

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTN.M. Oil Cons. DIV-Div. 0
1301 W. Grand Avenue
Alamogordo, NM 88310
Approved
OMB No. 4004-0137
Expires: March 31, 2007
Case Serial No.
NM 69333

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other		6. If Indian, Allottee or Tribe Name							
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr., Other _____		7. Unit or CA Agreement Name and No.							
2. Name of Operator Yates Energy Corporation		8. Lease Name and Well No. Lonesome Dove Federal #2							
3. Address P. O. Box 2323 Roswell, NM 88201		9. AFI Well No. 30-015-33873							
4. Location of Well (Report location clearly and in accordance with Federal requirements)* At surface 660' FNL & 660' FEL At top prod. interval reported below 660' FNL & 660' FEL At total depth 660' FNL & 660' FEL		10. Field and Pool, or Exploratory East Hess Hills, Upper Penn Gas Bandana Point Strawn Gas Pool							
14. Date Spudded 04-30-05		15. Date T.D. Reached 06-11-05							
16. Date Completed ☐ D & A ☒ Ready to Prod.		17. Elevations (DF, RKB, RT, GL)* 4174' GL 4187' KB							
18. Total Depth: MD 10,400' TVD		19. Plug Back T.D.: MD 9,865 TVD							
20. Depth Bridge Plug Set: MD 9900' TVD		21. County or Parish Eddy NM							
22. Type Electric & Other Mechanical Logs Run (Submit copy of each) Borehole Compensated Sonic/HNGS Hi-Res Laterlog Array Micro-CFL/HNGS		23. Was well cored? ☒ No ☐ Yes (Submit analysis) Was DST run? ☐ No ☒ Yes (Submit report) Directional Survey? ☒ No ☐ Yes (Submit copy)							
24. Casing and Liner Record (Report all strings set in well)									
Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (FBL)	Cement Top*	Amount Pulled
17.5	13.375	48		340		450 C	97	Surface	None
11.0	8.625	32		2638		1125 C	616	Surface	None
7.875	4.50			10,391	6900	620 H	135	850'	None
						1150 HLP	252		
25. Tubing Record				26. Perforation Record					
Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	
2.375	8400	NA							
27. Acid, Fracture, Treatment, Cement Squeeze, etc.				28. Production - Interval A					
Depth Interval				Amount and Type of Material					
10,048-10,220				3500 gal 7.5% Nefe; 250 10% Acetic; 1600 gal 7.5% MC; 4000 gal 7.5% MS					
9,950- 9,982				250 10% Acetic; 3000 7.5% MC; Frac 32,700 gal Mitchell foam 30,000# Prop					
8,910- 8,944				250 10% Acetic; 3000 gal 7.5% MC Frac 30,000 Mitchell foam 29,100# Prop					
8,431- 8,436				2000 gallons 15% HCL Nefe Acid					
28a. Production - Interval B				28b. Production - Interval C					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						
28a. Production - Interval B				28b. Production - Interval C					
Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
			→						

*(See instructions and spaces for additional data on page 2)

ACCEPTED FOR RECORD

DEC 2 - 2004

LES BABYAK
PETROLEUM ENGINEER

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/10/05	10/31/5	24	→	0	34	0	NA	0.700	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
3/4	SI 120		→	0	34	0	3400/1	Producing to sales line	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
10/10/05	10/31/5	24	→	10	35	0	60	0.700	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas/Oil Ratio	Well Status	
3/4	SI 120		→	10	35	0	3500/1	Producing to sales line	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)

Sold

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
2nd Bone Spr	4530	4580	Unknown	Brushy Canyon	1258
L Cisco-Can2	8431	8436	Gas	Bone Springs Lime	2332
Upper Strawn SS	8910	8919	Gas	2nd Bone Springs Snd	4142
Lower Strawn SS	8929	8944	Gas	3rd Bone Springs Snd	7020
Morrow 3	9950	9982	Gas	Wolfcamp	7200
Morrow 1	10048	10084	Gas/water	L. Cisoo-Canyon	8324
Lower Morrow	10142	10150		L. Cisco-Canyon 2	8402
	10212	10220		Strawn	8888
				Upper Strawn SS	8910
				Lower Strawn SS	8929
				Strawn Lime	9008
				Atoka	9127
				Morrow	9636
				Middle Morrow	9915
				M-3	9944
				M-2	9998
				M-1	10048

32. Additional remarks (include plugging procedure):

Interval C (East Hess Hills Upper Penn Gas Pool) and Interval D (Bandana Point Strawn Gas Pool) are commingled.

33. Indicate which items have been attached by placing a check in the appropriate boxes:

- ☒ Electrical/Mechanical Logs (1 full set req'd.)
 ☐ Geologic Report
 ☒ DST Report
 ☒ Directional Survey
 ☐ Sundry Notice for plugging and cement verification
 ☐ Core Analysis
 ☐ Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions)*

Name (please print) Sheryl L. Jonas

Title Agent for Yates Energy Corporation

Signature

Sheryl L. Jonas

Date November 18, 2005

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.



DRILLING INC. Oil Well Drilling Contractor

Post Office Box 160 • Artesia, NM 88211-0160 • Office (505) 748-8704 • Fax (505) 748-8719

June 16, 2005

Yates Energy Corp.
P O Box 2323
Roswell, NM 88202

Re: Lonesome Dove #1
Sec. 26, T-23-S, R-23-E
Eddy County, New Mexico

The following is a Deviation Survey on the referenced well:

156' - 1/2°	4469' - 1 1/4°	5651' - 3°	7775' - 1°
338' - 2°	4561' - 2°	5696' - 2 1/2°	7964' - 3°
411' - 3/4°	4655' - 2 1/4°	5788' - 3 1/2°	8058' - 3 1/4°
886' - 3/4°	4747' - 3 1/4°	5942' - 2 1/2°	8153' - 3 1/2°
1380' - 1 1/4°	4808' - 1 1/2°	6128' - 2°	8309' - 3 1/4°
1781' - 1°	4902' - 2 1/2°	6222' - 2 1/2°	8496' - 3 1/4°
2295' - 1 1/2°	4995' - 2°	6409' - 2°	8682' - 2 3/4°
2638' - 1°	5088' - 2 1/2°	6595' - 1°	8981' - 2°
3104' - 1 1/2°	5181' - 3°	6779' - 1 1/2°	9263' - 2°
3578' - 3/4°	5274' - 2 3/4°	6966' - 1 3/4°	9545' - 1 3/4°
4069' - 1/2°	5366' - 3°	7156' - 1°	9843' - 1 1/4°
4284' - 1 1/4°	5465' - 3 3/4°	7343' - 1°	10367' - 1 1/4°
4377' - 1°	5558' - 3°	7588' - 3/4°	

Sincerely,

Gary W Chappell
Contracts Manager

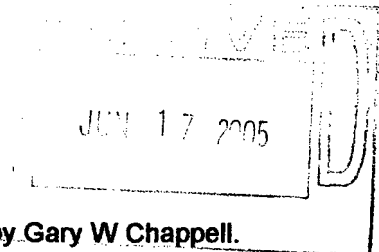
STATE OF NEW MEXICO)
COUNTY OF CHAVES)

The foregoing was acknowledged before me this 16th day of June, 2005 by Gary W Chappell.

MY COMMISSION EXPIRES

June 19th, 2007

NOTARY PUBLIC





NEW MEXICO ENERGY, MINERALS and NATURAL RESOURCES DEPARTMENT

BILL RICHARDSON

Governor

Joanna Prukop

Cabinet Secretary

Mark E. Fesmire, P.E.

Director

Oil Conservation Division

ADMINISTRATIVE ORDER DHC-3563

Yates Energy Corporation
PO Box 2323
Roswell, NM 88202

Attention: Sheryl L. Jonas

*Lonesome Dove Fed. Well No. 2
API No. 30-015-33873
Unit A, Section 26, Township 23 South, Range 23 East, NMPM,
EDDY County, New Mexico
Undesignated East Hess Hills-Upper Penn (Gas) (97383), and
Undesignated Bandana Point-Strawn (Gas) (71485) Pools*

From/Share  *Approved*
Jim O *9/13/05*

Dear Ms. Jonas:

Reference is made to your recent application for an exception to Rule 303.A. of the Division Rules and Regulations to permit the above-described well to commingle production from the subject pools in the wellbore.

It appearing that the subject well qualifies for approval for such exception pursuant to the provisions of Rule 303.C., and that reservoir damage or waste will not result from such downhole commingling, and correlative rights will not be violated thereby, you are hereby authorized to commingle the production as described above and any Division Order which authorized the dual completion or otherwise required separation of the zones is hereby placed in abeyance.

In accordance with Division 303C.(1)(f), the production attributed to any commingled pool within the well shall not exceed the allowable applicable to that pool.

Assignment of allowable to the well and allocation of production from the well shall be as follows.

<i>East Hess Hills-Upper Penn Gas Pool</i>	<i>Oil-100%</i>	<i>Gas-50%</i>
<i>Bandana Point-Strawn Gas Pool</i>	<i>Oil-0%</i>	<i>Gas-50%</i>

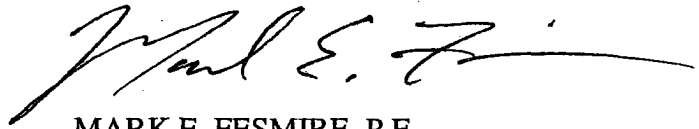
These percentages shall be amended only with written permission of the Division.

REMARKS: The operator shall notify the Artesia District Office of the Division upon implementation of commingling operations.

Pursuant to Rule 303C(2), the commingling authority granted herein may be rescinded by the Division Director if conservation is not being best served by such commingling.

Approved at Santa Fe, New Mexico on September 8, 2005.

STATE OF NEW MEXICO
OIL CONSERVATION DIVISION



MARK E. FESMIRE, P.E.
Director

cc: Oil Conservation Division – Artesia
Bureau of Land Management - Carlsbad



COMPANY : YATES ENERGY CORP.
LEASE : LONESOME DOVE FEDERAL
WELL NO. : # 2
FIELD : INDIAN HILL
COUNTY/STATE : EDDY / NEW MEXICO

TEST DATE : 05/28/05
D.S.T. NO. : 1
TEST TKT. NO. : 23066
INVOICE NO. : 21294
ORDER NO. :

FORMATION : CISCO
INTERVAL (ft) : 8400 TO 8450
TOTAL DEPTH (ft) : 8450
ELEVATION (ft) : 4174

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in) : 2.25
DRILL COLLAR feet : 647

ANCHOR LENGTH (ft): 50
TOOL LENGTH (ft) : 58
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN
RECORDER NO. : 9634
CAPACITY (psi): 10000
DEPTH (ft) : 8409
CLOCK NO. : 9634
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13709
CAPACITY (psi): 7350
DEPTH (ft) : 8447
CLOCK NO. : 19822
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : S.GEL & STARCH
MUD WT. (#/gal) : 9.00

WATER LOSS (cc) : 9.60
FILTER CAKE (in) : 1/32
VISCOSITY (sec) : 35

CHLORIDE PPM : 44000
RESISTIVITY(ohm-m) : .195

EQUIPMENT DATA

CONVENTIONAL : YES
STRADDLE : NO
SELECTIVE ZONE : NO
SAMPLE CHAMBER : YES
GAS ANALYSIS : YES

ROTARY JARS : YES
NO. OF PACKERS : 2
SAFETY JOINT : YES
CIRCULATING SUB : YES
REVERSED OUT : YES

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : YES
OTHER : YES
ZI ELECTRONICS (2)

SUCCESSFUL : YES

PACKER FAILURE : NO

TOOL PLUG : NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED : 9:40 PM

TOTAL TEST TIME: 919

INITIAL FLOW : 30
SECOND FLOW : 118
THIRD FLOW :

INITIAL SHUT-IN: 169
SECOND SHUT-IN : 601
THIRD SHUT IN :

TEST TOOL OPERATOR: DON TERHUNE

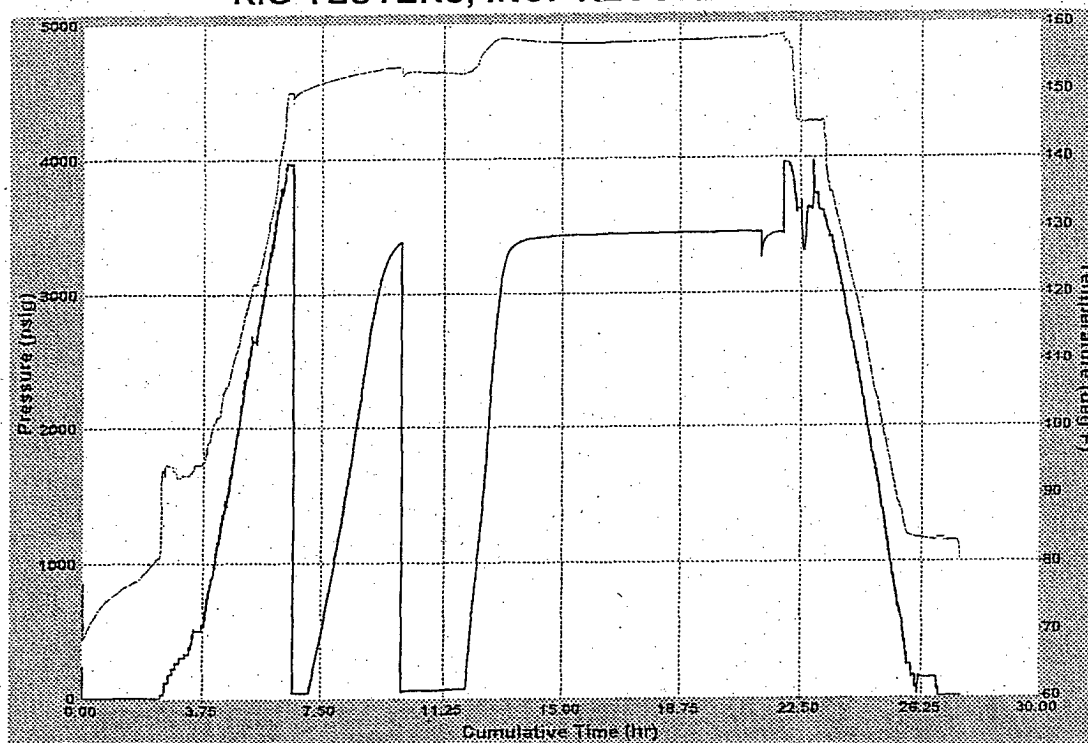


YATES ENERGY CORP.

