

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

FORM APPROVED
OMB NO. 1004-0137
Expires: November 30, 2000

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

2. Name of Operator
THOMPSON, J. CLEO

3. Address
P.O. BOX 12577 ODESSA TX 79768-2577

3.a Phone No. (Include area code)
(432)550-8887

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At Surface UNIT LETTER A, SEC. 15, T-22-S, R26E, EDDY COUNTY, NM
At top prod. interval reported below
At total depth

5. Lease Serial No.
NMLC-064490

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and no.
33202

8. Lease Name and Well No.
MESA FEDERAL 1

9. API Well No.
30-015-33141

10. Field and Pool, or Exploratory
UNDESIGNATED CARLSBAD MOR

11. Sec., T., R., M., on Block and
Survey or Area SEC. 15-T22S-R26E

12. County or Parish
EDDY

13. State
NM

14. Date Spudded
12/26/2003

15. Date T.D. Reached
02/05/2004

16. Date Completed
☐ D & A ☐ Ready to Prod.

17. Elevations (DF, RKB, RT, GL)*
3220' GL

18. Total Depth: MD
TVD

19. Plug Back T.D.: MD 11485
TVD

20. Depth Bridge Plug Set: MD
TVD

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

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☐ No ☒ Yes (Submit analysis)
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	48#		504'		608 SX		SURFACE	
	H-40								
12 1/4	9 5/8	36#		2480'		1360 SX		8842	
	J55					BLEND			
7 7/8	5 1/2 180	17#		11774.96'		725 SX "H"		3010	
					7100'	1550 SX "C"			

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 3/8	11340	NA						

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MORROW (MID)	11342	11384	11342-11384	.4	108	PRODUCING
B) MID MORROW	11230	11257	11230-11257	.4	80	PRODUCING
C) UP MORROW	11095	11117	11095-11117	.4	32	
D) ATOKA	10554	10562	10554-10562	.4	48	

26. Perforation Record

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

Depth Interval	Amount and Type of Material
11342-11384	ACIDIZED W/2000 GALS 7.5% HCl, FRAC W/55,742 GALS 70 Q FOAM & 54,820# SAND
11230-11257	ACIDIZED W/2000 GALS 7.5% HCl, FRAC W/42,242 GALS 70 Q FOAM & 42000# SAND
11095-11117	ACIDIZED W/3000 GALS ISOLOL (ACID & METHANOL MIXTURE)
10554-10562	ACIDIZED W/3000 GALS ISOLOL, FRAC W/43,200 GALS 70 Q FOAM & 31,560# SAND

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
3/20/04	3/25/04	24	→	0	156	1			
Choice Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
6	SI 800	0	→						

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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
	4/30/04	24	→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
	SI 650	0	→	0	462	45			

(See Instructions and spaces for additional data on reverse side)

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
4/30/04	5/18/04	24	→	1	546	12			FLOWING INTERVALS A,B, & C
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
48/64	SI 525	0	→						FLOWING UP 2 7/8" W/PACKER IN HOLE

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
5/29/04	7/14/04	24	→	0	193	0			FLOWING
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
48/64	SI 500	800	→						

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

SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones or 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
Delaware	2423			STRAWN	10,048
Brushy Canyon	3593			ATOKA	10,428
Bone Spring	5050			MORROW LIME	10,674
1 st Bone Spg Snd	6108			MORROW CLASTICS	11,100
2 nd Bone Spg Snd	6700			MIDDLE MORROW	11,198
3 rd Bone Spg Snd	8234			LOWER MORROW	11,454
Wolfcamp	8678				
Strawn	10048		DST Strawn W/no gas to surface or oil recovery		
Atoka	10428				
Morrow Lime	10674				

32. Additional remarks (include plugging procedure):

PERFORATED, ACIDIZED W/2,000 GALS 7.5% HCl AND FRAC W/45,750 GALS 70 Q BINARY FOAM & 45,020# SAND. THE LOWER MORROW INTERVAL FROM 11,571' -11,604'. PRODUCED WATER AND SET CIBP OVER PERFORATED INTERVAL @ 11,550'.

