

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Oil Cons.
N.M. DIV-Dist. 2

1301 W. Grand Avenue
Artesia, NM 88210

FORM APPROVED
OMB NO. 1004-0137
Expires: January 31, 2004

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NM-01119

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry Other
b. Type of Completion: ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name
7. Unit or CA Agreement Name and No.

2. Name of Operator

Mewbourne Oil Company 14744

3. Address

PO Box 5270 Hobbs, NM 88240

3a. Phone No. (include area code)
505-393-5905

8. Lease Name and Well No.

Avalon Lake 31 Federal #1

4. Location of Well (Report location clearly and in accordance with Federal requirements)*

At surface 1650' FSL & 1123' FWL Unit L

At top prod. interval reported below same

At total depth same

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APR 19 2004

DEPT-ARTESIA

9. API Well No.

30-015-33179 S1

10. Field and Pool, or Exploratory

Burton Flat Morrow

11. Sec., T., R., M., on Block and Survey or Area

Sec 31-T20S-R28E

12. County or Parish

Eddy County

13. State

NM

17. Elevations (DF, RKB, RT, GL)*

3279' GL

14. Date Spudded

02/14/04

15. Date T.D. Reached

03/11/04

16. Date Completed

☐ D&A ☒ Ready to Prod.

18. Total Depth: MD 11475'
TVD

19. Plug Back T.D.: MD 11351'
TVD

20. Depth Bridge Plug Set: MD NA
TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)

DLL w/Micro, DN w/GR & CBL

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☒ Yes (Submit report)
Directional Survey? ☒ No ☐ Yes (Submit copy)

23. 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 Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8 H40	48	0	550'		750 H/C	162	Surface	NA
12 1/4	9 5/8 J55	40	0	2507'		1650 H/C	475	Surface	NA
8 3/4	5 1/2 N80	17	0	11475'	8842'	1st 675-H	182	8842'	NA
						2nd 1350-H	452	2330'	NA

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2 7/8	10948'	10914'						

25. Producing Intervals

Formation	TOP	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) Morrow	11310'	11336'	20'	0.24	79	Open
B)						
C)						
D)						

26. Perforation Record

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
03/24/04	03/30/04	24	→	0	1011	0	50	0.589	Flowing
Choke Size	Tbg. Press. Flwg. SI	Csg. Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
06/64	3400	0	→	0	1011	0	1011000	Producing	

28a. Production - Interval B

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	Call Press	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	
			→						

ACCEPTED FOR RECORD

APR 14 2004

ALEXIS C. SWOBODA
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
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

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
Choke Size	Tbg Press Flwg. SI	Csg. Press	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas: Oil Ratio	Well Status	

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

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
Yates	790				
Capitan	914				
Delaware	2545				
Bone Spring	4834				
Wolfcamp	8770				
Cisco	9716				
Canyon	9845				
Strawn	10057				
Atoka Shale	10494				
Morrow	11006				
Barnett	11370				
TD	11475				

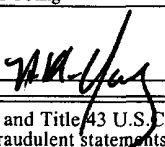
32. Additional remarks (include plugging procedure):

33. Circle enclosed attachments:

- ☒ 1 Electrical/Mechanical Logs (1 full set req'd.) 2 Geologic Report ☒ 3 DST Report 4 Directional Survey
☐ 5 Sundry Notice for plugging and cement verification 6 Core Analysis ☒ 7 Other: Deviation Report and C104

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) NM Young Title Hobbs District Manger

Signature  Date 04/13/04

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.