LONESOME DOVE FEDERAL # 2
D.S.T. NO. :1

		CORRECTED READING	FIELD READING
A	INITIAL HYDROSTATIC:	3979 PSI	3979 PSI
B-1	INITIAL FIRST FLOW :	49 PSI	49 PSI
B-2	FINAL FIRST FLOW :	51 PSI	51 PSI
C	FIRST SHUT-IN :	3405 PSI	3405 PSI
D-1	INITIAL SECOND FLOW:	52 PSI	55 PSI
D-2	FINAL SECOND FLOW :	79 PSI	70 PSI
E	SECOND SHUT-IN :	3467 PSI	3472 PSI
H	FINAL HYDROSTATIC :	3978 PSI	3978 PSI

RIG TESTERS, INC. RECORDER# 9634



PIPE RECOVERY

RECOVERY DATA

B.H. TEMP. (deg F) : 158

SAMPLE CHAMBER

* SAMPLER PLUGGED

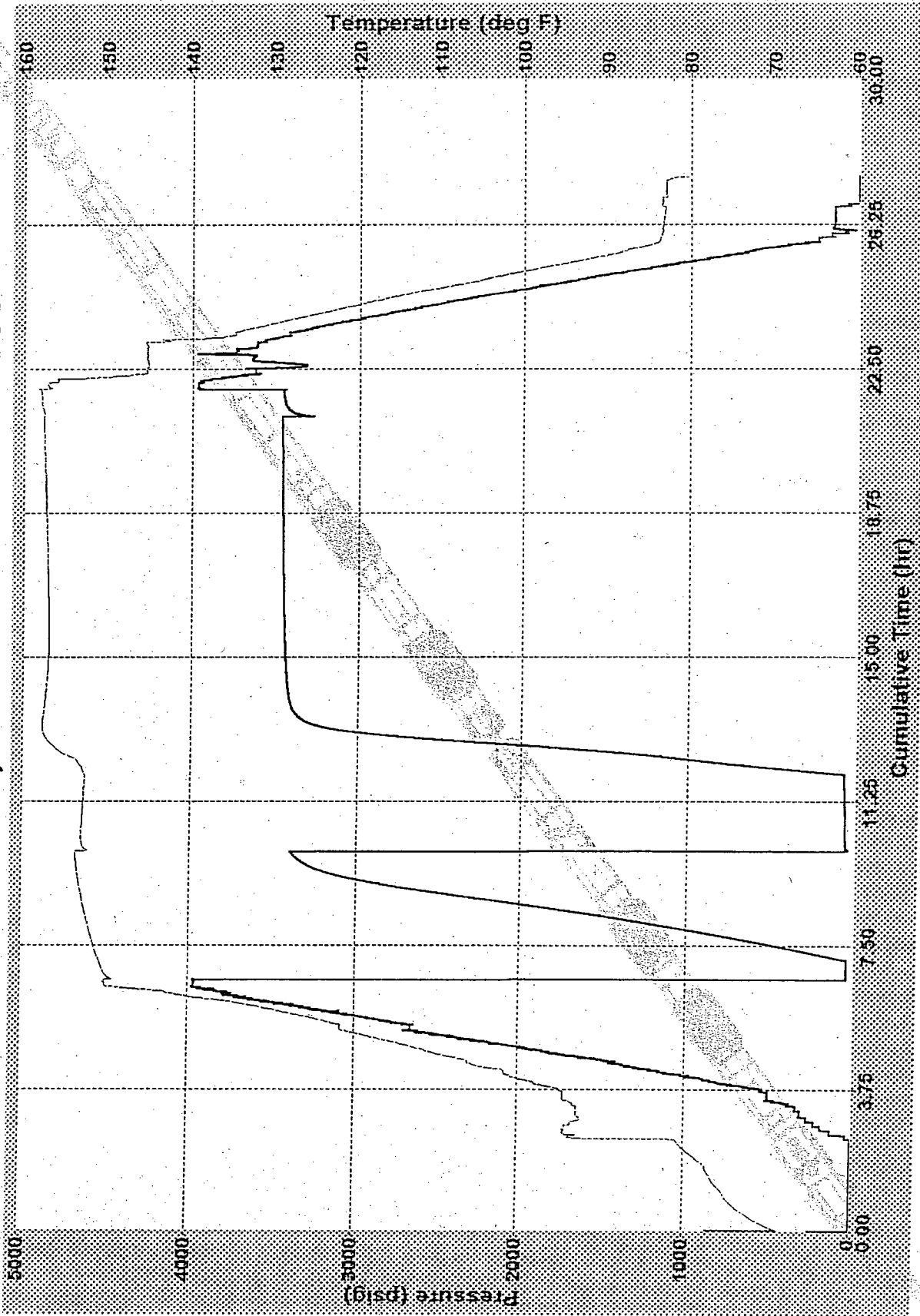
GAS TO SURFACE 20 MIN. INTO FINAL FLOW PERIOD
PULLED TO FLUID @ 250 FT. & REVERSED IN PIT AN EST;
160 FT. OF OIL & GAS CUT DRLG. MUD (1% OIL)
44,000 MG/L CHLORIDES- .195 OHMS @ 85 DEGREES
90 FT. OF DRLG. MUD- BELOW CIRC SUB

TEST REMARKS

TOOL OPENED WITH WEAK BLOW ON 1/8" CHOKE, 6.5 OZS. IN 5 MIN., 8 OZS. IN 10 MIN., 13 OZS. IN 20 MIN. & 18.5 OZS. AT END OF THE 30 MIN. FIRST FLOW. REOPENED TOOL WITH GOOD BLOW, 8 LBS. ON 1/4" CHOKE IN 1 MIN., 2 LBS. IN 5 MIN., 3 OZS. IN 10 MIN., GAS TO SURFACE IN 20 MIN. WITH 0 LBS. (T.S.T.M.) ON 1/4" CHOKE & REMAINED THROUGHOUT THE 120 MIN. FINAL FLOW PERIOD.

Company Name YATES ENERGY CORP.
Well Name LONESOME DOVE FEDERAL #2
Type of Test DST #1 (8400 - 8450 FT.; CISCO)
Date(s) of Test 5-28-05

RIG TESTERS, INC. RECORDER# 9634



CAPROCK LABORATORIES, INC.
3312 BANKHEAD HIGHWAY
MIDLAND, TEXAS 79701

CHROMATOGRAPHIC ANALYSIS

COMPANY:	RIG TESTERS	JOB #:	0505111
SAMPLE ID:	LONESOME DOVE FED #2	SAMPLE #:	1D1605UEX2
SAMPLE TYPE:	SPOT	DATE ON:	20050529
STATION:	DST 1	DATE OFF:	20050529
BASE PRESSURE, PSIA:	14.650	TIME ON:	0130
RANAREX GRAVITY:		TIME OFF:	0130
SAMPLE PRESS., psig:		SAMPLED BY:	CLIENT
GAS TEMP. F:		CYLINDER #:	000001
ANALYSIS DATE:	06-01-05	SAMPLE USE * :	A
ANALYSIS COMMENTS:			

COMPONENT	MOLE %	GPM
HYDROGEN SULFIDE	0.0000	
NITROGEN	9.8400	
OXYGEN	0.0000	
METHANE	61.0064	
CARBON DIOXIDE	0.0289	
ETHANE	8.7923	2.3386
PROPANE	7.7858	2.1335
ISO-BUTANE	1.3404	0.4361
N-BUTANE	4.1535	1.3023
ISO-PENTANE	1.4481	0.5270
N-PENTANE	1.5497	0.5582
HEXANES	1.4407	0.5893
HEPTANES +	2.6142	1.1993
TOTAL	100.0000	9.0843

HEATING VALUE

BTU DRY	1474.4
BTU SATURATED	1448.7

COMPRESSIBILITY, Z	0.9939
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RELATIVE DENSITY	0.9616
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AVE. MOLE WEIGHT	27.8509
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H2S, TUTWEILER, GR./100 CUBIC FEET	0.0
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26 # GASOLINE	6.9964
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BASE CONDITIONS, 14.65 PSIA @ 60 DEGREES FAHRENHEIT

* A = ACCOUNTABLE, O = OPERATIONAL

YATES ENERGY CORP.


 LONESOME DOVE FEDERAL # 2
 D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8409 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST FLOW					
.0	.0			49.10	.00
2.0	2.0			50.00	.90
4.0	4.0			50.10	1.00
6.0	6.0			50.10	1.00
8.0	8.0			50.10	1.00
10.0	10.0			50.10	1.00
12.0	12.0			50.30	1.20
14.0	14.0			50.30	1.20
16.0	16.0			50.50	1.40
18.0	18.0			50.50	1.40
20.0	20.0			50.60	1.50
22.0	22.0			50.70	1.60
24.0	24.0			50.70	1.60
26.0	26.0			50.90	1.80
28.0	28.0			50.90	1.80
29.5	29.5			51.00	1.90
FIRST SHUT-IN					
29.5	29.5	.00	.000	51.00	.00
30.5	29.5	1.00	30.520	70.76	19.76
31.5	29.5	2.00	15.760	91.51	40.51
32.5	29.5	3.00	10.840	110.70	59.70
33.5	29.5	4.00	8.380	129.88	78.88
34.5	29.5	5.00	6.904	150.02	99.02
35.5	29.5	6.00	5.920	169.10	118.10
36.5	29.5	7.00	5.217	188.27	137.27
37.5	29.5	8.00	4.690	208.41	157.41
38.5	29.5	9.00	4.280	227.50	176.50
39.5	29.5	10.00	3.952	246.78	195.78
41.5	29.5	12.00	3.460	286.50	235.50
43.5	29.5	14.00	3.109	326.42	275.42
45.5	29.5	16.00	2.845	365.47	314.47
47.5	29.5	18.00	2.640	405.70	354.70
49.5	29.5	20.00	2.476	446.33	395.33
52.5	29.5	23.00	2.283	507.33	456.33
55.5	29.5	26.00	2.135	569.03	518.03
58.5	29.5	29.00	2.018	631.33	580.33
61.5	29.5	32.00	1.923	694.44	643.44
64.5	29.5	35.00	1.843	758.35	707.35
67.5	29.5	38.00	1.777	823.04	772.04
74.5	29.5	45.00	1.656	976.40	925.40
79.5	29.5	50.00	1.590	1089.48	1038.48
84.5	29.5	55.00	1.537	1204.01	1153.01
89.5	29.5	60.00	1.492	1322.80	1271.80
94.5	29.5	65.00	1.454	1444.51	1393.51

YATES ENERGY CORP.


 LONESOME DOVE FEDERAL # 2
 D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8409 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST SHUT-IN					
99.5	29.5	70.00	1.422	1568.39	1517.39
104.5	29.5	75.00	1.394	1697.00	1646.00
109.5	29.5	80.00	1.369	1829.26	1778.26
114.5	29.5	85.00	1.347	1965.03	1914.03
119.5	29.5	90.00	1.328	2105.60	2054.60
124.5	29.5	95.00	1.311	2247.31	2196.31
129.5	29.5	100.00	1.295	2388.83	2337.83
134.5	29.5	105.00	1.281	2529.10	2478.10
139.5	29.5	110.00	1.268	2664.53	2613.53
144.5	29.5	115.00	1.257	2790.19	2739.19
149.5	29.5	120.00	1.246	2907.60	2856.60
154.5	29.5	125.00	1.236	3011.52	2960.52
159.5	29.5	130.00	1.227	3100.33	3049.33
164.5	29.5	135.00	1.219	3175.50	3124.50
169.5	29.5	140.00	1.211	3236.23	3185.23
174.5	29.5	145.00	1.204	3284.56	3233.56
179.5	29.5	150.00	1.197	3322.80	3271.80
184.5	29.5	155.00	1.190	3352.52	3301.52
189.5	29.5	160.00	1.185	3375.63	3324.63
194.5	29.5	165.00	1.179	3393.90	3342.90
199.0	29.5	169.50	1.174	3405.50	3354.50

SECOND FLOW					
200.5	31.0			52.60	.00
203.5	34.0			63.70	11.10
206.5	37.0			64.80	12.20
209.5	40.0			65.60	13.00
212.5	43.0			66.00	13.40
215.5	46.0			66.20	13.60
218.5	49.0			67.10	14.50
221.5	52.0			66.90	14.30
224.5	55.0			67.30	14.70
227.5	58.0			67.90	15.30
230.5	61.0			68.00	15.40
233.5	64.0			68.40	15.80
236.5	67.0			68.60	16.00
239.5	70.0			68.70	16.10
242.5	73.0			69.40	16.80
245.5	76.0			69.40	16.80
248.5	79.0			69.70	17.10
251.5	82.0			70.00	17.40
254.5	85.0			70.30	17.70
257.5	88.0			70.30	17.70
260.5	91.0			70.50	17.90
263.5	94.0			70.90	18.30

YATES ENERGY CORP.


 LONESOME DOVE FEDERAL # 2
 D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8409 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
------------------------------	---------------------------------------	---	--------------------------------	------------------------	-----------------------

SECOND FLOW

266.5	97.0			70.80	18.20
269.5	100.0			70.90	18.30
272.5	103.0			70.90	18.30
275.5	106.0			71.50	18.90
278.5	109.0			71.00	18.40
281.5	112.0			71.30	18.70
284.5	115.0			71.60	19.00
287.5	118.0			72.70	20.10
290.5	121.0			73.30	20.70
293.5	124.0			74.30	21.70
296.5	127.0			75.10	22.50
299.5	130.0			75.30	22.70
302.5	133.0			76.10	23.50
305.5	136.0			76.90	24.30
308.5	139.0			77.30	24.70
311.5	142.0			77.90	25.30
314.5	145.0			78.60	26.00
317.5	148.0			79.00	26.40
318.8	149.3			79.20	26.60

SECOND SHUT-IN

318.8	149.3	.00	.000	79.20	.00
320.8	149.3	2.00	75.640	165.84	86.64
322.8	149.3	4.00	38.320	255.92	176.72
324.8	149.3	6.00	25.880	342.50	263.30
326.8	149.3	8.00	19.660	431.72	352.52
328.8	149.3	10.00	15.928	520.12	440.92
330.8	149.3	12.00	13.440	603.40	524.20
332.8	149.3	14.00	11.663	686.41	607.21
334.8	149.3	16.00	10.330	764.75	685.55
336.8	149.3	18.00	9.293	835.40	756.20
338.8	149.3	20.00	8.464	904.31	825.11
341.8	149.3	23.00	7.490	1004.71	925.51
344.8	149.3	26.00	6.742	1108.13	1028.93
347.8	149.3	29.00	6.148	1219.72	1140.52
350.8	149.3	32.00	5.665	1340.98	1261.78
353.8	149.3	35.00	5.265	1471.33	1392.13
356.8	149.3	38.00	4.928	1610.82	1531.62
363.8	149.3	45.00	4.317	1968.70	1889.50

YATÈS ENERGY CORP.


