

Form 316
August 1999)



New Mexico Oil Conservation Division, District I

1625 N. French Drive

Albuquerque, NM 88240

DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

CONFIDENTIAL

FORM APPROVED
OMB NO. 1004-0137
EXPIRES: NOVEMBER 30, 2000

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED
OCD - ARTESIA

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

Name of Operator

DEVON ENERGY PRODUCTION COMPANY, LP

Address

20 North Broadway, Ste 1500
Oklahoma City, OK 73102-8260

3a. Phone No. (include area code)

405-228-8209

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

At Surface

1980 FNL 1980 FWL

At top prod. Interval reported below

At total Depth

4. Date Spudded

5/2/2004

15. Date T.D. Reached

7/26/2004

16. Date Completed

8/6/2004

☐ D & A ☒ Ready to Prod.

8. Total Depth: MD
TVD

14,660

19. Plug Back T.D.: MD
TVI

20. Depth Bridge Plug Set: MD
TVI

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

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

ISN-SDL-SSS-RSCT-HFWS

3. 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 Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
17 1/2	13 3/8 K55	61 & 54.5	0	2428		1900 sx CI C, circ 150 bbls		0	
12 1/4	9 5/8 P110	40	0	5148		1900 sx CI C, circ 211 sx		0	
8 3/4	7"	26	0	11977		600 sx CI H			
6 1/8	5"	23.2	11646	14570		460 sx CI H			
3 7/8									

4. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)

5. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
Devonian	14570	14660	Open Hole			

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

Depth Interval	Amount and Type of Material

8. 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
8/6/2004	8/31/2004	24	→	28	8547	5			Flowing
Choke Size	Tbg. Press. Flwg SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
2040		80	→	28	8547	5	305,250		Producing Gas Well

8a. 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	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas : Oil Ratio	Well Status	
			→						

See instructions and spaces for additional data on reverse side)

5. Lease Serial No. NMNM100864

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No. Rio Blanco 33 Federal 2

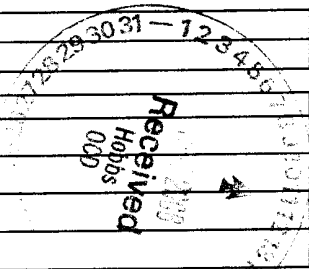
9. API Well No. 30-025-36360

10. Field and Pool, or Exploratory NE Bell Lake; Devonian

11. Sec. T., R., M., on Block and Survey or Area 33 22S 34E

12. County or Parish Lea 13. State NM

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



(ORIG. SGD) DAVID R. GLASS
2

Schlumberger Testing Services
Hobbs Testing 505-393-4107

Schlumberger

Job Summary
Devon Energy
Cased Hole/Ultra-Slim DST

CONFIDENTIAL**Rio Blanco 33 Fed. 2**
WildcatService Order Number : **10815202**
Test Date : **23-Jul-04**

Company Rep Mike Dewitt		SWS Rep Kirk Beasley	
Test Information			
Test Number One		Formation Devonian	
		Interval (MD ft) 14,570 - 14,620	
Well Location			
Well..... Rio Blanco 33 Fed. 2		Rig..... Nabors 730	
Field..... Wildcat		State Lea - New Mexico	
Wellbore Configuration			
Total Depth (MD/TVD ft) 14620		Cushion 1000' of H2O	
Casing / Liner ID (in) 4.04		Wellbore Radius (ft) 3.875	
Top of Liner (md- ft) 11646		Mud Weight (lb/gal) 8.7	
		Mud Type Brine/Polymer	
		Mud: Chlorides/Resistivity 33,000/.131 @ 70	
Test String Configuration			
Pipe Length (ft) / ID (in) 11,038 / 2.764		Gauge Depth (MD) 14407	
Pipe Length (ft) / ID (in) 2,468 / 2.151		Gauge Depth (TVD) 14407	
Drill Collar Length (ft) / ID (in) 872 / 1.625		Test Valve Type Multiflow Evaluator	
Packer Depths (ft MD) / 14.407		Test Valve Depth (ft) (MD) 14185	
Key Information			
Initial Hydrostatic Pressure 6551		Final Shut In Pressure 5986	
Init. Hyd Grad & Density 0.455 psi/ft / 8.74 lb/gal		Final Shut In Grad & Density 0.415 psi/ft / 7.99 lb/gal	
Final Hydrostatic Pressure 6548		Final Flowing Pressure 1478	
Final Hyd Grad & Density 0.455 psi/ft / 8.74 lb/gal		Final Flow Rate (MCF/D) 2743	
Bottom Hole Temp..... 214		Productivity Index (MCF/D / psi) 0.608	

A barefoot slim-hole test in 5" casing was preformed on the Devonian formation. The 3 7/8 " openhole zone was evaluated from 14,570' to 14,590'. A 1,000' water blanket was installed into the test string. The test times were well suited for the formation's response. Fluid hit the surface 27 minutes into the second opening. The maximum surface pressure was 1460 PSI. The well flowed at a final stable rate of 2743 MCF/D. The pipe recovery was .25 barrels of condensate. Please note, there is no sample chamber on the 3 1/8" MFE valve. Please direct any questions about this test to the Hobbs Testing district (505/393-4107). Thank you for choosing Schlumberger.

Schlumberger Crew
Kirk Beasley

Schlumberger

Sample Chamber Data
Devon Energy
Cased Hole/Ultra-Slim DST

CONFIDENTIAL

Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Sample Chamber Capacity (cc)

Measured Fluid Recovery

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

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	214	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia)	1478	Est Z Value @ Pwf and Tres	0.913
Corrected Gas Recovery (scf)	0.000		

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>
Condensate	96	1.625	0.25	52.8		

CONFIDENTIAL**Cover Page and General Information****General**

Service Order Number	10815202
Company	Devon Energy
Test Description	Cased Hole/Ultra-Slim DST
Report Date	July 24, 2004
Test Date	July 23, 2004
Company Rep	Mike Dewitt
SWS Rep	Kirk Beasley

Well Description

Well Name	Rio Blanco 33 Fed.
Well Number	2
Field	Wildcat
County/Parish	Lea
Rig Name	Nabors 730
State	New Mexico
Location	33-22S-34E

Wellbore Configuration

Total Depth [MD/TVD] (ft)	14620
Casing Liner ID (in)	4.04
Casing Liner Top (ft)	11646
Wellbore Radius (ft)	3.875
Mud Weight (lb/gal)	8.7
Mud Type	Brine/Polymer

Test Identification

Test Number	One
Formation	Devonian
Interval (MD)	14,570 - 14,620

Test String Configuration

DRILL PIPE 1 Length (ft) / ID (in)	11,038 / 2.764
DRILL PIPE 2 Length (ft) / ID (in)	2,468 / 2.151
DRILL COLLAR Length (ft) / ID (in)	872 / 1.625
Top Packer Depth [MD] (ft)	
Btm Packer Depth [MD] (ft)	14
Gauge Depth (MD)	14407
Gauge Depth (TVD)	14407
Downhole Valve Type	Multiflow Evaluator
Downhole Valve Depth	14185

Key Information

Initial Hydrostatic Pressure	6551	
Initial Hydrostatic Gradient (psi / ft)	0.455	<- Calc.
Final Hydrostatic Pressure (psi)	6548	
Final Hydrostatic Gradient (psi/ft)	0.455	<- Calc.
Final Shut In Pressure	5986	
Reservoir Pressure Gradient	0.415	<- Calc.
Bottomhole Temperature	214	
Final Flowing Pressure	1478	
Final Flow Rate	2743	
Productivity Index	0.608	<- Calc.
Rate Units	MCF/D	

