

UNITED STATES **OCD-ARTESIA**
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No 1004-0137
Expires July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use Form 3160-3 (APD) for such proposals.

5. Lease Serial No
NM-96835

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE – Other instructions on page 2.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator
THREE RIVERS OPERATING COMPANY, LLC

3a. Address
1122 S CAPITAL OF TX HWY, SUITE 325
AUSTIN, TX 78746

3b. Phone No (include area code)
512-706-9849

7. If Unit of CA/Agreement, Name and/or No

8. Well Name and No
LIGHTNING 24 FEDERAL COM #2

9. API Well No
30-015-33578

10. Field and Pool or Exploratory Area
SAGE DRAW; WOLFCAMP, EAST

4. Location of Well (Footage, Sec., T, R, M., or Survey Description)

SEC 24, T25S, R26E 1980' FSL & 1980' FEL

11. Country or Parish, State
EDDY COUNTY, NM

12. CHECK THE APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☒ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☒ Recomplete	☐ Other _____
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation: Clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleate horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports must be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleation in a new interval, a Form 3160-4 must be filed once testing has been completed. Final Abandonment Notices must be filed only after all requirements, including reclamation, have been completed and the operator has determined that the site is ready for final inspection.)

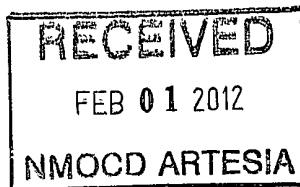
Accepted for record
NMOCD *TCS 2/7/2012*

The subject well is currently TA'd per BLM instructions.

Three Rivers Operating Company, LLC respectfully requests permission to recompleate the subject well in the Wolfcamp per the attached recommendation and procedure.

Thank you for your consideration.

**SEE ATTACHED FOR
CONDITIONS OF APPROVAL**



14. I hereby certify that the foregoing is true and correct Name (Printed/Typed)

TOM STRATTON

Title OPERATIONS ENGINEER

Signature

[Signature]

Date 10/06/2011

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved by

Title

Date

Conditions of approval, if any, are attached Approval of this notice does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon

Office

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

(Instructions on page 2)



OCTOBER 3, 2011

LIGHTNING 24 FED COM #2
API # 30-015-33578
SEC 24-25S-26E
SAGE DRAW EAST FIELD
EDDY CO NM

OBJECTIVE:

WELL IS CURRENTLY TA'D WITH CIBP SET AT 9800' W/ 35 SX CMT INSIDE 7"
RECOMPLETE WELL IN ~~BONE SPRING~~ INSIDE 7" 26# CASING SET AT 10,030'

Wolfcamp

WELLBORE: (2005)

20" @ 38'

9-5/8" 36# J55 @ 470' CMT'D W/ 250 SX; CMT CIRC

7" 26# N80 @ 10,030' W/ 362 SX; TOC @ SURFACE

4-1/2" 11/6" P110 @ 12,060' W/ 200 SX; TOC - 5884'

CIBP SET IN 4.5" @ 9800' W 35 SX CMT

WILL RUN N-GR-CCL-CBL FROM PBTD TO SURFACE (TURN OFF CBL AT TOC)

PROPOSED PERFS: (SELECTED INTERVALS)

WOLFCAMP:	9673 - 9773'
	9514 - 9614'
	9260 - 9390'
	8760 - 8960'
	8630 - 8700'

PROCEDURE:

PREPARE LOCATION, TEST ANCHORS, SET MATS, BOARDS AND RACKS

MIRU PULLING UNIT

RIG UP PUMP TRUCK; PRESSURE UP TO 7500# TO TEST CASING

ND TREE, NU 5K BOP

RIH W BIT & SCRAPER TO 9765' PBTD; CIRCULATE CLEAN WITH ACID/PARAFFIN/SCALE
REMOVER; PULL TBG & BIT OOH

RIG UP WIRELINE - GR-N-CCL-CBL FROM PBTD TO TOC (EST 5884' PER SAMSON)