 LONESOME DOVE FEDERAL # 2
 D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8409 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
		SECOND SHUT-IN			
368.8	149.3	50.00	3.986	2248.06	2168.86
373.8	149.3	55.00	3.714	2525.53	2446.33
378.8	149.3	60.00	3.488	2770.70	2691.50
383.8	149.3	65.00	3.297	2974.94	2895.74
388.8	149.3	70.00	3.133	3124.82	3045.62
393.8	149.3	75.00	2.990	3225.40	3146.20
398.8	149.3	80.00	2.866	3292.32	3213.12
403.8	149.3	85.00	2.756	3335.80	3256.60
408.8	149.3	90.00	2.659	3364.40	3285.20
413.8	149.3	95.00	2.571	3384.08	3304.88
418.8	149.3	100.00	2.493	3397.98	3318.78
423.8	149.3	105.00	2.422	3407.90	3328.70
428.8	149.3	110.00	2.357	3415.53	3336.33
433.8	149.3	115.00	2.298	3421.33	3342.13
438.8	149.3	120.00	2.244	3426.00	3346.80
448.8	149.3	130.00	2.148	3433.02	3353.82
458.8	149.3	140.00	2.066	3437.83	3358.63
468.8	149.3	150.00	1.995	3441.70	3362.50
478.8	149.3	160.00	1.933	3444.60	3365.40
488.8	149.3	170.00	1.878	3447.00	3367.80
498.8	149.3	180.00	1.829	3449.00	3369.80
508.8	149.3	190.00	1.786	3450.62	3371.42
528.8	149.3	210.00	1.711	3453.40	3374.20
548.8	149.3	230.00	1.649	3455.71	3376.51
568.8	149.3	250.00	1.597	3457.60	3378.40
588.8	149.3	270.00	1.553	3459.10	3379.90
608.8	149.3	290.00	1.515	3460.59	3381.39
628.8	149.3	310.00	1.482	3461.80	3382.60
648.8	149.3	330.00	1.452	3463.00	3383.80
668.8	149.3	350.00	1.427	3463.91	3384.71
688.8	149.3	370.00	1.403	3464.90	3385.70
708.8	149.3	390.00	1.383	3465.80	3386.60
728.8	149.3	410.00	1.364	3466.70	3387.50
748.8	149.3	430.00	1.347	3467.50	3388.30
768.8	149.3	450.00	1.332	3468.40	3389.20
788.8	149.3	470.00	1.318	3469.10	3389.90
808.8	149.3	490.00	1.305	3469.90	3390.70
828.8	149.3	510.00	1.293	3470.70	3391.50
848.8	149.3	530.00	1.282	3471.60	3392.40
868.8	149.3	550.00	1.271	3472.38	3393.18

YATES ENERGY CORP.



LONESOME DOVE FEDERAL # 2
D.S.T. NO. : 1

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

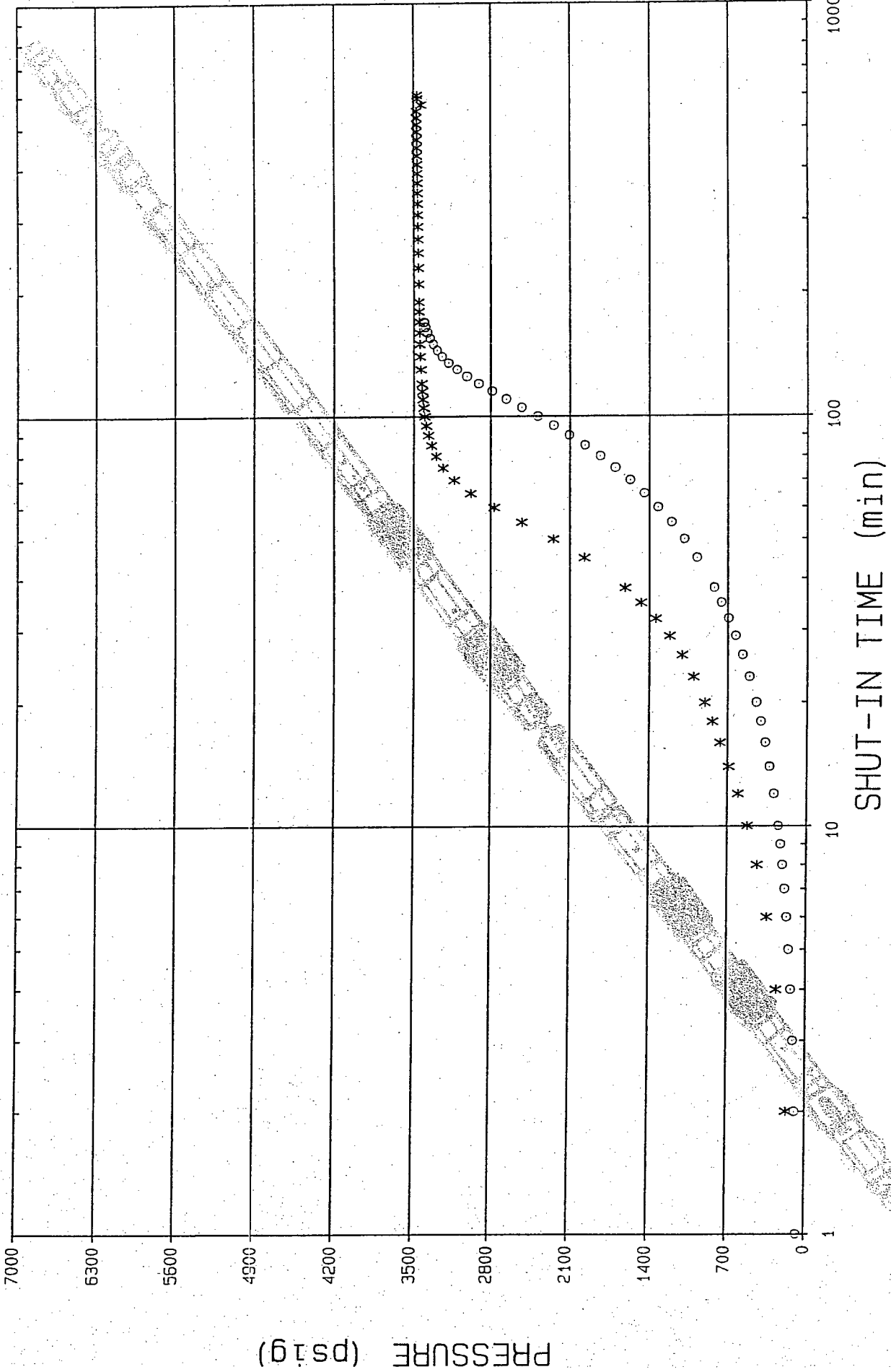
RECORDER DEPTH : 8409 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
		SECOND SHUT-IN			
888.8	149.3	570.00	1.262	3430.30	3351.10
908.8	149.3	590.00	1.253	3462.72	3383.52
920.3	149.3	601.50	1.248	3467.00	3387.80

REMARKS

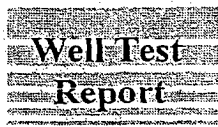
THE INCREMENTAL DATA, PLOTS AND ANALYSIS ARE FROM THE ELECTRONIC RECORDER
PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION
(PRESSURE ASCII FILE IS AVAILABLE ON DISKETTE UPON REQUEST)

PRESSURE TIME



ATES ENERGY CORP.

ONESOME DOVE FEDERAL # 2



RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

YATES ENERGY CORPORATION LONESOME DOVE #2



Well identification

Well ID	LONESOME DOVE	Well location	S.W. CARLSBAD
County/District	EDDY	State, Country	NEW MEXICO
Company	YATES ENERGY	Division	ROSWELL

Fluid properties

Prod/Inj fluid	GAS	GOR	N/A
Water cut	0%	Condensate yield	UNKNOWN
API gravity	N/A	Gas spec. grav.	0.675
Viscosity	2.1149e-2 cp	Pseudo-critical T	377.17 deg R
Pseudo-critical P	666.05 psia	H2S mole fraction	UNKNOWN
CO2 mole fraction	UNKNOWN	N2 mole fraction	UNKNOWN
Compressibility(t)	178.75 e-6/psi	Formation vol factor	0.78523 RB/MSCF

Reservoir properties

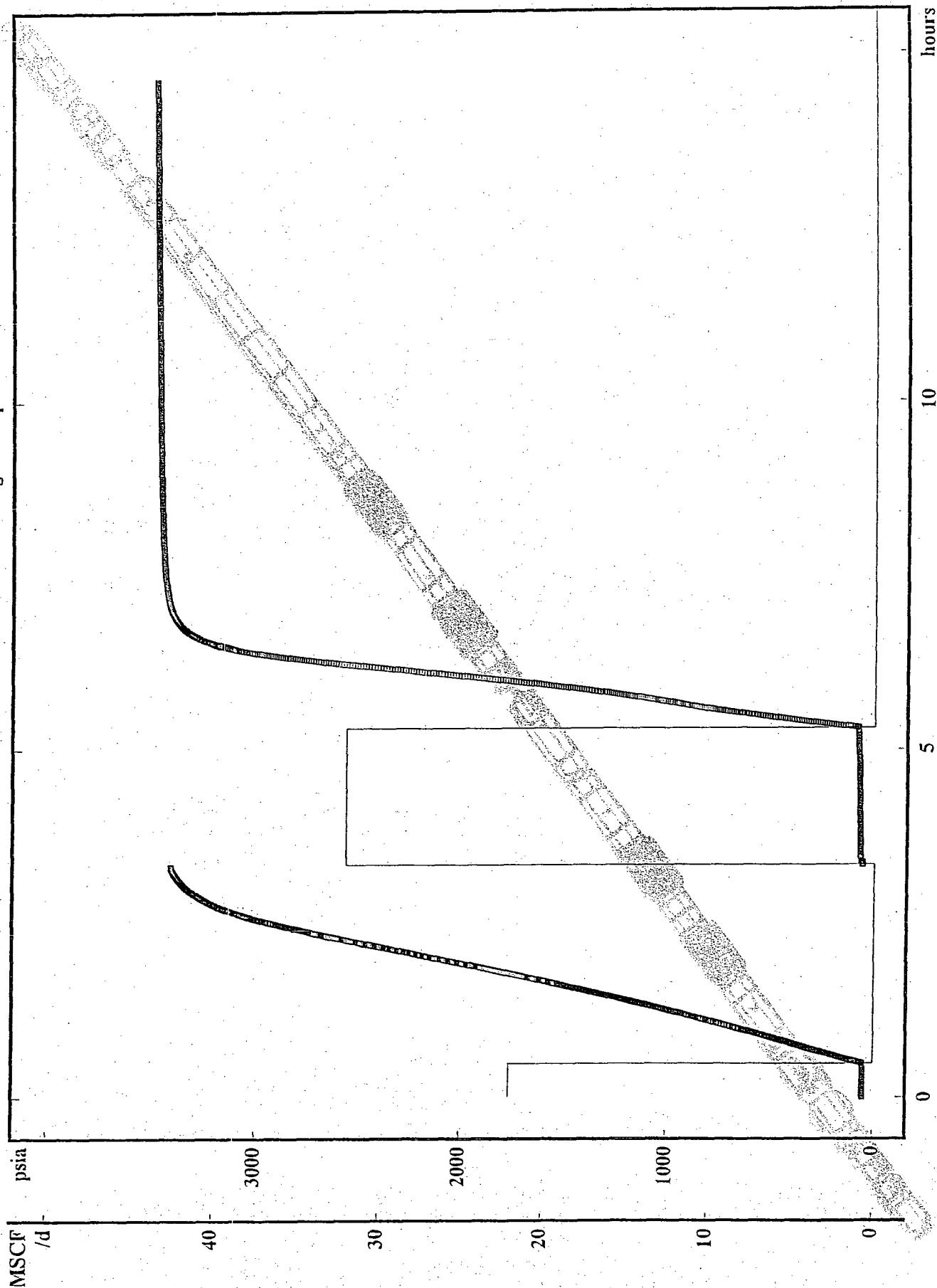
Porosity	0.12 frac	Formation thickness	10 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	N/A	Gas-Oil Contact	UNKNOWN
Gas-Water Contact	UNKNOWN	Rock compressibility	
Reservoir temperature	158 deg F	Pressure for properties	3460.7 psia

Comments

THE DERIVATIVES INDICATE A HETEROGENEOUS RESERVOIR WITH LOW PERMEABILITY & HIGH (POSITIVE) SKIN. THE INITIAL SHUT-IN PERIOD HAD JUST BEGAN TRANSITION & HAD NOT ACHIEVED RADIAL FLOW REGIME; THIS MAKES CALCULATIONS FROM IT (EXTRAPOLATION, PERMEABILITY, SKIN, ETC.) AMBIGUOUS & UNRELIABLE. THE FINAL SHUT-IN PERIOD INDICATES A DIP IN MID & LATE TIME DATA ON DERIVATIVE CURVE & A SLOPE INCREASE (LESS THAN DOUBLE) ON HORNER PLOT. THIS CONDITION USUALLY INDICATES A MULTIPLE OR DUAL POROSITY SYSTEM IN THE TEST INTERVAL BUT MAY BE THE REFLECTION OF A BOUNDARY OR BARRIER. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 10 FT. OF NET PAY REPORTED AND AN AVERAGE FLOW RATE OF 32 MCFPD FOR FINAL FLOW PERIOD. THE RATES WERE BASED ON MAXIMUM PRESSURE RECORDED ON A 1/4" CHOKE DURING THE FINAL FLOW PERIOD. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO APPROX. 30 FT. FROM THE WELLBORE. THE OVERALL TEST DATA INDICATES A RESERVOIR WITH VERY LOW PERMEABILITY & VERY HIGH (POSITIVE) SKIN.

