



KANSAS CORPORATION COMMISSION 1146116  
OIL & GAS CONSERVATION DIVISION

Form ACO-1

June 2009

Form Must Be Typed  
Form must be Signed  
All blanks must be Filled

**WELL COMPLETION FORM**  
**WELL HISTORY - DESCRIPTION OF WELL & LEASE**

OPERATOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Address 1: \_\_\_\_\_

Address 2: \_\_\_\_\_

City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_ + \_\_\_\_\_

Contact Person: \_\_\_\_\_

Phone: ( \_\_\_\_\_ ) \_\_\_\_\_

CONTRACTOR: License # \_\_\_\_\_

Name: \_\_\_\_\_

Wellsite Geologist: \_\_\_\_\_

Purchaser: \_\_\_\_\_

Designate Type of Completion:

- New Well       Re-Entry       Workover
- Oil       WSW       SWD       SIOW
- Gas       D&A       ENHR       SIGW
- OG       GSW       Temp. Abd.
- CM (Coal Bed Methane)
- Cathodic       Other (Core, Expl., etc.): \_\_\_\_\_

If Workover/Re-entry: Old Well Info as follows:

Operator: \_\_\_\_\_

Well Name: \_\_\_\_\_

Original Comp. Date: \_\_\_\_\_ Original Total Depth: \_\_\_\_\_

- Deepening       Re-perf.       Conv. to ENHR       Conv. to SWD
- Conv. to GSW
- Plug Back: \_\_\_\_\_ Plug Back Total Depth \_\_\_\_\_
- Commingled      Permit #: \_\_\_\_\_
- Dual Completion      Permit #: \_\_\_\_\_
- SWD      Permit #: \_\_\_\_\_
- ENHR      Permit #: \_\_\_\_\_
- GSW      Permit #: \_\_\_\_\_

Spud Date or Recompletion Date      Date Reached TD      Completion Date or Recompletion Date

API No. 15 - \_\_\_\_\_

Spot Description: \_\_\_\_\_

\_\_\_\_\_ - \_\_\_\_\_ - \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

\_\_\_\_\_ Feet from  North /  South Line of Section

\_\_\_\_\_ Feet from  East /  West Line of Section

Footages Calculated from Nearest Outside Section Corner:

- NE       NW       SE       SW

County: \_\_\_\_\_

Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Field Name: \_\_\_\_\_

Producing Formation: \_\_\_\_\_

Elevation: Ground: \_\_\_\_\_ Kelly Bushing: \_\_\_\_\_

Total Depth: \_\_\_\_\_ Plug Back Total Depth: \_\_\_\_\_

Amount of Surface Pipe Set and Cemented at: \_\_\_\_\_ Feet

Multiple Stage Cementing Collar Used?  Yes  No

If yes, show depth set: \_\_\_\_\_ Feet

If Alternate II completion, cement circulated from: \_\_\_\_\_

feet depth to: \_\_\_\_\_ w/ \_\_\_\_\_ sx cmt.

**Drilling Fluid Management Plan**

(Data must be collected from the Reserve Pit)

Chloride content: \_\_\_\_\_ ppm Fluid volume: \_\_\_\_\_ bbls

Dewatering method used: \_\_\_\_\_

Location of fluid disposal if hauled offsite: \_\_\_\_\_

Operator Name: \_\_\_\_\_

Lease Name: \_\_\_\_\_ License #: \_\_\_\_\_

Quarter \_\_\_\_\_ Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West

County: \_\_\_\_\_ Permit #: \_\_\_\_\_

**AFFIDAVIT**

I am the affiant and I hereby certify that all requirements of the statutes, rules and regulations promulgated to regulate the oil and gas industry have been fully complied with and the statements herein are complete and correct to the best of my knowledge.

Submitted Electronically

**KCC Office Use ONLY**

- Letter of Confidentiality Received  
Date: \_\_\_\_\_
- Confidential Release Date: \_\_\_\_\_
- Wireline Log Received
- Geologist Report Received
- UIC Distribution
- ALT  I  II  III Approved by: \_\_\_\_\_ Date: \_\_\_\_\_



1146116

Operator Name: \_\_\_\_\_ Lease Name: \_\_\_\_\_ Well #: \_\_\_\_\_

Sec. \_\_\_\_\_ Twp. \_\_\_\_\_ S. R. \_\_\_\_\_  East  West County: \_\_\_\_\_

**INSTRUCTIONS:** Show important tops and base of formations penetrated. Detail all cores. Report all final copies of drill stems tests giving interval tested, time tool open and closed, flowing and shut-in pressures, whether shut-in pressure reached static level, hydrostatic pressures, bottom hole temperature, fluid recovery, and flow rates if gas to surface test, along with final chart(s). Attach extra sheet if more space is needed. Attach complete copy of all Electric Wire-line Logs surveyed. Attach final geological well site report.

Drill Stem Tests Taken <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(Attach Additional Sheets)</i>  Samples Sent to Geological Survey <input type="checkbox"/> Yes <input type="checkbox"/> No  Cores Taken <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Run <input type="checkbox"/> Yes <input type="checkbox"/> No Electric Log Submitted Electronically <input type="checkbox"/> Yes <input type="checkbox"/> No <i>(If no, Submit Copy)</i>  List All E. Logs Run:	<input type="checkbox"/> Log Formation (Top), Depth and Datum <input type="checkbox"/> Sample  Name Top Datum
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CASING RECORD <input type="checkbox"/> New <input type="checkbox"/> Used							
Report all strings set-conductor, surface, intermediate, production, etc.							
Purpose of String	Size Hole Drilled	Size Casing Set (In O.D.)	Weight Lbs. / Ft.	Setting Depth	Type of Cement	# Sacks Used	Type and Percent Additives

ADDITIONAL CEMENTING / SQUEEZE RECORD				
Purpose:	Depth Top Bottom	Type of Cement	# Sacks Used	Type and Percent Additives
<input type="checkbox"/> Perforate <input type="checkbox"/> Protect Casing <input type="checkbox"/> Plug Back TD <input type="checkbox"/> Plug Off Zone				

Shots Per Foot	PERFORATION RECORD - Bridge Plugs Set/Type Specify Footage of Each Interval Perforated	Acid, Fracture, Shot, Cement Squeeze Record <i>(Amount and Kind of Material Used)</i>	Depth