Gauge Information

Gauge Source File	c:\swws\10815202\A_rawdata\10815202.sp
Gauge Serial Number	SLSR-704
Reference Date	07/23/04
Reference Real Time	7:45:00
Reference ET Time	0.0000

Sample Chamber

Sample Chamber Volume (cc)	
Oil Recovery (cc)	
Water Recovery (cc)	
Mud Recovery (cc)	
Measured Gas (ft3)	
Sampler Pressure At Surface (psig)	
Surface Temperature (F)	
API Gravity of SC Oil	
Resistivity of SC Water (ohm)	
Resistivity of SC Mud Filtrate (ohm)	

Corrected Gas Volume

Gas Gravity (DIM)	0.65
Yield (bbl/mmscf)	0.00

BHT (From D31 Above) 214

Final Flowing Press (From D32 Above) 1478

Calculated Z Value (Dim) 0.913

Corrected Gas Volume (scf) 0.000

Note: Z Calc Assumes No Impurities

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Pipe Recovery

		Pipe		Sample		
Description		Feet of Recovery	Pipe ID	API	Res (ohm)	Temperature (F)
1	Condensate	96	1.625	52.8		
2						
3						
4						
5						
6						
7						
8						
9						
10						

Completion Information Page and Analysis Input Data

Reference Date : 7/23/2004
 Reference Real Time : 7:45:00
 Reference Elapsed Time: 0

Water Saturation (%) : N/G
 Gas Saturation (%) : N/G
 Oil Saturation (%) : N/G
 Gas Specific Gravity (dim) : N/G
 Oil Gravity - API : N/G
 GLR(scff/bbl) : N/G
 Water Cut (%) : N/G

Zone Height [h] (ft) : 0
 Porosity (Frac) : N/G
 Viscosity (cp) : N/G
 Total Compressibility (1/psi) : N/G
 Formation Volume Factor : N/G
 Open Hole Radius (ft) : N/G
 Distance Between Wells (ft) : N/G

Setup Information

Schlumberger District Name : Schlumberger Testing Services
 Address : Hobbs Testing 505-393-4107

Schlumberger

TESTING SERVICES REPORT

Report Number

10815202

Test Date

23-Jul-04

Report Date

24-Jul-04

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Devon Energy

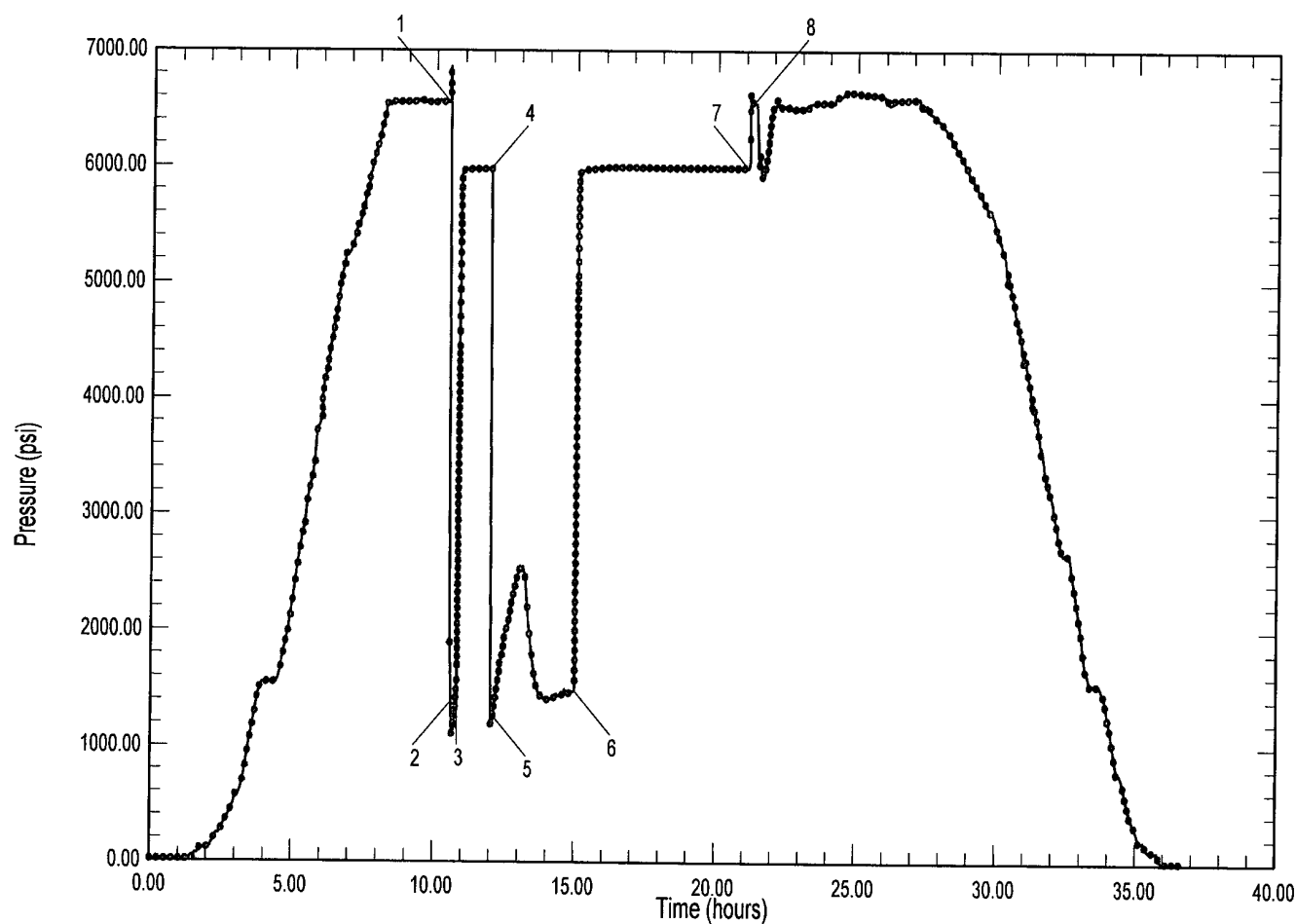
Cased Hole/Ultra-Slim DST

Rio Blanco 33 Fed. - 2

Wildcat

Rig : Nabors 730

Lea - New Mexico



Report Contents

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

Schlumberger Testing Services

Hobbs Testing 505-393-4107

Schlumberger

Job Summary
Devon Energy
Cased Hole/Ultra-Slim DST

CONFIDENTIAL

Rio Blanco 33 Fed. 2
Wildcat

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Schlumberger Crew
Kirk Beasley

Schlumberger

Sample Chamber Data
Devon Energy
Cased Hole/Ultra-Slim DST

CONFIDENTIAL

Rio Blanco 33 Fed. 2
Wildcat

10815202
23-Jul-04

Sample Chamber Capacity (cc)

Measured Fluid Recovery

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

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	214	Assumed SC Gas Gravity	0.650
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Sample Chamber Fluid Ratios

Sample Chamber Water Cut	
GOR Using Corrected Gas Recovery	
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Pipe Recovery