33. Circle enclosed attachments:

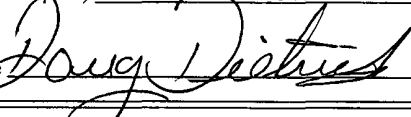
- ☒ 1. Electrical/Mechanical Logs (1 full set req'd.)
 ☐ 2. Geological Report
 ☒ 3. DST Report
 ☐ 4. Directional Survey
☐ 5. Sundry Notice for plugging and cement verification
☐ 6. Core Analysis
☐ 7. Other

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) DOUG DIETRICH

Title ENGINEER

Signature



Date 07/21/2004

Title 18 U.S.C. Section 101 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 and false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Schlumberger**Job Summary**
J. Cleo Thompson
DST**Mesa Federal 1**
WildcatService Order Number : **10625822**
Test Date : **24-Jan-04**

Company Rep Johnny Holder SWS Rep..... Jeremy Cates

Test InformationTest Number One Formation Strawn
Interval (MD ft) 25' 10167-10142**Well Location**Well..... Mesa Federal 1 Rig..... Patterson
Field..... Wildcat State Eddy - New Mexico**Wellbore Configuration**Cushion None
Total Depth (MD/TVD ft) 10167 Wellbore Radius (ft) 8.75
Casing / Liner ID (in) 9.625 Mud Weight (lb/gal) 9.7
Top of Liner (md- ft) 2500 Mud Type Dynazan/Starch
Mud: Chloride/Resistivity..... 115000/50**Test String Configuration**Pipe Length (ft) / ID (in) 9358 Gauge Depth (MD) 10149
Pipe Length (ft) / ID (in) Gauge Depth (TVD) 10149
Drill Collar Length (ft) / ID (in) 745 Test Valve Type MFE
Packer Depths (ft MD) 10136 / 10142 Test Valve Depth (ft) (MD) 10116**Key Information**Initial Hydrostatic Pressure 5151 Final Shut In Pressure 4432
Init. Hyd Grad & Density 0.508 psi/ft / 9.76 lb/gal Final Shut In Grad & Density 0.437 psi/ft / 8.40 lb/gal
Final Hydrostatic Pressure 5174 Final Flowing Pressure 84
Final Hyd Grad & Density 0.510 psi/ft / 9.80 lb/gal Final Flow Rate (mcf)
Bottom Hole Temp..... 171 Productivity Index (mcf / psi)

This is DST #1 The Strawn formation was evaluated from 10142 to 10167. The test was conclusive. There was no gas to surface during the test. The recovery was 100 feet of mud. Please direct any questions about this test to the Hobbs Testing District. Thank You for choosing Schlumberger.

