

Submit To Appropriate District Office State Lease - 6 copies Fee Lease - 5 copies District I 1625 N. French Dr., Hobbs, NM 88240 District II 1301 W. Grand Avenue, Artesia, NM 88210 District III 1000 Rio Brazos Rd., Aztec, NM 87410 District IV 1220 S. St. Francis Dr., Santa Fe, NM 87505		State of New Mexico Energy, Minerals and Natural Resources Oil Conservation Division 1220 South St. Francis Dr. Santa Fe, NM 87505		Form C-105 Revised June 10, 2003 WELL API NO. 30-015-33789 5. Indicate Type of Lease STATE ☒ FEE ☐ State Oil & Gas Lease No.VA-2115,VA-2116	
WELL COMPLETION OR RECOMPLETION REPORT AND LOG					
1a. Type of Well: OIL WELL ☐ GAS WELL ☒ DRY ☐ OTHER ☐ b. Type of Completion: NEW ☒ WORK ☐ DEEPEN ☐ PLUG ☐ DIFF. WELL OVER BACK RESVR. ☐ OTHER ☐			7. Lease Name or Unit Agreement Name State "16-4"		
2. Name of Operator Clayton Williams Energy, Inc. 25706			8. Well No. 1		RECEIVED JUN 17 2005 QDD-ARTESIA
3. Address of Operator Six Desta Drive, Ste. 3000, Midland, TX 79705			9. Pool name or Wildcat Rocky Arroyo (Morrow Gas) 84160		
4. Well Location Unit Letter D 660 Feet From The north Line and 660 Feet From The west Line Section 16 Township 22S Range 22E NMPM Eddy County					
10. Date Spudded 1/18/05		11. Date T.D. Reached 2/14/05		12. Date Compl. (Ready to Prod.) 5/26/05	
13. Elevations (DF& RKB, RT, GR, etc.) 4351'		14. Elev. Casinghead 4369'			
15. Total Depth 9610'		16. Plug Back T.D. 9534'		17. If Multiple Compl. How Many Zones?	
18. Intervals Drilled By Patterson #510		Rotary Tools		Cable Tools	
19. Producing Interval(s), of this completion - Top, Bottom, Name 8918' - 8988' Morrow gas				20. Was Directional Survey Made No	
21. Type Electric and Other Logs Run Triple Combo/High Resolution Ind/GR/CBL/CCL				22. Was Well Cored No	
23. CASING RECORD (Report all strings set in well)					
CASING SIZE 8-5/8"		WEIGHT LB./FT. 24		DEPTH SET 1,742'	
HOLE SIZE 12-1/4"		CEMENTING RECORD 1330 sx.		AMOUNT PULLED -0-	
5-1/2" DV tool 17		5,506' 7-7/8"		1390 sx. -0-	
5-1/2" 17		9,610' 7-7/8"		1250 sx. -0-	
24. LINER RECORD					
SIZE TOP BOTTOM		SACKS CEMENT SCREEN		25. TUBING RECORD	
2-7/8" 8,840' 8,840'		SIZE DEPTH SET PACKER SET		2-7/8" 8,840' 8,840'	
26. Perforation record (interval, size, and number) 8918'-8930'; 8982'-8988', 3-1/8" gun, 72 holes				27. ACID, SHOT, FRACTURE, CEMENT, SQUEEZE, ETC.	
DEPTH INTERVAL 8918'-8988' 8918'-8988'		AMOUNT AND KIND MATERIAL USED 15,000 gals Mod 101 acid 14,914 gals Binary 70 quality foam with 42,000# Ultra-prop			
28. PRODUCTION					
Date First Production 5/26/05		Production Method (Flowing, gas lift, pumping - Size and type pump) flowing		Well Status (Prod. or Shut-in) Shut in, waiting on gas pipeline	
Date of Test 5/26/05		Hours Tested 24		Choke Size 14/64	
Prod'n For Test Period Oil - Bbl -0-		Gas - MCF 2100		Water - Bbl. -0-	
Gas - Oil Ratio NA		Flow Tubing Press. 2050		Casing Pressure 0	
Calculated 24-Hour Rate Oil - Bbl. Gas - MCF Water - Bbl.		Oil Gravity - API - (Corr.) NA			
29. Disposition of Gas (Sold, used for fuel, vented, etc.) vented during test				Test Witnessed By John Wilkinson	
30. List Attachments C-116, Notarized deviation report, electric logs, drill stem test Please note C-104 will be submitted when gas pipeline is connected.					
31. I hereby certify that the information shown on both sides of this form as true and complete to the best of my knowledge and belief					
Signature Betsy Luna		Printed Name Betsy Luna		Title Engineering Technician	
Date 06/14/2005					
E-mail Address					

INSTRUCTIONS

This form is to be filed with the appropriate District Office of the Division not later than 20 days after the completion of any newly-drilled or reopened well. It shall be accompanied by one copy of all electrical and radio-activity logs run on the well and a summary of all special tests conducted, including drill stem tests. All depths reported shall be measured depths. In the case of directionally drilled wells, true vertical depths shall also be reported. For multiple completions, items 25 through 29 shall be reported for each zone. The form is to be filed in quintuplicate except on state land, where six copies are required. See Rule 1105.

INDICATE FORMATION TOPS IN CONFORMANCE WITH GEOGRAPHICAL SECTION OF STATE

Southeastern New Mexico		Northwestern New Mexico	
T. Anhy	T. Canyon	T. Ojo Alamo	T. Penn. "B"
T. Salt	T. Strawn 7920'	T. Kirtland-Fruitland	T. Penn. "C"
B. Salt	T. Atoka 8460'	T. Pictured Cliffs	T. Penn. "D"
T. Yates	T. Miss 9405'	T. Cliff House	T. Leadville
T. 7 Rivers	T. Devonian	T. Menefee	T. Madison
T. Queen	T. Silurian	T. Point Lookout	T. Elbert
T. Grayburg	T. Montoya	T. Mancos	T. McCracken
T. San Andres	T. Simpson	T. Gallup	T. Ignacio Otzte
T. Glorieta 1550'	T. McKee	Base Greenhorn	T. Granite
T. Paddock	T. Ellenburger	T. Dakota	T.
T. Blinebry	T. Gr. Wash	T. Morrison	T.
T. Tubb	T. Delaware Sand	T. Todilto	T.
T. Drinkard	T. Bone Springs	T. Entrada	T.
T. Abo	T.	T. Wingate	T.
T. Wolfcamp 4980'	T.	T. Chinle	T.
T. Penn	T.	T. Permian	T.
T. Cisco (Bough C)	T.	T. Penn "A"	T.