TUBING RECORD:      Size: \_\_\_\_\_ Set At: \_\_\_\_\_ Packer At: \_\_\_\_\_ Liner Run:  Yes  No

Date of First, Resumed Production, SWD or ENHR. \_\_\_\_\_ Producing Method:  
 Flowing    Pumping    Gas Lift    Other (Explain) \_\_\_\_\_

Estimated Production Per 24 Hours	Oil Bbls.	Gas Mcf	Water Bbls.	Gas-Oil Ratio	Gravity
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DISPOSITION OF GAS: <input type="checkbox"/> Vented <input type="checkbox"/> Sold <input type="checkbox"/> Used on Lease <i>(If vented, Submit ACO-18.)</i>	METHOD OF COMPLETION: <input type="checkbox"/> Open Hole <input type="checkbox"/> Perf. <input type="checkbox"/> Dually Comp. <input type="checkbox"/> Commingled <i>(Submit ACO-5)</i> <i>(Submit ACO-4)</i> <input type="checkbox"/> Other (Specify) _____	PRODUCTION INTERVAL: _____ _____
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**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

1<sup>st</sup> open: Surface blow, increased to 3.25" No BB

2<sup>nd</sup> open No blow, increased to 1"

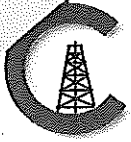
Rec.: 70' drilling mud

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

**ENTERED**

TICKET NUMBER 38596  
LOCATION 180 Eldorado  
FOREMAN Jacob Storm

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

### FIELD TICKET & TREATMENT REPORT

**CEMENT** 15-015-23972-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY																
4-20-13	8311	Knox #55	15	25	5	Butler																
CUSTOMER Vessoi			<table border="1"> <tr> <th>TRUCK #</th> <th>DRIVER</th> <th>TRUCK #</th> <th>DRIVER</th> </tr> <tr> <td>467</td> <td>Josh</td> <td></td> <td></td> </tr> <tr> <td>681</td> <td>Steve</td> <td></td> <td></td> </tr> <tr> <td>702</td> <td>Jacob</td> <td></td> <td></td> </tr> </table>				TRUCK #	DRIVER	TRUCK #	DRIVER	467	Josh			681	Steve			702	Jacob		
TRUCK #	DRIVER	TRUCK #					DRIVER															
467	Josh																					
681	Steve																					
702	Jacob																					
MAILING ADDRESS 1700 Water Front Parkway Bidsco																						
CITY Wichita																						
STATE KS		ZIP CODE 67206																				

JOB TYPE Surface B HOLE SIZE 12 1/4 HOLE DEPTH 265 CASING SIZE & WEIGHT 8 5/8  
CASING DEPTH 255 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 15 lb SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 16 ft  
DISPLACEMENT 15.93 DISPLACEMENT PSI 200 MIX PSI 300 RATE 5 bpm

REMARKS: Safety meeting, Break circulation mix 150 stars class A  
3/4 cc 1 lb poly-Flake, displace with 6bl circulating cement  
to surface shut in.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401S	1	PUMP CHARGE	825.00	825.00
5406	4	MILEAGE	4.00	M/C
5407	1	min bulk delivery	350.00	350.00
1104S	150	class A	14.95	2242.50
1102	400	calcium chloride	.24	296.00
1107	50	poly-Flake	2.35	117.50
Subtotal				3831.00
SALES TAX				173.91
ESTIMATED TOTAL				4004.91

Ravin 3737

258041

AUTHORIZATION Cotton 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.

**CONSOLIDATED**  
Oil Well Services, LLC

MAY 10 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 # 258476

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



**CONSOLIDATED**  
Oil Well Services, LLC

**ENTERED**

TICKET NUMBER 38598  
LOCATION 180  
FOREMAN Jacob Storm

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

**FIELD TICKET & TREATMENT REPORT**

**CEMENT** Api 15-015-23972-00-00

DATE	CUSTOMER #	WELL NAME & NUMBER	SECTION	TOWNSHIP	RANGE	COUNTY
4-25-13	RS11	KNOX A # 55	15	25	5	Butler
CUSTOMER			TRUCK #		DRIVER	
vessoil			603		Jeff	
MAILING ADDRESS			491		Jeremy m	
1700 water front parkway Bld 500			702		Jacob	
CITY						
wichita						
STATE						
KS						
ZIP CODE						
67206						

JOB TYPE Long String B HOLE SIZE 2 7/8 HOLE DEPTH 2560 CASING SIZE & WEIGHT 5 1/2 15.3  
CASING DEPTH 2560.75 DRILL PIPE \_\_\_\_\_ TUBING \_\_\_\_\_ OTHER \_\_\_\_\_  
SLURRY WEIGHT 15 lb SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 14.75 shoe joint  
DISPLACEMENT 6.10 DISPLACEMENT PSI \_\_\_\_\_ MIX PSI \_\_\_\_\_ RATE \_\_\_\_\_

REMARKS: Safety meeting, Break circulation, pump 500 gal Dv 1100, mix 150 sks thick set, SK kalseal, displace with 6.10 bbl landing plug at 1100 psi, check float float held, plug Rest hole with 35 sks thick set.

ACCOUNT CODE	QUANTITY or UNITS	DESCRIPTION of SERVICES or PRODUCT	UNIT PRICE	TOTAL
5401	1	PUMP CHARGE	1030.00	1030.00
5406	4	MILEAGE	4.00	N/C
5407	1	min bulk delivery	350.00	350.00
1126 A	150	Thick set	19.20	2880.00
1110A	750	kalseal	.46	345.00
1144G	500	Dv 1100	1.05	525.00
4130	6	5 1/2 centrizer	48.00	288.00
4104	2	5 1/2 Basket	229.00	448.00
4159	1	5 1/2 AFw Shoe	344.00	344.00
4454	1	5 1/2 Latch down plug	254.00	254.00
			Subtotal	6486.00
			SALES TAX	332.48
			ESTIMATED TOTAL	6818.48

Ravin 3737

AUTHORIZATION

Ernie Boata

TITLE

258416

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.



