS "A" CEMENT (SALE)	250.00	15.7000	3925.00
1102	CALCIUM CHLORIDE (50#)	480.00	.7800	374.40
4482	5 1/2" 32A PACKER RENTAL	1.00	1000.0000	1000.00
4478	5 1/2" STRIPPER HEAD REN	1.00	287.0000	287.00
	Description	Hours	Unit Price	Total
603	CEMENT PUMP	1.00	1395.00	1395.00
691	MIN. BULK DELIVERY	1.00	368.00	368.00

Parts:	5586.40	Freight:	.00	Tax:	365.91	AR	7715.31
Labor:	.00	Misc:	.00	Total:	7715.31		
Sublt:	.00	Supplies:	.00	Change:	.00		

Signed _____

Date _____

BARTLESVILLE, OK
918/338-0808

EL DORADO, KS
316/322-7022

EUREKA, KS
620/583-7664

PONCA CITY, OK
580/762-2303

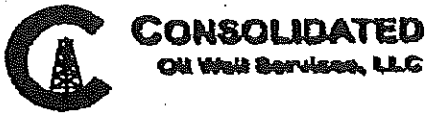
OAKLEY, KS
785/672-8822

OTTAWA, KS
785/242-4044

THAYER, KS
620/839-5269

GILLETTE, WY
307/686-4914

CUSHING, OI
918/225-2650



ENTERED

TICKET NUMBER 41629
LOCATION 180
FOREMAN Larry Storm

PO Box 884, Chanute, KS 66720
620-431-9210 or 800-467-8676

FIELD TICKET & TREATMENT REPORT
CEMENT

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
5-13-13	8511	KNOX # 35	15	255	SE	Wichita
CUSTOMER Vess Oil Corp			TRUCK #			
MAILING ADDRESS 1700 WATER FRONT PKWAY #2000			DRIVER			
CITY Wichita			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 67206			TRUCK #			
			DRIVER			

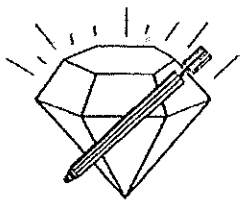
JOB TYPE Squeeze HOLE SIZE 7 7/8 HOLE DEPTH _____ CASING SIZE & WEIGHT 5 1/2 15 1/2 lb
 CASING DEPTH _____ DRILL PIPE _____ TUBING 2 3/8 8 RD OTHER _____
 SLURRY WEIGHT 15.5 SLURRY VOL _____ WATER gal/sk _____ CEMENT LEFT in CASING 80 ft
 DISPLACEMENT 15.26 DISPLACEMENT PSI _____ MIX PSI 300 RATE 4 1/2

REMARKS: Produced at 2380 to 2300 - Raw packed to 2167. - Two rates of 4 1/2 bbls
at 375 lbs - mixed 250 sks A + 2% CACR2 - Flush on pump ED Pump
placed cement to 13 1/2 bbls - staged - 1 hr - Squeezed to 1000 lbs.
backwashed packer - shut in at 1000 lbs

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1395.00	1395.00
		MILEAGE		2 1/2
11045	250 sks A		15.70	3925.00
1102	480 lbs CACR2		.78	374.40
5407	1	Bulk Delivery	368.00	368.00
4482	1	5 1/2 32A Packer	1000.00	1000.00
4478	1	5 1/2 X 2 3/8	287.00	287.00
		Subtotal		7349.40
		SALES TAX		365.91
		ESTIMATED TOTAL		7715.31

Rev'n 3737 AUTHORIZATION Casey Coate TITLE _____ DATE _____

I acknowledge that the payment terms, unless specifically amended in writing on the front of the form or in the customer's account records, at our office, and conditions of service on the back of this form are in effect for services identified on this form



DIAMOND TESTING, LLC
 P.O. Box 157
HOISINGTON, KANSAS 67544
 (620) 653-7550 • (800) 542-7313
 knoxa55dst1

Company Vess Oil Corporation Lease & Well No. Knox "A" No. 55
 Elevation 1335 KB Formation Mississippi Chert Effective Pay _____ Ft. Ticket No. F121
 Date 4-24-13 Sec. 15 Twp. 25S Range 5E County Butler State Kansas
 Test Approved By Roger L. Martin Diamond Representative Jake Fahrenbruch

Formation Test No. 1 Interval Tested from 2,476 ft. to 2,550 ft. Total Depth 2,550 ft.
 Packer Depth 2,471 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Packer Depth 2,476 ft. Size 6 3/4 in. Packer Depth _____ ft. Size _____ in.
 Depth of Selective Zone Set _____ ft.

Top Recorder Depth (Inside) 2,455 ft. Recorder Number 0062 Cap. 5,000 psi.
 Bottom Recorder Depth (Outside) 2,547 ft. Recorder Number 11033 Cap. 5,150 psi.
 Below Straddle Recorder Depth _____ ft. Recorder Number _____ Cap. _____ psi.

Drilling Contractor C & G Drilling Company - Rig 1 Drill Collar Length 150 ft I.D. 2 1/4 in.
 Mud Type Chemical Viscosity 50 Weight Pipe Length _____ ft I.D. _____ in.
 Weight 9.3 Water Loss 8.6 cc. Drill Pipe Length 2,293 ft I.D. 3 1/2 in.
 Chlorides 1,400 P.P.M. Test Tool Length 33 ft Tool Size 3 1/2-IF in.
 Jars: Make Sterling Serial Number 5 Anchor Length 42' perf. w/32' drill pipe Size 4 1/2-FH in.
 Did Well Flow? No Reversed Out No Surface Choke Size 1 in. Bottom Choke Size 5/8 in.
 Main Hole Size 7 7/8 in. Tool Joint Size 4-FH in.

Blow: 1st Open: Surface blow increasing to 3 1/4 ins. No blow back during shut-in.
 2nd Open: No blow increasing to 1 in. No blow back during shut-in.