OIL OR GAS SANDS OR ZONES

No. 1, from.....to.....
No. 2, from.....to.....
No. 3, from.....to.....
No. 4, from.....to.....

IMPORTANT WATER SANDS

include data on rate of water inflow and elevation to which water rose in hole.

o. 1, from.....to.....feet.....
o. 2, from.....to.....feet.....
o. 3, from.....to.....feet.....

LITHOLOGY RECORD (Attach additional sheet if necessary)

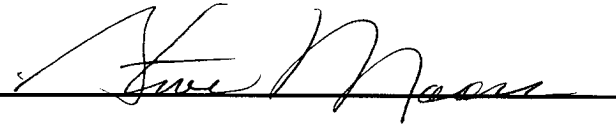
From	To	Thickness In Feet	Lithology

OPERATOR CLAYTON WILLIAMS ENERGY
WELL/LEASE STATE 16-4 #1
COUNTY EDDY, NM

510-5062

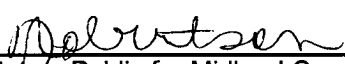
STATE OF NEW MEXICO
DEVIATION REPORT

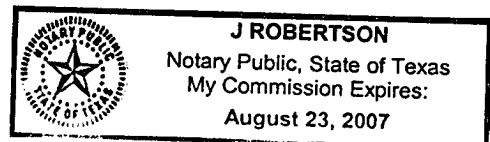
387	1 1/2
768	1/4
1,268	3/4
1,709	2 1/4
1,985	2
2,426	2 1/4
2,742	2
3,216	1 1/4
3,691	1 1/2
4,165	2
4,432	1 1/4
4,955	1 1/4
5,455	2 1/4
5,742	2 1/2
6,465	2 1/2
6,780	1 1/2
7,159	2
7,633	1/2
7,874	1
8,224	1 1/4
8,633	2 1/2
9,081	2 1/4
9,610	1 1/4

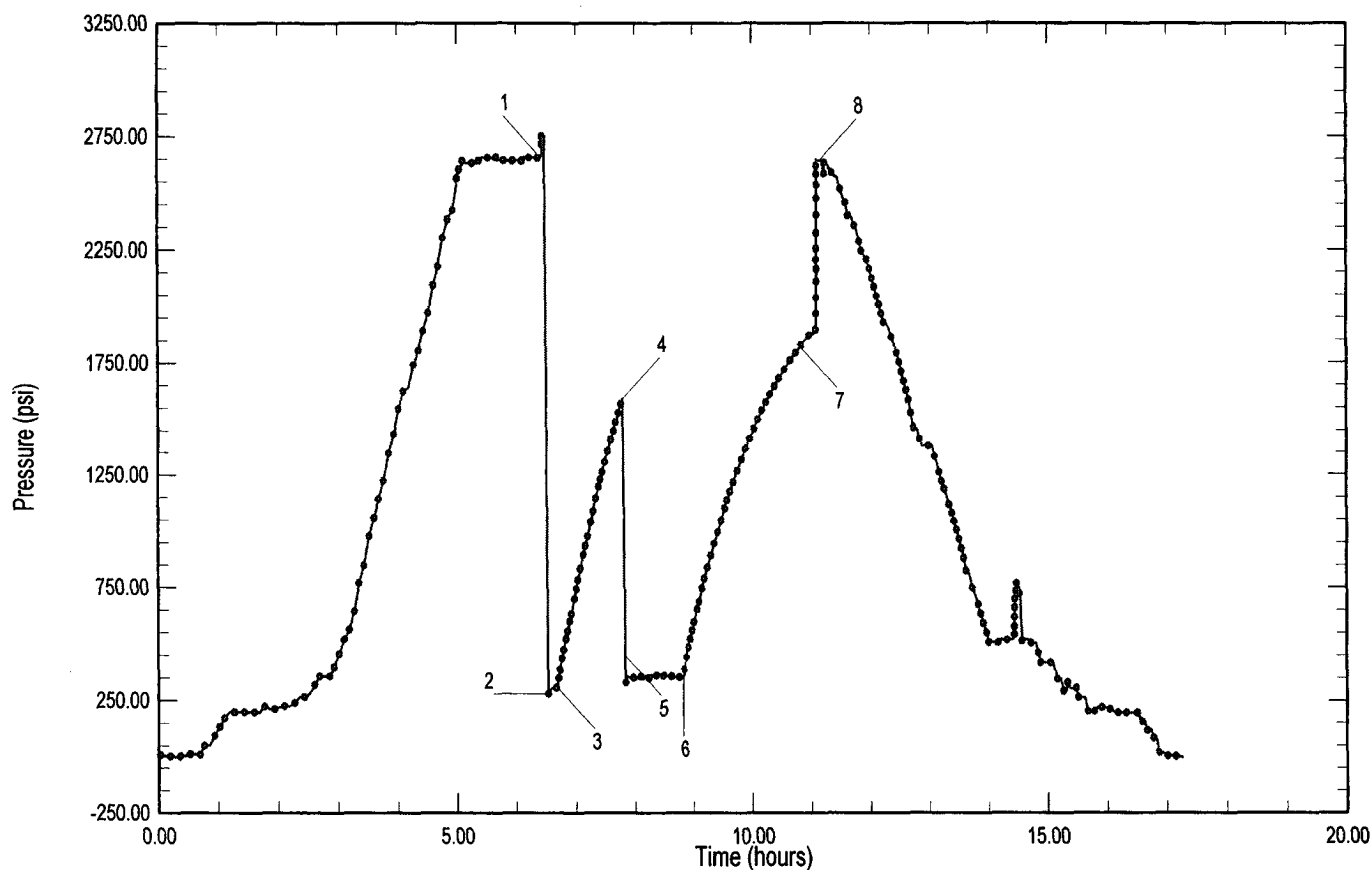
BY: 

STATE OF TEXAS
COUNTY OF MIDLAND

The foregoing instrument was acknowledged before me February 21, 2005, by Steve Moore on behalf of Patterson - UTI Drilling Company, LP, LLLP.