OPERATOR: MEWBOURNE OIL CO
WELL/LEASE: AVALON LAKE 31 FED 1
COUNTY: EDDY

041-0022

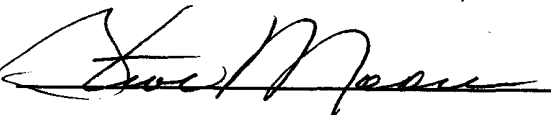
STATE OF NEW MEXICO
DEVIATION REPORT

230	3/4	8,361	2
550	1 3/4	8,483	1 3/4
812	3	8,607	1 1/4
907	3 3/4	8,797	1 1/4
968	3 1/2	8,984	1 1/4
1,030	3 1/4	9,204	1 1/4
1,094	3 1/2	9,256	1/4
1,156	3 1/4	9,974	1/4
1,280	2 3/4	10,426	1
1,436	2 1/2	10,924	3/4
1,650	1 1/2	11,475	1
1,745	1 3/4		
1,868	1 3/4		
1,993	2		
2,118	1 3/4		
2,242	3/4		
2,671	3/4		
2,870	1/4		
3,370	3/4		
3,930	1		
4,430	1 1/4		
4,892	1 3/4		
5,144	1 3/4		
5,390	1		
5,636	1 1/4		
5,887	1 1/2		
6,411	1 1/4		
6,852	1 1/2		
7,352	1		
7,858	1 1/4		

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APR 19 2004

OCB-ARTESIA

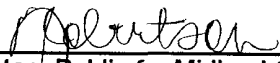
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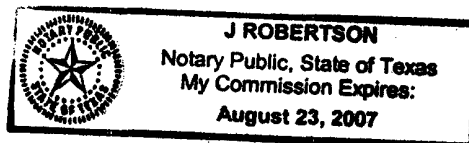
STATE OF TEXAS

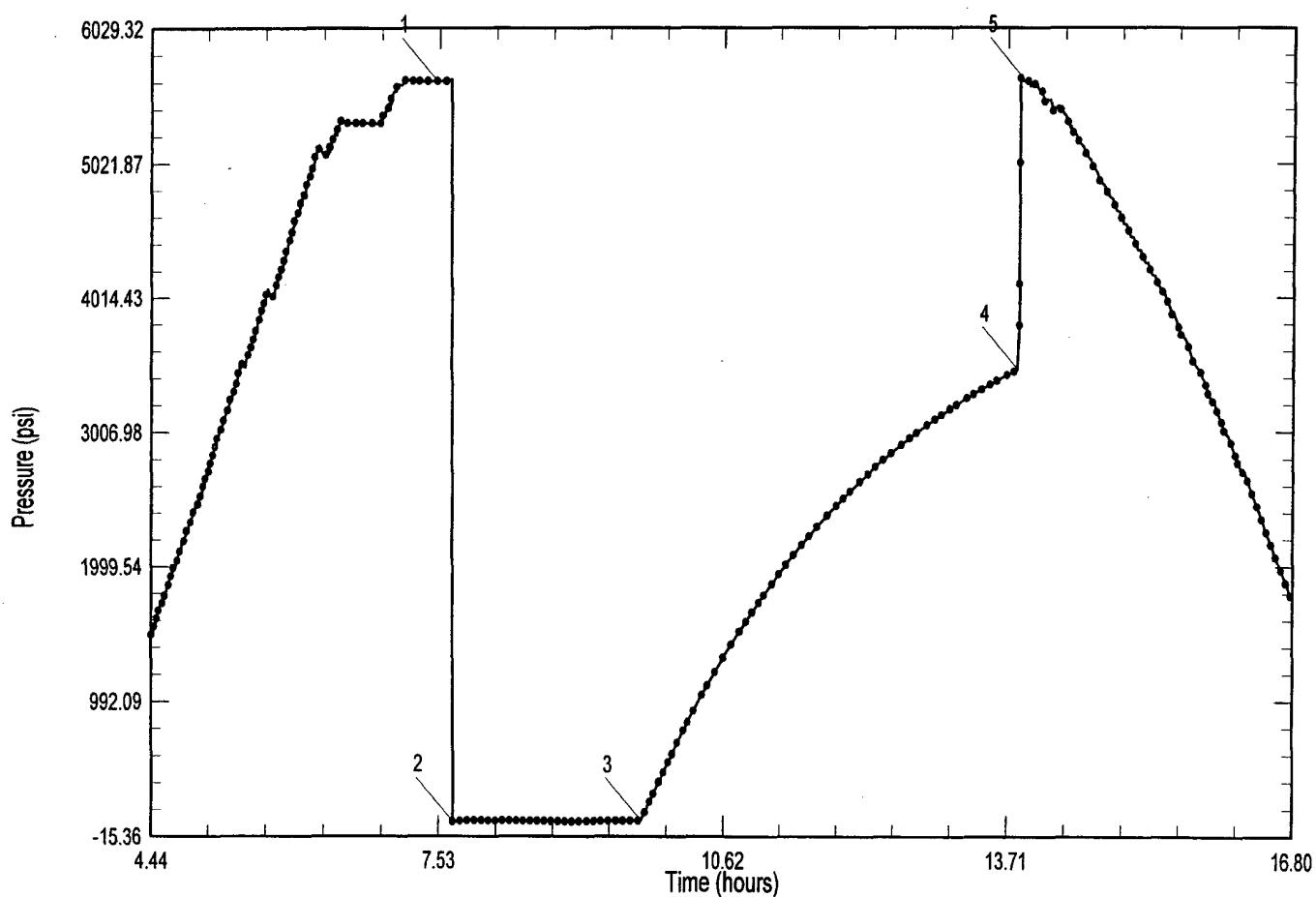
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me on this 24TH day of March, 2004, by Steve Moore on behalf of Patterson-UTI Drilling Company LP, LLLP.