YATES ENERGY CORPORATION LONESOME DOVE #2

Pressure and flow rate vs time during test sequence

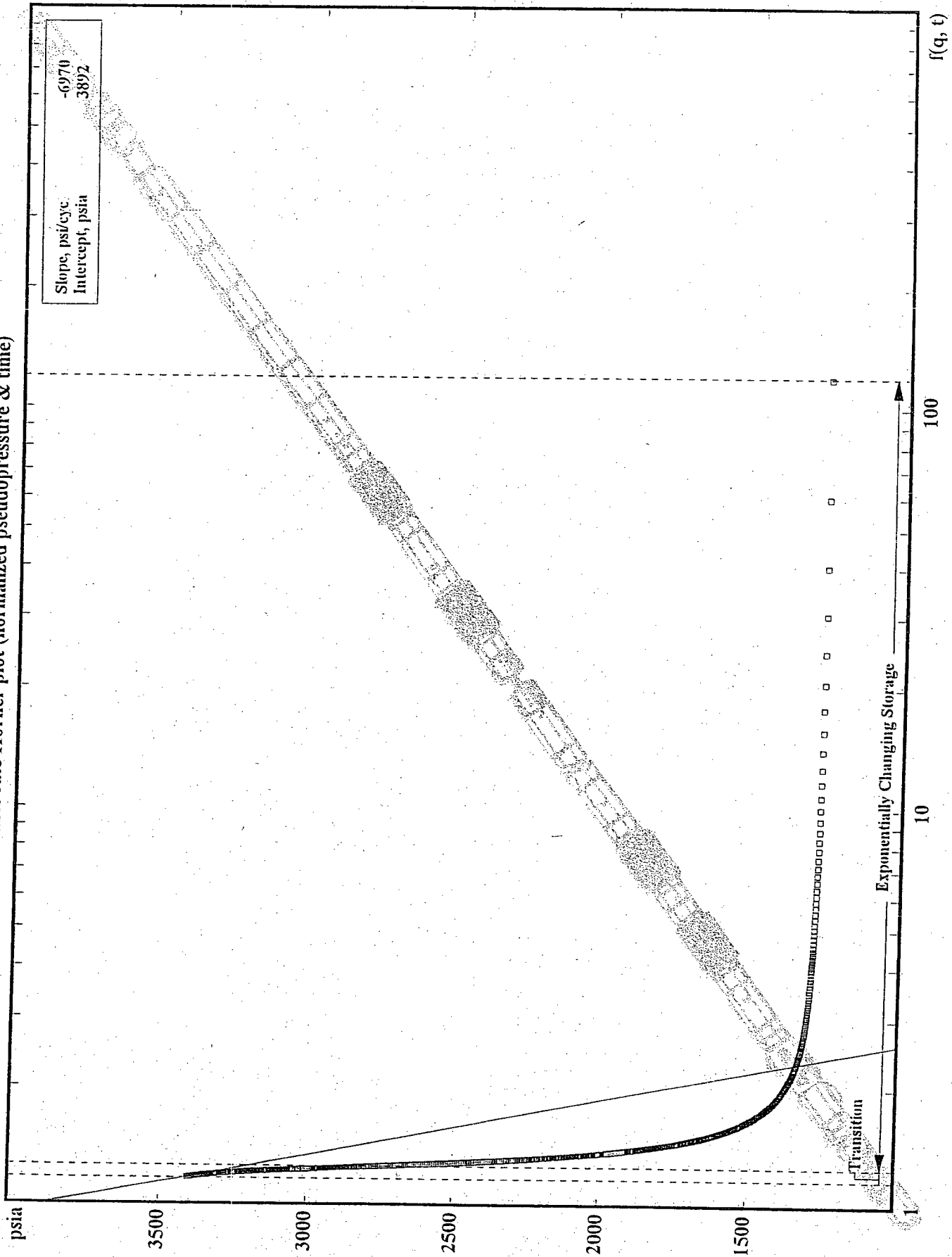


DST #1 8400 - 8450 FT. CISCO LIME



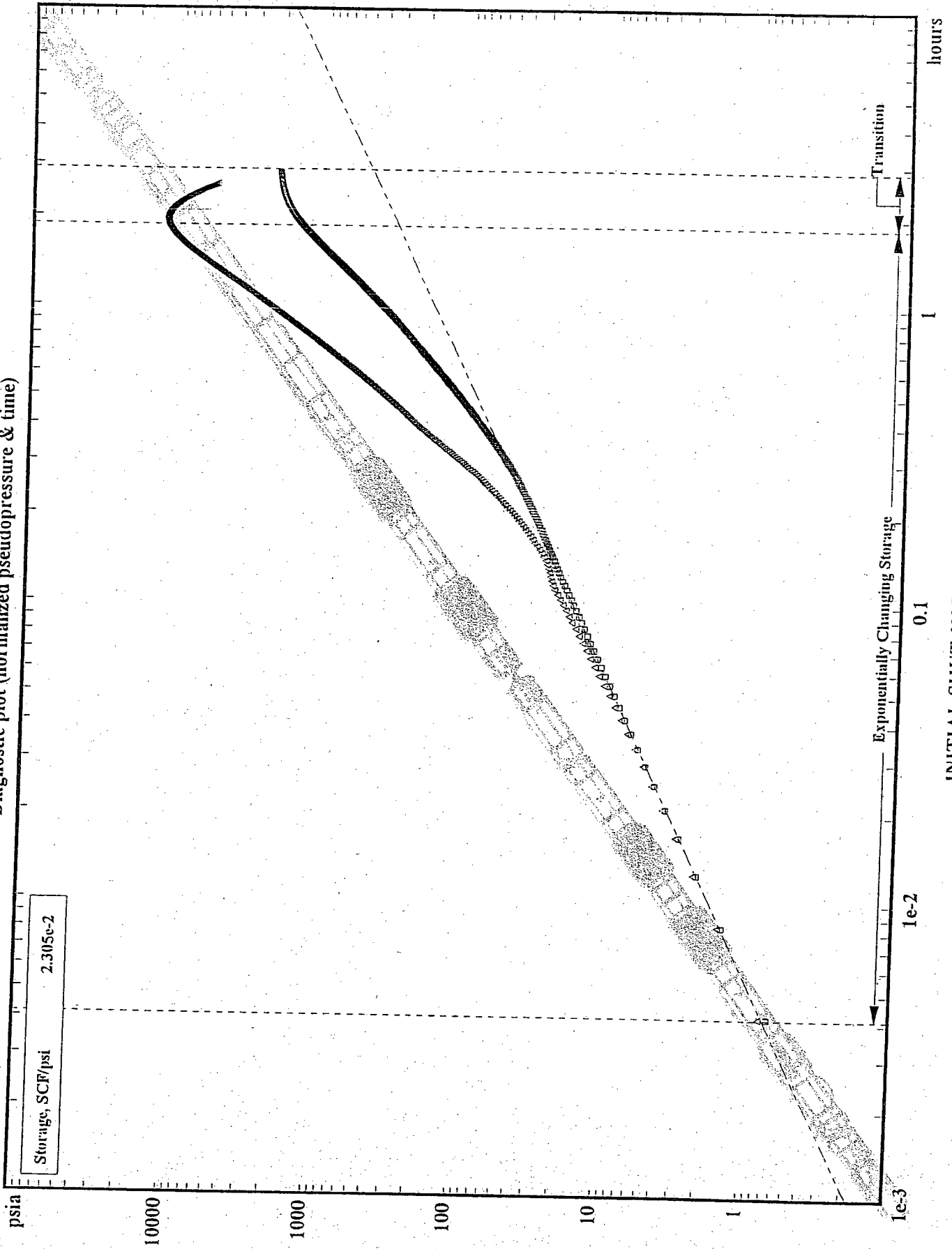
YATES ENERGY CORPORATION LONESOME DOVE #2

Variable rate Horner plot (normalized pseudopressure & time)



YATES ENERGY CORPORATION LONESOME DOVE #2

Diagnostic plot (normalized pseudopressure & time)

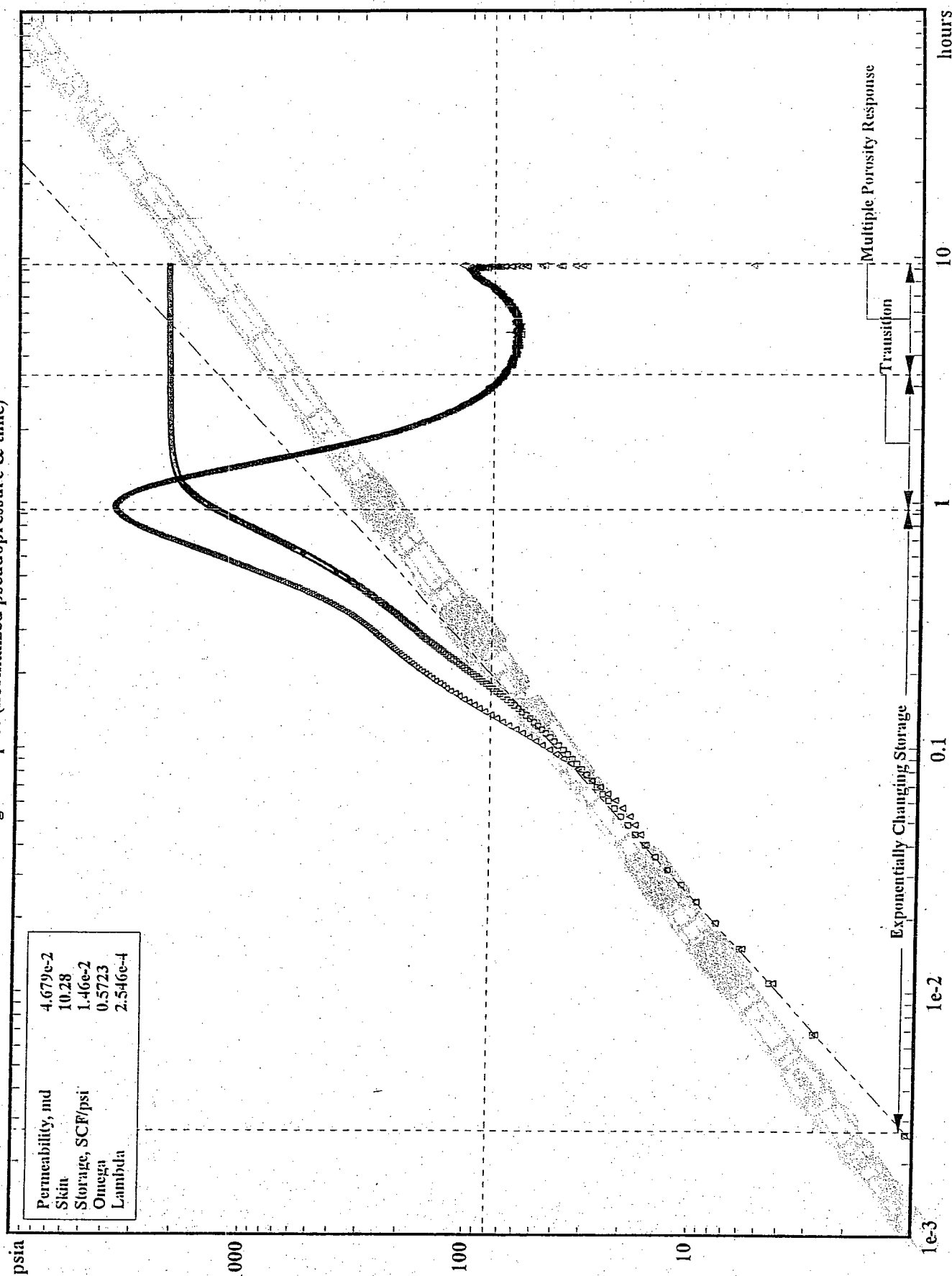


INITIAL SHUT-IN PERIOD DST #1



YATES ENERGY CORPORATION LONESOME DOVE #2

Diagnostic plot (normalized pseudopressure & time)

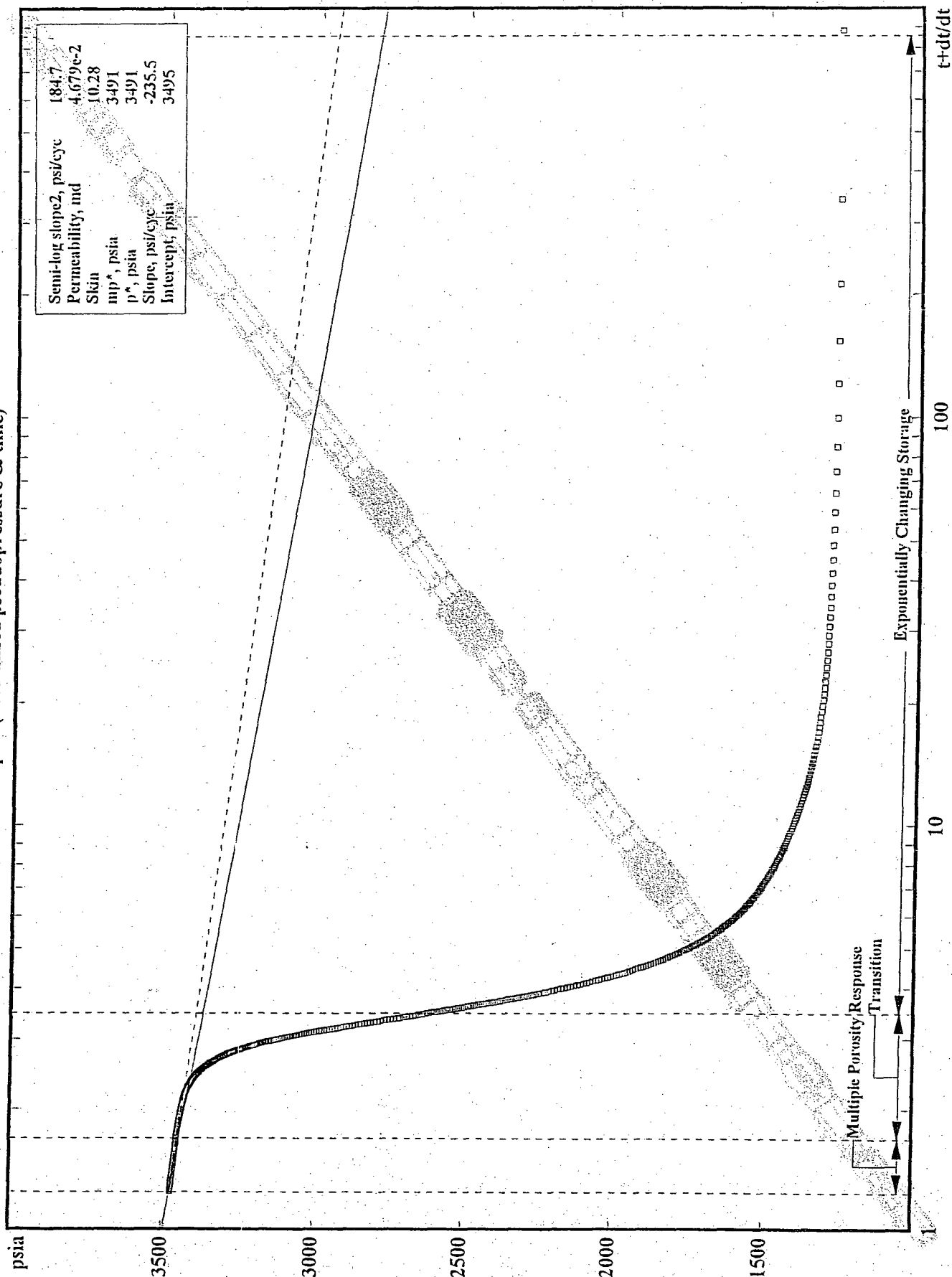


FINAL SHUT-IN PERIOD DST #1



YATES ENERGY CORPORATION LONESOME DOVE #2

Horner plot (normalized pseudopressure & time)