**CONSOLIDATED**  
Oil Well Services, LLC

**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 # 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

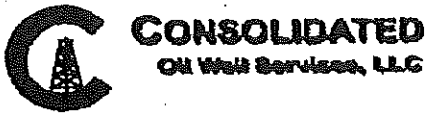
Parts: 5586.40 Freight: .00 Tax: 365.91 AR 7715.31  
Labor: .00 Misc: .00 Total: 7715.31  
Sublt: .00 Supplies: .00 Change: .00

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	KNOWA # 35	15	255	SE	Wichita
CUSTOMER Vess Oil Corp			TRUCK #			
MAILING ADDRESS 1700 WATER FRONT PKWAY 22500			DRIVER			
CITY Wichita			TRUCK #			
STATE KS			DRIVER			
ZIP CODE 67206			TRUCK #			
			DRIVER			

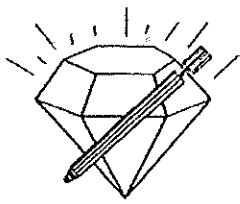
JOB TYPE Squeeze HOLE SIZE 7 7/8 HOLE DEPTH \_\_\_\_\_ CASING SIZE & WEIGHT 5 1/2 15 1/2 lb  
 CASING DEPTH \_\_\_\_\_ DRILL PIPE \_\_\_\_\_ TUBING 2 3/8 8 RD OTHER \_\_\_\_\_  
 SLURRY WEIGHT 15.5 SLURRY VOL \_\_\_\_\_ WATER gal/sk \_\_\_\_\_ CEMENT LEFT in CASING 80 ft  
 DISPLACEMENT 15.26 DISPLACEMENT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

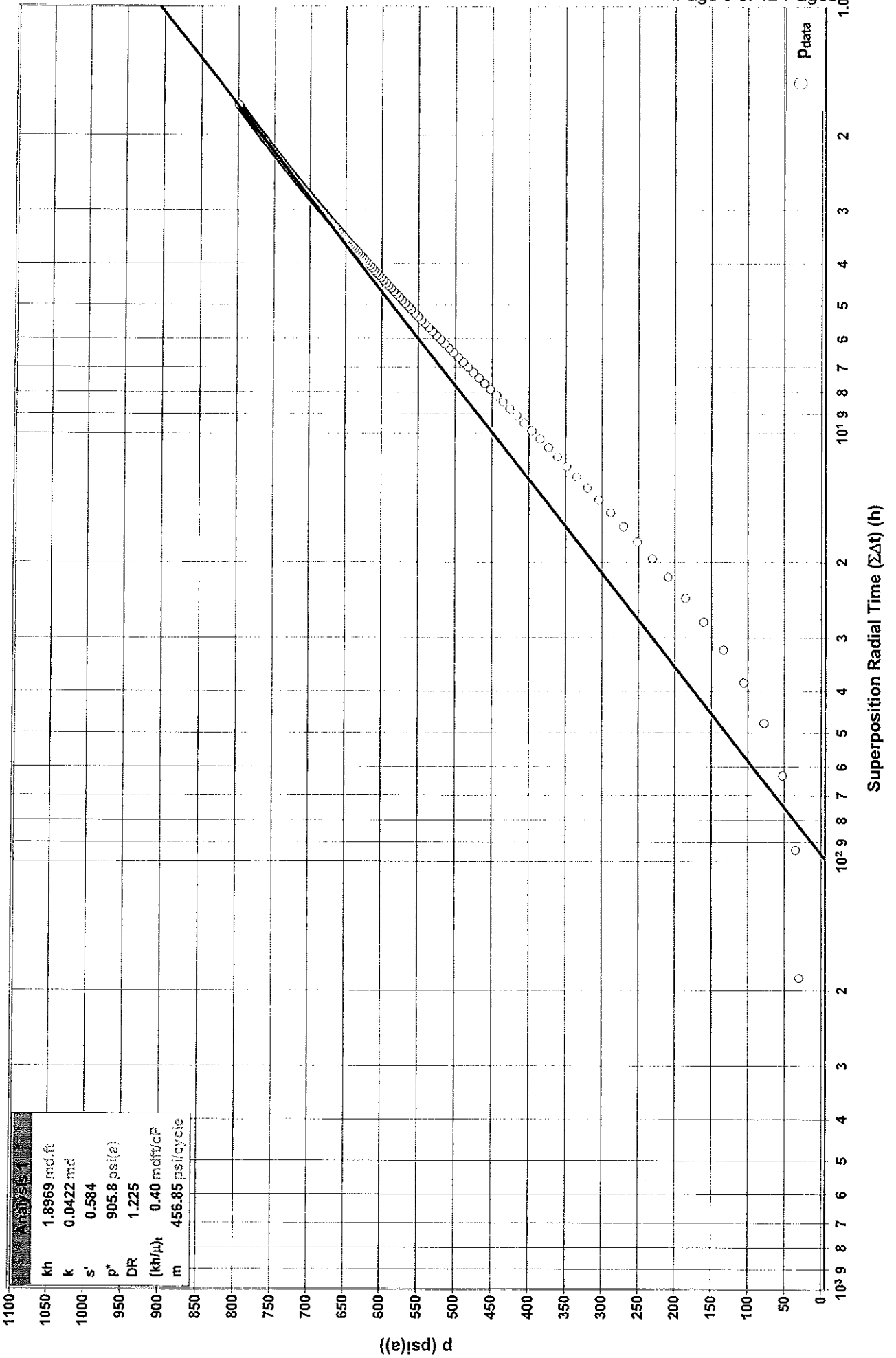
30 min IF: Surface blow, increased to 3.25".  
 45 min ISI: No blowback.  
 45 min FF: No blow, increased to 1".  
 60 min FSI: No blowback.

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'



Analysis 1	
kh	1.8969 md.ft
k	0.0422 md
s'	0.584
p*	905.8 psi(a)
DR	1.225
(kh)/h	0.40 md/c.P
m	456.85 psi/cycle

# 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 <sub>d</sub> )	0.584
Effective Gas Permeability (k <sub>g</sub> )	md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> )	0.0422 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> )	md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	231.7 psi(a)
Total Fluid Rate (in situ) ((qβ) <sub>i</sub> )	1.1 rbbl/d	Damage Ratio (DR)	1.225
Total Mobility ((kμ) <sub>i</sub> )	0.01 md/cP	Flow Efficiency (FE)	0.816
Total Transmissivity ((kh/μ) <sub>i</sub> )	0.40 mdf/cP		
Semi-Log Slope (m)	456.85 psi/cycle		