Notary Public for Midland County, Texas
My Commission Expires: 8/23/07



Clayton Williams Energy, Inc.**Openhole DST****State 16-4 - 1****Rocky Arrayo****Rig : Patterson 510****Eddy - 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
Clayton Williams Energy, Inc.
Openhole DST

State 16-4 1
Rocky Arrayo

Service Order Number : 11001116
Test Date : 01-Feb-05

Company Rep Rodney Gordy	SWS Rep Kirk Beasley
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Test Information

Test Number One	Formation Wolfcamp
	Interval (MD ft) 5,600 - 6,076

Well Location

Well..... State 16-4 1	Rig..... Patterson 510
Field..... Rocky Arrayo	State Eddy - New Mexico

Wellbore Configuration

Total Depth (MD/TVD ft) 6,076/6,076	Cushion None
Casing / Liner ID (in) 8.625" - 32#	Wellbore Radius (ft) 7.875
Top of Liner (md- ft)	Mud Weight (lb/gal) 8.5
	Mud Type Fresh Water/Starch
	Mud: Chlorides/Resistivity 2200 PPM

Test String Configuration

Pipe Length (ft) / ID (in) 5115 / 3.83	Gauge Depth (MD) 6076
Pipe Length (ft) / ID (in)	Gauge Depth (TVD) 6076
Drill Collar Length (ft) / ID (in) 449 /2.25	Test Valve Type Multiflow Evaluator
Packer Depths (ft MD) 5594 / 5600	Test Valve Depth (ft) (MD) 5576

Key Information

Initial Hydrostatic Pressure 2658	Final Shut In Pressure 1821
Init. Hyd Grad & Density 0.437 psi/ft / 8.41 lb/gal	Final Shut In Grad & Density 0.300 psi/ft / 5.76 lb/gal
Final Hydrostatic Pressure 2642	Final Flowing Pressure 352
Final Hyd Grad & Density 0.435 psi/ft / 8.36 lb/gal	Final Flow Rate (MCF/D) 44
Bottom Hole Temp..... 116	Productivity Index (MCF/D / psi) 0.030

An openhole formation evaluation test was performed on the Wolfcamp formation. This well performance test was an on-bottom conventional that isolated 30' of pay between the lower packer @ 5,600' and TD @ 6,076'. There were no drillpipe leaks, the annulus remained constant, and the interval was completely isolated during both the flows and the shutins. The test was mechanically correct and conclusive. The surface valves remained closed during the in initial flow period and the bubble hose was used as the surface choke. The well was opened up on a 1/4" choke 30 minutes into the final flow period. Gas arrived at surface 36 minutes into the flow period. The final flow rate was 44 MCF/D. The test times were well suited for the reservoir's response. The recovery was 155' of mud. The plots exhibit the characteristics of a tight reservoir. Please direct any questions concerning this test to the Hobbs Testing District @ 505/393-4107. Thank you for choosing Schlumberger.

Schlumberger Crew

Kirk Beasley

Sample Chamber Data
Clayton Williams Energy, Inc.
Openhole DST

State 16-4 1

11001116

Rocky Arrayo

01-Feb-05

Sample Chamber Capacity (cc) 2500

Measured Fluid Recovery

		Temp (F)	Press (psia)
Oil (cc)	API Gravity	60	140.0
Water (cc)	Res. (ohms) ...	60	140.0
Mud (cc)	Res. (ohms) ...		
Total Liquid Recovery (cc)			
Water Chlorides.....			
Gas (ft3) 1		60	140.0

Corrected Sample Chamber Gas Recovery

Bottomhole Temperature (F)	116	Assumed SC Gas Gravity	0.650
Final Flowing Pressure (psia)	352	Est Z Value @ Pwf and Tres	0.954
Corrected Gas Recovery (scf)	2.000		

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>bbf</u>	<u>Oil Density</u> <u>API</u>	<u>RES</u> <u>ohm</u>	<u>CHL</u> <u>ppm</u>
Mud	155	2.25	0.76			2k