Recovered 70 ft. of drilling mud = .344400 bbls. (Grind out: 100%-mud)
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____
 Recovered _____ ft. of _____

Remarks Tool Sample Grind Out: 100%-mud

Time Set Packer(s) 7:33 P.M. Time Started off Bottom 10:33 P.M. Maximum Temperature 96°
 Initial Hydrostatic Pressure.....(A) 1229 P.S.I.
 Initial Flow Period.....Minutes 30 (B) 12 P.S.I. to (C) 30 P.S.I.
 Initial Closed In Period.....Minutes 45 (D) 800 P.S.I.
 Final Flow Period.....Minutes 45 (E) 32 P.S.I. to (F) 52 P.S.I.
 Final Closed In Period.....Minutes 60 (G) 759 P.S.I.
 Final Hydrostatic Pressure.....(H) 1223 P.S.I.



Diamond Testing General Report

**JAKE
FAHRENBRUCH - TESTER
Cell: (620) 282-8977**

P.O. Box 157
Hoisington KS 67544
Office: (800) 542-7313

General Information

Company Name	Vess Oil Corp	Well Name	Knox A #55
Well Operator	Vess Oil Corp	Unique Well ID	DST #1 Miss. Chert 2476'-2550'
Contact	Casey Coats	Surface Location	Sec 15-25s-5e-Butler Co.-KS
Site Contact	Roger Martin	Test Unit	#5
Field	El Dorado	Pool	El Dorado
Well Type	Vertical	Job Number	F121
Prepared By	Jake Fahrenbruch	Qualified By	Roger Martin

Test Information

Test Type	Conventional Bottom-Hole	Test Purpose	Initial Test
Formation	Mississippi Chert 2476'-2550'	Gauge Name	0062
Start Test Date	2013/04/24	Start Test Time	17:05:00
Final Test Date	2013/04/25	Final Test Time	01:27:00

Test Results

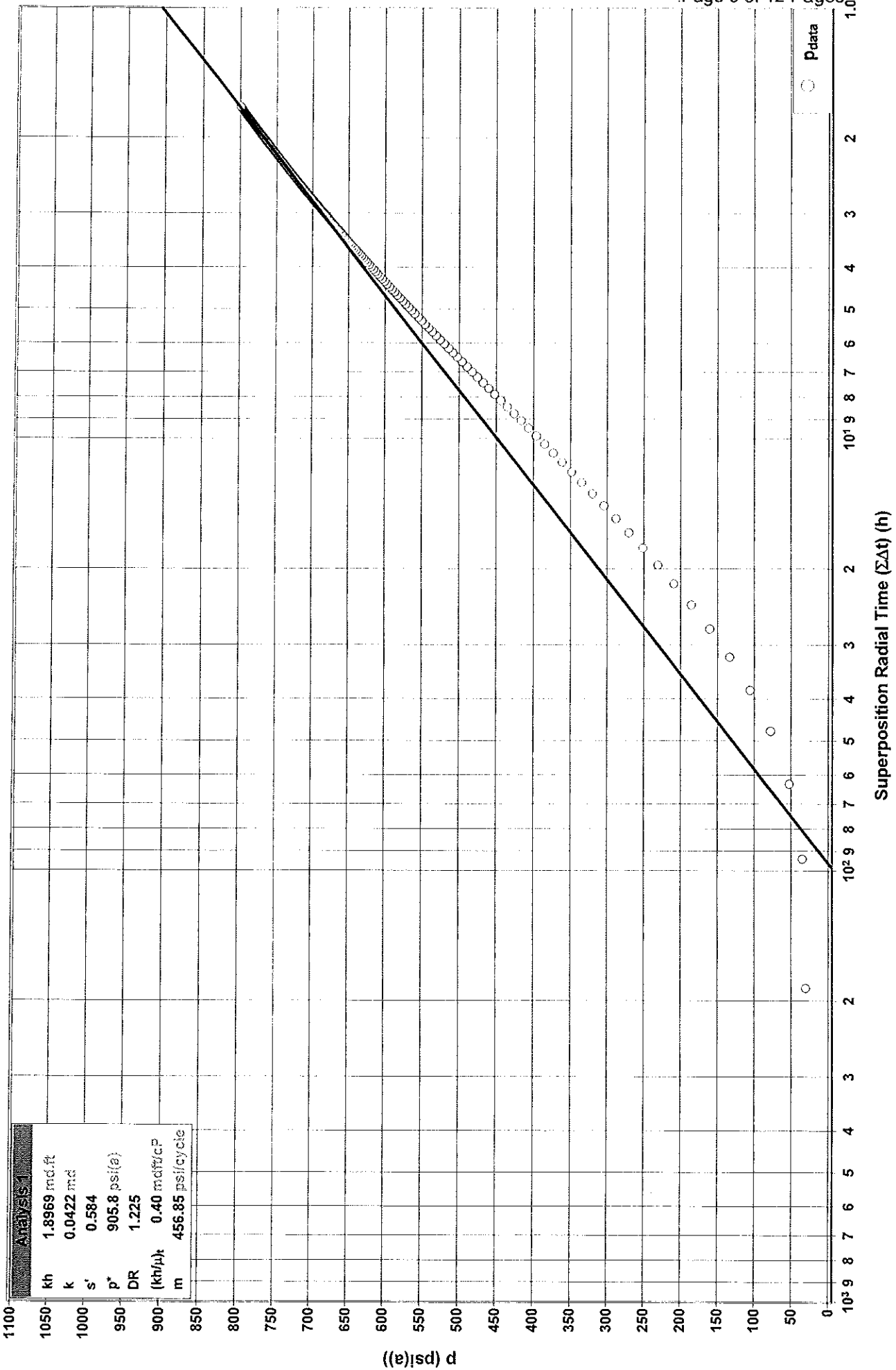
30 min IF: Surface blow, increased to 3.25".
 45 min ISI: No blowback.
 45 min FF: No blow, increased to 1".
 60 min FSI: No blowback.