PERF WOLFCAMP, SELECTED INTERVALS FROM:

9673-9773'; 9514-9614'; 9290-9390'; 8760-8960'; 88630-8700' (3 SPF - 120 DEG)

RIH WITH TBG & ARROW SET 1 PKR WITH 1 JT TAILPIPE TO 9773'

SPOT 1200 GALS 15% HCL

PULL UP & SET PKR @ 8550'; PRESSURE TEST BACKSIDE
BREAKDOWN PERFS AND PUMP ACID AWAY
SWAB TEST WELL FOR PRODUCTION AND FURTHER STIMULATION
STIMULATE WELL WITH 5000 GALS 15% WITH BALL SEALERS
SWAB BACK & RETURN TO PRODUCTION; IF NECESSARY,

~~WILL COMMINGLE WITH PERFS 9830-9935' & 10,668-718' BY DRILLING OUT 2 CIBPS~~

See COA

RESPECTFULLY,

TOM STRATTON
OPERATIONS MGR



TOM STRATTON
OPERATIONS ENGINEER

OK perfs @ 9830' → 9935'

only



Conditions of Approval

Lightning 24 Federal Com #2

30-015-33578

Three rivers Operating Company

January 18, 2012

NOI to add Wolfcamp Perforations

- 1. Surface disturbance beyond the originally approved pad must have prior approval.**
- 2. Closed loop system required.**
- 3. 3000 (3M) BOP at a minimum to be used. All blowout preventer (BOP) and related equipment (BOPE) shall comply with reasonable well control requirements. A two ram system with a blind ram and a pipe ram designed for the size of the work string shall be adequate. Tapered work strings will require an additional pipe ram. The manifold shall comply with Onshore Oil and Gas Order #2 Attachment I (3M Diagrams of Choke Manifold Equipment). The accumulator system shall have an immediately available power source to close the rams and retain 200 psi above pre-charge. The pre-charge test shall follow requirements in Onshore Order #2.**
- 4. Operator to have H2S monitoring equipment on location as H2S has been reported from wells in the area.**
- 5. Sundry approved to drill out CIBP at 9800' only and add perfs at 9830'-9935'**
- 6. Operator to submit a new NOI Sundry for approval to drill out existing CIBP at 10,638'.**
- 7. Subsequent sundry with well test and wellbore schematic required and completion report required**
- 8. Operator to begin plugging back procedures within 90 days of receiving this approval.**

EGF 011812

CURRENT

WELL NAME:		Lightning 24 Federal Com. #2		FIELD: Sage Draw East		LSE#: 037399	
STATE:		NM		COUNTY: Eddy		LOCATION: 1980' FSL & 1990' FEL of 24-25S-26E	
API NO:		30-015-33578		SPUD DATE: 2/27/2005		FORMATION: Wolfcamp	
TD:		12060'		PBTD: 12016'		ELEVATION: 3231' GL	

PIPE RECORD							CEMENT & HOLE DATA					
CSG	OD	GRADE	THD	WT/LF	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	WT.	TOC
Surf	9.625"	J55	LTC	36.00#	0'	470'	11	12.250"		260		Surf
Inter	7.000"	N90	LTC	25.00#	0'	10030'	237	3.750"		362		Surf
Prod	4.500"	HCP110	LTC	11.60#	0'	12060'	294	6.125"		200		5864
Tbg	2.375"	L80	EUE	4.70#	0'	N/A	305					

Remarks:

5/24/05 Acidz (11,873-11,834') with 90 gals 7.5% Claysafe H acid

5/27/05 Acidz (11,873-11,834') with 1000 gals Claysafe H Morrow and 70,000 cfm N2

6/17/05 New PBTD 11816' after CIBP w/24' cmt cap

6/23/05 Frac (11,483-11,720') with 75,500# 18/40 ultra prop 203 tons CO2 downhole