### Reservoir Parameters

Net Pay (h)	45.000 ft
Total Porosity (φ <sub>t</sub> )	10.00 %
Gas Saturation (S <sub>g</sub> )	0.00 %
Oil Saturation (S <sub>o</sub> )	80.00 %
Water Saturation (S <sub>w</sub> )	20.00 %
Formation Compressibility (c <sub>f</sub> )	4.8623e-06 1/psi
Total Compressibility (c <sub>t</sub> )	1.1806e-05 1/psi
Wellbore Radius (r <sub>w</sub> )	0.300 ft

### Pressures

Extrapolated Pressure (p*)	905.8 psi(a)
Final Flowing Pressure (p <sub>wfo</sub> )	30.3 psi(a)
Final Measured Pressure (p <sub>last</sub> )	1.5 psi(a)

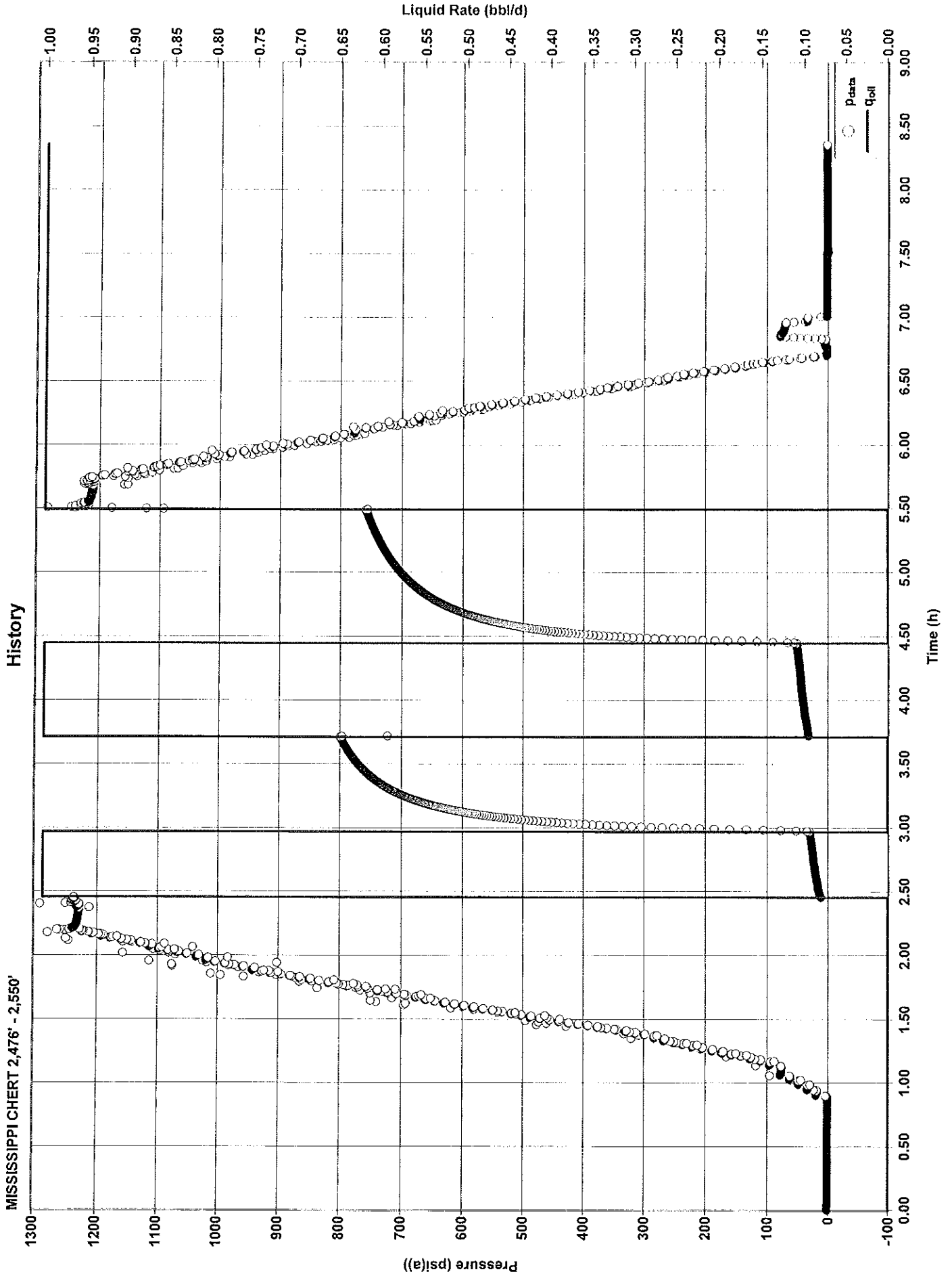
### Fluid Properties

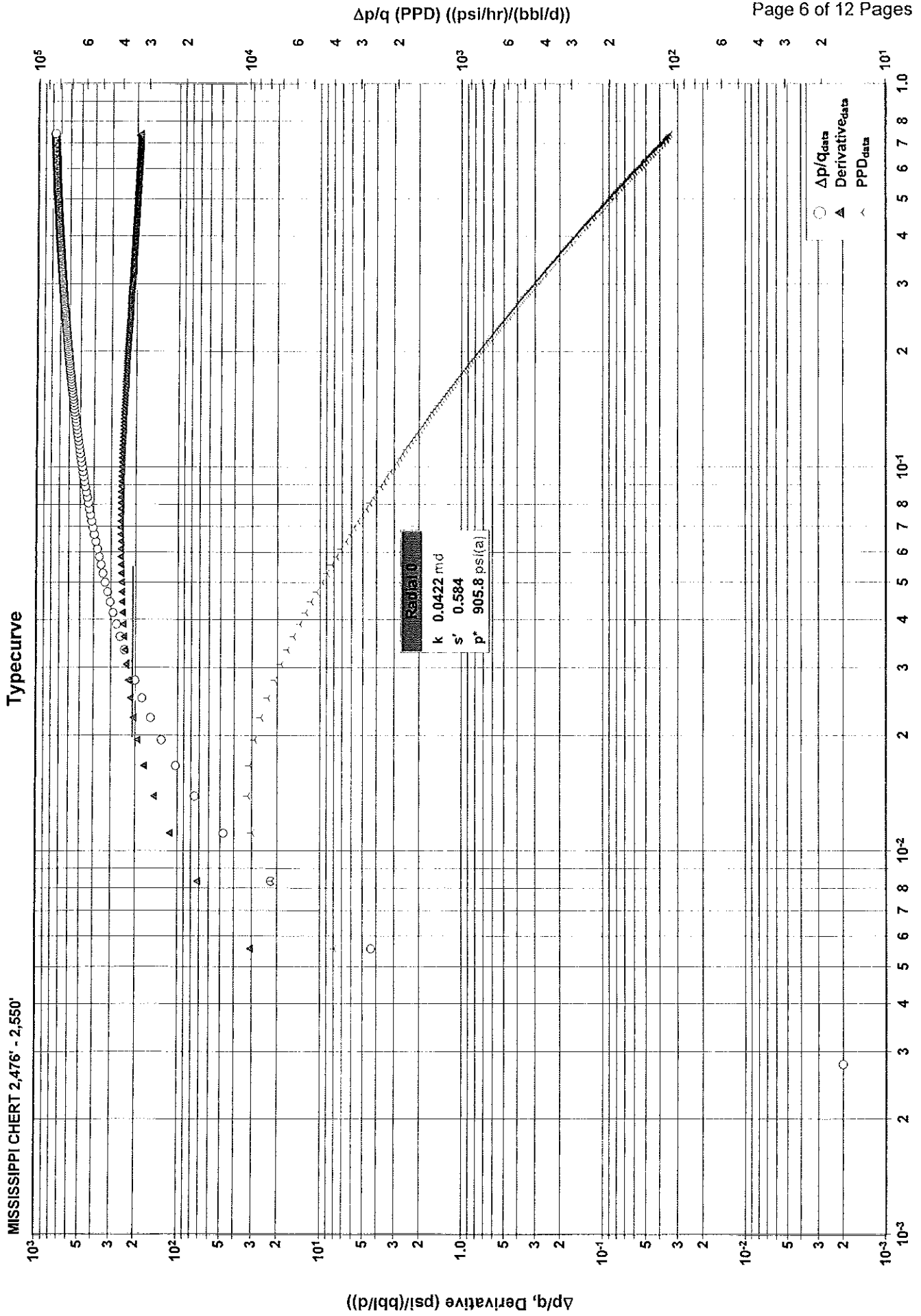
Reservoir Temperature (T <sub>resv</sub> )	96.0 °F
Reservoir Pressure (p <sub>resv</sub> )	1290.5 psi(a)
Oil Gravity (γ <sub>o</sub> )	30.0 °API
Oil Viscosity (μ <sub>o</sub> )	4.7024 cP
Oil Compressibility (c <sub>o</sub> )	7.9093e-06 1/psi
Oil Formation Volume Factor (B <sub>o</sub> )	1.133
Solution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

### Production and Times

Corrected Time (t <sub>c</sub> )	0.52 h
Total Cumulative Production Oil (Cum <sub>oil</sub> )	0.00 Mbbl
Final Oil Rate (q <sub>o final</sub> )	1.0 bbl/d