<u>Description</u>	<u>Recovery</u> <u>feet</u>	<u>Pipe ID</u> <u>(in)</u>	<u>Recovery</u> <u>bbf</u>	<u>Oil Density</u> <u>API</u>	<u>RES</u> <u>ohm</u>	<u>CHL</u> <u>ppm</u>
Condensate	96	1.625	0.25	52.8		

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Sequence of Events
Devon Energy
Cased Hole/Ultra-Slim DST

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Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Date (dd-mmm-yy)	Time (hh:mm:ss)	Comments
23-Jul-04	18:00	Safety Meeting
	18:14	Set Packer
		Open To Bubble Hose Only
	18:20	Start Flow
	18:22	Bottom Of The Bucket
	18:24	6 PSI
	18:29	Open On 1/4" Choke To The Pit With 80 PSI
	18:35	End Flow & Start Shut-in, 370 PSI
	19:40	End Shut-in, 100# OF Residual Surface Pressure
	19:46	Start Flow.....Still Open On 1/4" Choke
	19:48	190 PSI
	19:53	400 PSI
	19:58	540 PSI
	20:10	Fluid To Surface, 780 PSI
	20:13	Open To Seperator With 870 PSI
	20:43	1460 PSI, Maximum Surface Pressure
	20:58	1000 PSI On 1/2" Choke.....5642 MCF
	21:28	600 PSI On 3/4" Choke.....3043 MCF
	21:58	560 PSI On 3/4" Choke.....2635 MCF
	22:28	570 PSI On 3/4" Choke.....2743 MCF
	22:46	End Flow & Start Shut-in
		Final Rate Was 2743 MCF/ D, 590 PSI On 3/4" Choke
24-Jul-04	4:50	End Shut-in
	4:53	Pulled Loose
	4:53	Reversed Out & Circulated Bottoms Up

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Data Plots
Devon Energy
Cased Hole/Ultra-Slim DST

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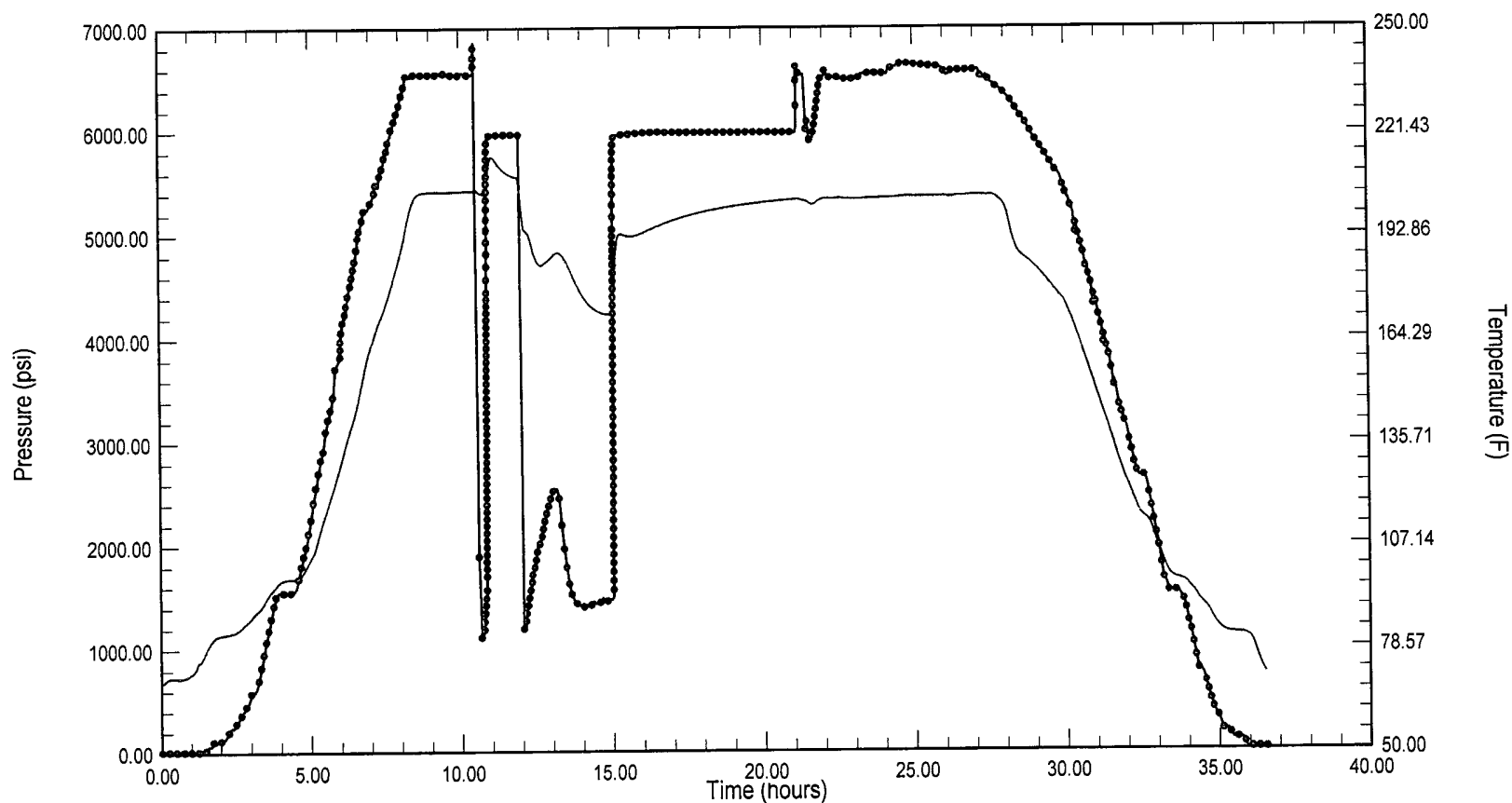
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Bottomhole Temperature Log