6/28/05 First Sales

2/22/2007: (Perfs 10668'-10718') Acidize Strawn w/4000 gls 15% NEFE Dropped 65 balls

3/6/2007: New PBTD @ 10535' After CIBP @ 10535'

3/7/2007: (Perfs 9830'-9935') Acidize Wolfcamp w/1500 gls 15% NEFE Dropped 22 balls

3/12/2007: Open well to sales

12/13/2010: Temporarily Abandon

CAPACITIES			(bbl/ft)	(ft/bbl)	(c/ft)
TBG:	2.375 in. 4.7#	.00327	258.65	0.2171	
CSG:	7 in. 26#	.03320	26.14	.21480	
CSG:	4.5 in. 11.6#	.01550	64.34	.08720	

VOLUME BETWEEN			(bbl/ft)	(ft/bbl)	(c/ft)
TBG:	CSG:	2.375x4.5			
TBG:	CSG:				
CSG:	HOLE:				
TBG:	HOLE:				
TBG:	HOLE:				

PERFORATION RECORD					
DATE	TOP	BTM	ZONE	STATUS	SPF
5/27/2005	11873'	11880'	Morrow	Abandoned	6
5/27/2005	11890'	11894'	Morrow	Abandoned	6
5/27/2005	11898'	11902'	Morrow	Abandoned	6
5/27/2005	11929'	11934'	Morrow	Abandoned	6
6/21/2005	11716'	11720'	Upr Mrw	Abandoned	4
6/21/2005	11645'	11649'	Upr Mrw	Abandoned	4
6/21/2005	11483'	11485'	Upr Mrw	Abandoned	4
2/21/2007	10710'	10718'	Strawn	Abandoned	2
2/21/2007	10684'	10686'	Strawn	Abandoned	2
2/21/2007	10668'	10680'	Strawn	Abandoned	2
3/6/2007	9830'	9935'	Wolfcamp	Abandoned	1

SRC WIP%:

LOGS: DLL/NGRD/GR/CAL (4/8/05)
DSN/NEU/GR/CAL (4/9/05)

LANDMAN: P. Kerr

GEOLOGIST: R. Worthington

TUBULAR GOODS PERFORMANCE					
	ID	Drift	Collapse*	Burst*	Tensile*
Material	(in)	(in)	(psi)	(psi)	(lbs)
9.625" J55 LTC 36#	6.921	3.765	2,020	3,520	453,000
7" N90 LTC 25#	6.276	6.151	5,410	7,240	519,000
4.5" HCP110 LTC 11.6#	4.000	3.375	8,650	10,690	279,000
2.375" L80 EUE 4.7#	1.995	1.901	15280	14970	135400

* Safety Factor Not Included

PREPARED BY: LeAnne Haskins
DATE: 6/2/2005
Updated: 8/10/2005 R. Burdill
10/26/2009 GLS

OFFICE: (918) 583-1791
FAX: (918) 581-1702

TD: 12050'

PROPOSED

20" @ 38"

8 625" @ 470'

TOC @ 5884'

CIBP @ 9800' w/ 35' cmt

9830'-9935' WC

7" @ 10030'

CIBP @ 10638' with 35' cmt

10668'-10680'

10684'-10686'

10710'-10718'

CIBP @ 11404' w/ 35' cmt on top

Arrowset plr @ 11,425' (top of plr @ 11420')
(top of plr @ 11420')

11483-89'

11645-49'

11716-20'

CIBP @ 11840' w/ 24' cmt on top

11873-80'

11890-94'

11898-902'

11829-34'

MJ @ 11384'

PBTD 12016'

FC @ 12016.53'

FS @ 12060'

4 5" @ 12060'

TD 12060'