My Commission Expires: 8/23/2007


Notary Public for Midland County, Texas



Mewbourne Oil Comp.**DST****Avalon Lake 31 Fed - 1****Avalon Lake****Rig : Patterson 41****Eddy - New Mexico****Report Contents**

Job Summary, Comments Page, Sequence of Events, Label Point Information, Plots, Summary Data Printout, Distribution

Schlumberger Testing Services

Schlumberger

Job Summary
Mewbourne Oil Comp.
DST

Avalon Lake 31 Fed 1
Avalon Lake

Service Order Number : 10625829
Test Date : 09-Mar-04

Company Rep Terry Burke	SWS Rep..... Jeremy Cates
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Test Information

Test Number 1	Formation Morrow
	Interval (MD ft) 133" 11163-11030

Well Location

Well..... Avalon Lake 31 Fed 1	Rig..... Patterson 41
Field..... Avalon Lake	State Eddy - New Mexico

Wellbore Configuration

Total Depth (MD/TVD ft) 11163	Cushion None
Casing / Liner ID (in) 9625	Wellbore Radius (ft) 8.75
Top of Liner (md- ft) 2507	Mud Weight (lb/gal) 9.8
	Mud Type Cut Brine
	Mud: Chloride/Resistivity..... 127000/.047

Test String Configuration

Pipe Length (ft) / ID (in) 10176	Gauge Depth (MD) 11062
Pipe Length (ft) / ID (in)	Gauge Depth (TVD) 11062
Drill Collar Length (ft) / ID (in) 906.52	Test Valve Type MFE
Packer Depths (ft MD) 11023 / 11030	Test Valve Depth (ft) (MD) 11004

Key Information

Initial Hydrostatic Pressure 5638	Final Shut In Pressure 3473
Init. Hyd Grad & Density 0.510 psi/ft / 9.80 lb/gal	Final Shut In Grad & Density 0.314 psi/ft / 6.04 lb/gal
Final Hydrostatic Pressure 5635	Final Flowing Pressure 102
Final Hyd Grad & Density 0.509 psi/ft / 9.80 lb/gal	Final Flow Rate (MCF)
Bottom Hole Temp..... 180	Productivity Index (MCF / psi)

This is DST #1 The Morrow formation was evaluated from 11163 to 11030. The test was conclusive. There was no gas to surface during the test. The recovery was 120 feet of gas cut mud. Please direct any questions about this test to the Hobbs Testing District. Thank You for choosing Schlumberger.