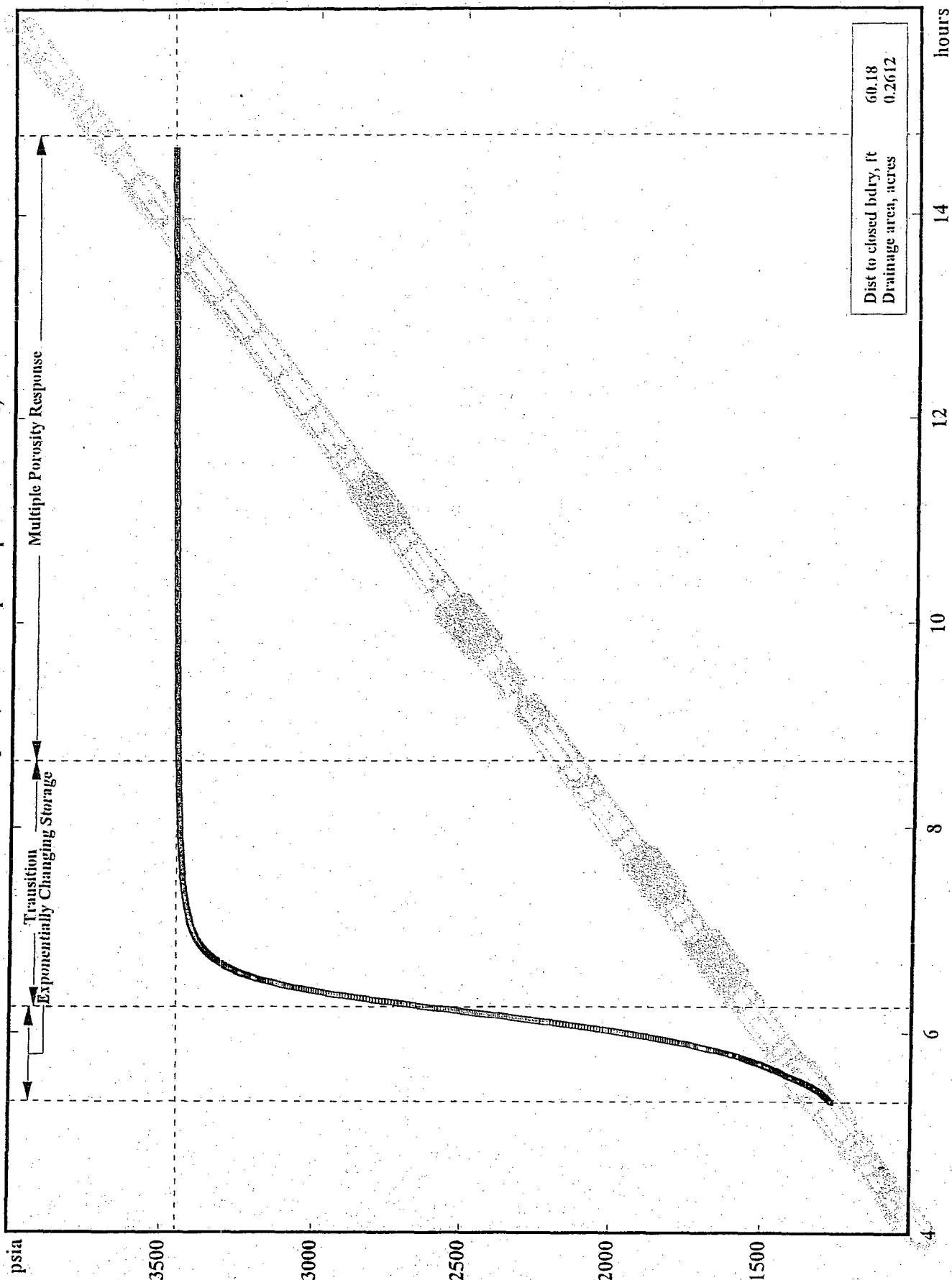


FINAL SHUT-IN PERIOD DST #1



YATES ENERGY CORPORATION LONESOME DOVE #2

Cartesian plot (normalized pseudopressure & time)



FINAL SHUT-IN PERIOD DST #1



COMPANY : YATES ENERGY CORP.
LEASE : LONESOME DOVE FEDERAL
WELL NO : # 2
FIELD : INDIAN HILL
COUNTY/STATE : EDDY / NEW MEXICO

TEST DATE : 06/01/05
D.S.T. NO. : 2
TEST TKT. NO. : 23067
INVOICE NO. : 21302
ORDER NO. :

FORMATION : CANYON
INTERVAL (ft) : 8913 TO 8959
TOTAL DEPTH (ft) : 8959
ELEVATION (ft) : 4174

HOLE SIZE (in) : 7.875
DRILL PIPE ID (in) : 3.82
DRILL COLLAR ID(in) : 2.25
DRILL COLLAR feet : 647

ANCHOR LENGTH (ft): 46
TOOL LENGTH (ft) : 54
TOOL O.D. (in) : 5
PACKER SIZE (in) : 7.00

RECORDER DATA
AK-1KUSTER / ZIPROBE

TOP RECORDER: IN
RECORDER NO. : 9634
CAPACITY (psi): 10000
DEPTH (ft) : 8917
CLOCK NO. : 9634
DURATION (hrs): 99

BOTTOM RECORDER: OUT
RECORDER NO. : 13709
CAPACITY (psi): 7350
DEPTH (ft) : 8956
CLOCK NO. : 19643
DURATION (hrs): 24

MUD PROPERTIES

MUD TYPE : S.GEL & STARCH
MUD WT. (#/gal) : 9.10

WATER LOSS (cc) : 9.60
FILTER CAKE (in) : 1/32
VISCOSITY (sec) : 32

CHLORIDE PPM : 48000
RESISTIVITY(ohm-m): .185

EQUIPMENT DATA

CONVENTIONAL : YES
STRADDLE : NO
SELECTIVE ZONE : NO
SAMPLE CHAMBER : YES
GAS ANALYSIS : YES

ROTARY JARS : YES
NO. OF PACKERS : 2
SAFETY JOINT : YES
CIRCULATING SUB : YES
REVERSED OUT : YES

MULTIFLOW : NO
MILEAGE : NO
OPERATOR TIME : YES
OTHER : YES
ZI ELECTRONICS (2)

SUCCESSFUL : YES

PACKER FAILURE : NO

TOOL PLUG : NO

DECIDED NOT TO TEST : NO

FAIL TO REACH BOTTOM : NO

TIME INTERVAL DATA (min)

TOOL OPENED : 10:30 PM

TOTAL TEST TIME: 749

INITIAL FLOW : 13
SECOND FLOW : 119
THIRD FLOW :

INITIAL SHUT-IN: 136
SECOND SHUT-IN : 481
THIRD SHUT IN :

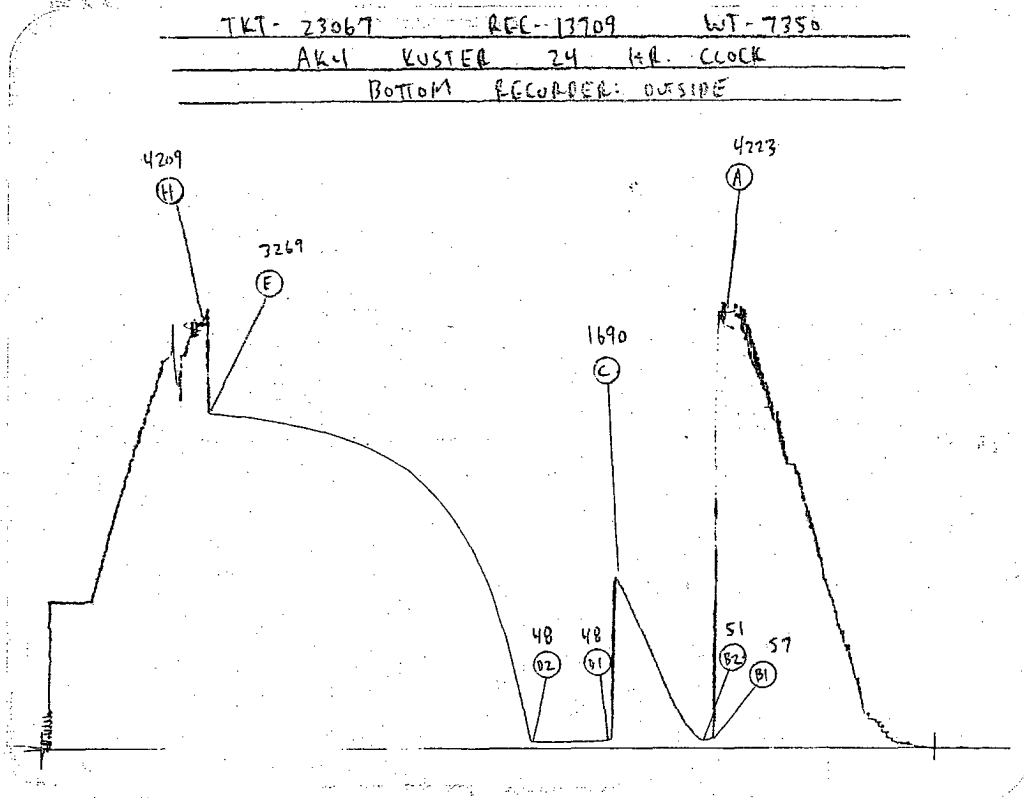
TEST TOOL OPERATOR: DON TERHUNE



YATES ENERGY CORP.

LONESOME DOVE FEDERAL # 2
D.S.T. NO. : 2

	CORRECTED READING	FIELD READING
A INITIAL HYDROSTATIC:	4211 PSI	4210 PSI
B-1 INITIAL FIRST FLOW :	39 PSI	38 PSI
B-2 FINAL FIRST FLOW :	44 PSI	44 PSI
C FIRST SHUT-IN :	1678 PSI	1678 PSI
D-1 INITIAL SECOND FLOW:	25 PSI	26 PSI
D-2 FINAL SECOND FLOW :	37 PSI	37 PSI
E SECOND SHUT-IN :	3257 PSI	3257 PSI
H FINAL HYDROSTATIC :	4199 PSI	4210 PSI



RECOVERY DATA

PIPE RECOVERY

B.H. TEMP. (deg F) : 167

SAMPLE CHAMBER

GAS TO SURFACE 70 MIN. INTO FINAL FLOW PERIOD
PULLED 10 STANDS & REVERSED OUT IN PIT AN EST;
70 FT. OF DRLG. MUD
48,000 MG/L CHLORIDES- .185 OHMS @ 85 DEGREES
90 FT. OF DRLG. MUD- BELOW CIRC SUB

0 LBS. OF PRESSURE
0.00 CU. FT. OF GAS
1800 CC'S OF DRLG. MUD
48,000 MG/L CHLORIDES
.185 OHMS @ 85 DEGREES

TEST REMARKS

TOOL OPENED WITH WEAK BLOW ON 1/8" CHOKE WHICH INCREASED TO GOOD BLOW (18" IN WATER) IN 7 MIN. & 9.5 OZS. AT END OF THE 15 MIN. FIRST FLOW. RE-OPENED TOOL WITH GOOD BLOW ON 1/8" CHOKE (18" IN WATER) IN 15 SECONDS, 4 LBS. IN 1 MIN., 4.5 LBS. IN 10 MIN., CHANGED CHOKE TO 1/4" WITH 3 LBS. IN 12 MIN., 5 OZS. IN 15 MIN., (1/8" IN WATER) IN 20 MIN., GAS TO SURFACE IN 70 MIN. WITH 0 LBS. (TSTM) ON 1/4" THROUGHOUT THE 120 MIN. FINAL FLOW.

CAPROCK LABORATORIES, INC.
3312 BANKHEAD HIGHWAY
MIDLAND, TEXAS 79701

CHROMATOGRAPHIC ANALYSIS

COMPANY:	RIG TESTERS	JOB #:	0506016
SAMPLE ID:	YATES ENERGY	SAMPLE #:	D1108UEX5
SAMPLE TYPE:	SPOT	DATE ON:	20050602
STATION:	LONESOME DOVE FED #2	DATE OFF:	20050602
BASE PRESSURE, PSIA:	14.650	TIME ON:	
RANAREX GRAVITY:		TIME OFF:	
SAMPLE PRESS., psig:		SAMPLED BY:	CLIENT
GAS TEMP, F:		CYLINDER #:	000001
ANALYSIS DATE:	20050608	SAMPLE USE * :	A
ANALYSIS COMMENTS: DST 2, 8913-8959', 15' PAY CANYON, EDDY CO., N. MEX.			

COMPONENT	MOLE %	GPM
HYDROGEN SULFIDE	0.0000	
NITROGEN	0.7788	
OXYGEN	0.0000	
METHANE	95.2582	
CARBON DIOXIDE	0.0000	
ETHANE	2.7432	0.7297
PROPANE	0.5758	0.1578
ISO-BUTANE	0.1126	0.0366
N-BUTANE	0.1280	0.0401
ISO-PENTANE	0.0846	0.0308
N-PENTANE	0.0539	0.0194
HEXANES	0.1066	0.0436
HEPTANES +	0.1583	0.0726
TOTAL	100.0000	1.1306

HEATING VALUE

BTU DRY	1048.7
BTU SATURATED	1030.4

COMPRESSIBILITY, Z	0.9978
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RELATIVE DENSITY	0.5893
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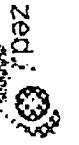
AVE. MOLE WEIGHT	17.0695
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H2S, TUTWEILER, GR./100 CUBIC FEET	0.0
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26 # GASOLINE	1.1306
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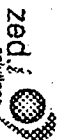
BASE CONDITIONS, 14.65 PSIA @ 60 DEGREES FAHRENHEIT

* A = ACCOUNTABLE, O = OPERATIONAL

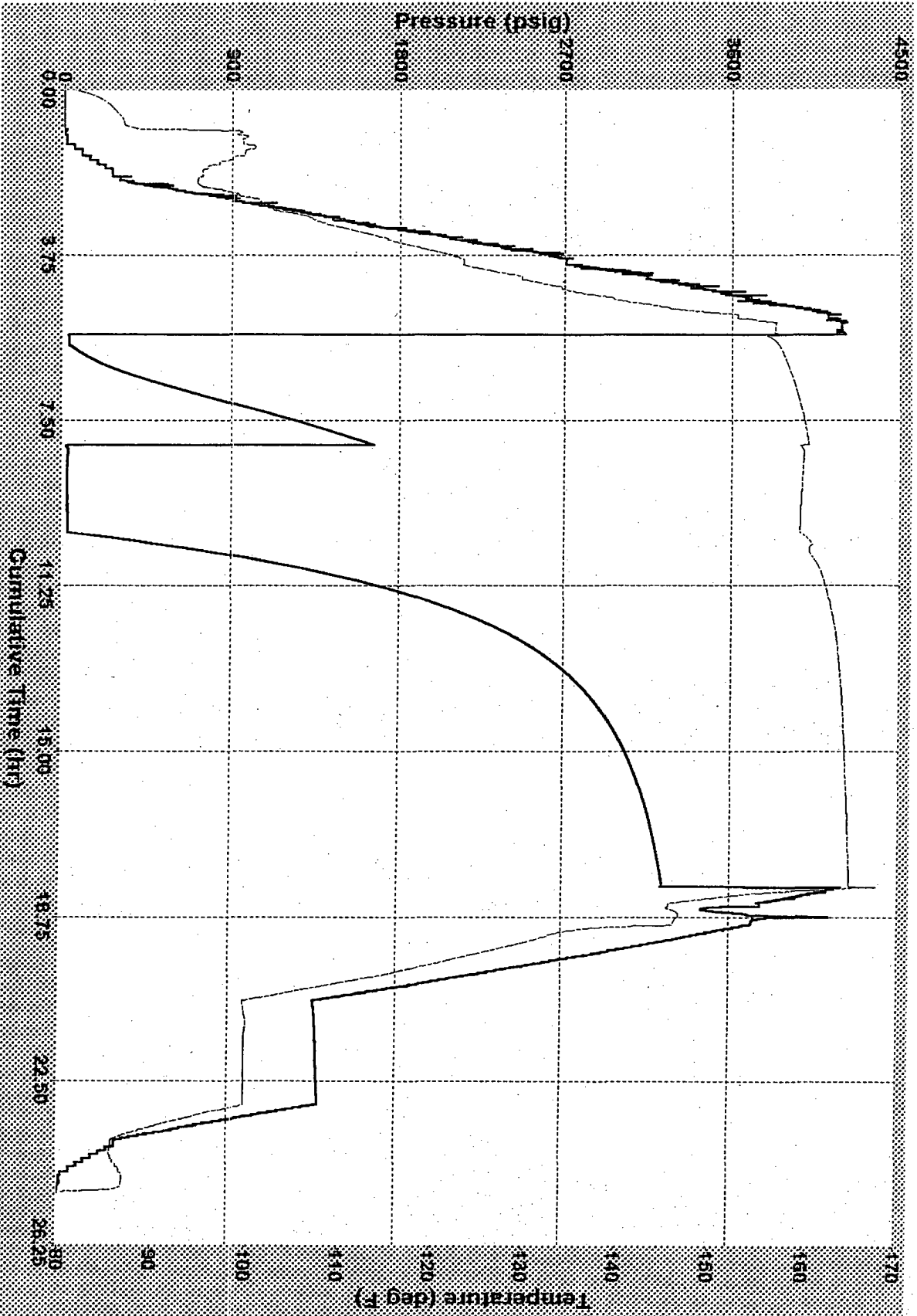


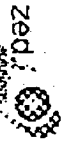
Company Name
Well Name
Type of Test
Date(s) of Test