Recovered: 70' Drilling Mud, 100% mud
 ----- Tool Sample: Drilling Mud, 100% mud
 ----- Bottom Hole Temperature: 96 Deg F

Pressures: IHP: 1229
 IFP: 12-30
 ISIP: 800
 FFP: 32-52
 FSIP: 759
 FHP: 1223

DST #1 INITIAL SHUT-IN
Radial

VESS OIL CORPORATION
 KNOX 'A' #55
 MISSISSIPPI CHERT 2,476' - 2,550'



Oil Well Test - Buildup

Radial Flow Analysis

Analysis Results

Flow Capacity (kh)	1.9 md.ft	Total Skin (s')	0.584
Effective Permeability (k)	0.0422 md	Skin Due to Damage (s _d)	0.584
Effective Gas Permeability (k _g)	md	Skin Due To Inclination (s _{inc})	
Effective Oil Permeability (k _o)	0.0422 md	Skin Due To Partial Penetration (s _{pp})	
Effective Water Permeability (k _w)	md	Pressure Drop Due to Total Skin (Δp _{skin})	231.7 psi(a)
Total Fluid Rate (in situ) ((qβ) _i)	1.1 rbbl/d	Damage Ratio (DR)	1.225
Total Mobility ((kμ) _i)	0.01 md/cP	Flow Efficiency (FE)	0.816
Total Transmissivity ((kh/μ) _i)	0.40 mdf/cP		
Semi-Log Slope (m)	456.85 psi/cycle		

Reservoir Parameters

Net Pay (h)	45.000 ft
Total Porosity (φ _t)	10.00 %
Gas Saturation (S _g)	0.00 %
Oil Saturation (S _o)	80.00 %
Water Saturation (S _w)	20.00 %
Formation Compressibility (c _f)	4.8623e-06 1/psi
Total Compressibility (c _t)	1.1806e-05 1/psi
Wellbore Radius (r _w)	0.300 ft

Pressures

Extrapolated Pressure (p*)	905.8 psi(a)
Final Flowing Pressure (p _{wfo})	30.3 psi(a)
Final Measured Pressure (p _{last})	1.5 psi(a)