Schlumberger

Sequence of Events
Clayton Williams Energy, Inc.
Openhole DST

State 16-4 1

11001116

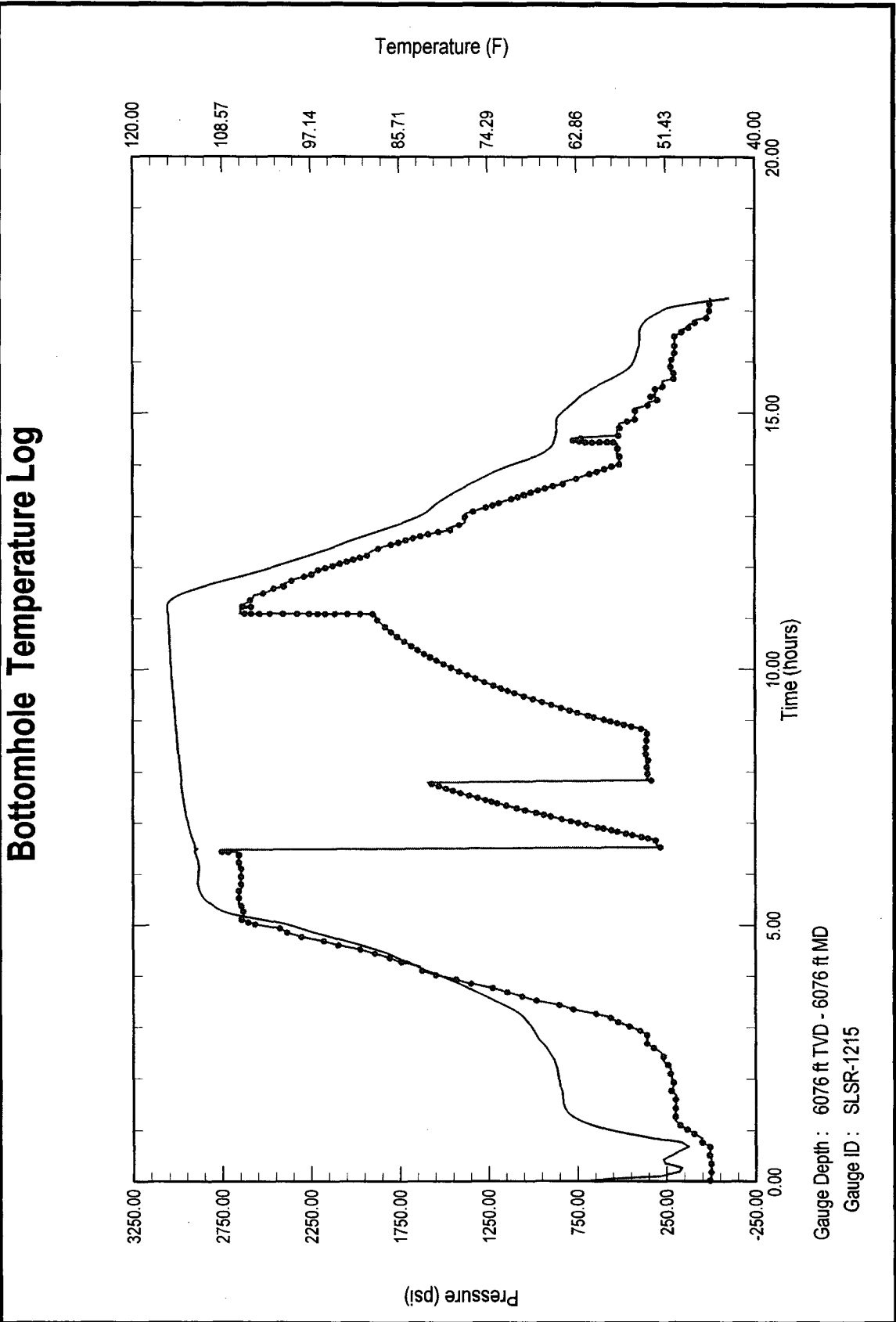
Rocky Arrayo

01-Feb-05

Date (dd-mm-yy)	Time (hh:mm:ss)	Comments
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1-Feb-05

8:00	Safety Meeting
8:17	Set Packer
	Open To Bubble Hose Only
8:21	Start Flow
8:22	2' Bubble Bucket Blow
8:26	4" Blow
8:29	Bottom Of The Bucket
8:31	End Flow & Start Shut-in, With 17 Ounces
9:34	End Shut-in
9:39	Start Flow, Bottom Of The Bucket Blow
9:40	20 PSI
9:44	22#
9:49	23#
9:54	28#
10:09	Open To Pit On 1/4" Choke With 32 PSI
10:15	Gas To Surface - 28# And A 8' Flare
10:24	24 PSI
10:39	End Flow & Start Shut-in @ 18# And 44 MCF/D
12:44	End Shut-in
12:59	Pulled Loose



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Data Plots

Clayton Williams Energy, Inc.