WELL NAME: Lightning 24 Federal Com #2		FIELD Sage Draw East		LSE#: 037399	
STATE: NM		COUNTY: Eddy		LOCATION 1980' FSL & 1980' FEL of 24-25S-26E	
API NO: 30-015-33578		SPUD DATE: 2/27/2005		FORMATION: Wolfcamp	
TD: 12060'		PBTD 12016'		ELEVATION: 3231' GL	

PIPE RECORD								CEMENT & HOLE DATA				
CSG	OD	GRADE	THD	WT/FT	TOP	BTM	# JTS	BIT SIZE	DEPTH	SX	WT	TOC
Surf	9 625"	J55	LTC	36 00#	0'	470'	11	12 250"		260		Surf
Inter	7 000"	N80	LTC	26 00#	0'	10030'	237	8 750"		362		Surf
Prod	4.500"	HCP110	LTC	11 60#	0'	12060'	294	6 125"		200		5884
Tbg	2 375"	L80	EUE	4 70#	0'	N/A	305					

Remarks:

5/24/05 Acdz (11,873-11,934') with 90 gals 7.5% Claysafe H acid

5/27/05 Acdz (11,873-11,934') with 1000 gals Claysafe H Morrow and 70,000 cfm N2

6/17/05 New PBTD 11816' after CIBP w/24' cmt cap

6/23/05 Frac (11,483-11,720') with 75,500# 18/40 ultra prop 203 tons CO2 downhole

6/28/05 First Sales

2/22/2007: (Perfs 10668'-10718') Acidize Strawn w/4000 gls 15% NEFE. Dropped 66 balls

3/6/2007: New PBTD @ 10638' After CIBP @ 10638'

3/7/2007: (Perfs 9830'-9935') Acidize Wolfcamp w/1500 gls 15% NEFE. Dropped 22 balls

3/12/2007: Open well to sales

Temporarily Abandon

CAPACITIES			(bbl/ft)	(ft/bbl)	(cf/ft)
TBG	2 375 in. 4 7#	00387	258 65	02171	
CSG	7 in 26#	03820	26 14	21480	
CSG	4.5 in 11 6#	01550	64 34	08720	

VOLUME BETWEEN			(bbl/ft)	(ft/bbl)	(cf/ft)
TBGxCSG	2 375x4 5				
TBGxCSG					
CSGxHOLE					
TBGxHOLE					

PERFORATION RECORD					
DATE	TOP	BTM	ZONE	STATUS	SPF
5/27/2005	11873'	11880'	Morrow	Abandoned	6
5/27/2005	11890'	11894'	Morrow	Abandoned	6
5/27/2005	11898'	11902'	Morrow	Abandoned	6
5/27/2005	11929'	11934'	Morrow	Abandoned	6
6/21/2005	11716'	11720'	Upr Mrw	Abandoned	4
6/21/2005	11645'	11649'	Upr Mrw	Abandoned	4
6/21/2005	11483'	11489'	Upr Mrw	Abandoned	4
2/21/2007	10710'	10718'	Strawn	Abandoned	2
2/21/2007	10684'	10686'	Strawn	Abandoned	2
2/21/2007	10668'	10680'	Strawn	Abandoned	2
3/6/2007	9830'	9935'	Wolfcamp	Abandoned	1

SRC W%:

LOGS: DLLNGRD/GR/CAL (4/8/05)
DSN/NEU/GR/CAL (4/9/05)

LANDMAN: P Kerr	GEOLOGIST: R. Worthington
-----------------	---------------------------

TUBULAR GOODS PERFORMANCE					
Material	ID (in)	Drift (in)	Collapse* (psi)	Burst* (psi)	Tensile* (lbs)
9 625" J55 LTC 36#	8 921	8.765	2,020	3,520	453,000
7" N80 LTC 26#	6 276	6 151	5,410	7,240	519,000
4 5" HCP110 LTC 11 6#	4 000	3 875	8,650	10,690	279,000
2 375" L80 EUE 4 7#	1 995	1 901	15280	14970	135400