YATES ENERGY CORP.
LONESOME DOVE FEDERAL #2
DST #2 (8913-8959 FT.: CANYON)
6-1-05

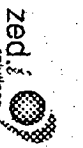


RIG TESTERS, INC. RECORDER# 9634

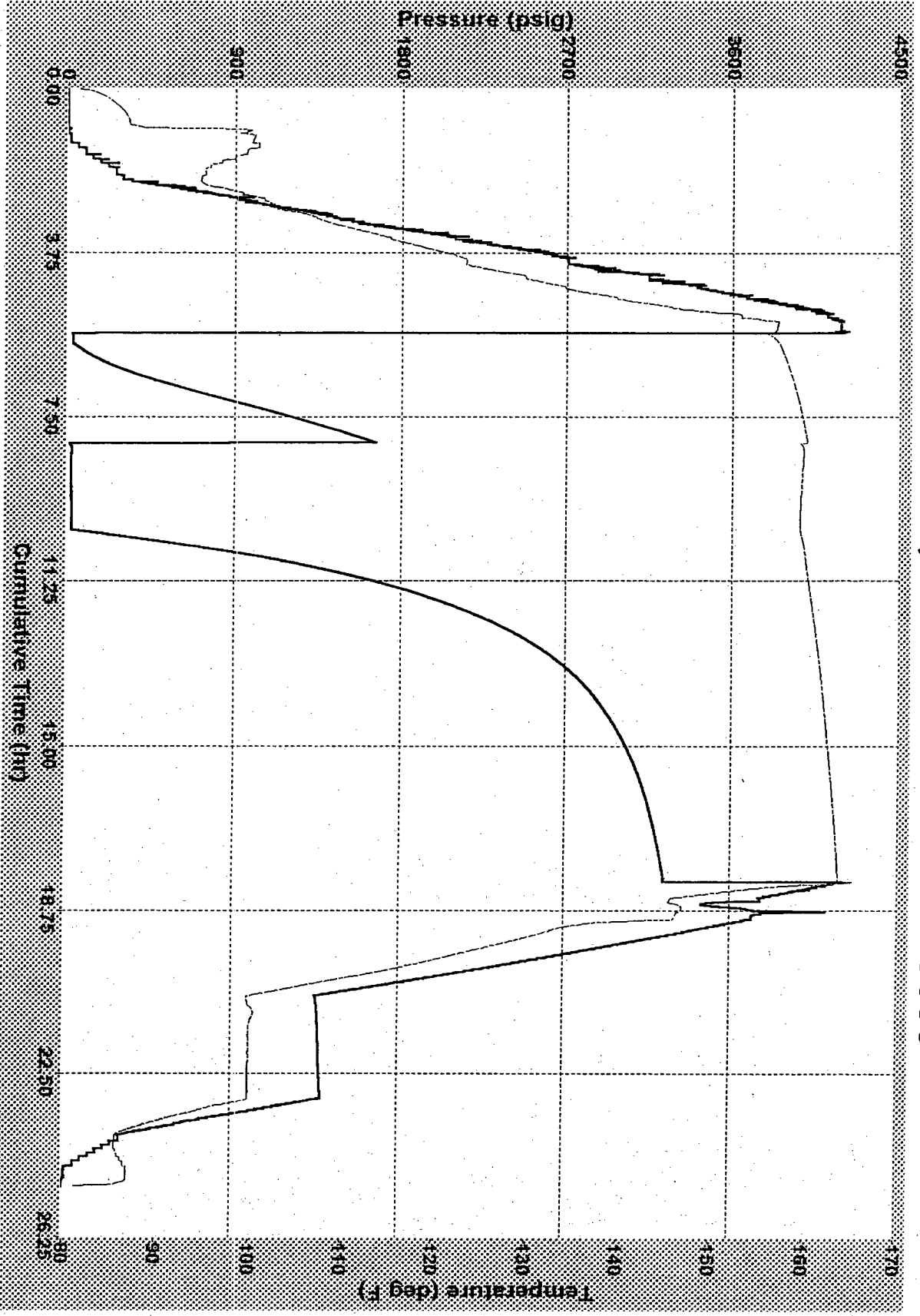




Company Name YATES ENERGY CORP.
Well Name LONESOME DOVE FEDERAL #2
Type of Test DST #2 (8913-8959 FT.: CANYON)
Date(s) of Test 6-1-05



RIG TESTERS, INC. RECORDER# 9635



INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8917 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST FLOW					
.0	.0			39.10	.00
2.0	2.0			43.30	4.20
4.0	4.0			43.80	4.70
6.0	6.0			43.70	4.60
8.0	8.0			43.90	4.80
10.0	10.0			43.90	4.80
12.0	12.0			44.00	4.90
13.5	13.5			44.00	4.90
FIRST SHUT-IN					
13.5	13.5	.00	.000	44.00	.00
14.5	13.5	1.00	14.500	50.25	6.25
15.5	13.5	2.00	7.750	56.61	12.61
16.5	13.5	3.00	5.500	62.70	18.70
17.5	13.5	4.00	4.375	68.67	24.67
18.5	13.5	5.00	3.700	74.90	30.90
19.5	13.5	6.00	3.250	80.70	36.70
20.5	13.5	7.00	2.929	86.67	42.67
21.5	13.5	8.00	2.688	93.00	49.00
22.5	13.5	9.00	2.500	99.10	55.10
23.5	13.5	10.00	2.350	105.07	61.07
25.5	13.5	12.00	2.125	118.30	74.30
27.5	13.5	14.00	1.964	132.02	88.02
29.5	13.5	16.00	1.844	145.85	101.85
31.5	13.5	18.00	1.750	160.60	116.60
33.5	13.5	20.00	1.675	175.84	131.84
36.5	13.5	23.00	1.587	200.05	156.05
39.5	13.5	26.00	1.519	227.05	183.05
42.5	13.5	29.00	1.466	256.06	212.06
45.5	13.5	32.00	1.422	286.57	242.57
48.5	13.5	35.00	1.386	318.79	274.79
51.5	13.5	38.00	1.355	352.49	308.49
58.5	13.5	45.00	1.300	436.30	392.30
63.5	13.5	50.00	1.270	500.63	456.63
68.5	13.5	55.00	1.245	567.61	523.61
73.5	13.5	60.00	1.225	637.40	593.40
78.5	13.5	65.00	1.208	708.64	664.64
83.5	13.5	70.00	1.193	780.60	736.60
88.5	13.5	75.00	1.180	854.70	810.70
93.5	13.5	80.00	1.169	928.64	884.64
98.5	13.5	85.00	1.159	1001.39	957.39
103.5	13.5	90.00	1.150	1074.80	1030.80
108.5	13.5	95.00	1.142	1147.05	1103.05
113.5	13.5	100.00	1.135	1217.22	1173.22
118.5	13.5	105.00	1.129	1286.90	1242.90

YATES ENERGY CORP.

LONESOME DOVE FEDERAL # 2
D.S.T. NO. : 2

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8917 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
FIRST SHUT-IN					
123.5	13.5	110.00	1.123	1355.23	1311.23
128.5	13.5	115.00	1.117	1421.03	1377.03
133.5	13.5	120.00	1.113	1486.00	1442.00
138.5	13.5	125.00	1.108	1549.40	1505.40
143.5	13.5	130.00	1.104	1610.15	1566.15
148.5	13.5	135.00	1.100	1669.90	1625.90
149.3	13.5	135.78	1.099	1678.70	1634.70
SECOND FLOW					
150.5	14.7			25.20	.00
155.5	19.7			37.87	12.67
160.5	24.7			39.41	14.21
165.5	29.7			36.20	11.00
170.5	34.7			35.78	10.58
175.5	39.7			35.69	10.49
180.5	44.7			36.20	11.00
185.5	49.7			36.00	10.80
190.5	54.7			36.38	11.18
195.5	59.7			36.40	11.20
200.5	64.7			36.50	11.30
205.5	69.7			36.59	11.39
210.5	74.7			36.70	11.50
215.5	79.7			36.60	11.40
220.5	84.7			36.69	11.49
225.5	89.7			36.80	11.60
230.5	94.7			36.80	11.60
235.5	99.7			37.00	11.80
240.5	104.7			37.00	11.80
245.5	109.7			37.02	11.82
250.5	114.7			37.02	11.82
255.5	119.7			37.10	11.90
260.5	124.7			37.28	12.08
265.5	129.7			37.19	11.99
269.3	133.5			37.30	12.10
SECOND SHUT-IN					
269.3	133.5	.00	.000	37.30	.00
271.3	133.5	2.00	67.750	100.40	63.10
273.3	133.5	4.00	34.375	166.65	129.35
275.3	133.5	6.00	23.250	229.40	192.10

YATES ENERGY CORP.

LONESOME DOVE FEDERAL # 2
D.S.T. NO. : 2

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

RECORDER DEPTH : 8917 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNER) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
SECOND SHUT-IN					
277.3	133.5	8.00	17.688	292.75	255.45
279.3	133.5	10.00	14.350	354.77	317.47
281.3	133.5	12.00	12.125	413.70	376.40
283.3	133.5	14.00	10.536	472.91	435.61
285.3	133.5	16.00	9.344	530.97	493.67
287.3	133.5	18.00	8.417	585.70	548.40
289.3	133.5	20.00	7.675	641.06	603.76
292.3	133.5	23.00	6.804	720.75	683.45
295.3	133.5	26.00	6.135	797.73	760.43
298.3	133.5	29.00	5.603	872.11	834.81
301.3	133.5	32.00	5.172	943.78	906.48
304.3	133.5	35.00	4.814	1013.07	975.77
307.3	133.5	38.00	4.513	1079.96	1042.66
314.3	133.5	45.00	3.967	1226.80	1189.50
319.3	133.5	50.00	3.670	1325.60	1288.30
324.3	133.5	55.00	3.427	1418.85	1381.55
329.3	133.5	60.00	3.225	1506.00	1468.70
334.3	133.5	65.00	3.054	1589.73	1552.43
339.3	133.5	70.00	2.907	1668.95	1631.65
344.3	133.5	75.00	2.780	1742.90	1705.60
349.3	133.5	80.00	2.669	1814.08	1776.78
354.3	133.5	85.00	2.571	1881.53	1844.23
359.3	133.5	90.00	2.483	1944.70	1907.40
369.3	133.5	100.00	2.335	2062.87	2025.57
379.3	133.5	110.00	2.214	2168.80	2131.50
389.3	133.5	120.00	2.113	2264.50	2227.20
399.3	133.5	130.00	2.027	2351.45	2314.15
409.3	133.5	140.00	1.954	2429.76	2392.46
419.3	133.5	150.00	1.890	2500.60	2463.30
434.3	133.5	165.00	1.809	2594.90	2557.60
449.3	133.5	180.00	1.742	2676.70	2639.40
464.3	133.5	195.00	1.685	2747.70	2710.40
479.3	133.5	210.00	1.636	2809.80	2772.50
494.3	133.5	225.00	1.593	2864.20	2826.90
509.3	133.5	240.00	1.556	2912.00	2874.70
524.3	133.5	255.00	1.524	2954.20	2916.90
539.3	133.5	270.00	1.494	2991.80	2954.50
554.3	133.5	285.00	1.468	3025.10	2987.80
569.3	133.5	300.00	1.445	3055.00	3017.70
584.3	133.5	315.00	1.424	3081.80	3044.50

YATES ENERGY CORP.