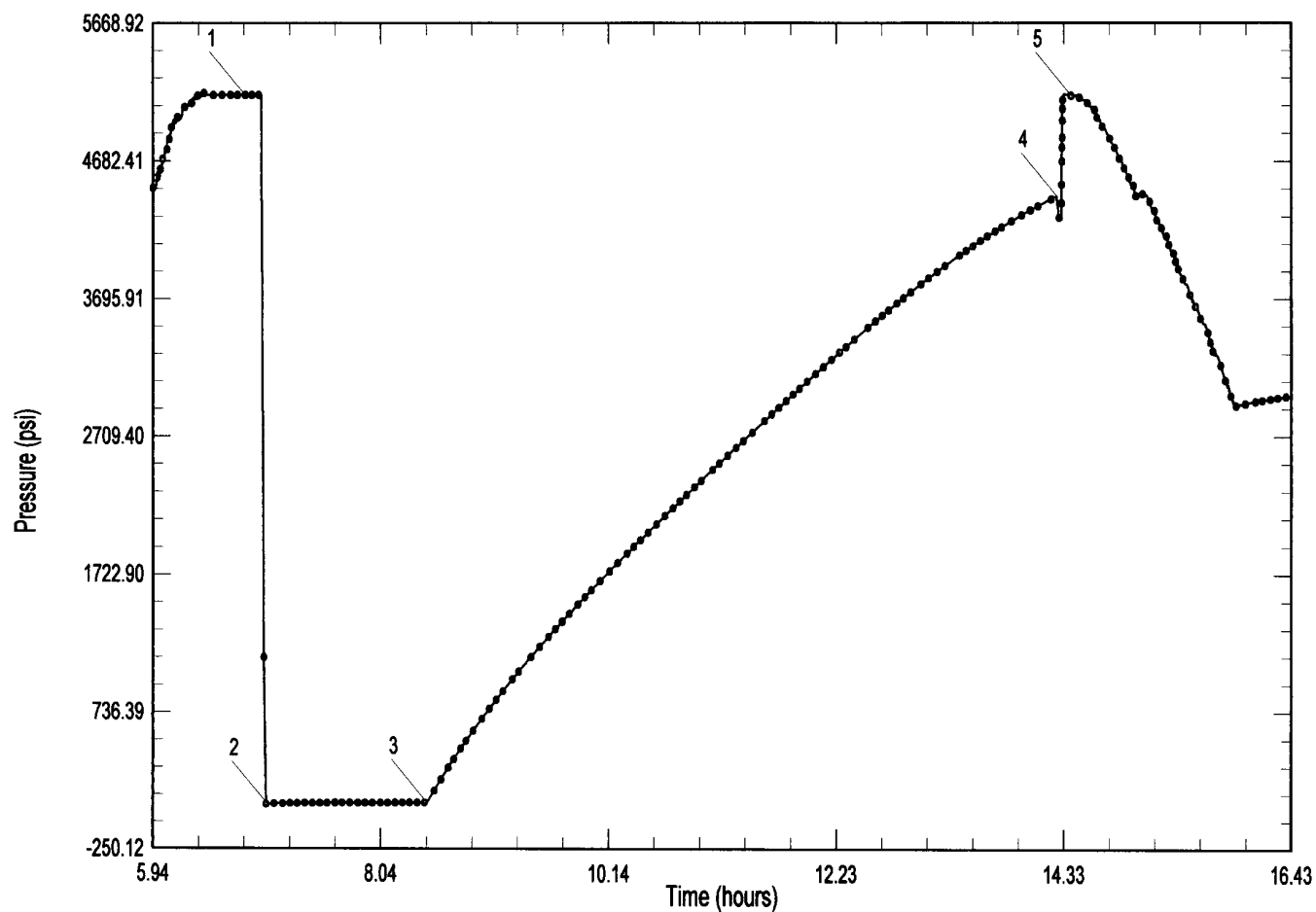
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Schlumberger Crew

Jeremy Cates

J. Cleo Thompson**DST****Mesa Federal - 1****Wildcat****Rig : Patterson****Eddy - New Mexico****Report Contents**

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

Schlumberger Testing Services

Schlumberger**Sample Chamber Data****J. Cleo Thompson****DST****Mesa Federal 1****10625822****Wildcat****24-Jan-04****Sample Chamber Capacity (cc) 2500****Measured Fluid Recovery**

		<u>Temp (F)</u>	<u>Press (psia)</u>
Oil (cc)	API Gravity	55	60.0
Water (cc)	Res. (ohms) ...	55	60.0
Mud (cc)	Res. (ohms) ...		
Total Liquid Recovery (cc)			
Gas (ft3) 0.61		55	60.0

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F) 171	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia) 84	Est Z Value @ Pwf and Tres	0.992
Corrected Gas Recovery (scf) 0.419		

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</u> <u>feet</u>	<u>Pipe ID</u> <u>(in)</u>	<u>Recovery</u> <u>bbl</u>	<u>Oil Density</u> <u>API</u>	<u>RES</u> <u>ohm</u>	<u>CHL</u> <u>ppm</u>
Mud	100				0.051	110k