* Safety Factor Not Included

PREPARED BY: LeAnne Haskins

DATE: 6/2/2005

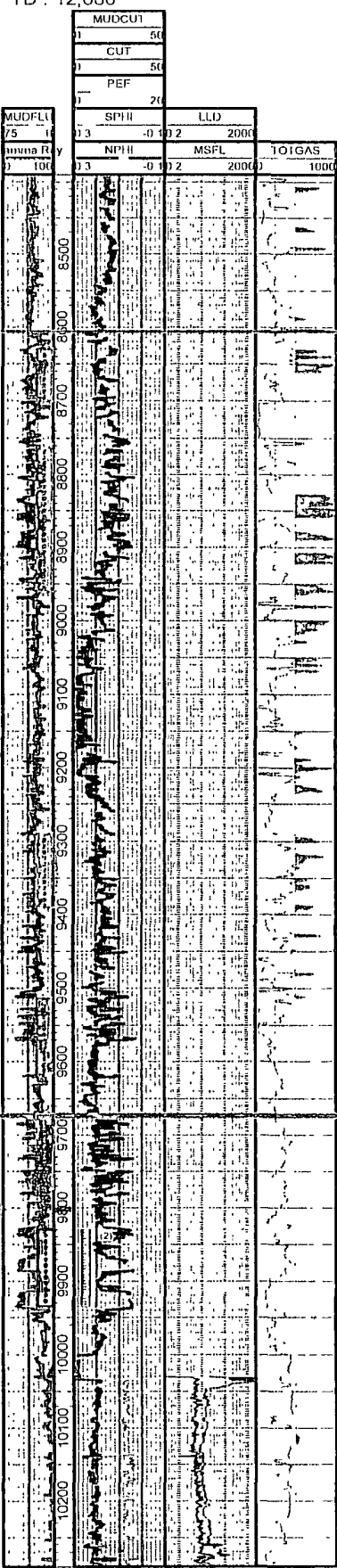
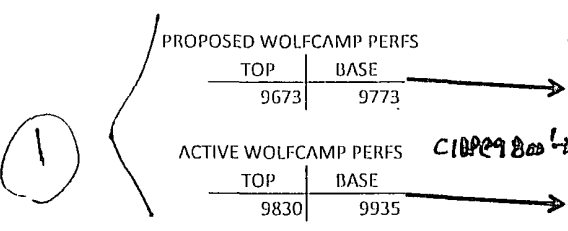
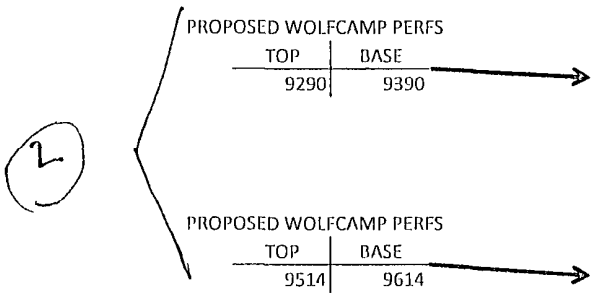
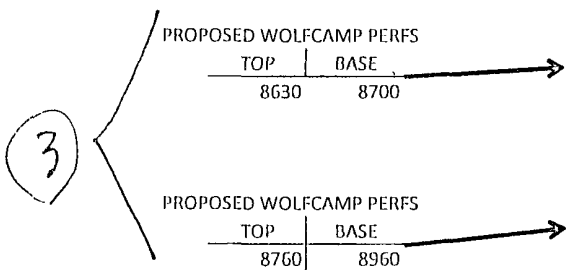
Updated: 8/10/2005 R Burditt