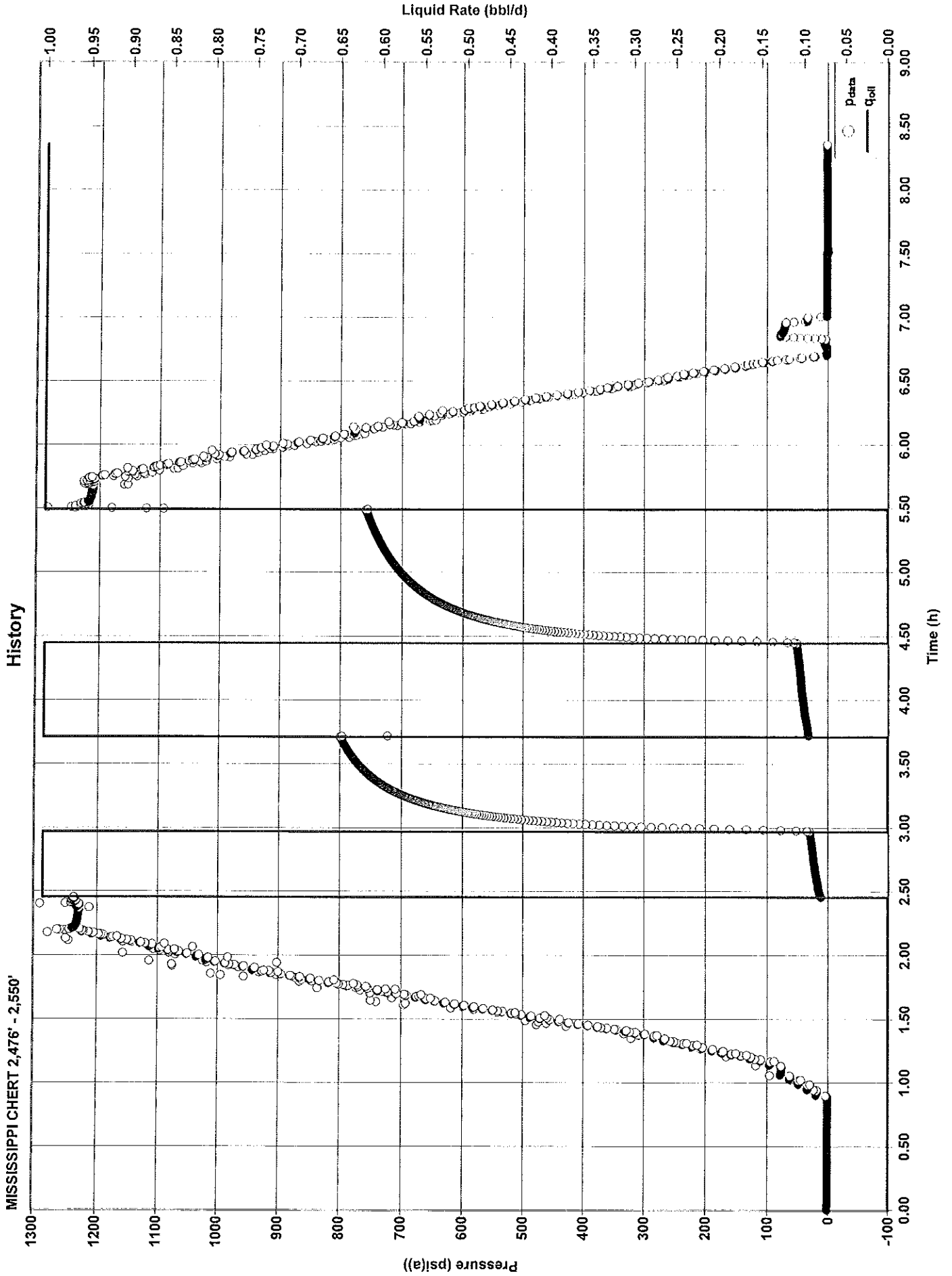
Fluid Properties

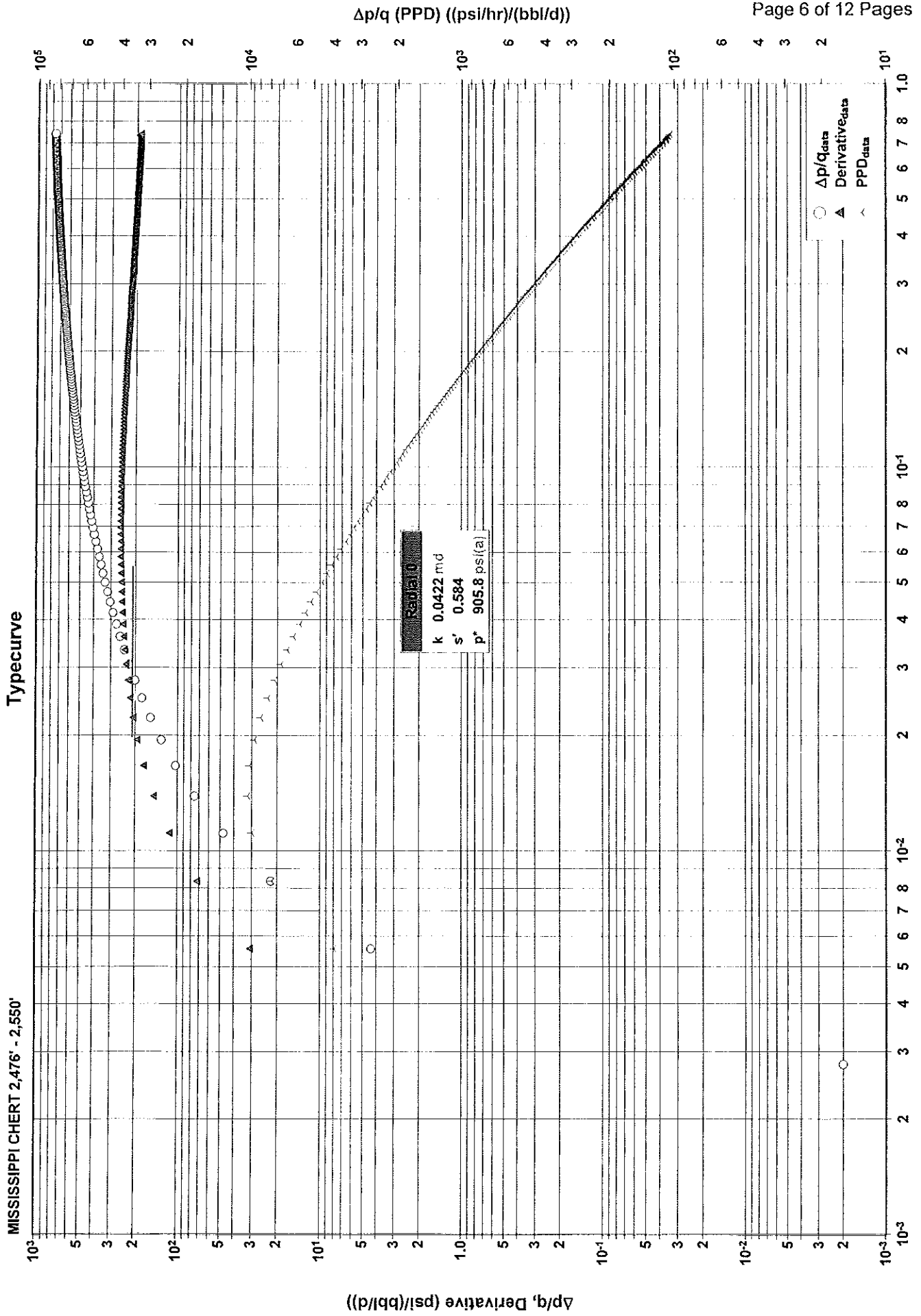
Reservoir Temperature (T _{resv})	96.0 °F
Reservoir Pressure (p _{resv})	1290.5 psi(a)
Oil Gravity (γ _o)	30.0 °API
Oil Viscosity (μ _o)	4.7024 cP
Oil Compressibility (c _o)	7.9093e-06 1/psi
Oil Formation Volume Factor (B _o)	1.133
Solution Gas Ratio (R _s)	238.2 scf/bbl
Oil Correlation	Vasquez and Beggs
Oil Viscosity Correlation	Beggs & Robinson

Production and Times

Corrected Time (t _c)	0.52 h
Total Cumulative Production Oil (Cum _{oil})	0.00 Mbbl
Final Oil Rate (q _{o final})	1.0 bbl/d

VESS OIL CORPORATION
KNOX 'A' #55
MISSISSIPPI CHERT 2,476' - 2,550'