Openhole DST

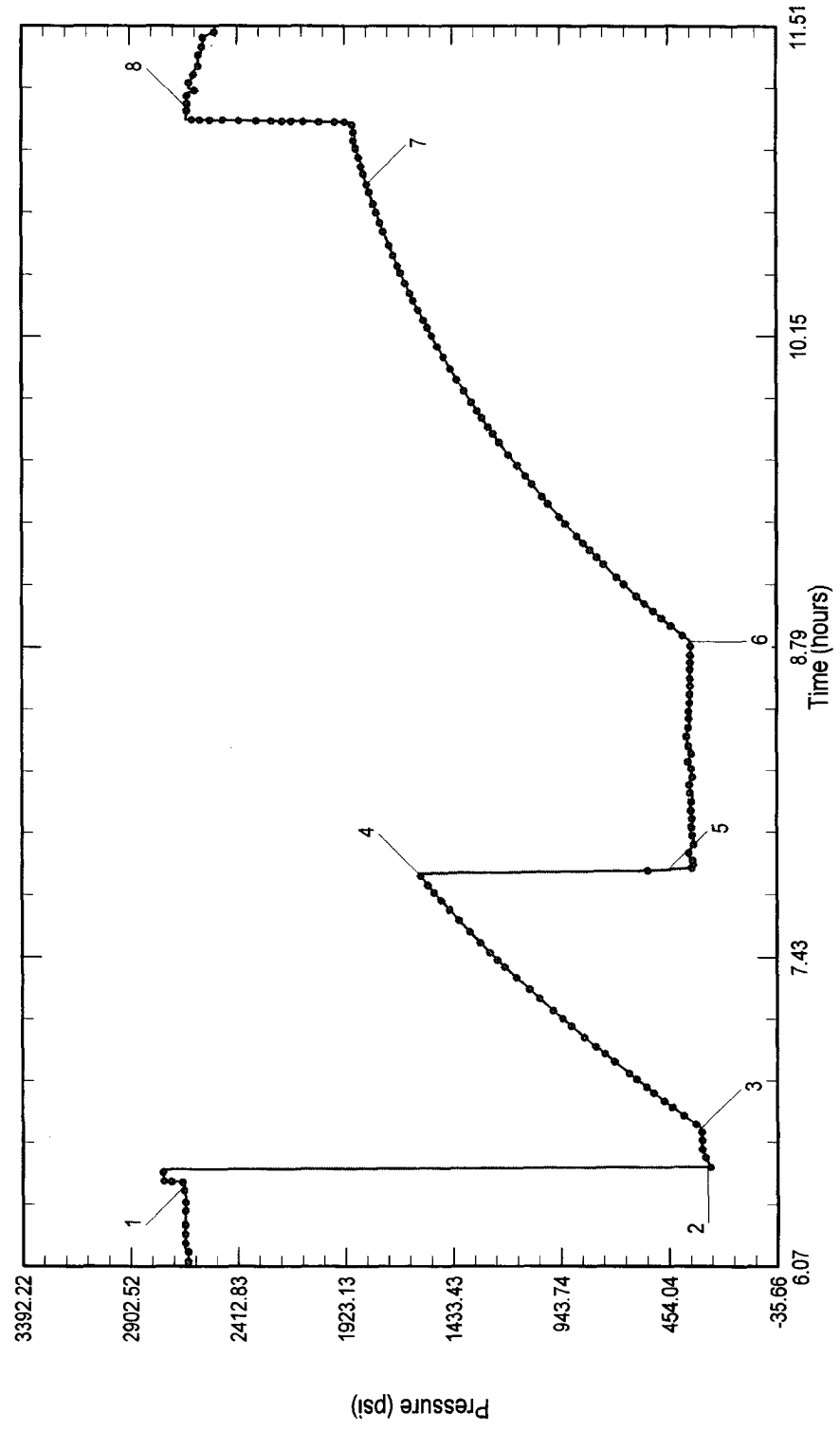
State 16-4 1

Rocky Arrayo

11001116

01-Feb-05

Bottomhole Chart



Gauge Depth : 6076 ft TVD - 6076 ft MD

Gauge ID : SLSR-1215

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Quicklook Plots

Clayton Williams Energy, Inc.

Openhole DST

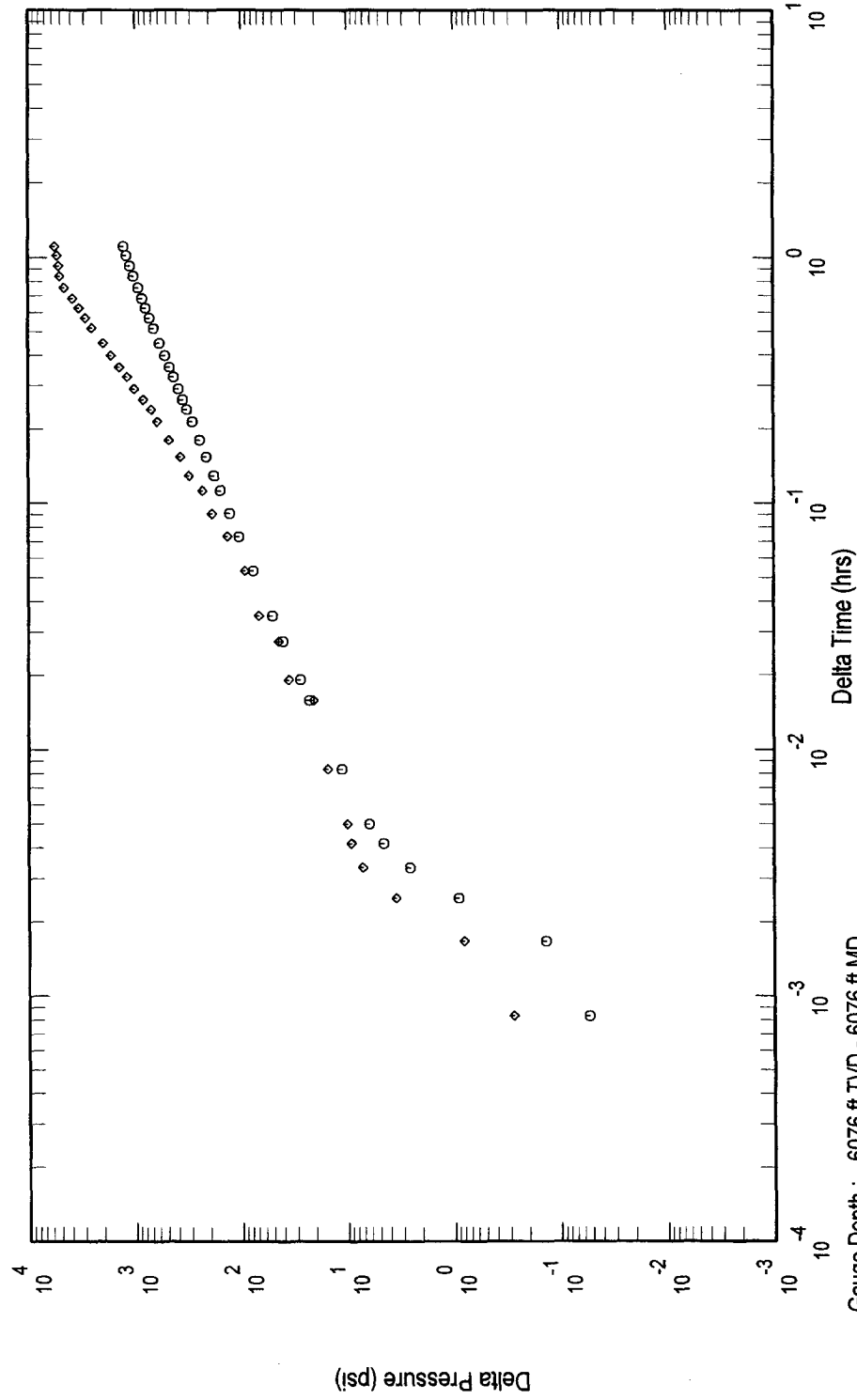
State 16-4 1

Rocky Arrayo

11001116

01-Feb-05

Log-log Plot - Initial Shutin Period



Gauge Depth : 6076 ft TVD - 6076 ft MD

Gauge ID : SLR-1215

Schlumberger

Quicklook Plots

Clayton Williams Energy, Inc.