Schlumberger Crew

Jeremy Cates

Schlumberger**Sample Chamber Data
Mewbourne Oil Comp.
DST**

Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04

Sample Chamber Capacity (cc) 2500

Measured Fluid Recovery

		<u>Temp (F)</u>	<u>Press (psia)</u>
Oil (cc)	API Gravity	70	30.0
Water (cc)	Res. (ohms) ...	70	30.0
Mud (cc) 250	Res. (ohms) ... 0.054		
Total Liquid Recovery (cc) 250			
Gas (ft3) 0.667		70	30.0

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	180	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia)	102	Est Z Value @ Pwf and Tres	0.991
Corrected Gas Recovery (scf)	0.452		

Sample Chamber Fluid Ratios

Sample Chamber Water Cut	
GOR Using Corrected Gas Recovery	
GLR Using Corrected Gas Recovery	

Pipe Recovery

<u>Description</u>	<u>Recovery feet</u>	<u>Pipe ID (in)</u>	<u>Recovery bbl</u>	<u>Oil Density API</u>	<u>RES ohm</u>	<u>CHL ppm</u>
Light Gas Cut Mud	120				0.054	100k

Schlumberger

Sequence of Events
Mewbourne Oil Comp.
DST

Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04

Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
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9-Mar-04	3:40	Safety Meeting
	3:51	Start Flow Open to 1/8" Bubble Hose 1/4" blow
	3:52	B.O.B
	3:53	11oz
	3:54	14oz
	3:55	12oz
	3:56	13oz
	4:01	16oz
	4:11	19oz
	4:21	21oz
	4:36	22oz
	4:51	23oz
	5:06	2.75#
	5:51	3#
	5:55	End Flow Start Shutin
	10:01	End Shutin

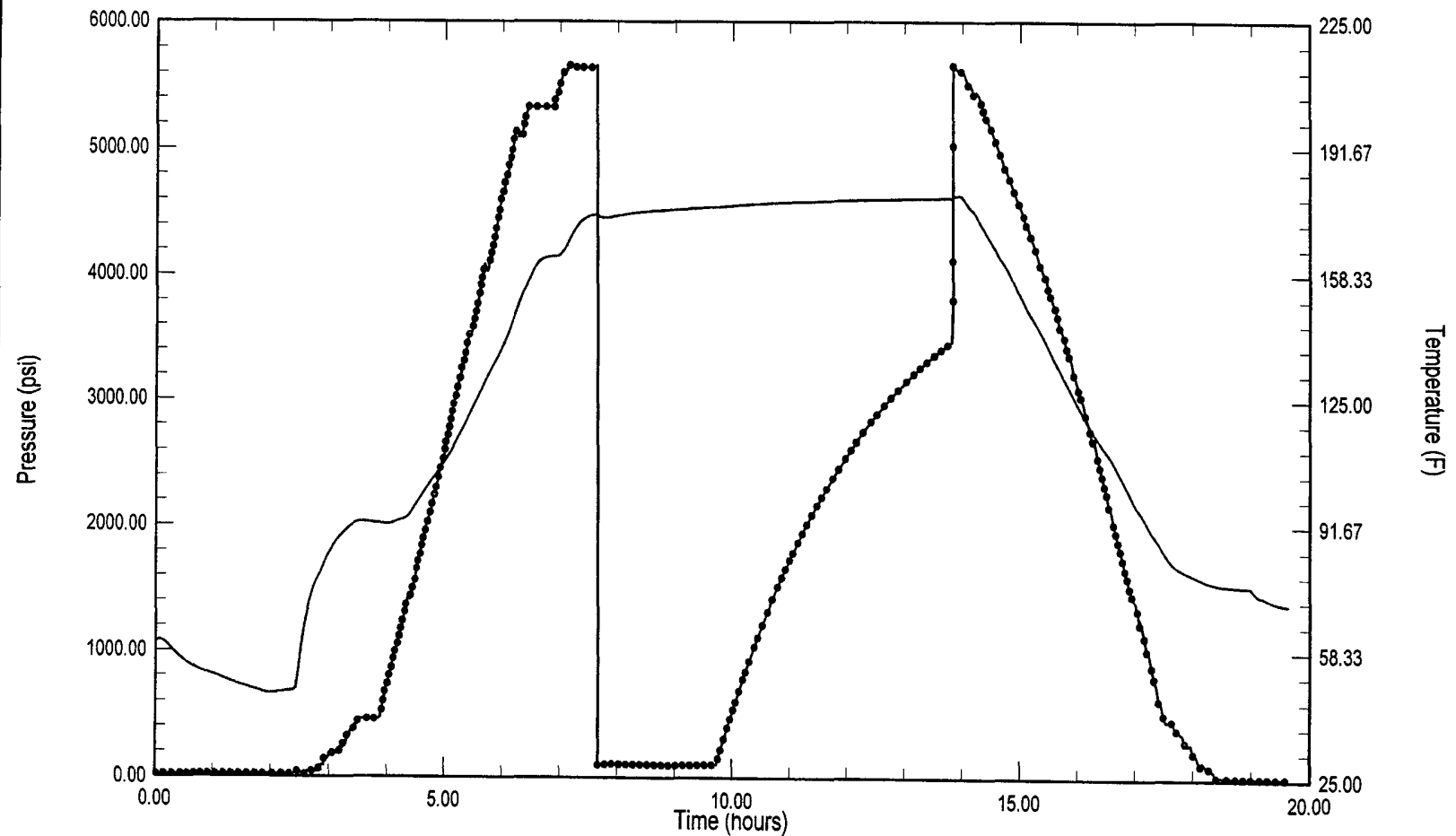
Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04