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

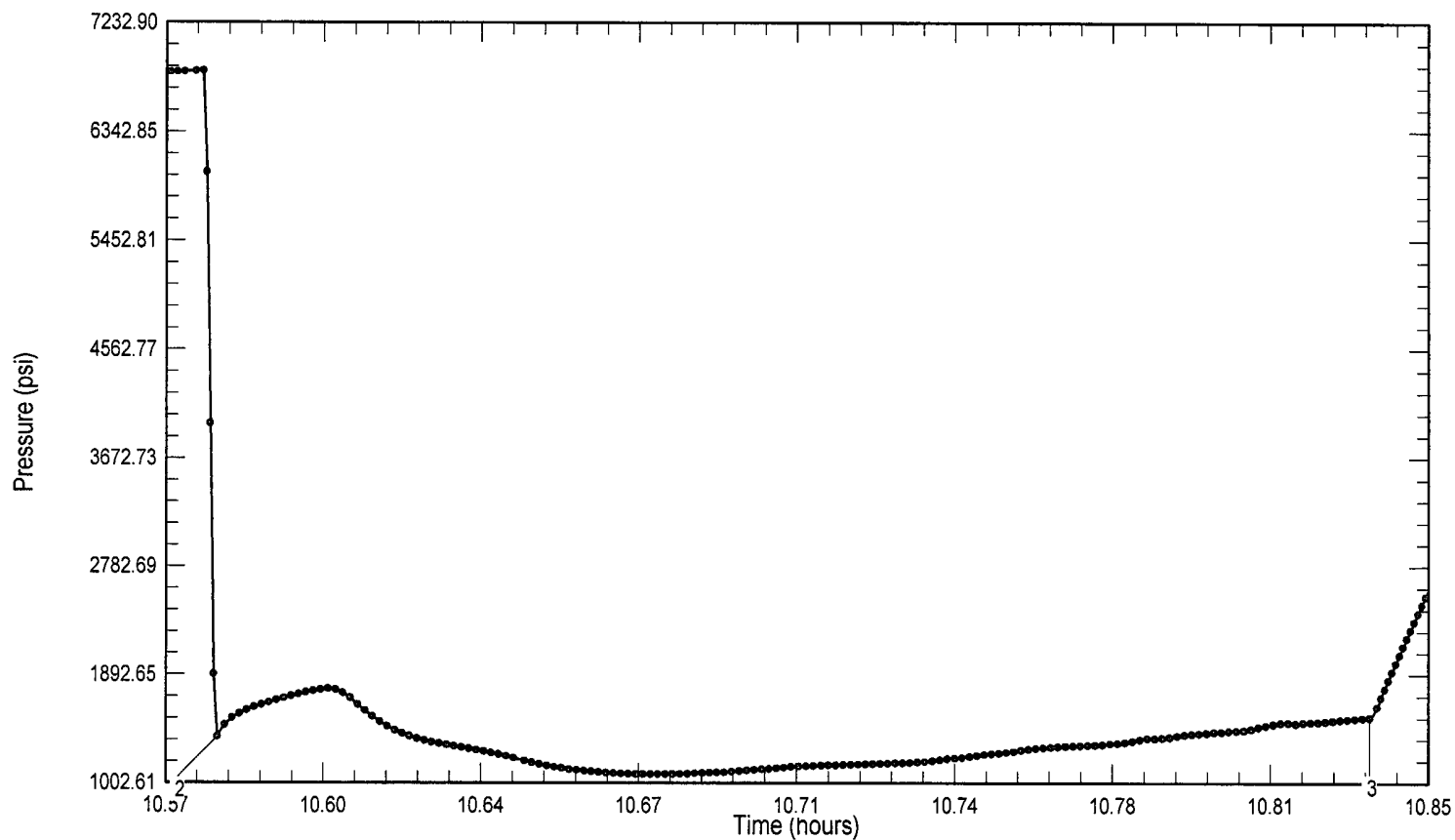
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Initial Flow



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

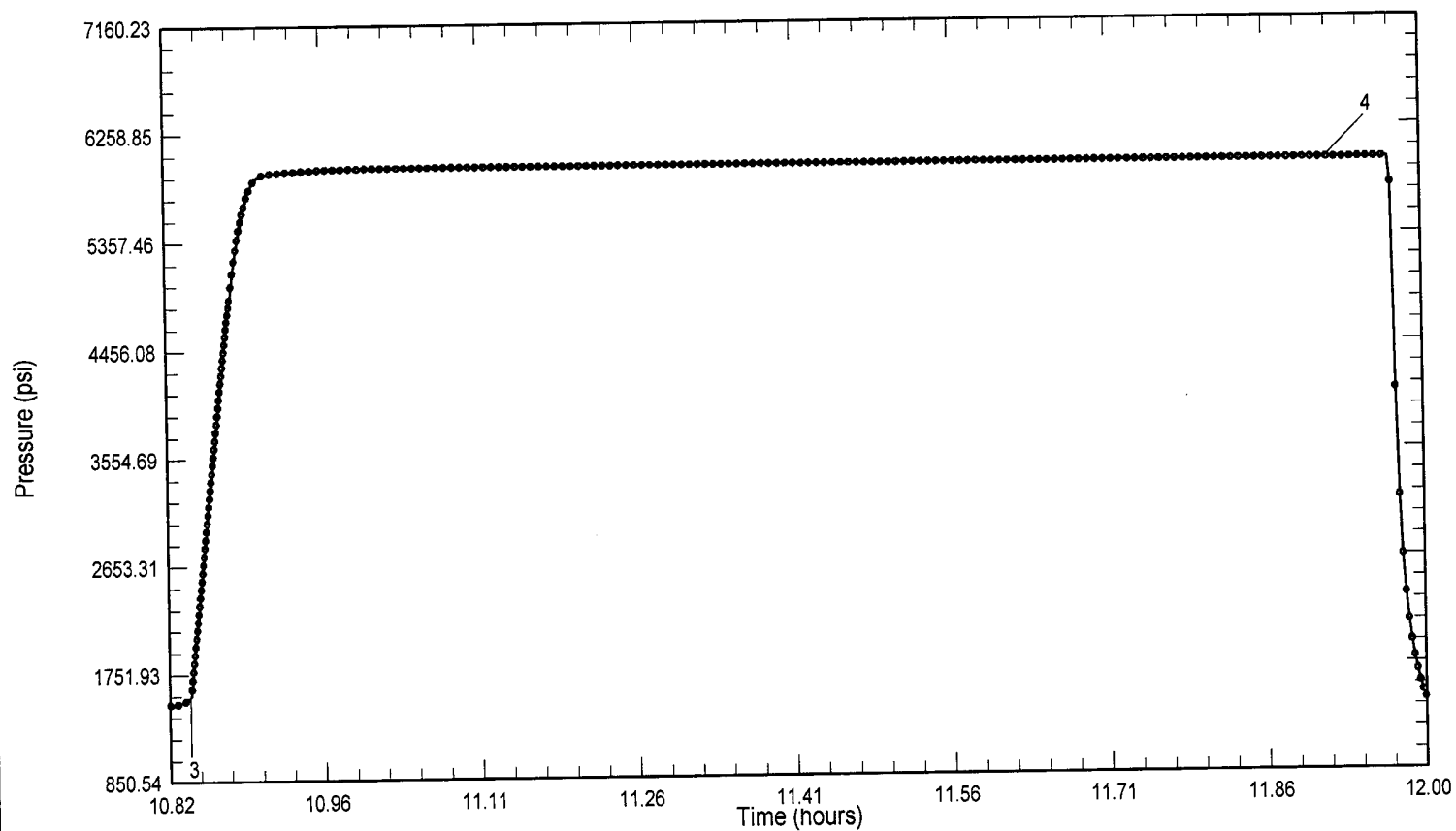
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Initial Shut-in