10/26/2009 GLS

OFFICE: (918) 583-1791

FAX: (918) 591-1702

T25S R26E S24
ELEV_KB . 3,257
TD . 12,060



LIGHTNING 24 FEDERAL COM

2
COMP DATE 7/2/2015
TIME 10:20
CUMUL 15
CUMUL 80,129
CUMUL 1718

HALLIBURTON

SPECTRAL DENSITY
DUAL SPACED NEUTRON

COMPANY SAMSON RESOURCES	
WELL LIGHTNING "24" FEDERAL COM No	
FIELD WHITE CITY - PENN	
COUNTY EDDY STATE NM	
COMPANY SAMSON RESOURCES	
WELL LIGHTNING "24" FEDERAL COM No. 2	
FIELD WHITE CITY - PENN	
COUNTY EDDY STATE NM	
API No. 30-015-33578 Location 1980' FSL AND 1980' FEL	
Other Services DLL/MGRD	
Sect 24 Twp 25S Rge 26E	
Permanent Datum GROUND LEVEL Elev 3231'	
Log measured from K.B. 26 ft. above perm. datum	
Drilling measured from KELLY BUSHING	
Date APR--06-2005	
Run No. ONE	
Depth - Driller 12060'	
Depth - Logger 12057'	
Bottom - Logged Interval 12050'	
Top - Logged Interval 200'	
Casing - Driller 7" @ 10030'	
Casing - Logger 10031'	
Bit Size 6 1/2"	
Type Fluid in Hole SALT GEL	
Dens Visc. 12.3 44	
Ph Fluid Loss 10 5.2	
Source of Sample MUD PIT	
Rm @ Meas. Temp 0 050 @ 64 F @ @ @	
Rmi @ Meas. Temp. 0 043 @ 64 F @ @ @	
Rmc @ Meas. Temp 0 062 @ 64 F @ @ @	
Source Rmi Rmc MEAS. MEAS.	
Rm @ BHT 0 019 @ 175 F @ @ @	
Time Since Circ 1900 04-06	
Time on Bottom 0230 04-07	
Max Rec Temp 175 F @ T.D. @ @ @	
Equip Location 388 HOBBS	
Recorded By C MERCADO	
Witnessed By MR. METCALF	