Bottomhole Pressure and Temperature Log



Gauge Depth : 11062 ft TVD - 11062 ft MD

Gauge ID : slsr-856

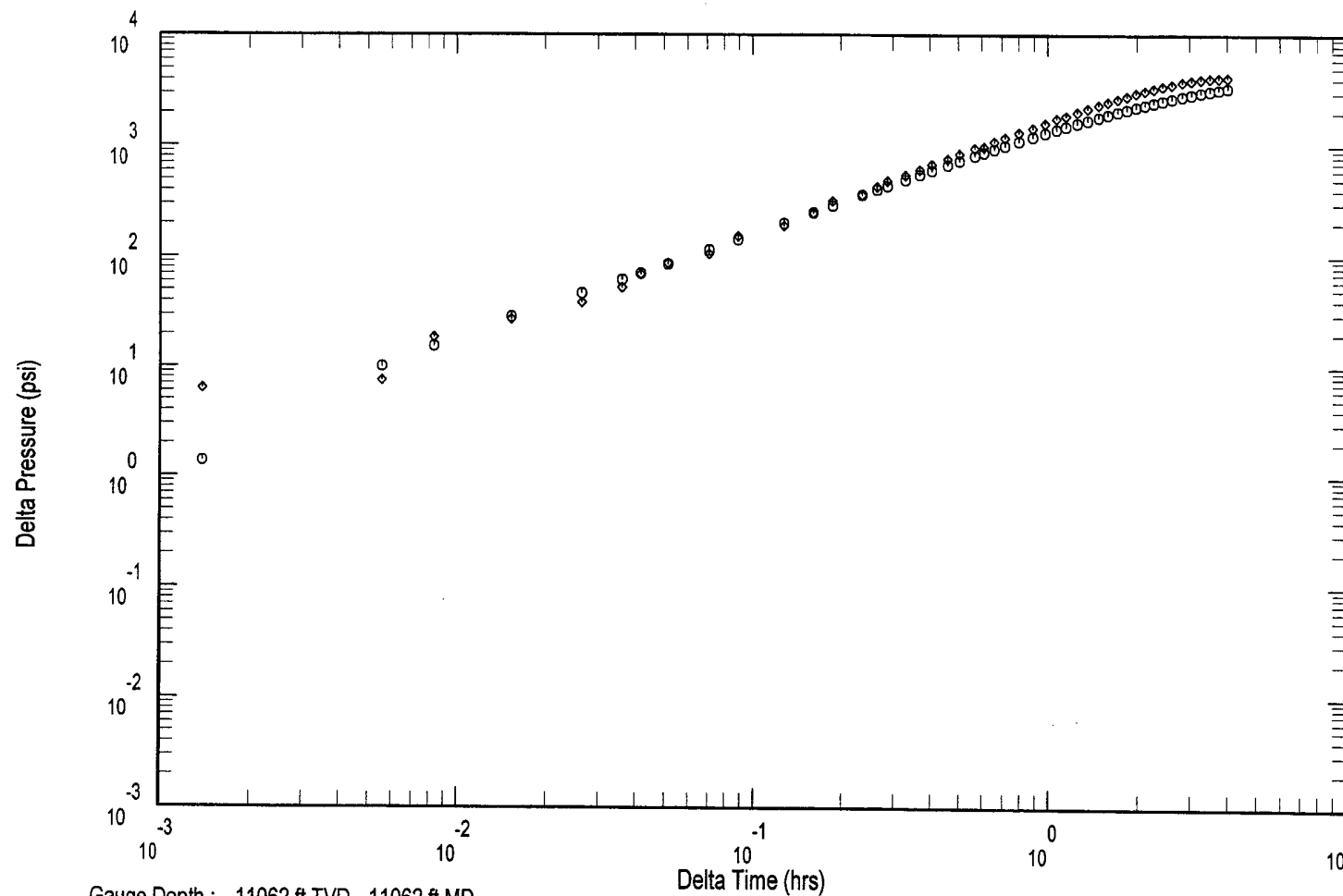
Avalon Lake 31 Feb 1

10625829

Avalon Lake

09-Mar-04