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

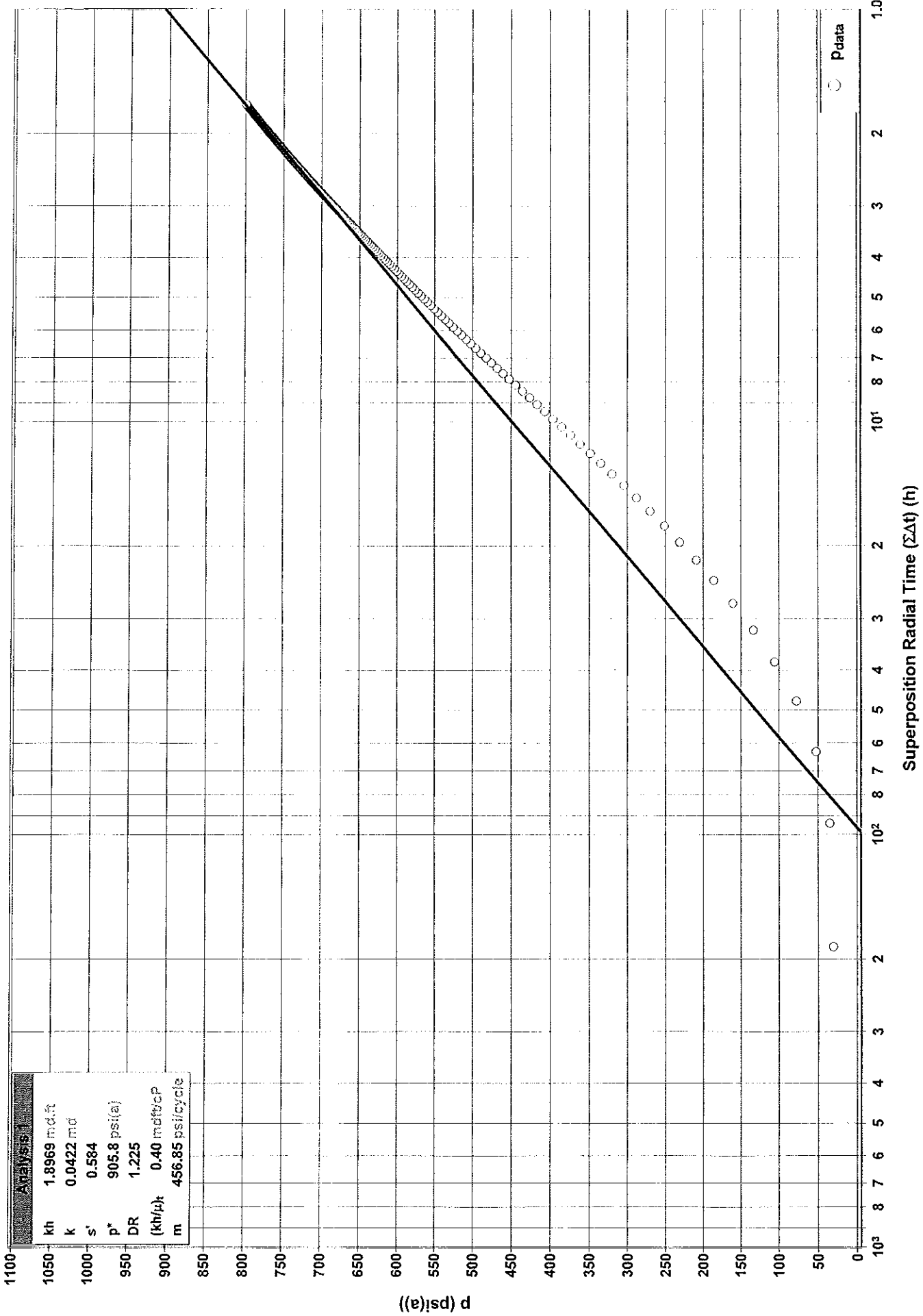




DST #1 INITIAL SHUT-IN

Radial

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

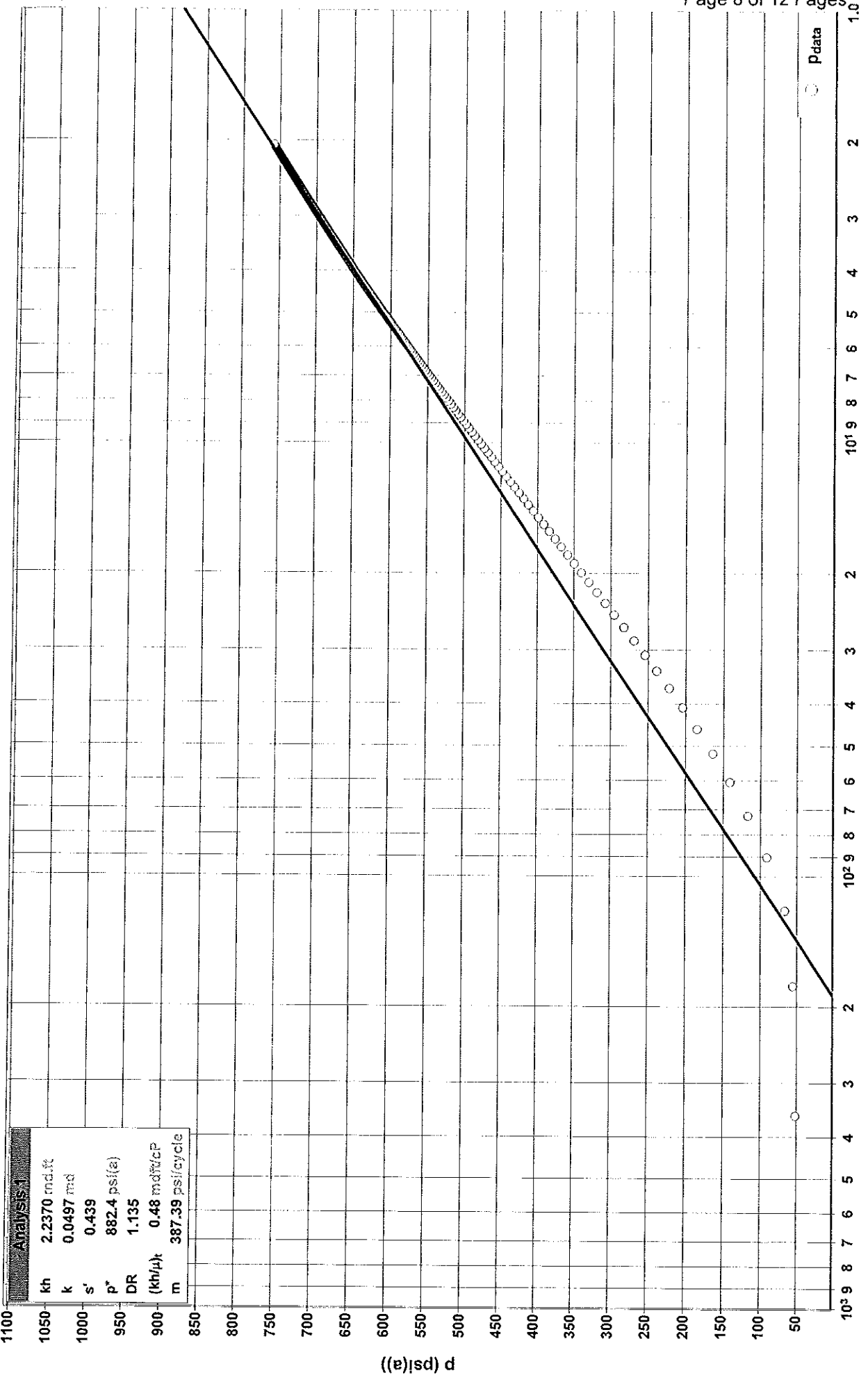


Analysis	
kh	1.8969 md-ft
k	0.0422 md
s'	0.584
p*	905.8 psi(a)
DR	1.225
(kh/μh)	0.40 md-ft/cp
m	456.85 psi/cycle



**DST #1 FINAL SHUT-IN**  
**Radial**

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



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

# 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 <sub>d</sub> )	0.439
Effective Gas Permeability (k <sub>g</sub> )	md	Skin Due To Inclination (s <sub>inc</sub> )	
Effective Oil Permeability (k <sub>o</sub> )	0.0497 md	Skin Due To Partial Penetration (s <sub>pp</sub> )	
Effective Water Permeability (k <sub>w</sub> )	md	Pressure Drop Due to Total Skin (Δp <sub>skin</sub> )	147.7 psi(a)
Total Fluid Rate (in situ) ((qβ) <sub>i</sub> )	1.1 rbbl/d	Damage Ratio (DR)	1.135
Total Mobility ((k/μ) <sub>i</sub> )	0.01 md/cP	Flow Efficiency (FE)	0.881
Total Transmissivity ((kh/μ) <sub>i</sub> )	0.48 mdf/cP		
Semi-Log Slope (m)	387.39 psi/cycle		

### Reservoir Parameters

Net Pay (h)	45.000 ft
Total Porosity (φ <sub>t</sub> )	10.00 %
Gas Saturation (S <sub>g</sub> )	0.00 %
Oil Saturation (S <sub>o</sub> )	80.00 %
Water Saturation (S <sub>w</sub> )	20.00 %
Formation Compressibility (c <sub>f</sub> )	4.8623e-06 1/psi
Total Compressibility (c <sub>t</sub> )	1.1806e-05 1/psi
Wellbore Radius (r <sub>w</sub> )	0.300 ft

### Pressures

Extrapolated Pressure (p*)	882.4 psi(a)
Final Flowing Pressure (p <sub>wfo</sub> )	51.6 psi(a)
Final Measured Pressure (p <sub>last</sub> )	1.5 psi(a)