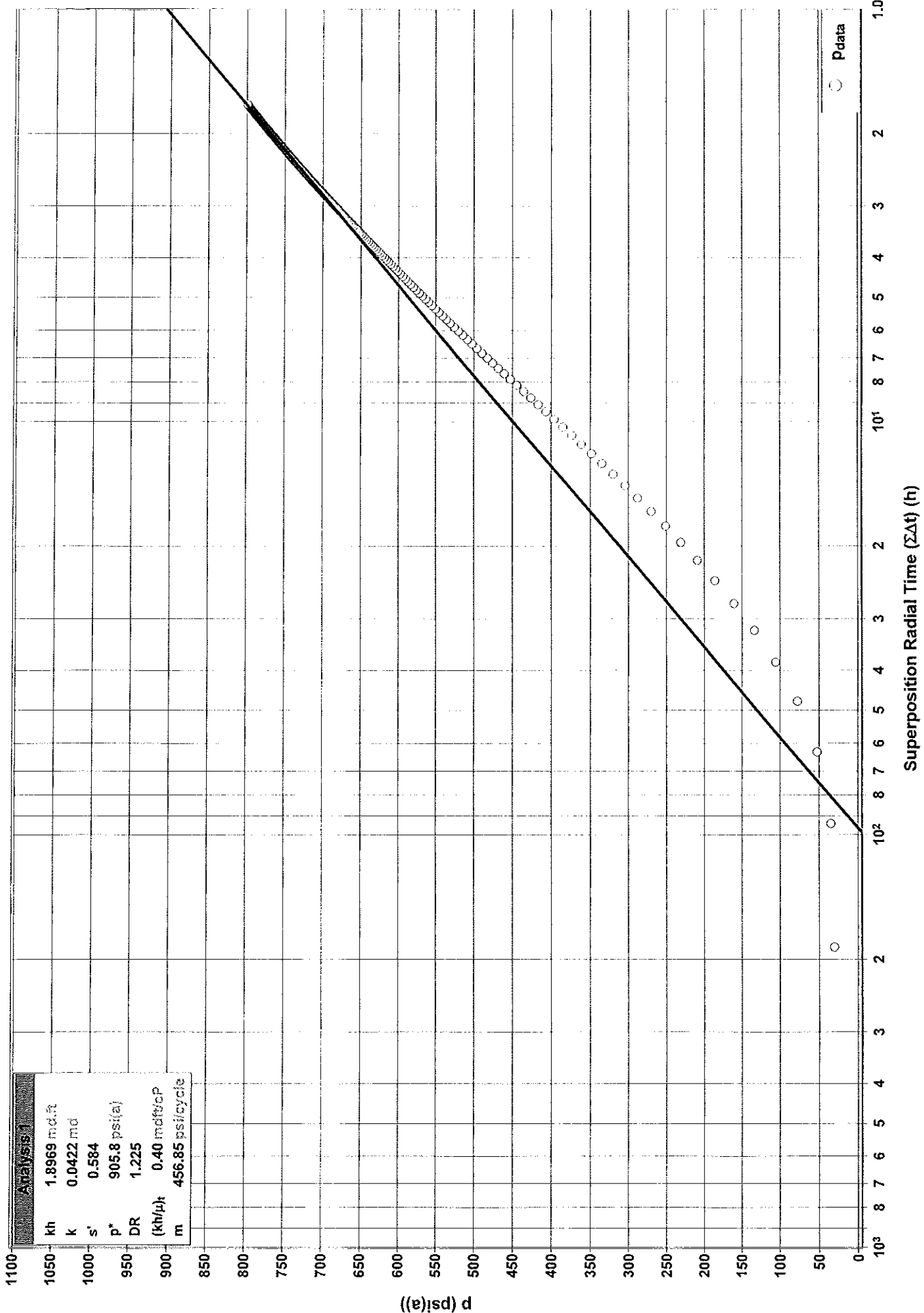




DST #1 INITIAL SHUT-IN

Radial

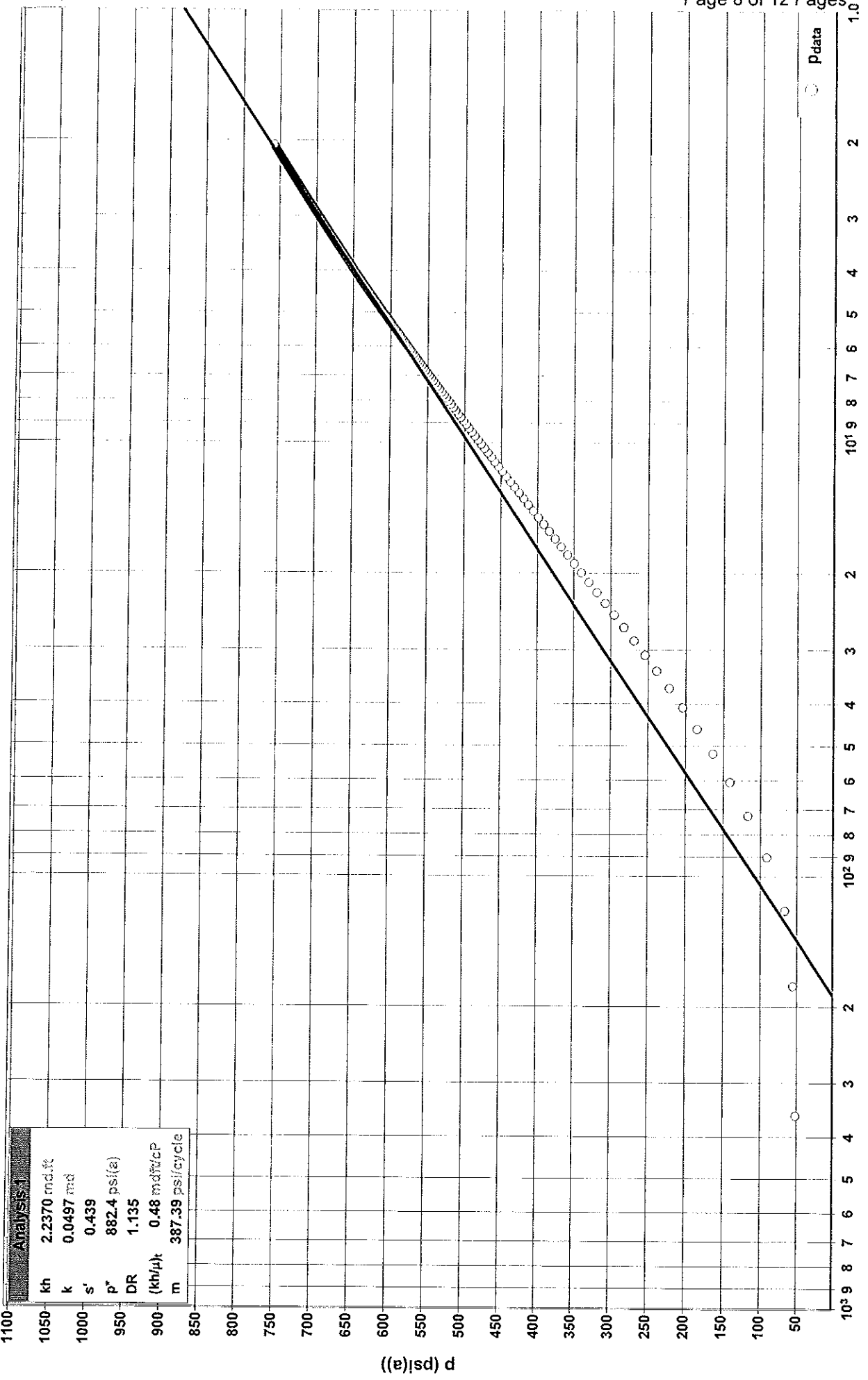
VESS OIL CORPORATION
 KNOX 'A' #55
 MISSISSIPPI CHERT 2,476' - 2,550'



Analysis	
kh	1.8969 md-ft
k	0.0422 md
s'	0.584
p*	905.8 psi(a)
DR	1.225
(kh/μh)	0.40 md-ft/cp
m	456.85 psi/cycle

DST #1 FINAL SHUT-IN
Radial

VESS OIL CORPORATION
 KNOX 'A' #55
 MISSISSIPPI CHERT 2,476' - 2,550'



Analysis 1	
kh	2.2370 md.ft
k	0.0497 md
s'	0.439
p*	882.4 psi(a)
DR	1.135
(kh) μ h	0.48 md.ft/cP
m	387.39 psi/cycle

Superposition Radial Time ($\Sigma\Delta t$) (h)

d (psi(a))