 LONESOME DOVE FEDERAL # 2
 D.S.T. NO. : 2

INCREMENTAL PRESSURE DATA

RECORDER NO : 9634

RECORDER CAPACITY : 10000 psi

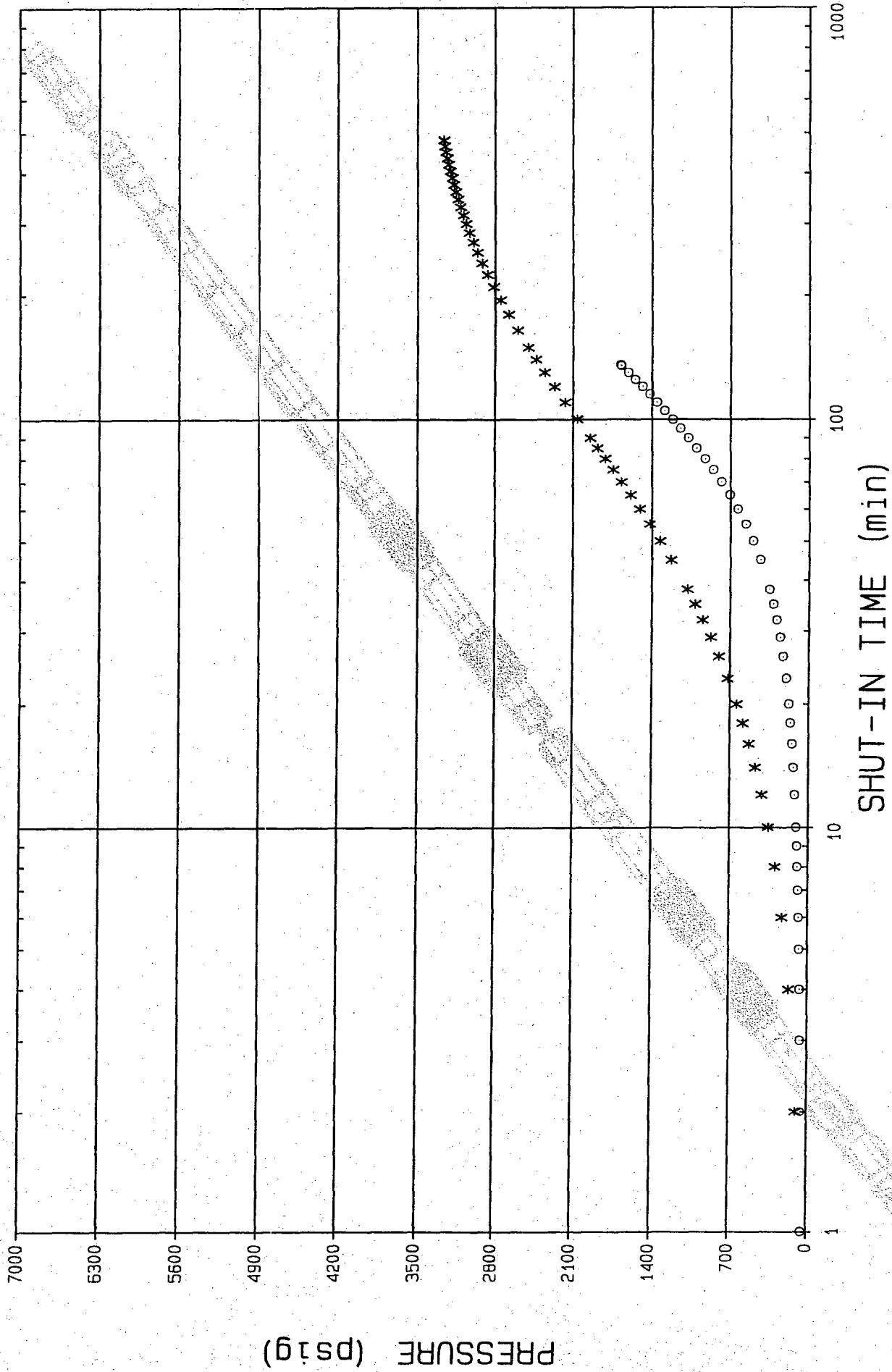
RECORDER DEPTH : 8917 ft

ELAPSED TIME ---MIN---	TOTAL FLOW TIME, T ---MIN---	INCREMENTAL SHUT-IN TIME, DT ---MIN---	(T+DT)/DT (HORNOR) -----	PRESSURE ---PSIG---	DELTA P ---PSIG---
SECOND SHUT-IN					
599.3	133.5	330.00	1.405	3106.00	3068.70
614.3	133.5	345.00	1.387	3127.80	3090.50
629.3	133.5	360.00	1.371	3147.50	3110.20
644.3	133.5	375.00	1.356	3165.70	3128.40
659.3	133.5	390.00	1.342	3182.20	3144.90
674.3	133.5	405.00	1.330	3197.20	3159.90
689.3	133.5	420.00	1.318	3211.10	3173.80
704.3	133.5	435.00	1.307	3223.90	3186.60
719.3	133.5	450.00	1.297	3235.60	3198.30
734.3	133.5	465.00	1.287	3246.60	3209.30
749.3	133.5	480.00	1.278	3256.70	3219.40
750.0	133.5	480.72	1.278	3257.10	3219.80

REMARKS

THE INCREMENTAL DATA, PLOTS AND ANALYSIS ARE FROM THE ELECTRONIC RECORDER
 PLEASE REFER TO DERIVATIVE DIAGNOSTICS ANALYSIS FOR FURTHER INFORMATION
 (PRESSURE ASCII FILE IS AVAILABLE ON DISKETTE UPON REQUEST)

PRESSURE TIME



YATES ENERGY CORP.

_ONESOME DOVE FEDERAL # 2



**Well Test
Report**

RigTesters, Inc.
ABILENE - MIDLAND - GRAHAM

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

Well identification

Well ID	LONESOME DOVE	Well location	S.W. CARLSBAD
County/District	EDDY	State, Country	NEW MEXICO
Company	YATES ENERGY	Division	ROSWELL, N.M.

Fluid properties

Prod/Inj fluid	GAS	GOR	
Water cut	0%	Condensate yield	UNKNOWN
API gravity		Gas spec. grav.	0.7
Viscosity	2.1777e-2 cp	Pseudo-critical T	382.97 deg R
Pseudo-critical P	664.37 psia	H2S mole fraction	UNKNOWN
CO2 mole fraction	UNKNOWN	N2 mole fraction	UNKNOWN
Compressibility(t)	165.98 e-6/psi	Formation vol factor	0.77114 RB/MSCF

Reservoir properties

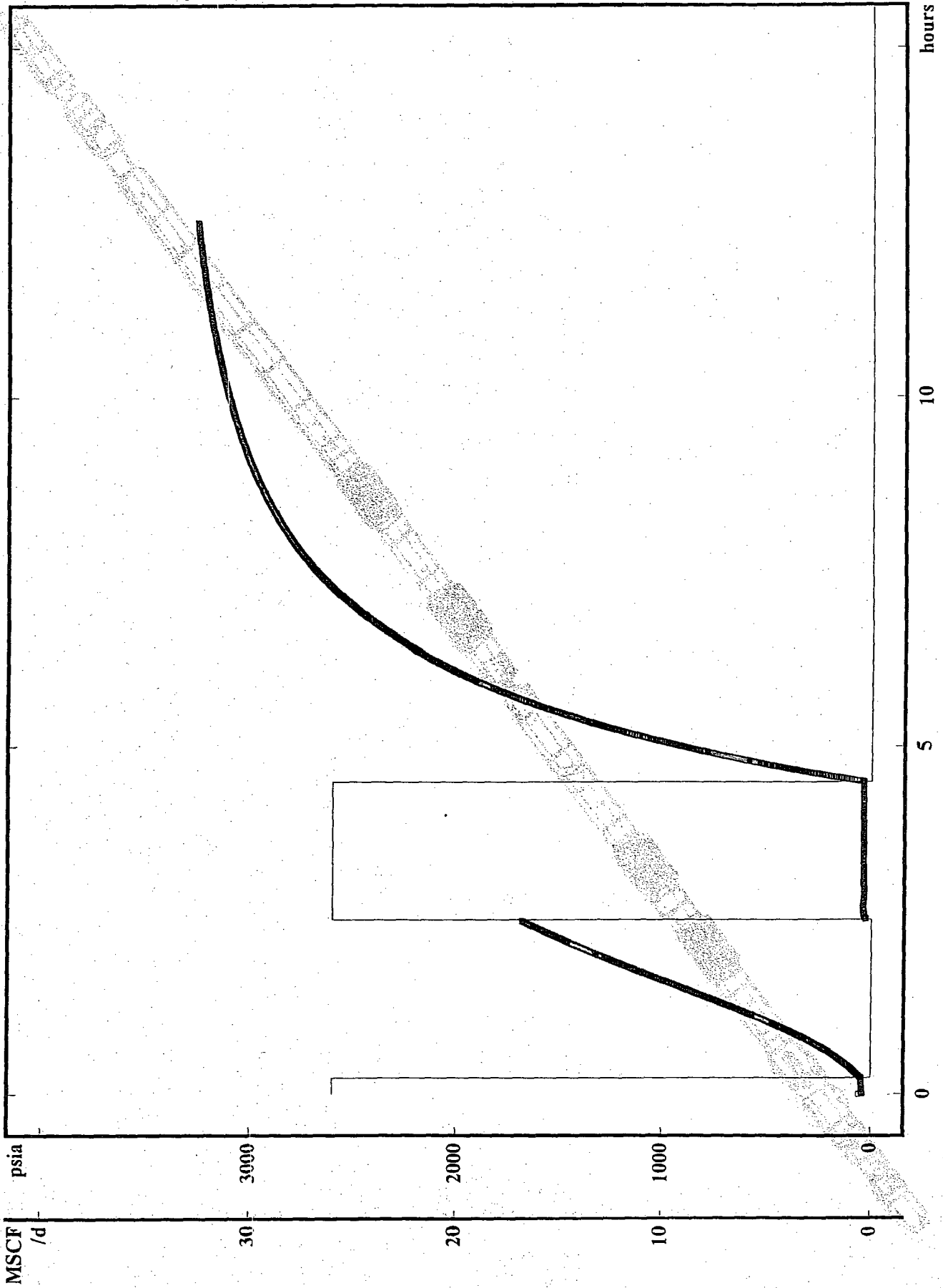
Porosity	0.12 frac	Formation thickness	15 ft
Wellbore radius	0.32813 ft	Prod-observer distance	N/A
Water-Oil Contact	UNKNOWN	Gas-Oil Contact	N/A
Gas-Water Contact	N/A	Rock compressibility	
Reservoir temperature	167 deg F	Pressure for properties	3554 psia

Comments

THE DERIVATIVE INDICATES A RESERVOIR WITH LOW PERMEABILITY AND NO (NEGATIVE) SKIN. THE INITIAL SHUT-IN PERIOD IS COMPLETELY DOMINATED BY WELLBORE STORAGE WHICH WOULD MAKE ITS CALCULATIONS (EXTRAPOLATION, PERMEABILITY AND SKIN) UNRELIABLE. THE FINAL SHUT-IN WAS IN TRANSITION TOWARDS BUT HAD NOT REACHED TRUE RADIAL FLOW WHICH WOULD MAKE ITS CALCULATIONS SUBJECT TO QUESTION. HOWEVER, A REGRESSION VERIFIED MODEL ANALYSIS WAS PERFORMED IN AN ATTEMPT TO BETTER DETERMINE FORMATION PARAMETERS AND SHOWS A GOOD FIT AND CONFIDENCE INTERVALS (MARGIN OF ERROR) NEXT TO MAJOR PARAMETERS. THE FIXED PARAMETERS USED WERE AN EST. 12% POROSITY, 15 FT. OF NET PAY AND AN EST. GAS FLOWING RATE OF 26 MCFPD MEASURED AT SURFACE THROUGH A 1/4" CHOKE FOR THE FINAL FLOW PERIOD. THE TOTAL RADIUS OF INVESTIGATION CALCULATED TO ONLY 5 FT. FROM WELLBORE.

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

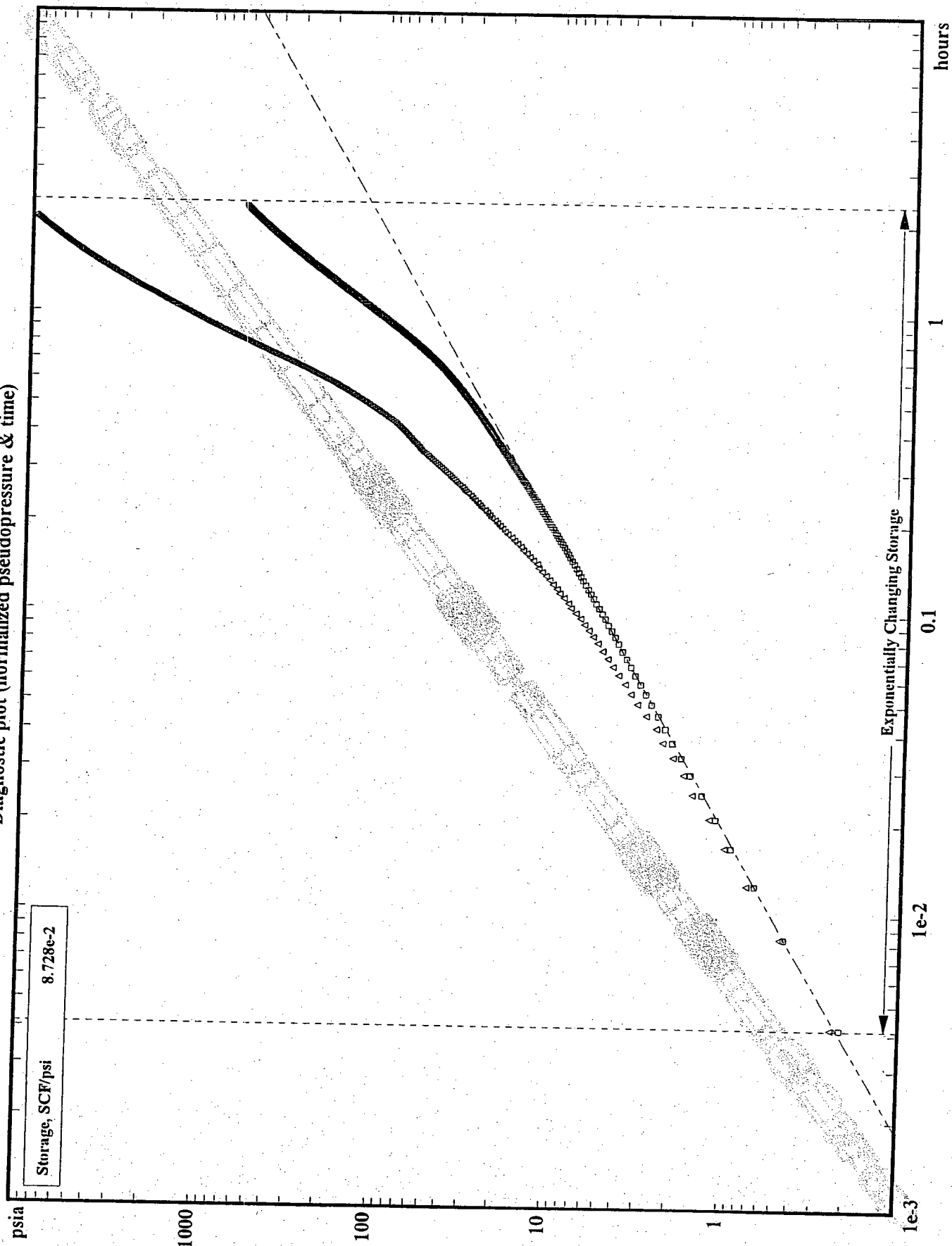
Pressure and flow rate vs time during test sequence