### Fluid Properties

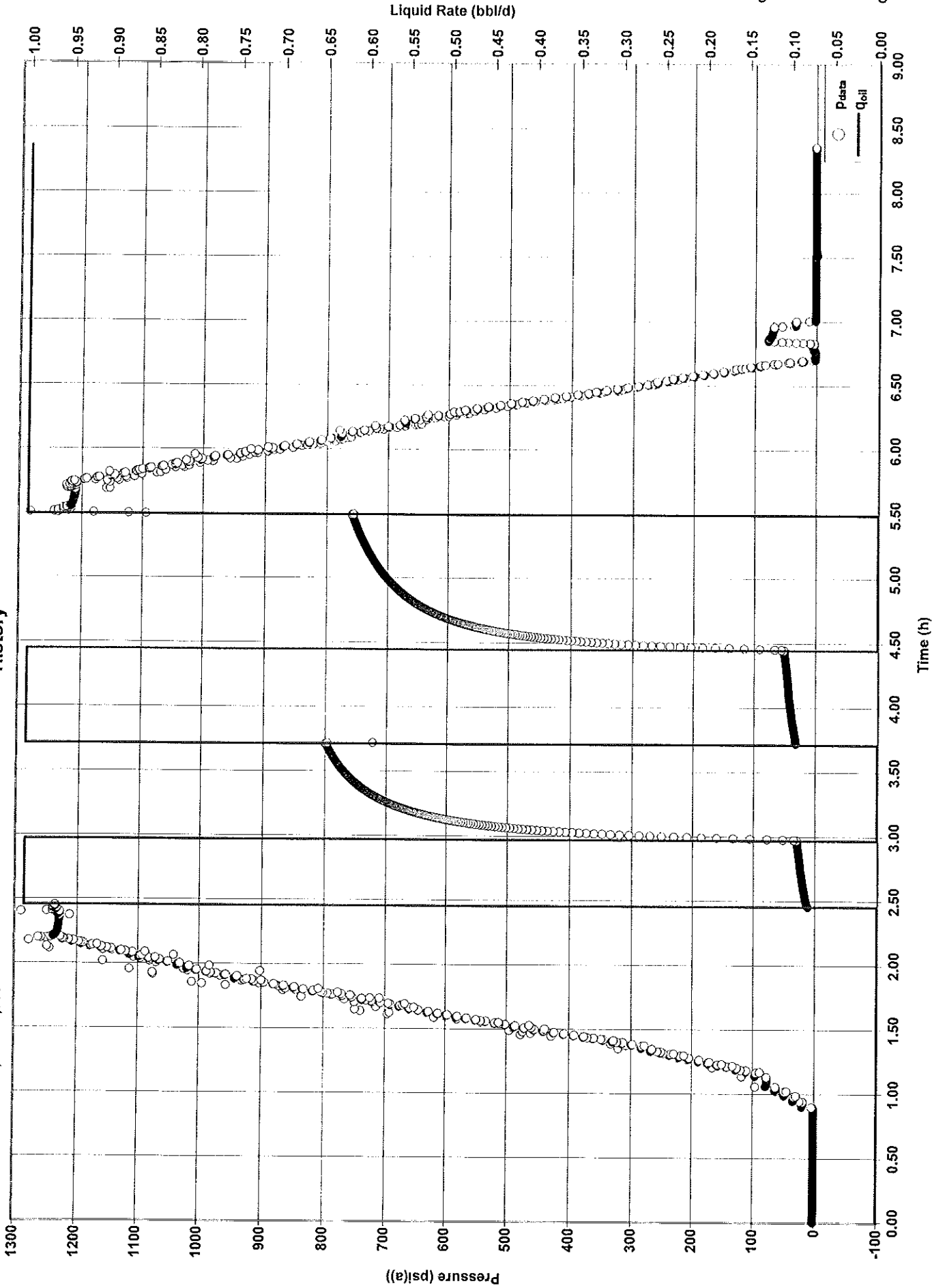
Reservoir Temperature (T <sub>resv</sub> )	96.0 °F
Reservoir Pressure (p <sub>resv</sub> )	1290.5 psi(a)
Oil Gravity (γ <sub>o</sub> )	30.0 °API
Oil Viscosity (μ <sub>o</sub> )	4.7024 cP
Oil Compressibility (c <sub>o</sub> )	7.9093e-06 1/psi
Oil Formation Volume Factor (B <sub>o</sub> )	1.133
Solution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

### Production and Times

Corrected Time (t <sub>c</sub> )	1.25 h
Total Cumulative Production Oil (Cum <sub>oil</sub> )	0.00 Mbbbl
Final Oil Rate (q <sub>o final</sub> )	1.0 bbl/d