Openhole DST

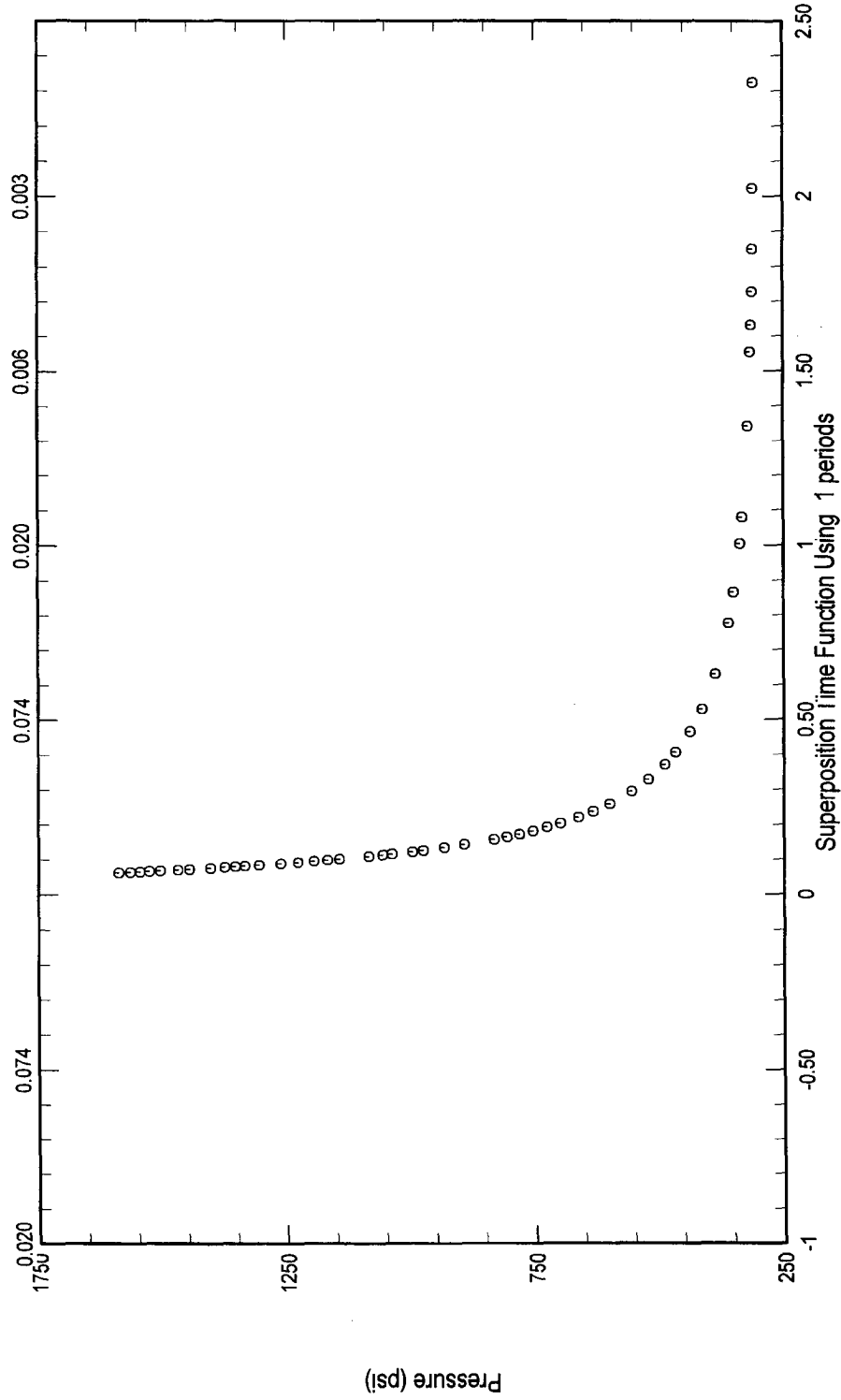
State 16-4 1

Rocky Arrayo

11001116

01-Feb-05

Semi-log Plot - Initial Shutin Period



Gauge Depth : 6076 ft TVD - 6076 ft MD

Gauge ID : SLSR-1215

Quicklook Plots

Schlumberger

Clayton Williams Energy, Inc.