Log-log Plot - Initial Shutin Period



Gauge Depth : 11062 ft TVD - 11062 ft MD

Gauge ID : slsr-856

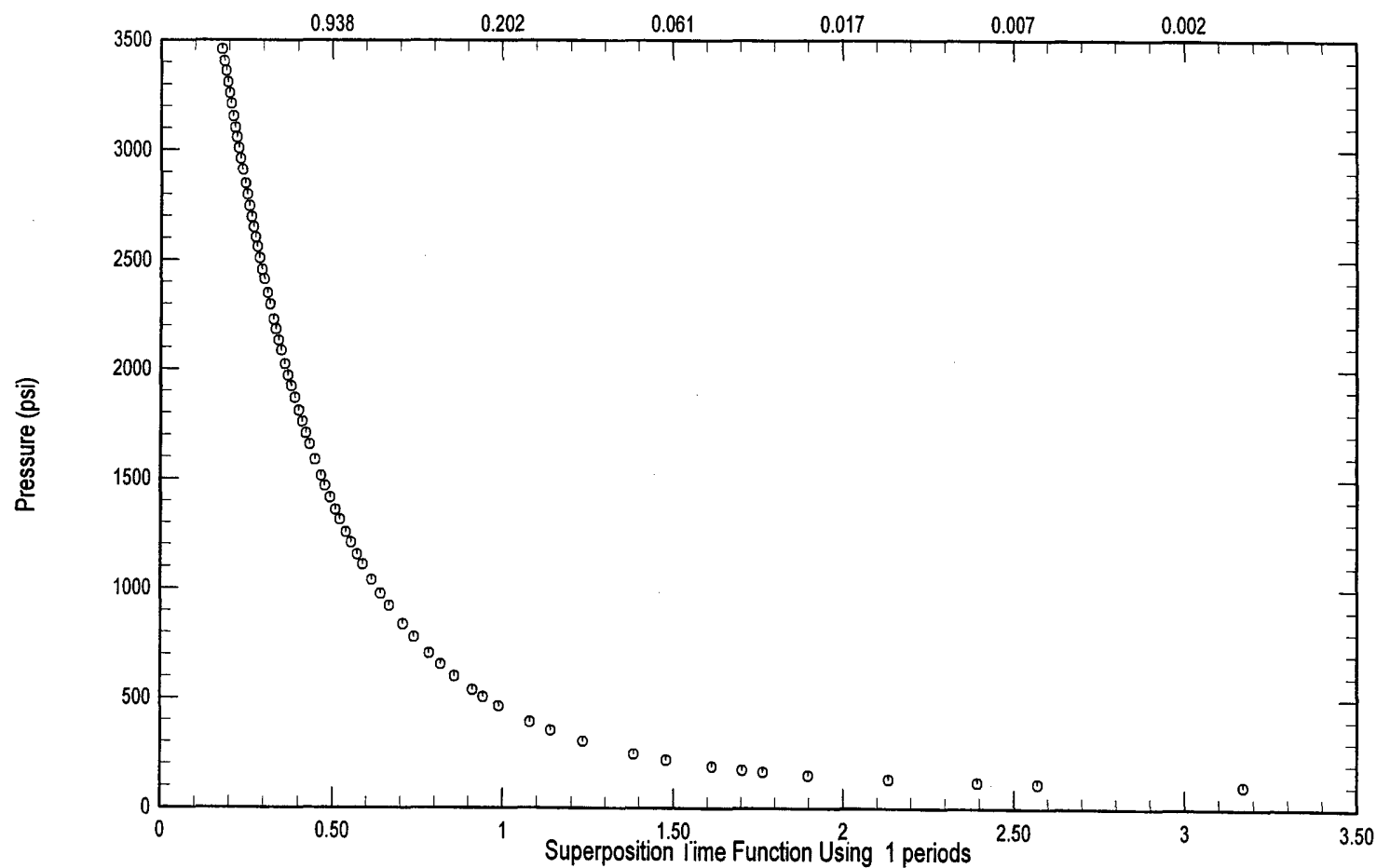
Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04