Schlumberger

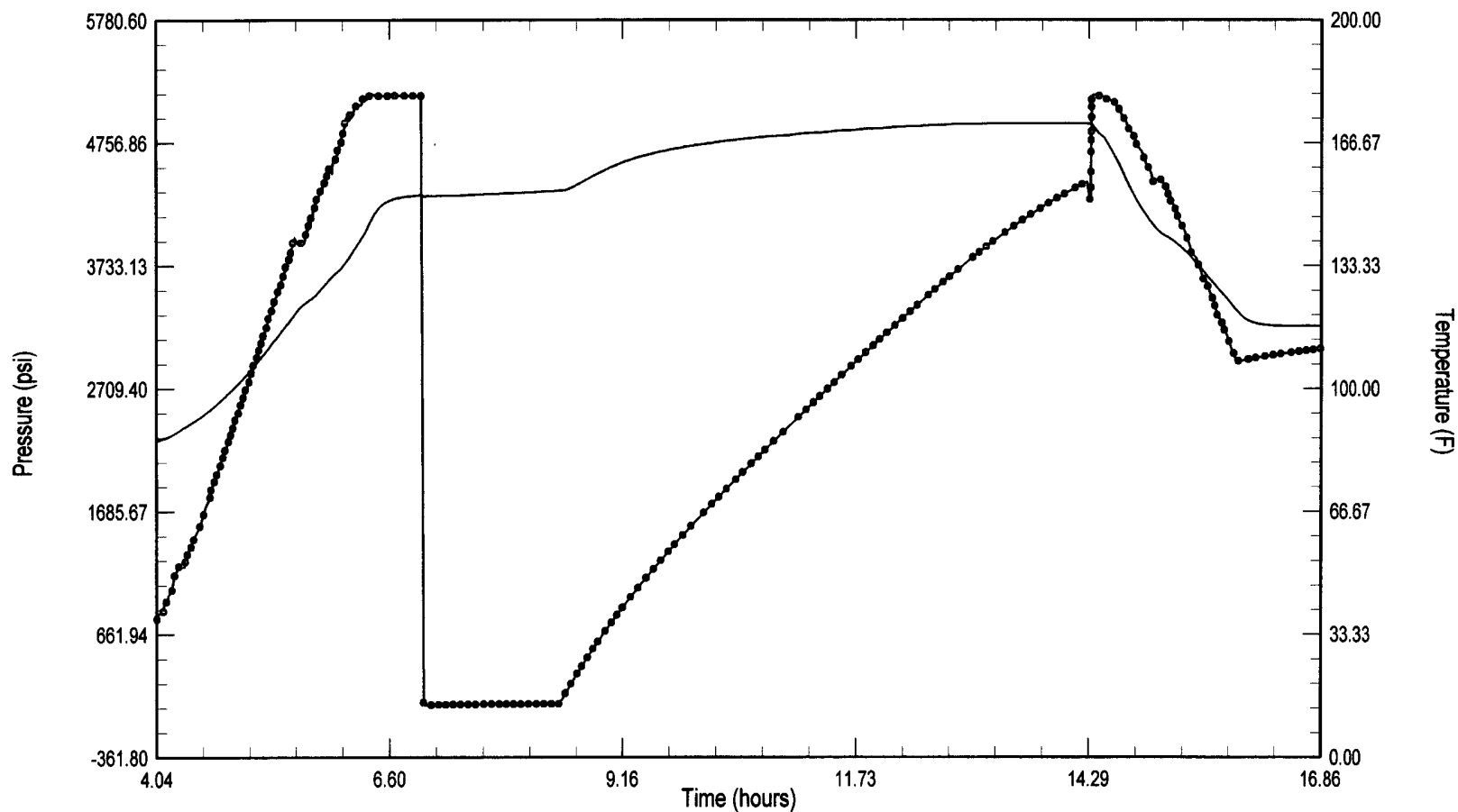
Sequence of Events
J. Cleo Thompson
DST

Mesa Federal 1
Wildcat

10625822
24-Jan-04

Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
24-Jan-04	12:55	Safety Meeting
	13:03	Set Packers
	13:06	Start Flow Open To 1/8" Bubble Hose 2"
	13:07	Bottom Of Bucket
	13:08	1.5 #
	13:09	1.75#
	13:10	2#
	13:11	2#
	13:16	2.5#
	13:21	2.75#
	13:26	3#
	13:31	3.25#
	13:36	3.5#
	13:51	4#
	14:06	4.75#
	14:16	5#
	14:21	4.5#
	14:34	End Flow Start Shutin 4.5 #
	20:22	End Shutin