Fold Here

Version No: 5.7 | hc:3.0

Data File: 0407_0726_r2400.1.cls

Format File: plot_02_1.spc

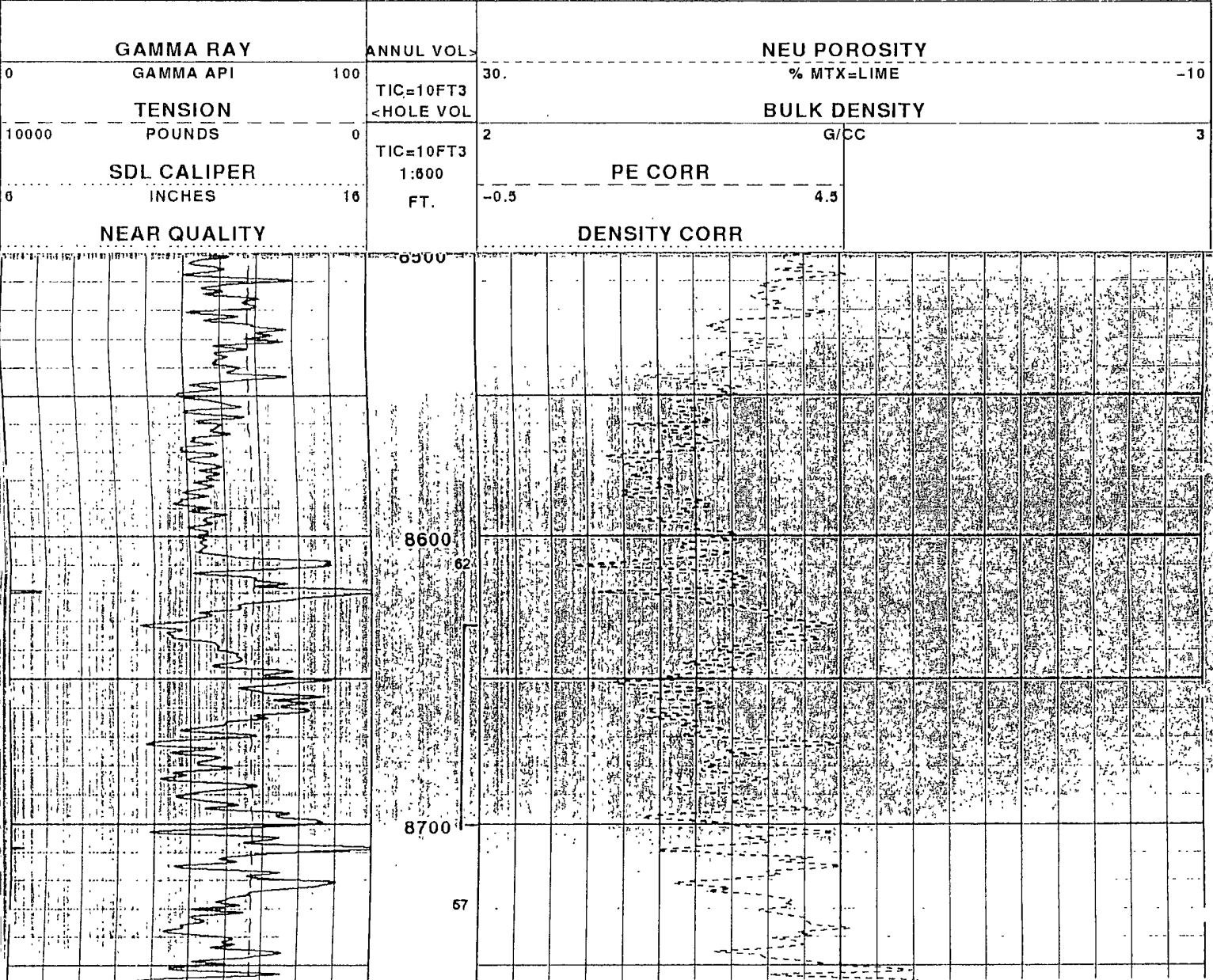
Plot Time: 2005-04-07 09:27:55

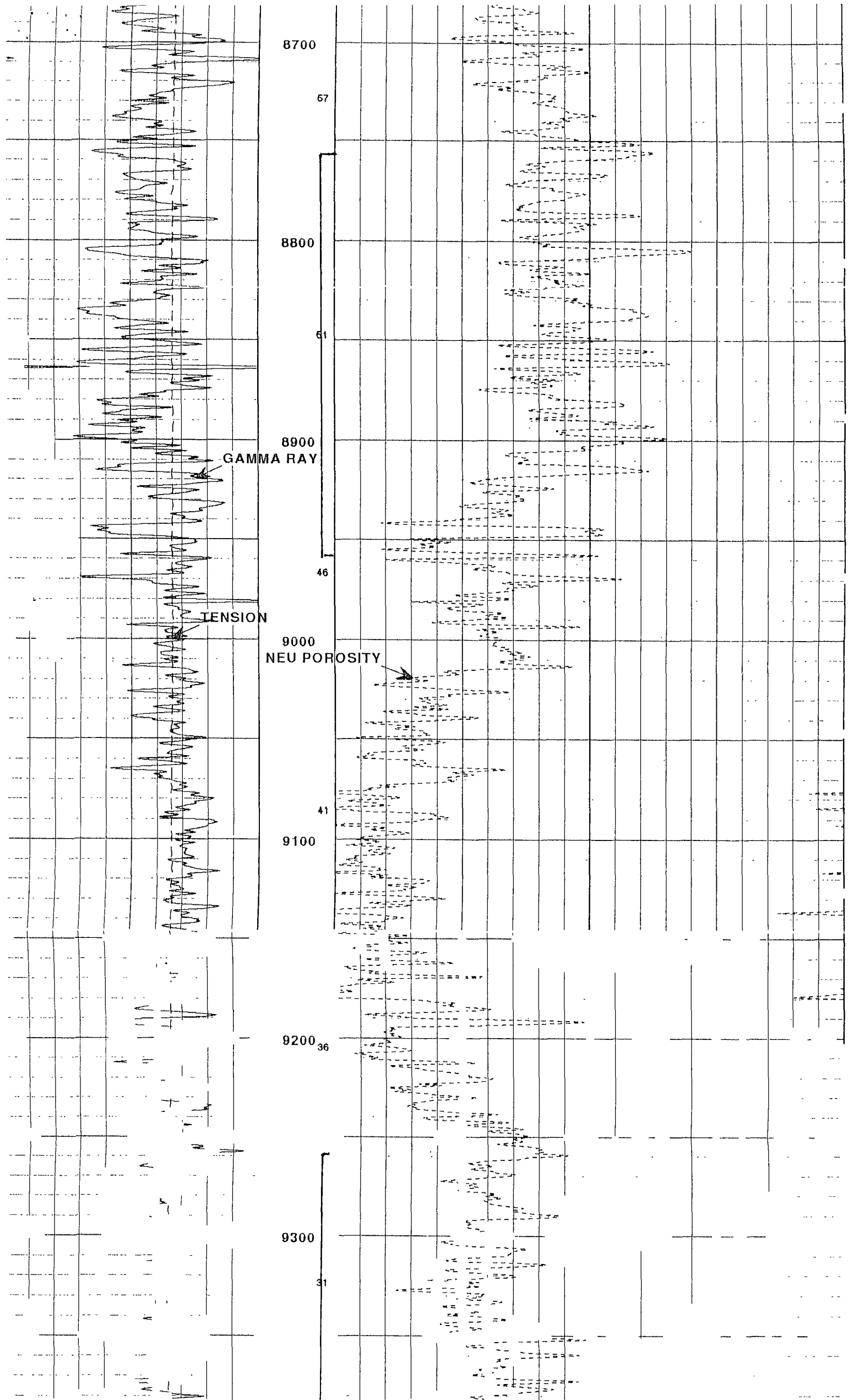