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

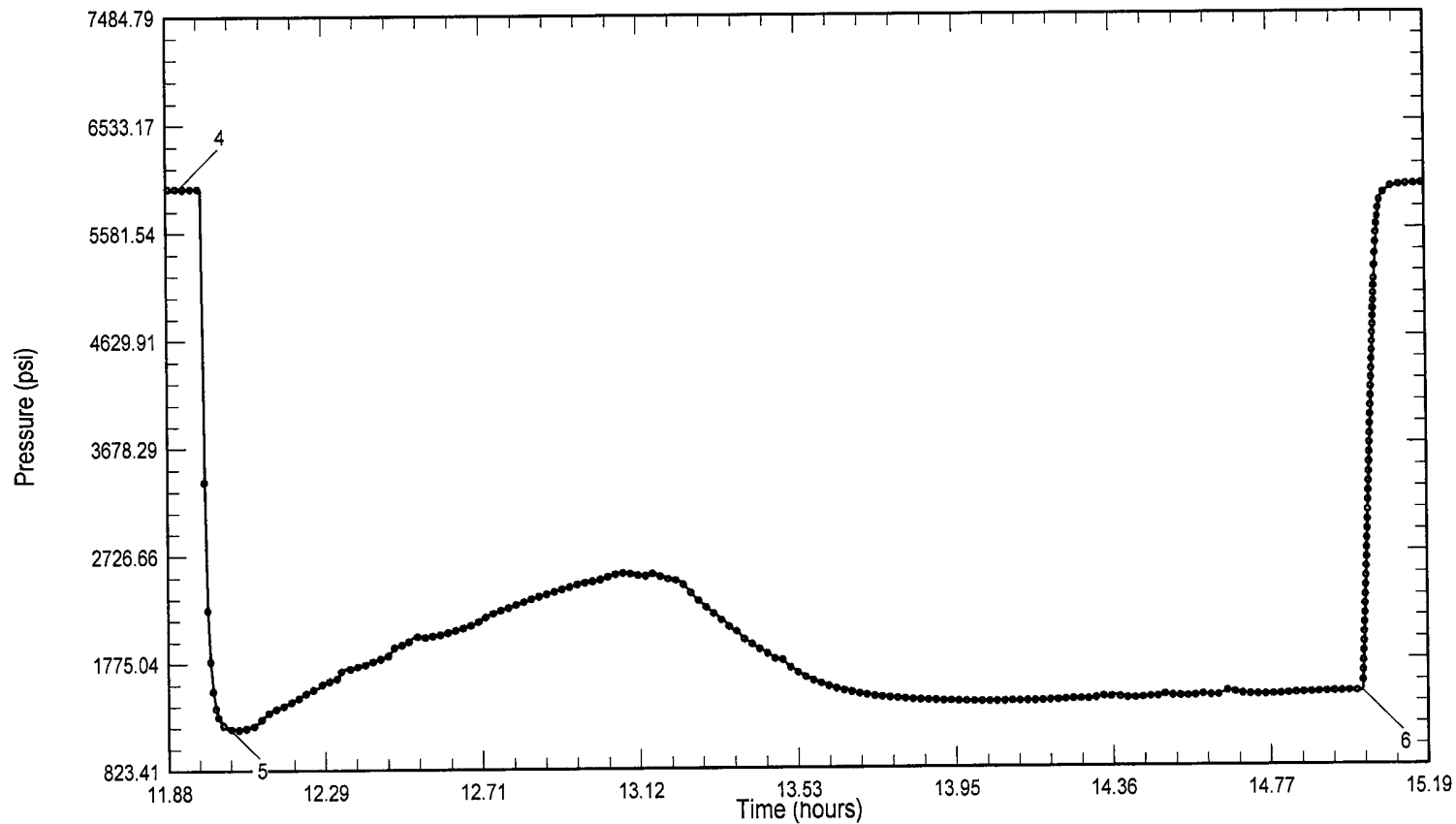
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Second Flow



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

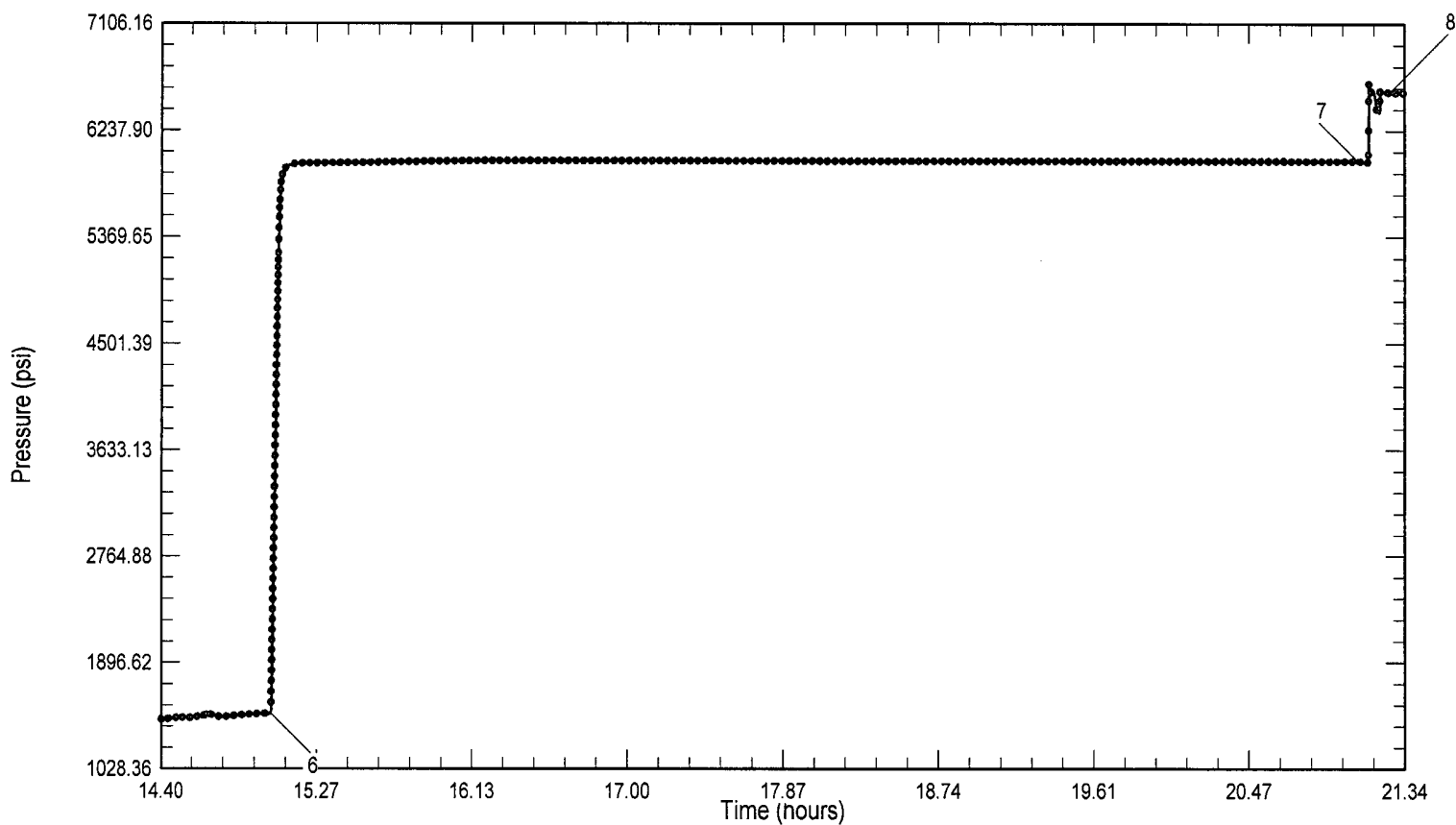
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Second Shut-in