Openhole DST

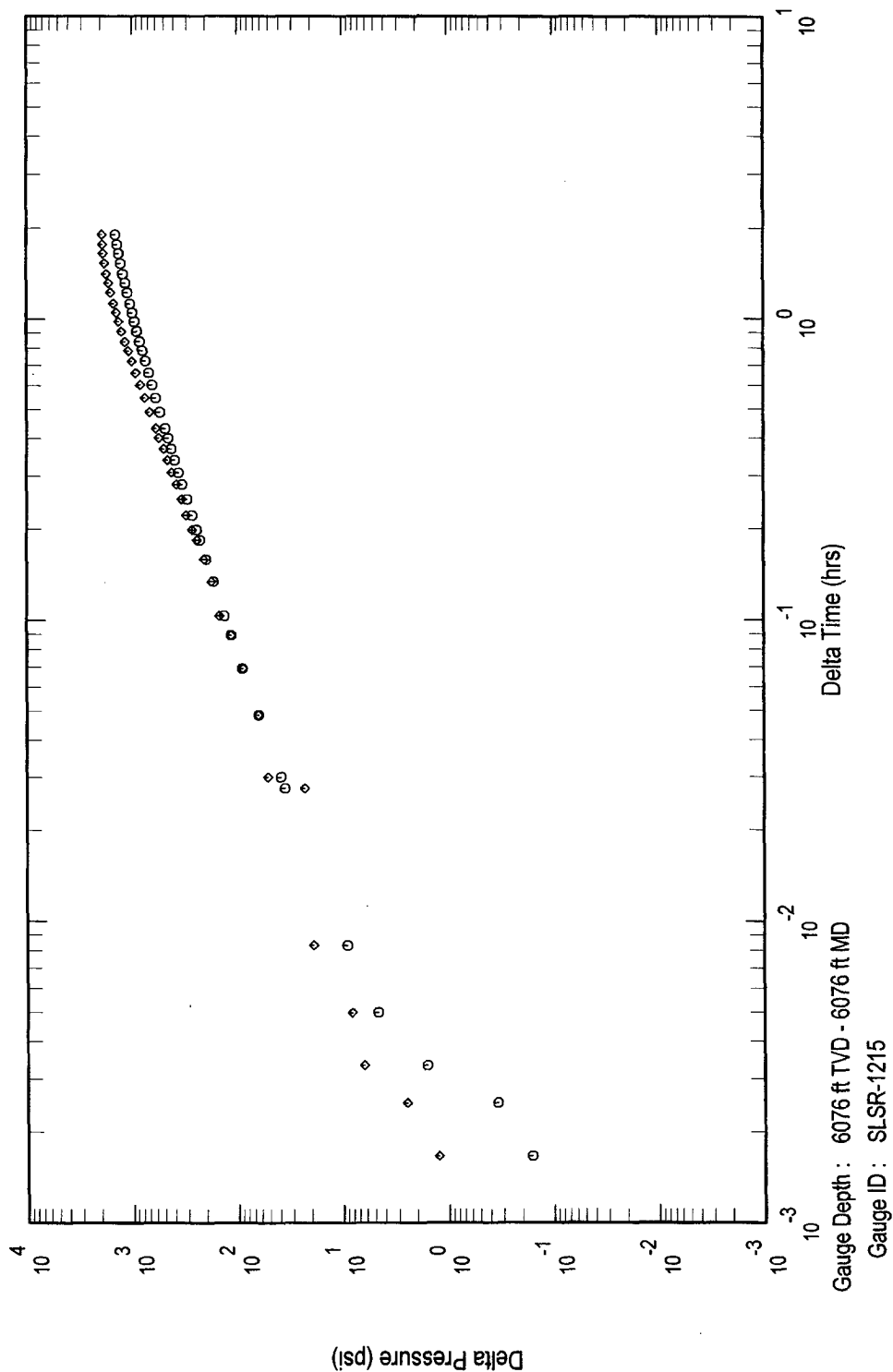
State 16-41

Rocky Arrayo

11001116

01-Feb-05

Log-log Plot - Second Shutin Period



Schlumberger

Quicklook Plots
Clayton Williams Energy, Inc.
Openhole DST

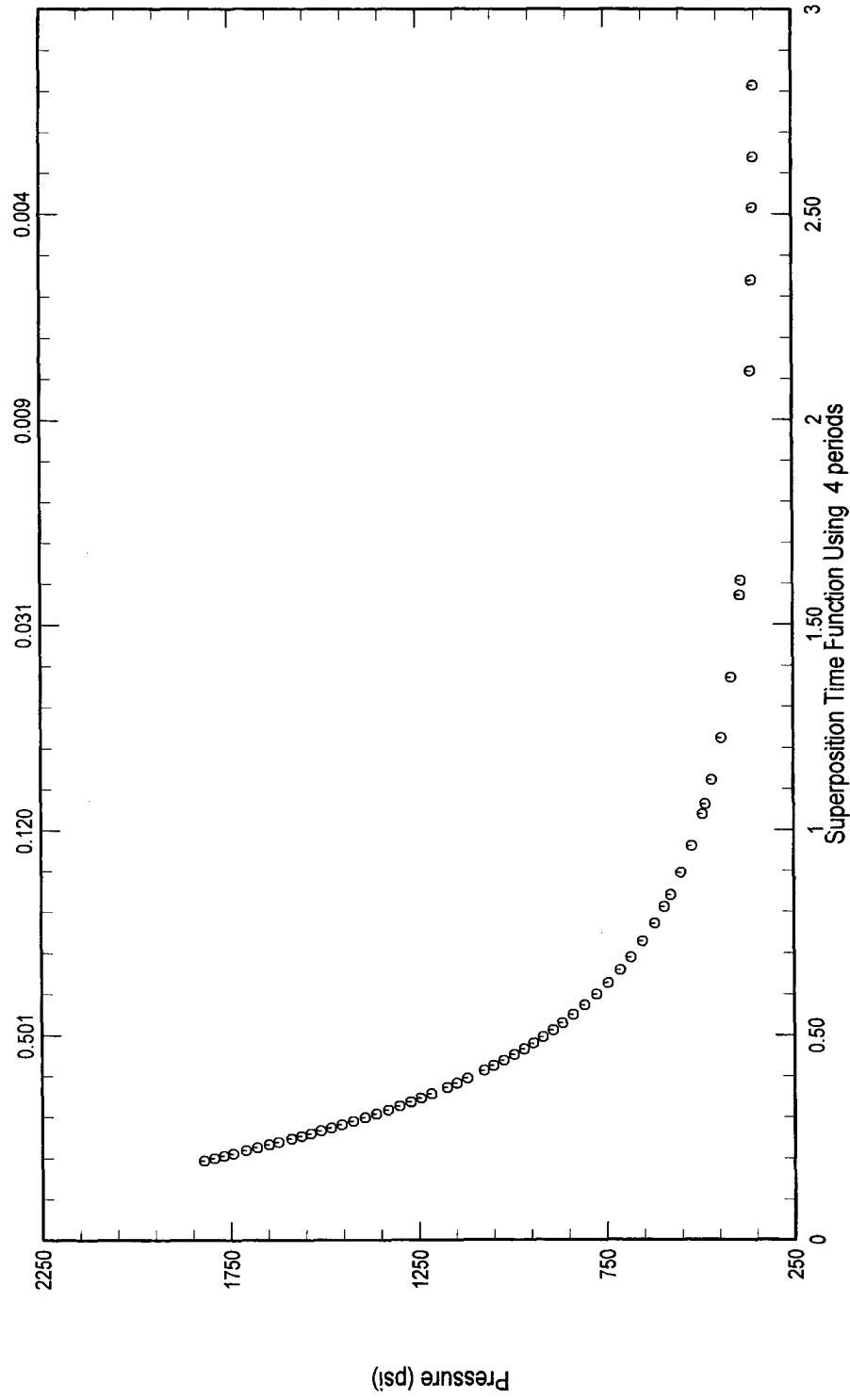
State 16-4 1

Rocky Arrayo

11001116

01-Feb-05

Semi-log Plot - Second Shutin Period



Gauge Depth : 6076 ft TVD - 6076 ft MD

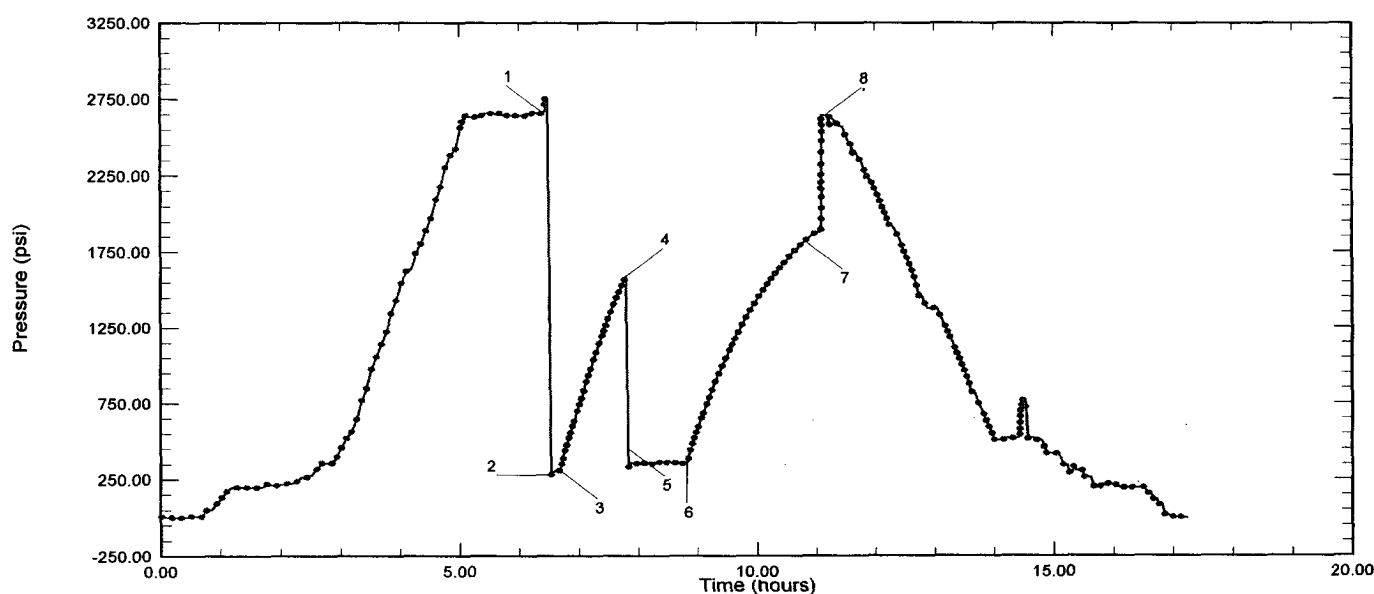
Gauge ID : SLSR-1215

Schlumberger

Label Point Data
Clayton Williams Energy, Inc.
Openhole DST

State 16-4 1
Rocky Arrayo

11001116
01-Feb-05



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	01-Feb-05	8:22:12	6.420	2657.67	0
2) Start Flow	01-Feb-05	8:27:12	6.503	280.18	1
3) End Flow & Start Shut-in	01-Feb-05	8:37:39	6.678	309.49	0
4) End Shut-in	01-Feb-05	9:44:39	7.794	1589.17	0
5) Start Flow	01-Feb-05	9:45:30	7.808	456.96	1
6) End Flow & Start Shut-in	01-Feb-05	10:45:45	8.813	352.19	0
7) End Shut-in	01-Feb-05	12:45:57	10.816	1820.83	0
8) Hydrostatic Pressure	01-Feb-05	13:06:03	11.151	2642.12	0

Schlumberger

Gauge Data
Clayton Williams Energy, Inc.
Openhole DST

State 16-4 1

Gauge Serial # SLSR-1215

11001116

Rocky Arrayo

February 1, 2005

Date (dd-mmm-yy)	Time (hh:mm:ss)	Elapsed Time (hrs)	BHP (psia)	BHT (Deg F)	Comments
Initial Flow					
01-Feb-05	8:27:12	6.50333	280.183	111.74	
01-Feb-05	8:30:51	6.56417	296.756	112.05	