DST #2 8913 - 8959 FT. CANYON

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

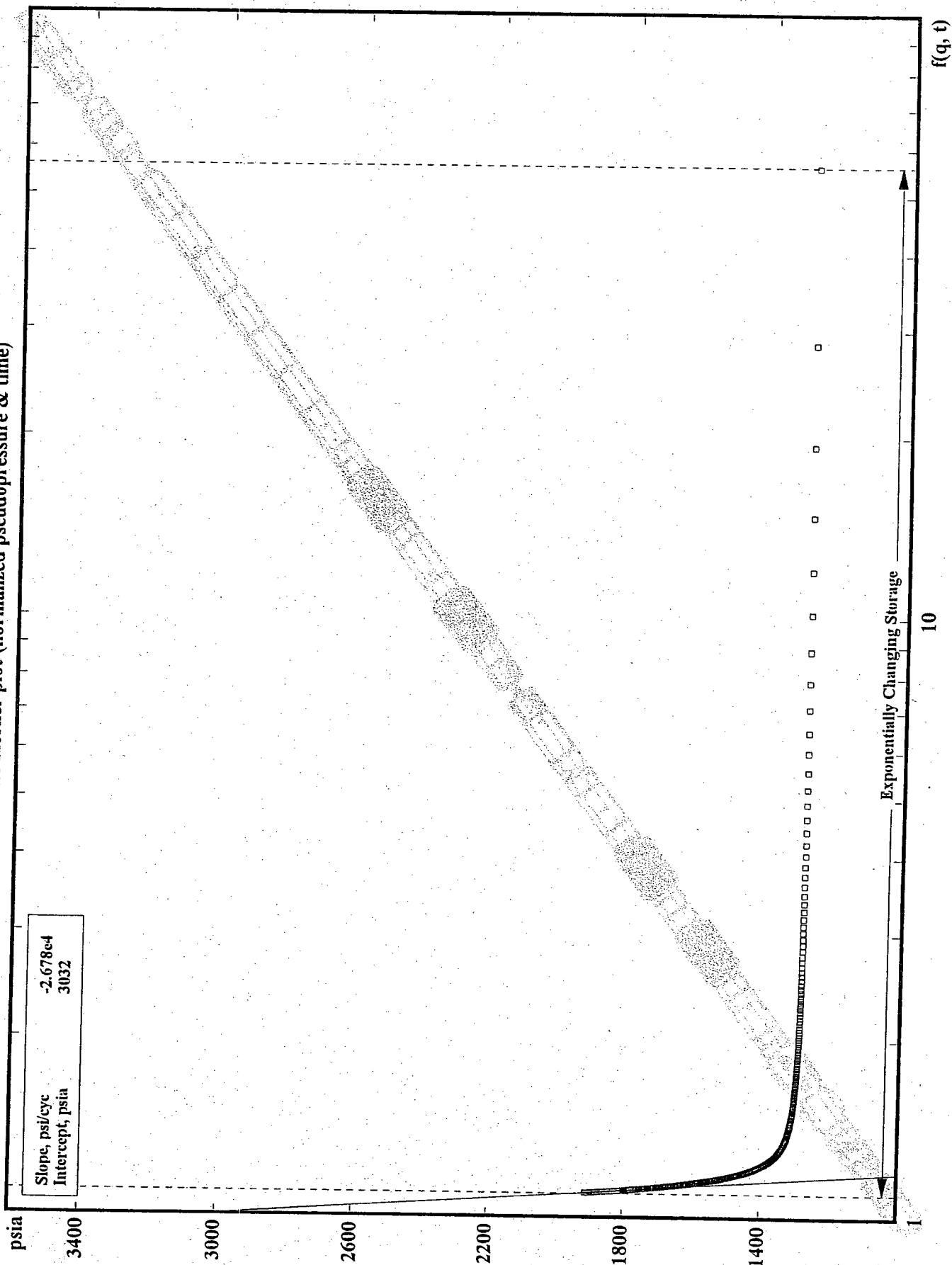
Diagnostic plot (normalized pseudopressure & time)



INITIAL SHUT-IN PERIOD DST#2

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

Variable rate Horner plot (normalized pseudopressure & time)

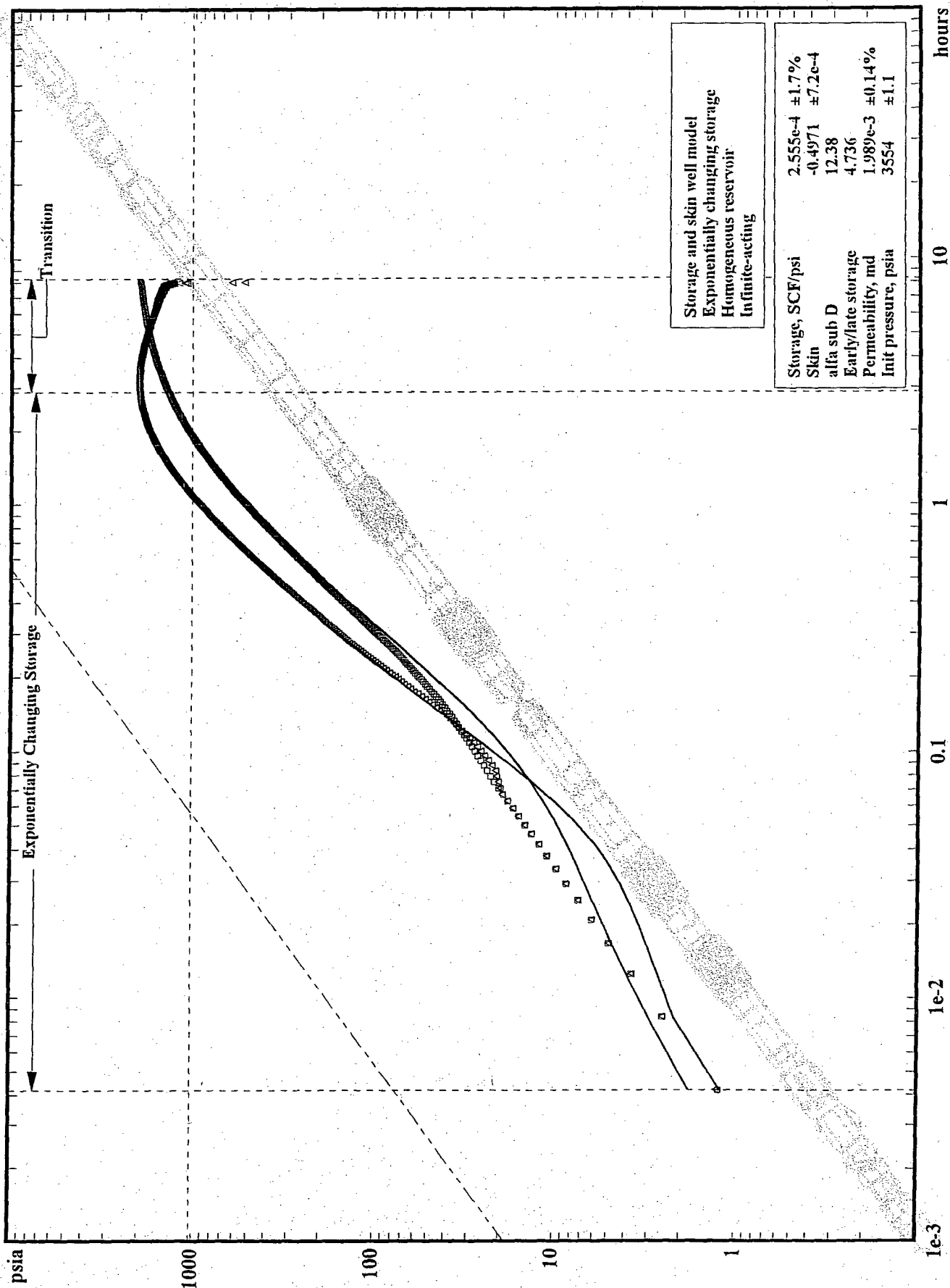


INITIAL SHUT-IN PERIOD DST#2



YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

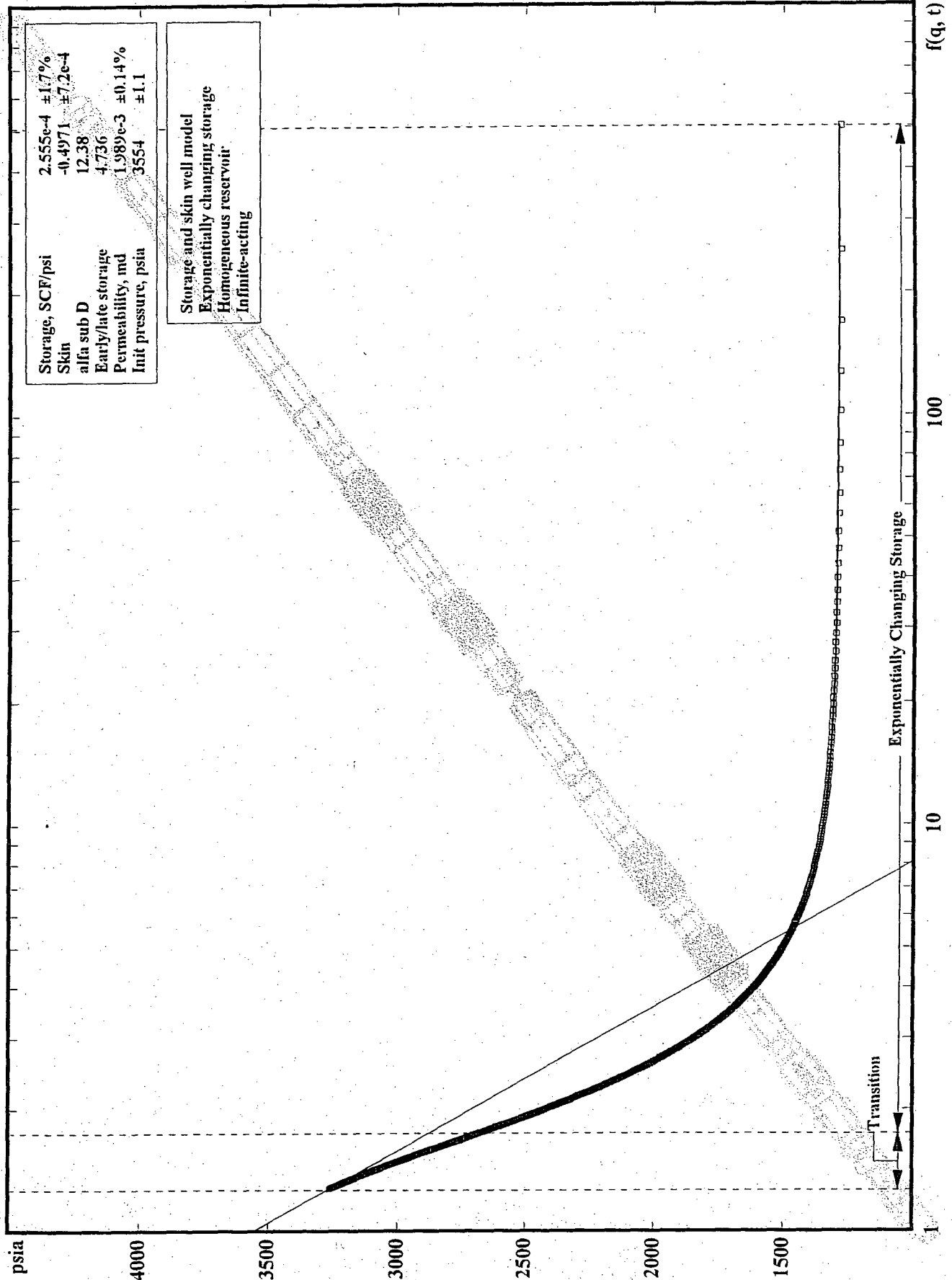
Diagnostic plot (normalized pseudopressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

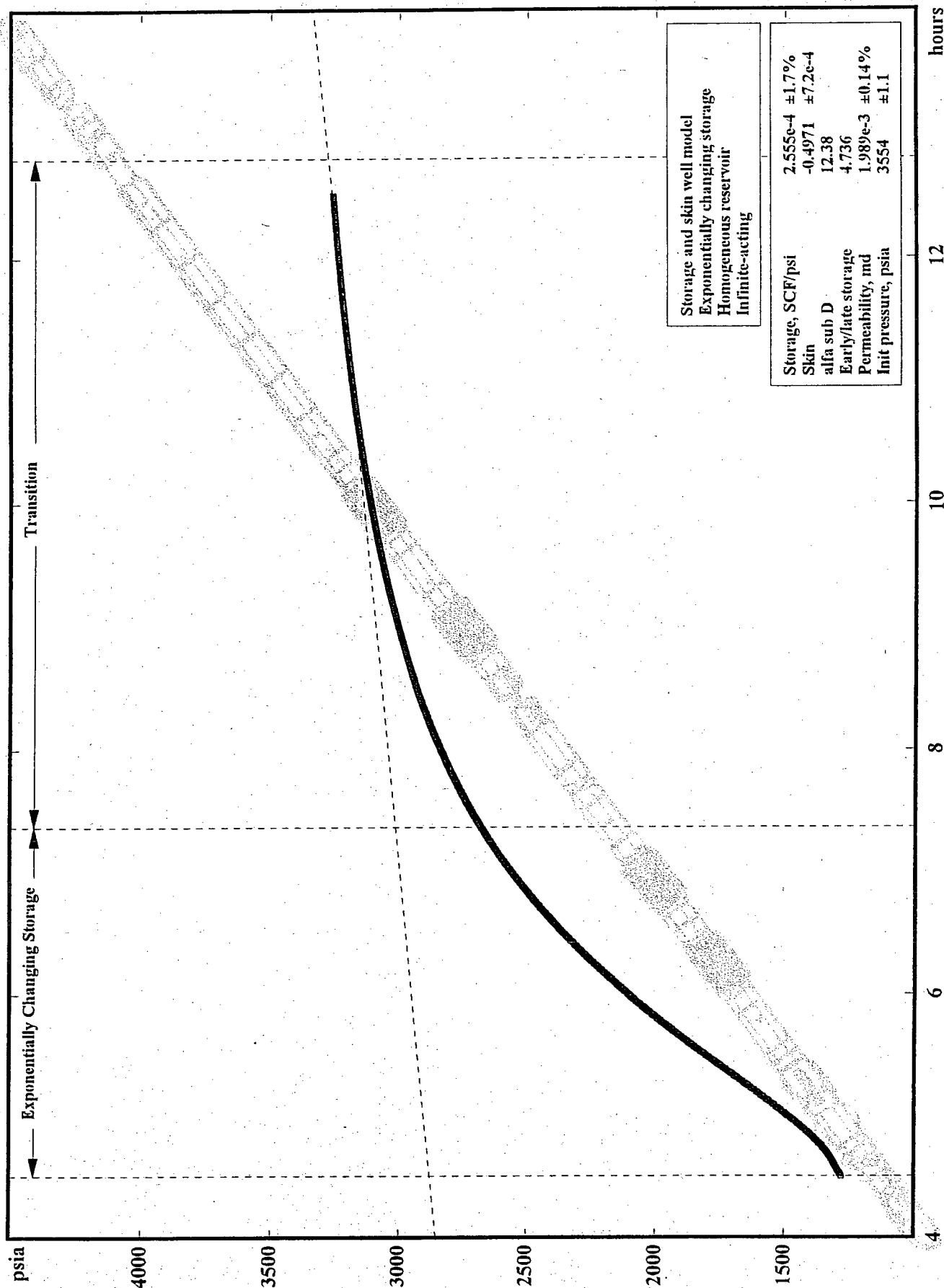
Variable rate Horner plot (normalized pseudopressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL

YATES ENERGY CORP. LONESOME DOVE FEDERAL #2

Cartesian plot (normalized pseudopressure & time)



FINAL SHUT-IN PERIOD DST#2 REGRESSION VERIFIED MODEL