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

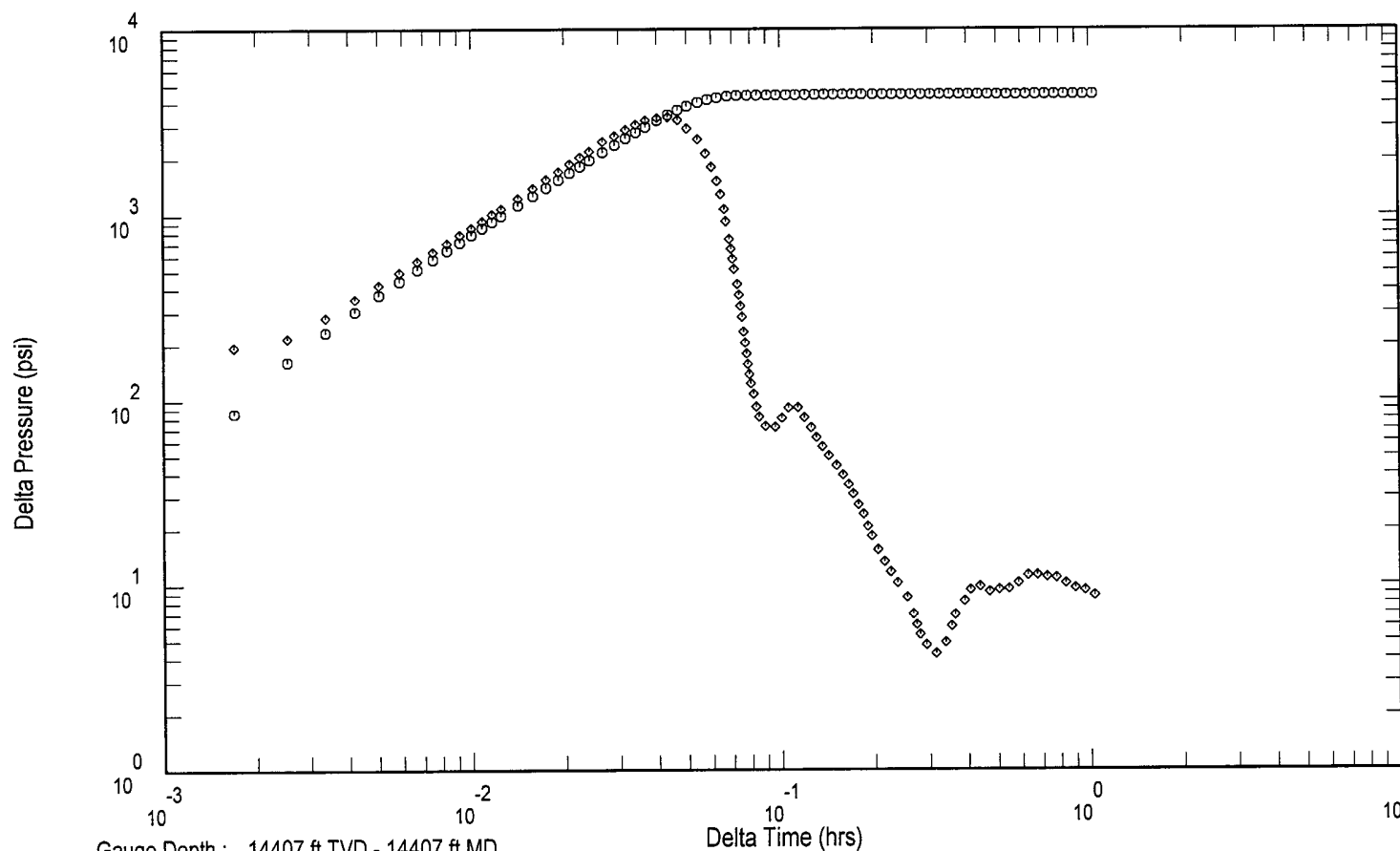
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Log-log Plot - Initial Shutin Period



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

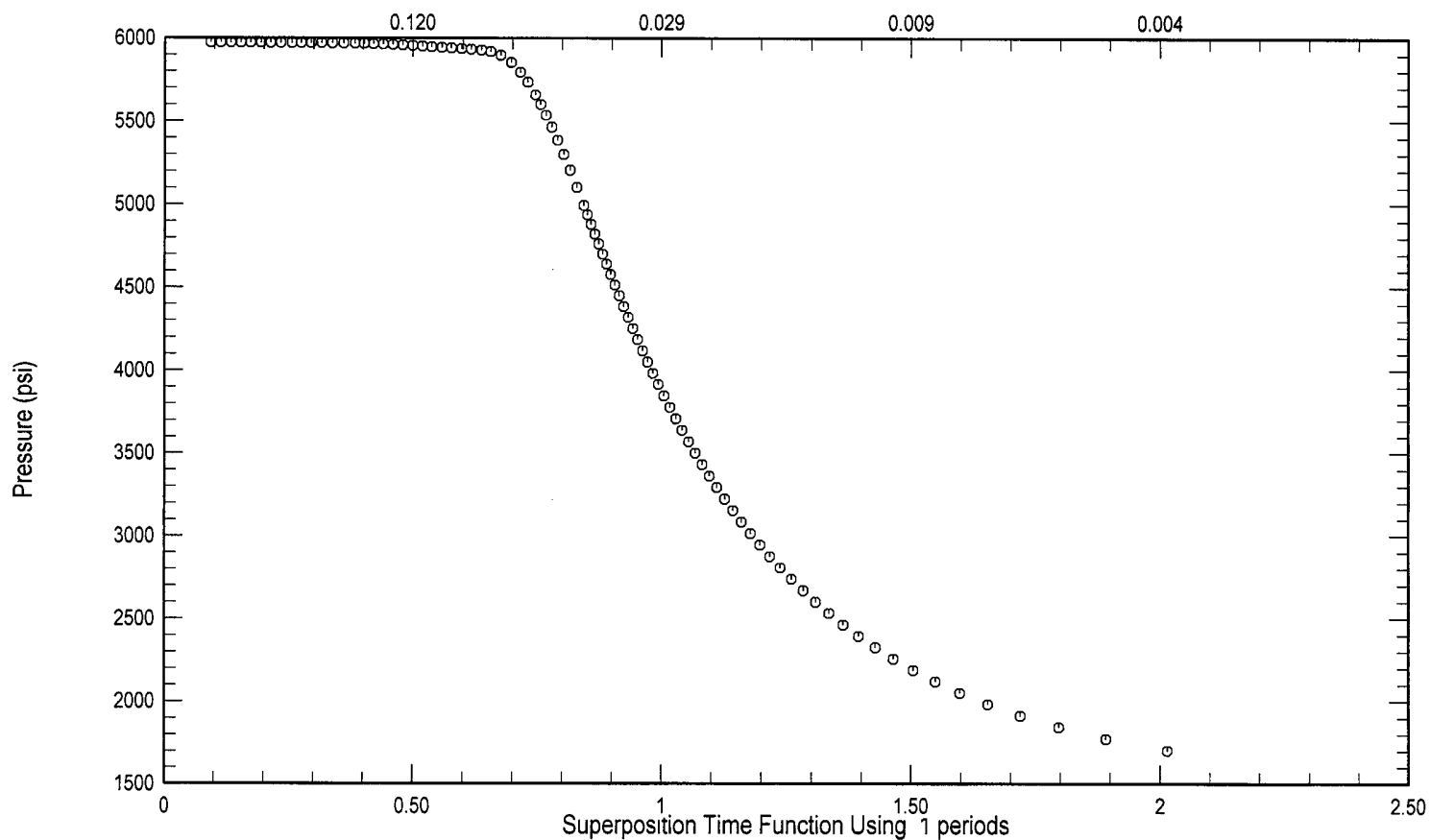
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Semi-log Plot - Initial Shutin Period



Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

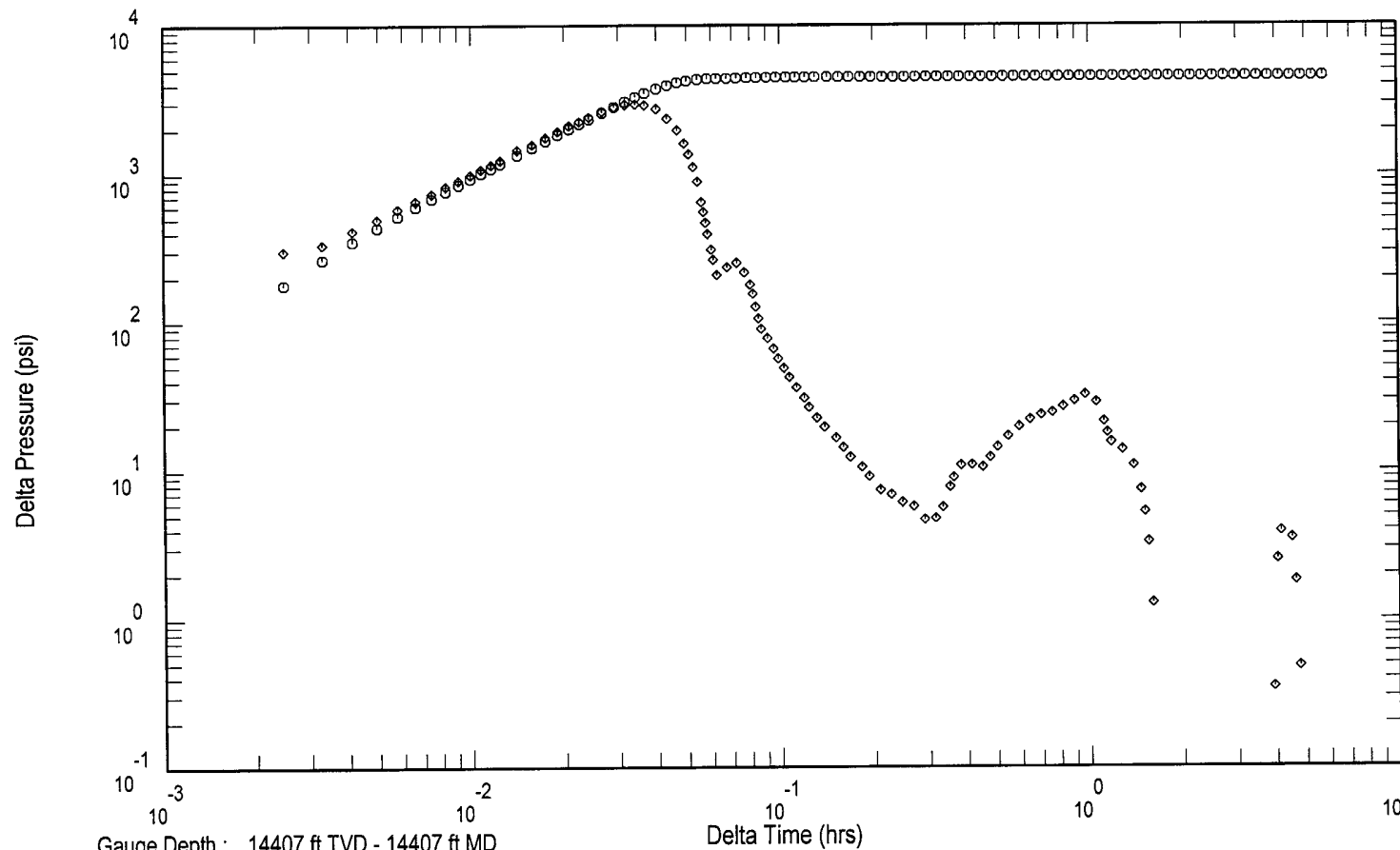
Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

Log-log Plot - Second Shutin Period



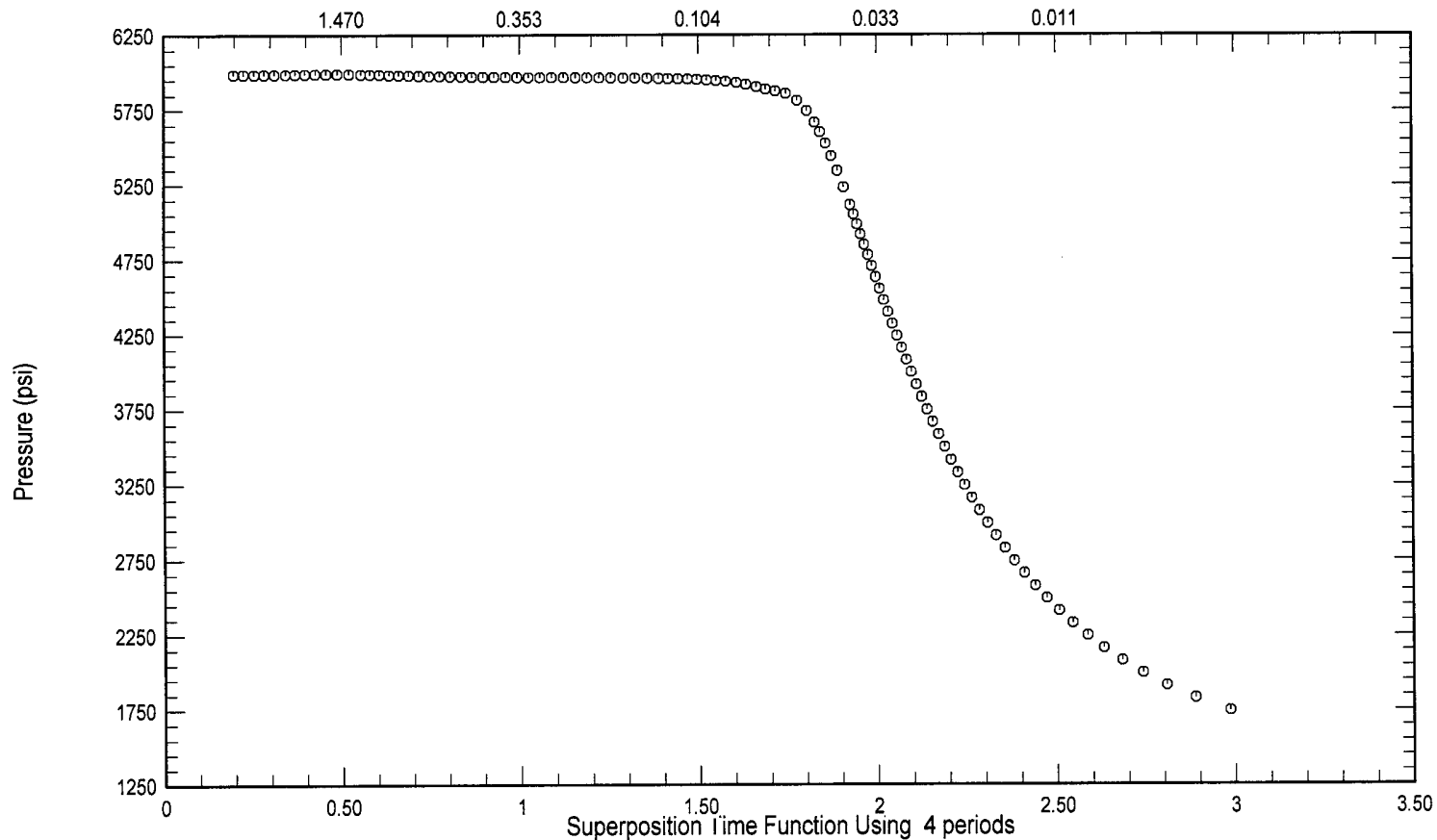
Gauge Depth : 14407 ft TVD - 14407 ft MD