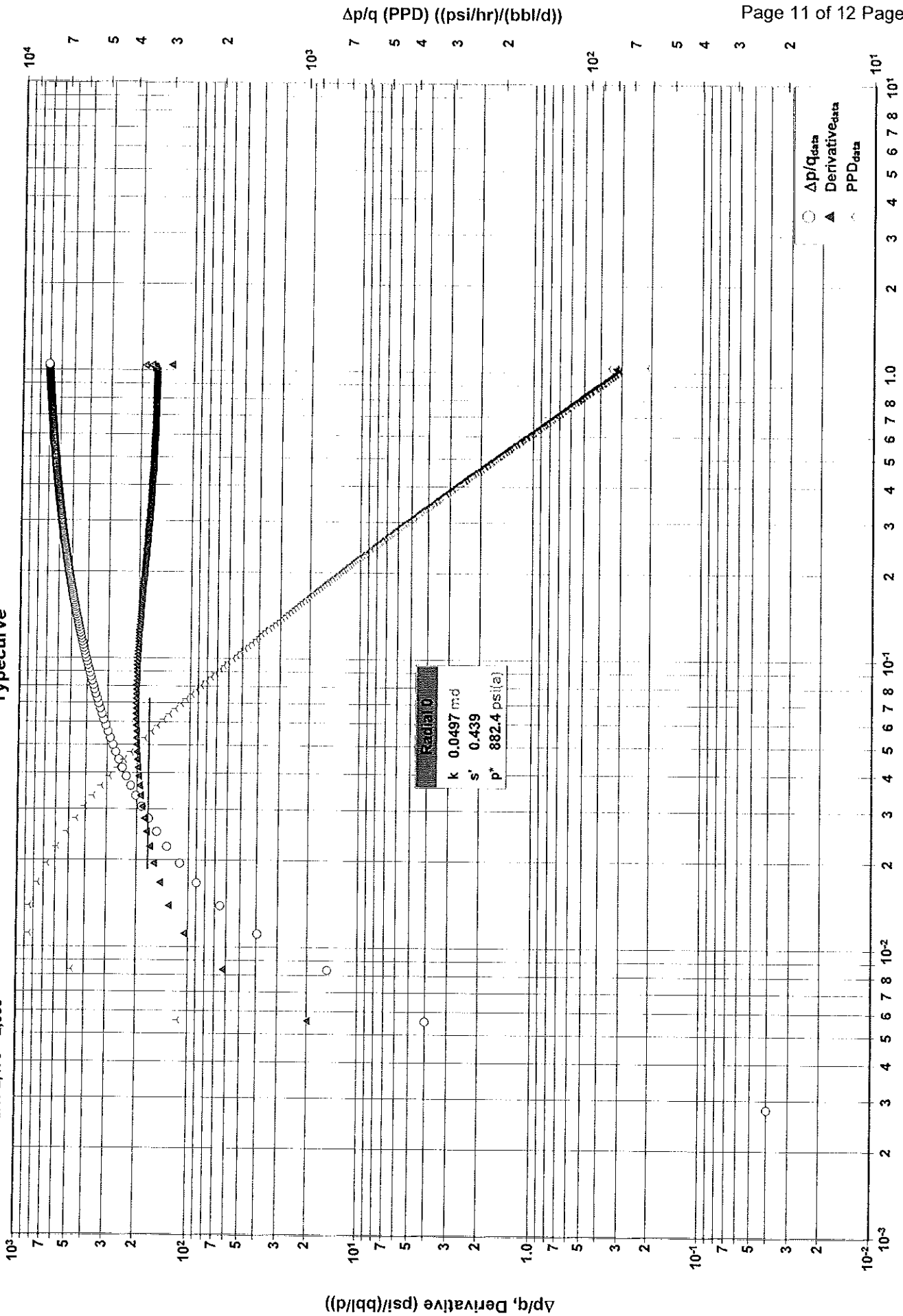
VESS OIL CORPORATION  
KNOX 'A' #55  
MISSISSIPPI CHERT 2,476' - 2,550'

History



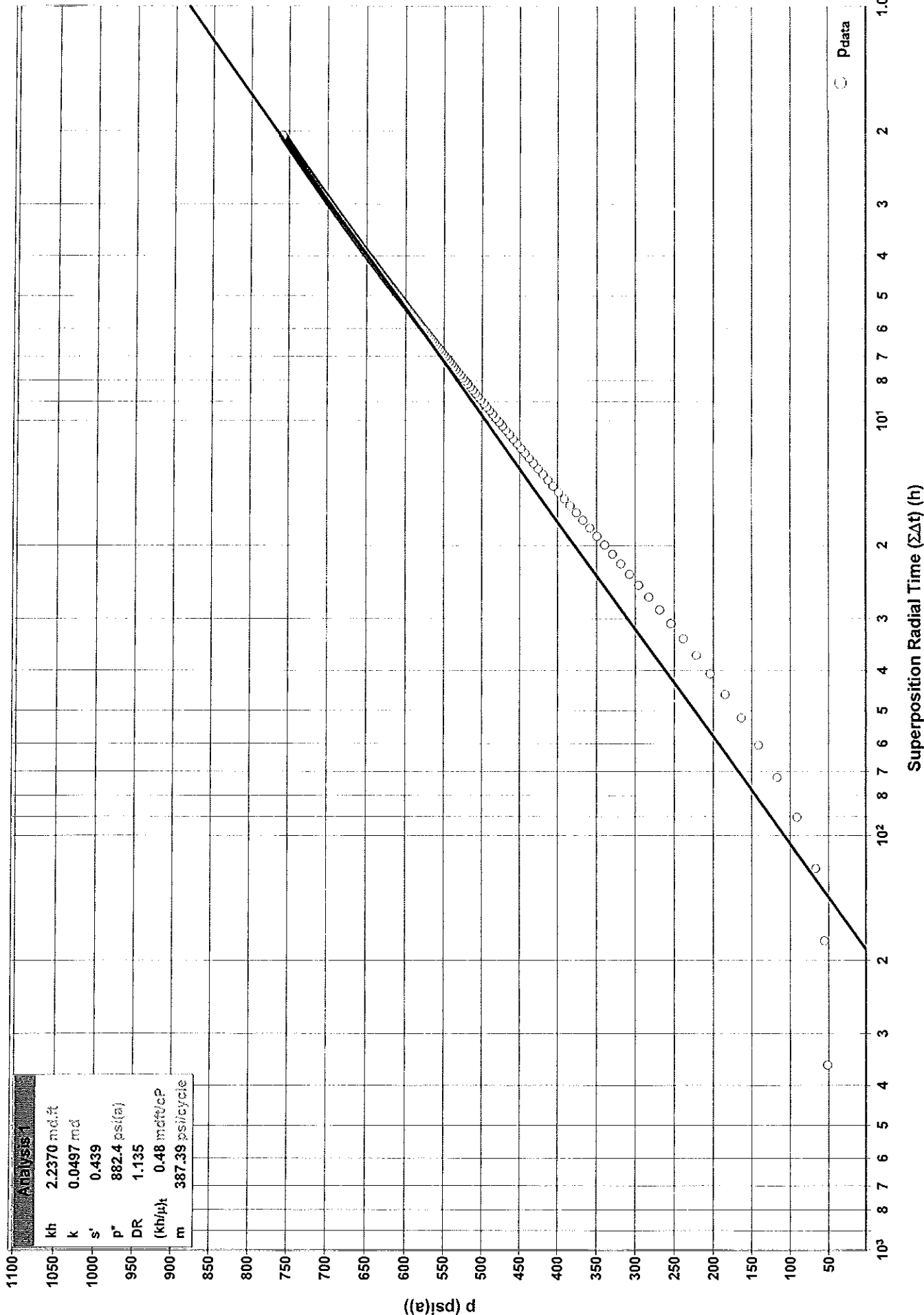
VESS OIL CORPORATION  
 KNOX 'A' #55  
 MISSISSIPPI CHERT 2,476' - 2,550'

Typecurve



VESS 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 mdft/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