Oil Well Test - Buildup

Radial Flow Analysis

Analysis Results

Flow Capacity (kh)	2.24 md.ft	Total Skin (s')	0.439
Effective Permeability (k)	0.0497 md	Skin Due to Damage (s _d)	0.439
Effective Gas Permeability (k _g)	md	Skin Due To Inclination (s _{inc})	
Effective Oil Permeability (k _o)	0.0497 md	Skin Due To Partial Penetration (s _{pp})	
Effective Water Permeability (k _w)	md	Pressure Drop Due to Total Skin (Δp _{skin})	147.7 psi(a)
Total Fluid Rate (in situ) ((qβ) _i)	1.1 rbbl/d	Damage Ratio (DR)	1.135
Total Mobility ((k/μ) _i)	0.01 md/cP	Flow Efficiency (FE)	0.881
Total Transmissivity ((kh/μ) _i)	0.48 mdf/cP		
Semi-Log Slope (m)	387.39 psi/cycle		

Reservoir Parameters

Net Pay (h)	45.000 ft
Total Porosity (φ _t)	10.00 %
Gas Saturation (S _g)	0.00 %
Oil Saturation (S _o)	80.00 %
Water Saturation (S _w)	20.00 %
Formation Compressibility (c _f)	4.8623e-06 1/psi
Total Compressibility (c _t)	1.1806e-05 1/psi
Wellbore Radius (r _w)	0.300 ft

Pressures

Extrapolated Pressure (p*)	882.4 psi(a)
Final Flowing Pressure (p _{wfo})	51.6 psi(a)
Final Measured Pressure (p _{last})	1.5 psi(a)

Fluid Properties

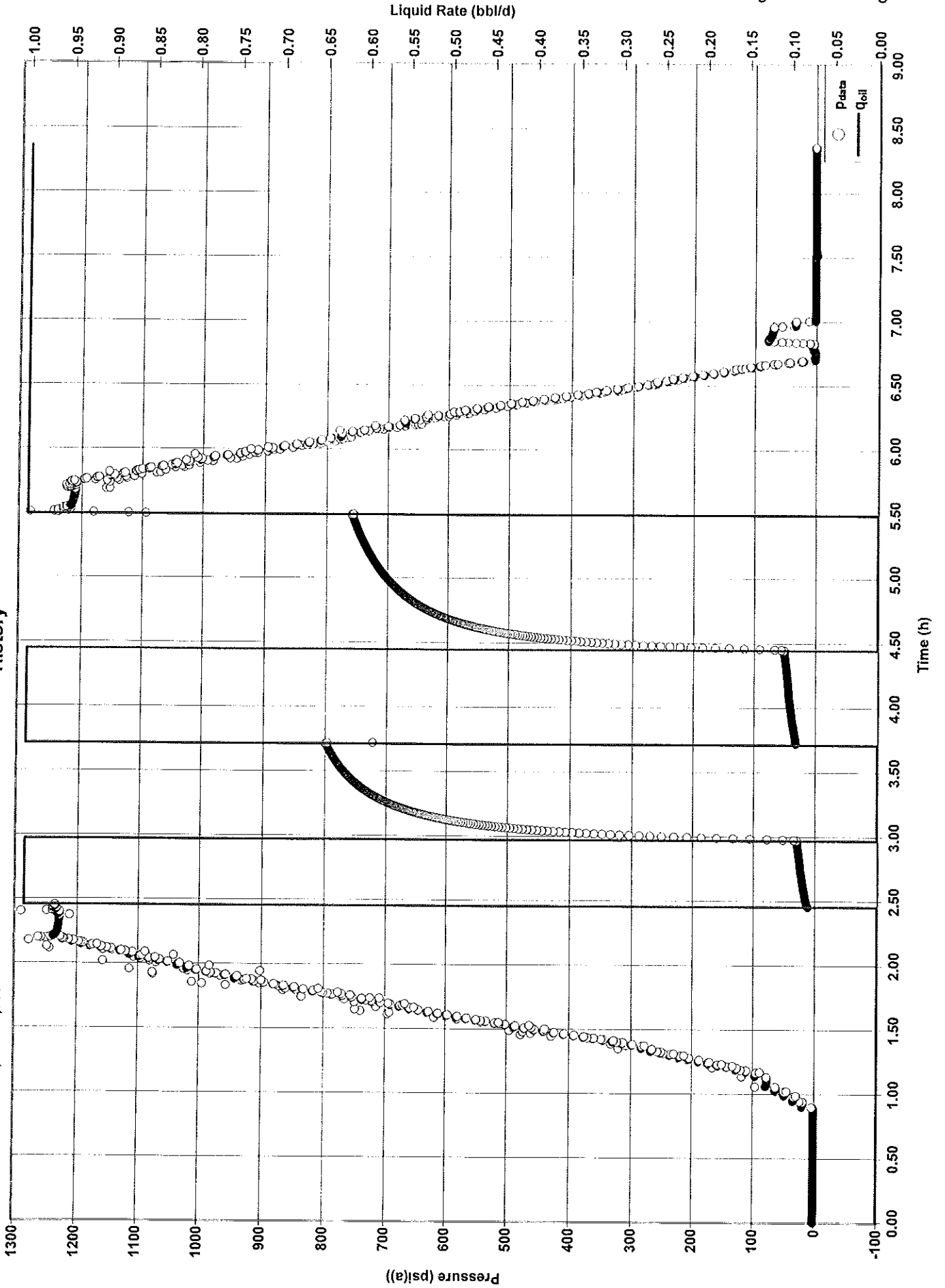
Reservoir Temperature (T _{resv})	96.0 °F
Reservoir Pressure (p _{resv})	1290.5 psi(a)
Oil Gravity (γ _o)	30.0 °API
Oil Viscosity (μ _o)	4.7024 cP
Oil Compressibility (c _o)	7.9093e-06 1/psi
Oil Formation Volume Factor (B _o)	1.133
Solution Gas Ratio (R _s)	238.2 scf/bbl
Oil Correlation	Vasquez and Beggs
Oil Viscosity Correlation	Beggs & Robinson

Production and Times

Corrected Time (t _c)	1.25 h
Total Cumulative Production Oil (Cum _{oil})	0.00 Mbbbl
Final Oil Rate (q _{o final})	1.0 bbl/d