Bottomhole Pressure and Temperature Log

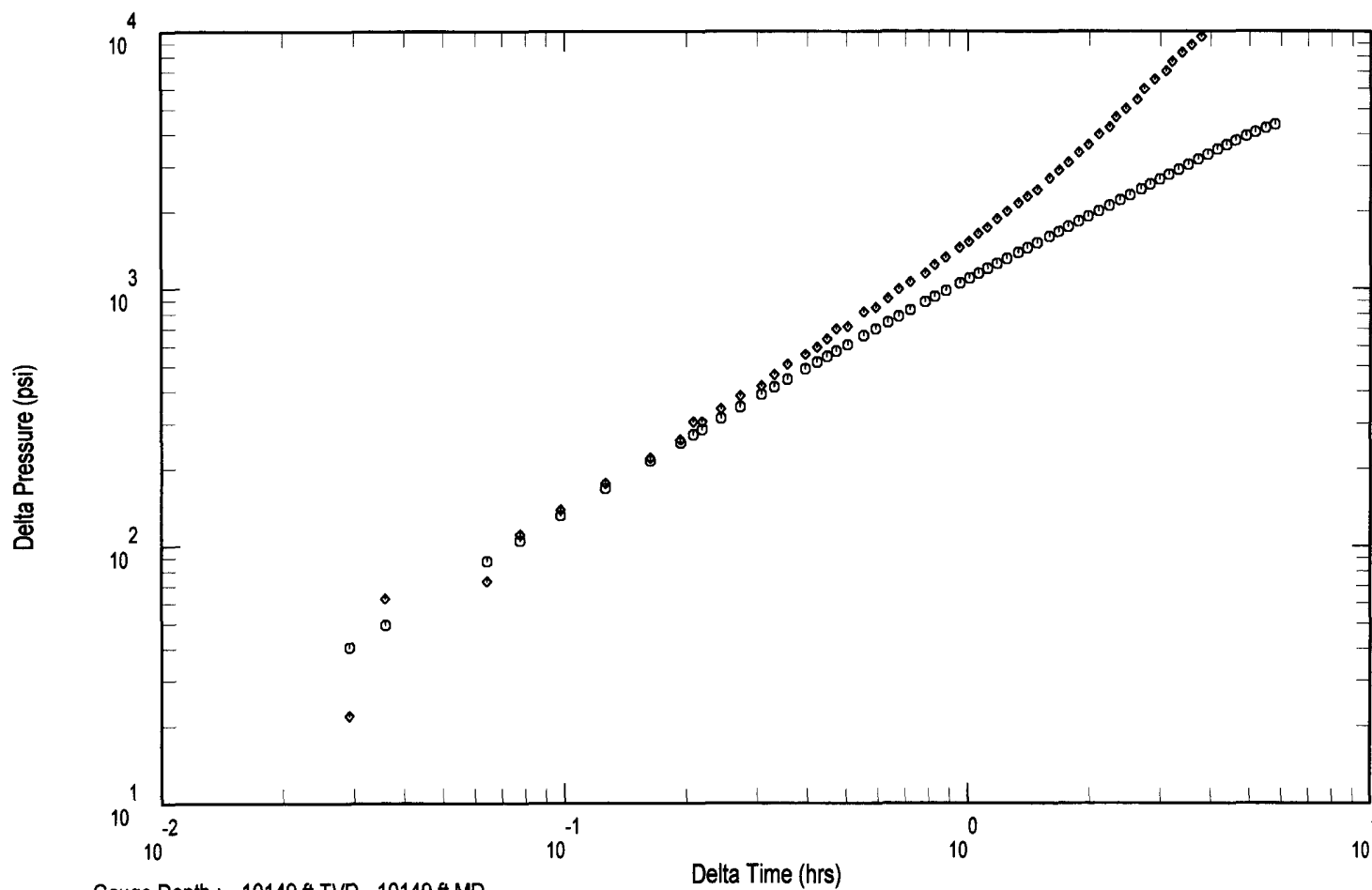


Gauge Depth : 10149 ft TVD - 10149 ft MD
Gauge ID : SLSR-794

Mesa Federal 1
Wildcat

10625822
24-Jan-04

Log-log Plot - Initial Shutin Period

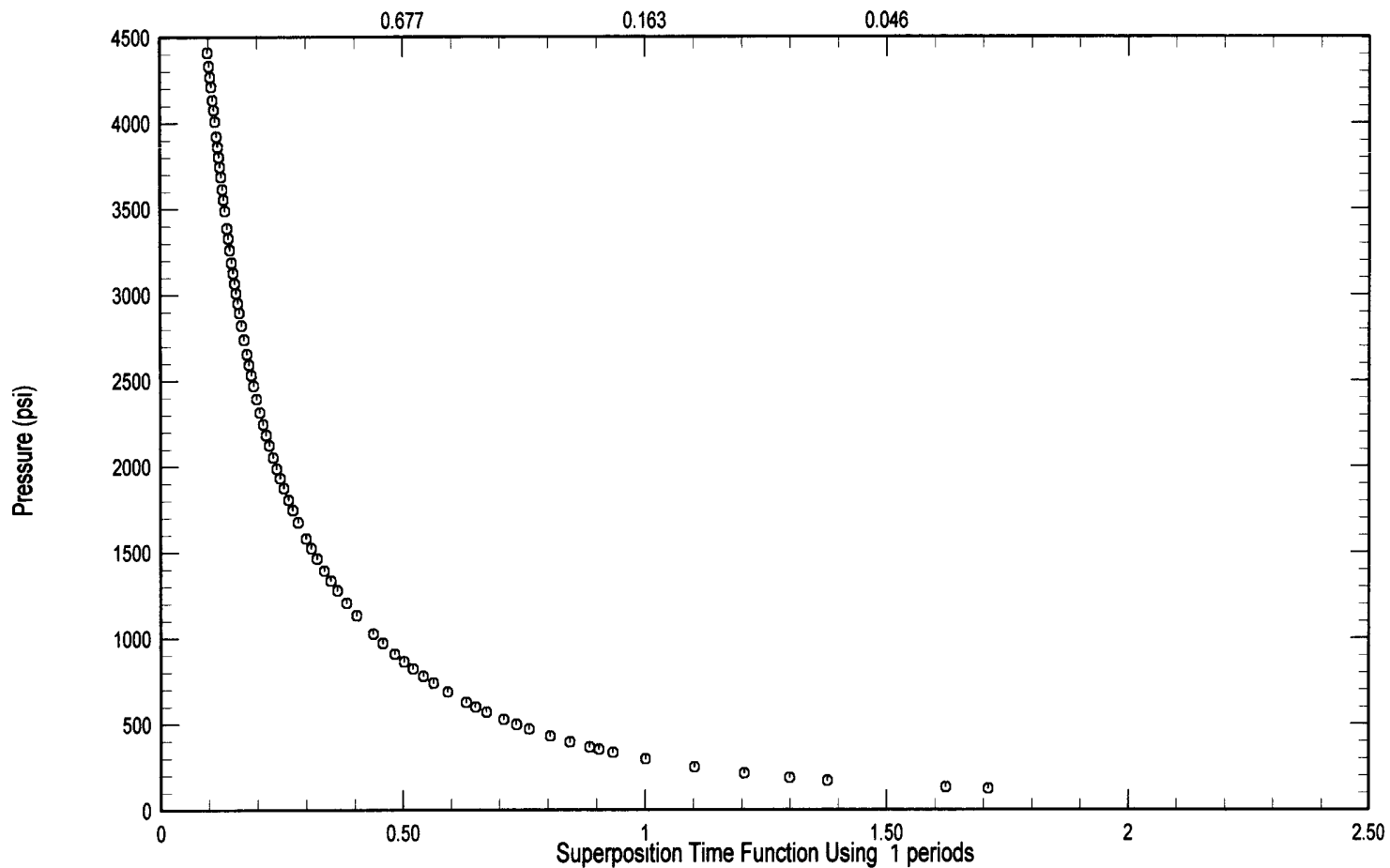


Gauge Depth : 10149 ft TVD - 10149 ft MD
Gauge ID : SLSR-794

Mesa Federal 1
Wildcat

10625822
24-Jan-04

Semi-log Plot - Initial Shutin Period



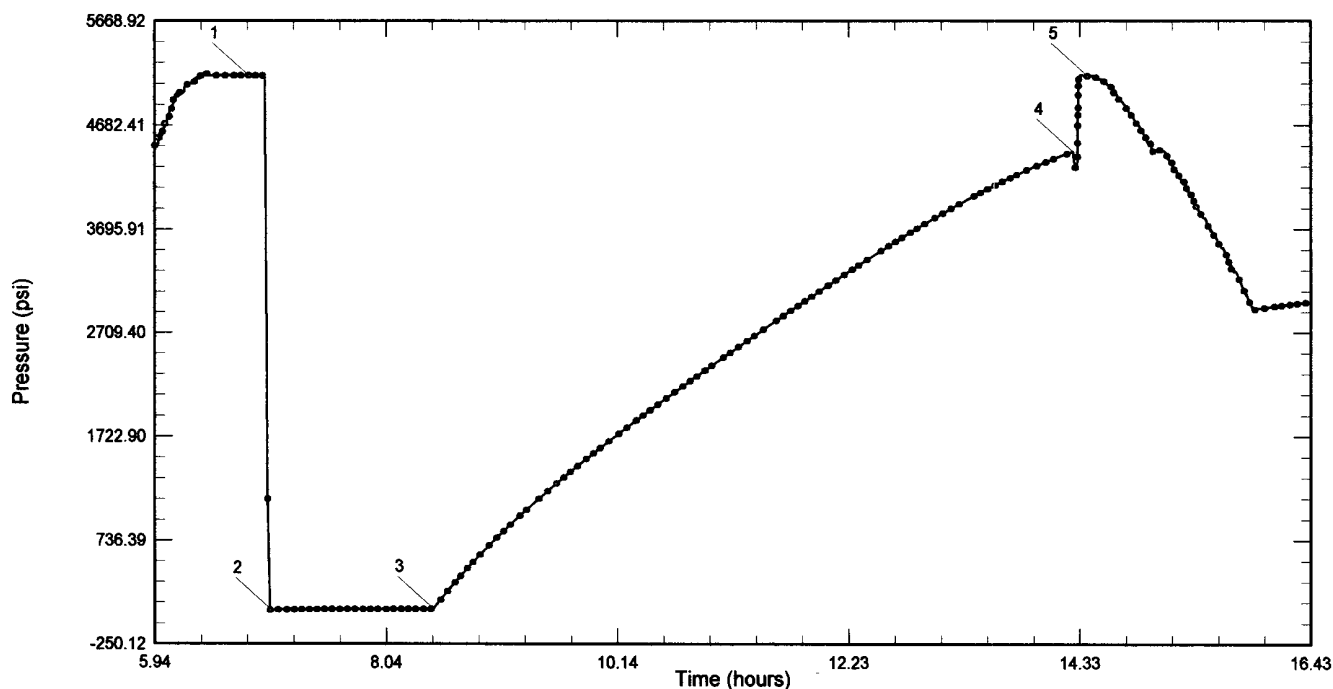
Gauge Depth : 10149 ft TVD - 10149 ft MD
Gauge ID : SLSR-794

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Label Point Data
J. Cleo Thompson
DST

Mesa Federal 1
Wildcat

10625822