Semi-log Plot - Initial Shutin Period



Gauge Depth : 11062 ft TVD - 11062 ft MD

Gauge ID : slsr-856

Schlumberger

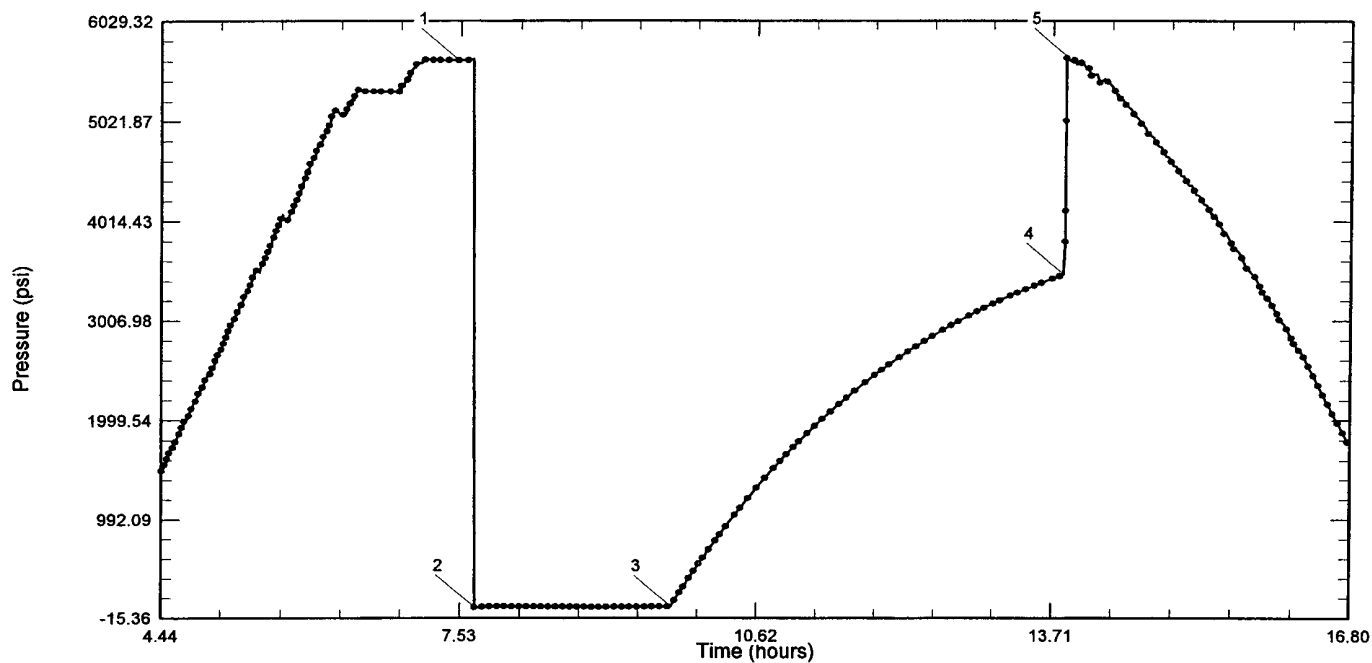
Label Point Data Mewbourne Oil Comp. DST

Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04



Label Point//Comments	Date (dd-mmm-yy)	Time (hh:mm:ss)	Gauge ET (hours)	BHP (psia)	Rate (MCF)
Label Point Summary					
1) Hydrostatic Pressure	09-Mar-04	3:42:02	7.501	5638.05	0
2) Start Flow	09-Mar-04	3:52:12	7.670	107.30	1
3) End Flow & Start Shut-in	09-Mar-04	5:55:42	9.728	101.84	0
4) End Shut-in	09-Mar-04	10:01:32	13.826	3473.25	0
5) Hydrostatic Pressure	09-Mar-04	10:05:37	13.894	5635.48	0

Schlumberger**Gauge Data
Mewbourne Oil Comp.****DST****Avalon Lake 31 Fed 1****Gauge Serial # slsr-856****10625829****Avalon Lake****March 9, 2004**

Date (dd-mmm-yy)	Time (hh:mm:ss)	Elapsed Time (hrs)	BHP (psia)	BHT (Deg F)	Comments
Initial Flow					
09-Mar-04	3:52:12	7.67000	107.296	173.80	
09-Mar-04	4:16:57	8.08250	102.257	174.18	
09-Mar-04	4:41:47	8.49639	100.726	175.03	
09-Mar-04	5:06:32	8.90889	96.271	175.50	
09-Mar-04	5:31:22	9.32278	98.782	175.89	
Initial Shut-in					
09-Mar-04	5:55:42	9.72833	101.838	176.27	
09-Mar-04	5:55:47	9.72972	103.207	176.27	
09-Mar-04	6:17:52	10.09778	653.324	176.76	
09-Mar-04	6:38:42	10.44500	1109.492	177.12	
09-Mar-04	7:01:22	10.82278	1542.074	177.44	
09-Mar-04	7:24:22	11.20611	1922.649	177.67	
09-Mar-04	7:48:22	11.60611	2266.639	177.91	
09-Mar-04	8:14:57	12.04917	2593.828	178.12	
09-Mar-04	8:39:12	12.45333	2849.098	178.29	
09-Mar-04	9:07:27	12.92417	3100.946	178.47	
09-Mar-04	9:35:17	13.38806	3308.511	178.65	

Schlumberger**Mewbourne Oil Comp.****DST****Avalon Lake 31 Fed 1****Gauge Serial # slsr-856****10625829****Avalon Lake****09-Mar-04****Distribution List**

2 Dean Boundy
Mewbourne Oil Company
500 West Texas
Suite 1020
Midland Texas 79701

2
Mewbourne Oil Company
P.O. Box 7698

Tyler Texas 75711

2 Mickey Young
Mewbourne Oil Company
P.O. Box 5270

Hobbs New Mexico 88241

ALL INTERPRETATIONS ARE OPINIONS BASED ON INFERENCES FROM ELECTRICAL OR OTHER MEASUREMENTS AND WE CANNOT, AND DO NOT GUARANTEE THE ACCURACY OR CORRECTNESS OF ANY INTERPRETATIONS, AND WE SHALL NOT, EXCEPT IN THE CASE OF GROSS OR WILLFUL NEGLIGENCE ON OUR PART, BE LIABLE OR RESPONSIBLE FOR ANY LOSS, COSTS, DAMAGES OR EXPENSES INCURRED OR SUSTAINED BY ANYONE RESULTING FROM ANY INTERPRETATION MADE BY ANY OF OUR OFFICERS, AGENTS OR EMPLOYEES. THESE INTERPRETATIONS ARE ALSO SUBJECT TO CLAUSE 4 OF OUR GENERAL TERMS AND CONDITIONS AS SET OUT IN OUR CURRENT PRICE SCHEDULE.

Schlumberger

Gauge Comparison Mewbourne Oil Comp.

DST

Avalon Lake 31 Fed 1

10625829

Avalon Lake

09-Mar-04