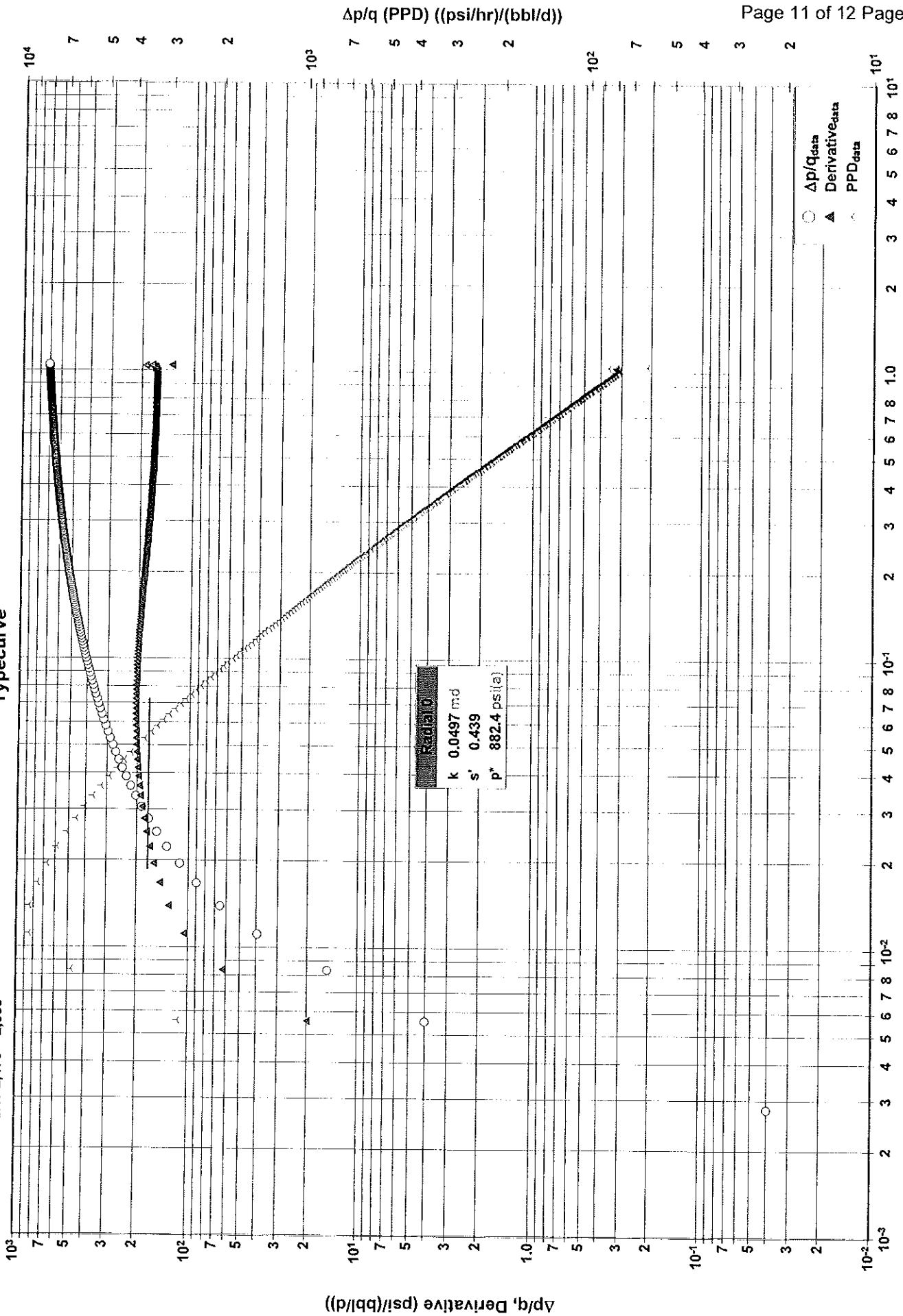
VESS OIL CORPORATION
KNOX 'A' #55
MISSISSIPPI CHERT 2,476' - 2,550'

History



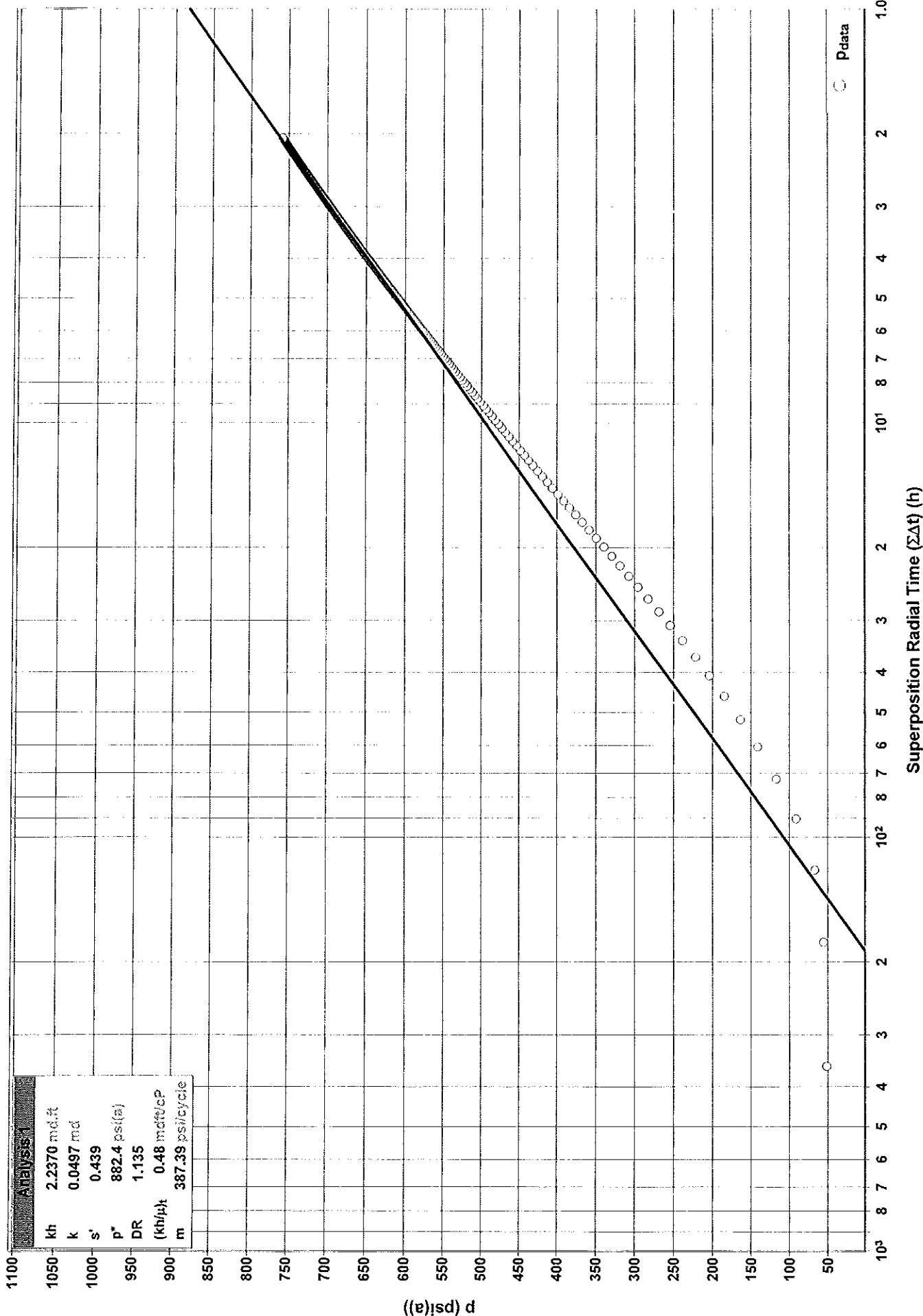
VESS OIL CORPORATION
 KNOX 'A' #55
 MISSISSIPPI CHERT 2,476' - 2,550'