01-Feb-05	8:34:24	6.62333	304.993	112.21	
Initial Shut-in					
01-Feb-05	8:37:39	6.67750	309.487	112.33	
01-Feb-05	8:37:42	6.67833	309.433	112.35	
01-Feb-05	8:50:30	6.89167	599.078	112.78	
01-Feb-05	9:04:33	7.12583	893.488	113.14	
01-Feb-05	9:17:24	7.34000	1144.154	113.40	
01-Feb-05	9:30:39	7.56083	1376.340	113.63	
Second Flow					
01-Feb-05	9:45:30	7.80833	456.955	113.77	
01-Feb-05	9:57:33	8.00917	345.306	113.92	
01-Feb-05	10:09:39	8.21083	354.175	114.06	
01-Feb-05	10:21:48	8.41333	369.783	114.19	
01-Feb-05	10:34:06	8.61833	355.893	114.31	
Second Shut-in					
01-Feb-05	10:45:45	8.81250	352.188	114.42	
01-Feb-05	10:45:51	8.81417	352.027	114.42	
01-Feb-05	10:56:48	8.99667	577.885	114.53	
01-Feb-05	11:07:54	9.18167	775.098	114.64	
01-Feb-05	11:20:06	9.38500	969.081	114.76	
01-Feb-05	11:30:57	9.56583	1123.736	114.85	
01-Feb-05	11:43:42	9.77833	1285.540	114.94	
01-Feb-05	11:55:00	9.96667	1412.711	115.03	
01-Feb-05	12:07:36	10.17667	1537.478	115.12	

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Clayton Williams Energy, Inc.

Openhole DST

State 16-4 1

Gauge Serial # SLSR-1215

11001116

Rocky Arrayo

01-Feb-05

Distribution List

2 John Kennedy
Clayton Williams Energy, Inc.
6 Desta Drive
Suite 3000
Midland TX 79705-5510

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
Clayton Williams Energy, Inc.

Openhole DST

State 16-4 1
Rocky Arrayo

11001116
01-Feb-05