Log Time: 2005-04-07 06:11:10

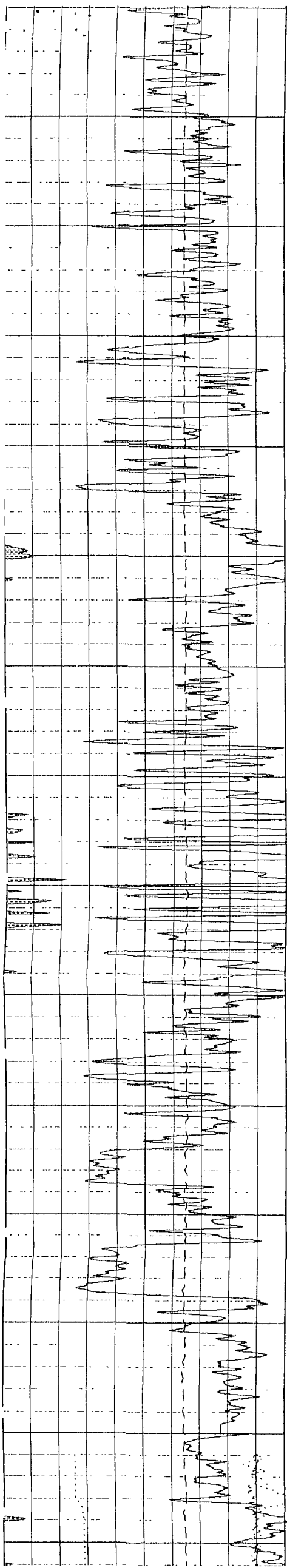
HALLIBURTON

Top Depth: 150.51

Bottom Depth: 12089.41







9400

25

9500

20

9600

5

9700

9800 10

9900

5

10000

CASING
277