Typecurve



VESSEIL OIL CORPORATION
 KNOX 'A' #55
 MISSISSIPPI CHERT 2,476' - 2,550'

Radial

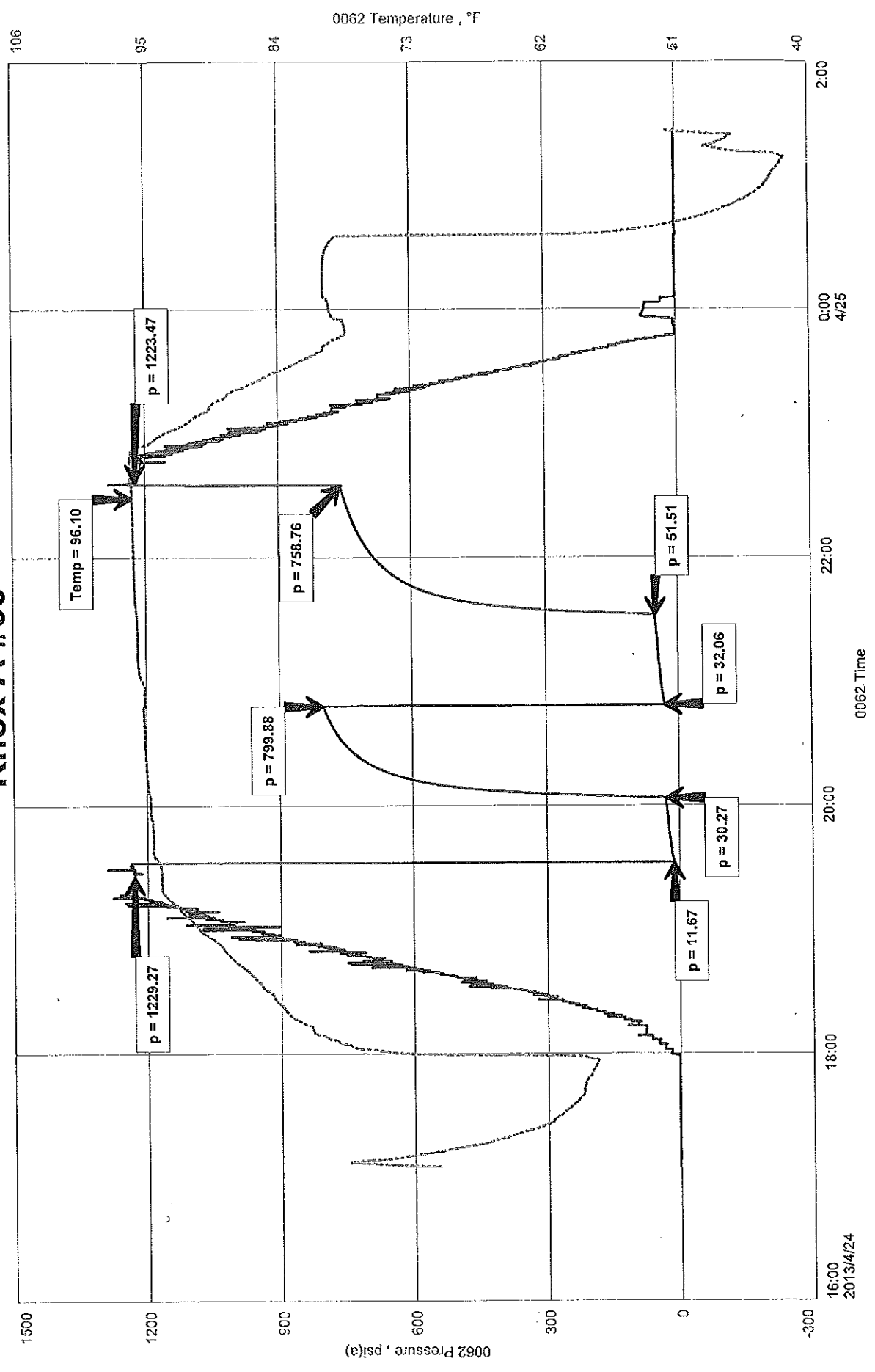


kh	2.2370 md.ft
k	0.0497 md
s'	0.439
p*	882.4 psi(a)
DR	1.135
(kb/h)	0.48 mdfe/cp
m	387.39 psicycle

Vess Oil Corp
 DST #1 Miss. Chert 2476'-2550'
 Start Test Date: 2013/04/24
 Final Test Date: 2013/04/25

Knox A #55
 Formation: Mississippi Chert 2476'-2550'
 Pool: El Dorado
 Job Number: F121

KNOX A #55



16:00
 2013/4/24

18:00
 2013/4/24

20:00
 0062 Time

22:00
 0062 Time

0:00
 4/25

2:00
 0062 Time