24-Jan-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	24-Jan-04	12:53:43	6.795	5150.98	0
2) Start Flow	24-Jan-04	13:06:07	7.002	69.28	1
3) End Flow & Start Shut-in	24-Jan-04	14:34:10	8.469	83.78	0
4) End Shut-in	24-Jan-04	20:22:10	14.269	4431.55	0
5) Hydrostatic Pressure	24-Jan-04	20:30:01	14.400	5148.16	0

Schlumberger

Gauge Data
J. Cleo Thompson
DST

Mesa Federal 1
Wildcat

Gauge Serial # SLSR-794

10625822
January 24, 2004

Date (dd-mmm-yy)	Time (hh:mm:ss)	Elapsed Time (hrs)	BHP (psia)	BHT (Deg F)	Comments
Initial Flow					
24-Jan-04	13:06:07	7.00194	69.280	152.24	
24-Jan-04	13:23:52	7.29778	78.409	152.42	
24-Jan-04	13:41:49	7.59694	80.354	152.76	
24-Jan-04	13:59:46	7.89611	81.909	153.05	
24-Jan-04	14:17:34	8.19278	82.949	153.37	
Initial Shut-in					
24-Jan-04	14:34:10	8.46944	83.782	153.75	
24-Jan-04	14:34:13	8.47028	84.348	153.75	
24-Jan-04	15:02:28	8.94111	654.757	158.95	
24-Jan-04	15:31:25	9.42361	1132.721	163.36	
24-Jan-04	16:01:13	9.92028	1563.072	165.85	
24-Jan-04	16:32:28	10.44111	1977.164	167.61	
24-Jan-04	17:05:37	10.99361	2395.030	168.76	
24-Jan-04	17:41:40	11.59444	2835.557	170.04	
24-Jan-04	18:19:10	12.21944	3279.202	171.05	
24-Jan-04	18:58:10	12.86944	3711.536	171.73	
24-Jan-04	19:39:49	13.56361	4113.388	171.90	

Mesa Federal 1
Wildcat

10625822
24-Jan-04