Gauge ID : SLSR-704

Rio Blanco 33 Fed. 2
 Wildcat

10815202
 23-Jul-04

Semi-log Plot - Second Shutin Period



Gauge Depth : 14407 ft TVD - 14407 ft MD
 Gauge ID : SLSR-704

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Label Point Data
Devon Energy
Cased Hole/Ultra-Slim DST

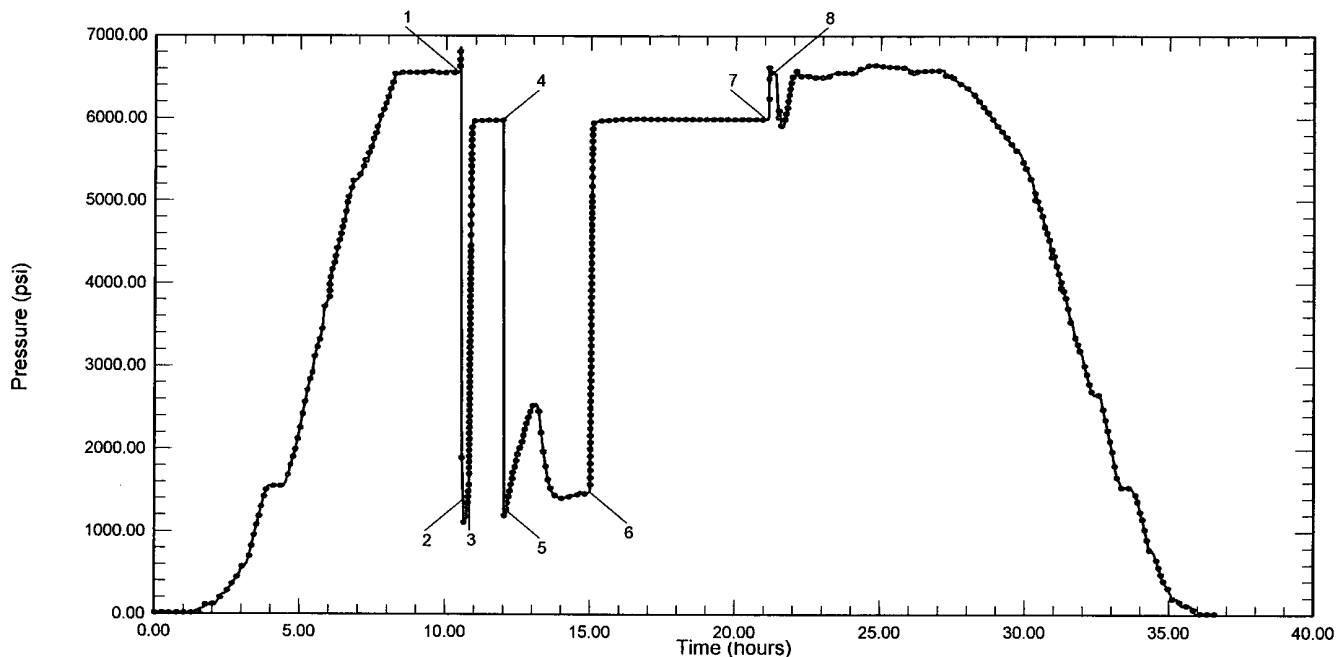
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Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04



Label Point / Comments	Date (dd-mmm-yy)	Time (hh:mm:ss)	Gauge ET (hours)	BHP (psia)	Rate (MCF/D)
Label Point Summary					
1) Hydrostatic Pressure	23-Jul-04	18:12:54	10.465	6551.26	0
2) Start Flow	23-Jul-04	18:19:36	10.577	1378.21	1
3) End Flow & Start Shut-in	23-Jul-04	18:35:09	10.836	1538.74	0
4) End Shut-in	23-Jul-04	19:39:51	11.914	5973.86	0
5) Start Flow	23-Jul-04	19:45:51	12.014	1288.53	1
6) End Flow & Start Shut-in	23-Jul-04	22:45:51	15.014	1477.99	0
7) End Shut-in	24-Jul-04	4:50:00	21.083	5986.31	0
8) Hydrostatic Pressure	24-Jul-04	5:00:21	21.256	6547.64	0

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Gauge Data
Devon Energy
Cased Hole/Ultra-Slim DST

CONFIDENTIAL**Rio Blanco 33 Fed. 2****Gauge Serial # SLSR-704****10815202****Wildcat****July 23, 2004**

Date (dd-mmm-yy)	Time (hh:mm:ss)	Elapsed Time (hrs)	BHP (psia)	BHT (Deg F)	Comments
Initial Flow					
23-Jul-04	18:19:36	10.57667	1378.206	204.04	
23-Jul-04	18:24:48	10.66333	1085.136	204.26	
23-Jul-04	18:30:00	10.75000	1236.079	204.39	
Initial Shut-in					
23-Jul-04	18:35:09	10.83583	1538.736	203.34	
23-Jul-04	18:47:39	11.04417	5968.826	214.32	
23-Jul-04	19:00:18	11.25500	5971.310	212.50	
23-Jul-04	19:13:15	11.47083	5972.663	210.40	
23-Jul-04	19:26:27	11.69083	5973.520	209.30	
Second Flow					
23-Jul-04	19:45:51	12.01417	1288.531	202.37	
23-Jul-04	20:21:51	12.61417	2035.706	184.73	
23-Jul-04	20:57:51	13.21417	2495.695	187.88	
23-Jul-04	21:33:54	13.81500	1433.395	179.74	
23-Jul-04	22:09:54	14.41500	1427.686	172.38	
Second Shut-in					
23-Jul-04	22:45:51	15.01417	1477.993	170.73	
23-Jul-04	22:45:54	15.01500	1506.009	170.73	
23-Jul-04	23:17:00	15.53333	5973.406	192.47	
23-Jul-04	23:49:09	16.06917	5987.443	193.41	
24-Jul-04	0:22:27	16.62417	5991.211	195.42	
24-Jul-04	0:56:54	17.19833	5990.079	197.19	
24-Jul-04	1:32:33	17.79250	5988.550	198.59	
24-Jul-04	2:09:24	18.40667	5987.639	199.72	
24-Jul-04	2:47:33	19.04250	5987.167	200.61	

Schlumberger**Devon Energy**
Cased Hole/Ultra-Slim DST**CONFIDENTIAL****Rio Blanco 33 Fed. 2****Gauge Serial # SLSR-704****10815202****Wildcat****23-Jul-04****Distribution List**

2 Steve Hulke Devon Energy 20 North Broadway Suite 1500 Oklahoma City OK 73102-8260	1 Alan Stubblefield Southwestern Energy 2350 N. Sam Houston Pkwy. East Suite 300 Houston TX 77032
2 Bill Greenlees Devon Energy 20 North Broadway Suite 1500 Oklahoma City OK 73102-8260	
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2 Matt Williams Southwestern Energy 2350 N. Sam Houston Pkwy. East Suite 300 Houston TX 77032	
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Rio Blanco 33 Fed. 2

10815202

Wildcat

23-Jul-04

