

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER Alba 1-21C4
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		3. FIELD OR WILDCAT ALTAMONT
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME
6. NAME OF OPERATOR EP ENERGY E&P COMPANY, L.P.		7. OPERATOR PHONE 713 997-5038
8. ADDRESS OF OPERATOR 1001 Louisiana, Houston, TX, 77002		9. OPERATOR E-MAIL maria.gomez@epenergy.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) Fee	11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>	12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input checked="" type="checkbox"/>
13. NAME OF SURFACE OWNER (if box 12 = 'fee') Roland Alba		14. SURFACE OWNER PHONE (if box 12 = 'fee') 801-244-9992
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee') 7391 South 700 East, Midvale, UT 84047		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')	18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input type="checkbox"/> (Submit Commingling Application) NO <input checked="" type="checkbox"/>	19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	684 FNL 1051 FEL	NENE	21	3.0 S	4.0 W	U
Top of Uppermost Producing Zone	684 FNL 1051 FEL	NENE	21	3.0 S	4.0 W	U
At Total Depth	684 FNL 1051 FEL	NENE	21	3.0 S	4.0 W	U

21. COUNTY DUCHESNE	22. DISTANCE TO NEAREST LEASE LINE (Feet) 84	23. NUMBER OF ACRES IN DRILLING UNIT 640
24. DISTANCE TO NEAREST WELL IN SAME POOL (Applicable For Drilling Not Completed) 4500	25. PROPOSED DEPTH MD: 11900 TVD: 11900	
27. ELEVATION - GROUND LEVEL 5900	28. BOND NUMBER 400JU0708	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Duchesne City Water

Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Cond	20	13.375	0 - 800	54.5	J-55 LT&C	9.0	Class G	1001	1.15	15.8
Surf	12.25	9.625	0 - 3220	40.0	N-80 LT&C	10.0	Premium Lite High Strength	425	3.16	11.0
							Premium Lite High Strength	191	1.33	14.2
I1	8.75	7	0 - 8950	29.0	P-110 LT&C	12.5	Premium Lite High Strength	373	2.31	12.0
							Premium Lite High Strength	92	1.91	12.5
L1	6.125	4.5	8750 - 11900	13.5	P-110 LT&C	12.5	50/50 Poz	258	1.45	14.6

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input checked="" type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Maria S. Gomez	TITLE Principle Regulatory Analyst	PHONE 713 997-5038
SIGNATURE	DATE 06/01/2012	EMAIL maria.gomez@epenergy.com
API NUMBER ASSIGNED 4301351460000	APPROVAL  Permit Manager	

**Alba 1-21C4
Sec. 21, T3S, R4W
DUCHESNE COUNTY, UT**

EL PASO E&P COMPANY, L.P.

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers

<u>Formation</u>	<u>Depth</u>
Green River (GRRV)	3,117' TVD
Green River (GRTN1)	4,717' TVD
Mahogany Bench	5,617' TVD
L. Green River	6,917' TVD
Wasatch	8,847' TVD
T.D. (Permit)	11,900' TVD

2. Estimated Depths of Anticipated Water, Oil, Gas or Mineral Formations:

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
	Green River (GRRV)	3,117' MD / TVD
	Green River (GRTN1)	4,717' MD / TVD
	Mahogany Bench	5,617' MD / TVD
Oil	L. Green River	6,917' MD / TVD
Oil	Wasatch	8,847' MD / TVD

3. Pressure Control Equipment: (Schematic Attached)

A 4.5" by 20.0" rotating head on structural pipe from surface to 800' MD/TVD. A 4.5" by 13-3/8" Smith Rotating Head from 800' MD/TVD to 3,220' MD/TVD on Conductor. A 5M BOP stack, 5M kill lines and choke manifold used from 3,220' MD/TVD to 8,950' MD/TVD. A 10M BOE w/ rotating head, 5M annular, blind rams & mud cross from 8,950' MD/TVD to TD (11,900' MD/TVD).

The BOPE and related equipment will meet the requirements of the 5M and 10M system.

OPERATORS MINIMUM SPECIFICATIONS FOR BOPE:

The surface casing will be equipped with a flanged casing head of 5M psi working pressure. An 11" 5M x 11" 10M spool, 11" x 10M psi BOP and 5M psi annular will be nipped up on the surface casing and tested to 250 psi low test / 3,000 psi high test for 10 minutes each prior to drilling out. The surface casing will be tested to 1,000 psi. for 30 mins. Intermediate casing will be tested to the greater of 1,500 psi or 0.22 psi/ft. The choke manifold equipment, upper Kelly

cock and floor safety valves will be tested to 5M psi. The annular preventer will be tested to 250 psi low test / 4,000 psi high test. The 10M BOP will be installed with 3-1/2" pipe rams, blind rams, mud cross and rotating head from intermediate shoe to TD. The BOPE will be hydraulically operated.

In addition, the BOP equipment will be tested after running intermediate casing, after any repairs to the equipment and at least once every 30 days. Pipe and blind rams will be activated on each trip, annular preventer will be activated weekly and weekly BOP drills will be held with each crew.

Statement on Accumulator System and Location of Hydraulic Controls:

Precision Rig # 404 is expected to be used to drill the proposed well. Operations will commence after approval of this application. Manual and/or hydraulic controls will be in compliance with 5M and 10M psi systems.

Auxiliary Equipment:

- A) Pason Gas Monitoring 800' - TD
- B) Mud logger with gas monitor – 3,220' to TD (11,900' MD/TVD)
- C) Choke manifold with one manual and one hydraulic operated choke
- D) Full opening floor valve with 3/4" pipe thread
- E) Upper and lower Kelly cock
- F) Shaker, de-sander and centrifuge

4. **Proposed Casing and Cementing Program:**

Please refer to the attached Wellbore Diagram.

All casing will meet or exceed the following design safety factors:

- Burst = 1.00
- Collapse = 1.125
- Tension = 1.2 (including 100k# overpull)

Cement design calculations for intermediate and production hole will be based on minimum 10% excess over gauge hole volumes. Actual volumes pumped will be a minimum of 10% excess over caliper volume to designed tops of cement for any section logged. A minimum of 50% excess over gauge volume will be pumped on surface casing.

5. **Drilling Fluids Program:**

Proposed Mud Program:

Interval	Type	Mud Weight
Surface	WBM	8.4 – 9.0
Intermediate	WBM	9.0 – 10.0
Production	WBM	10.0 – 12.5

Anticipated mud weights are based on actual offset well bottom-hole pressure data. Mud weights utilized may be somewhat higher to allow for trip margin and to provide hole stability for running logs and casing.

Visual mud monitoring equipment will be utilized.

6. **Evaluation Program:**

Logs:

Mud Log: 3,220' MD/TVD – TD (11,900' MD/TVD)

Open Hole Logs: Gamma Ray, Neutron-Density, Resistivity, Sonic, from surface casing shoe to TD.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 11,900' TVD equals approximately 8,045 psi. This is calculated based on a 0.676 psi/ft gradient (13 ppg mud density at TD).

Maximum anticipated surface pressure equals approximately 5,426 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/ft).

Maximum anticipated surface pressure based on frac gradient at 7" casing shoe is 0.8 psi/ft at 8,550' TVD = 7,160 psi

BOPE and casing design will be based on the lesser of the two MASPs which is 5,426 psi.

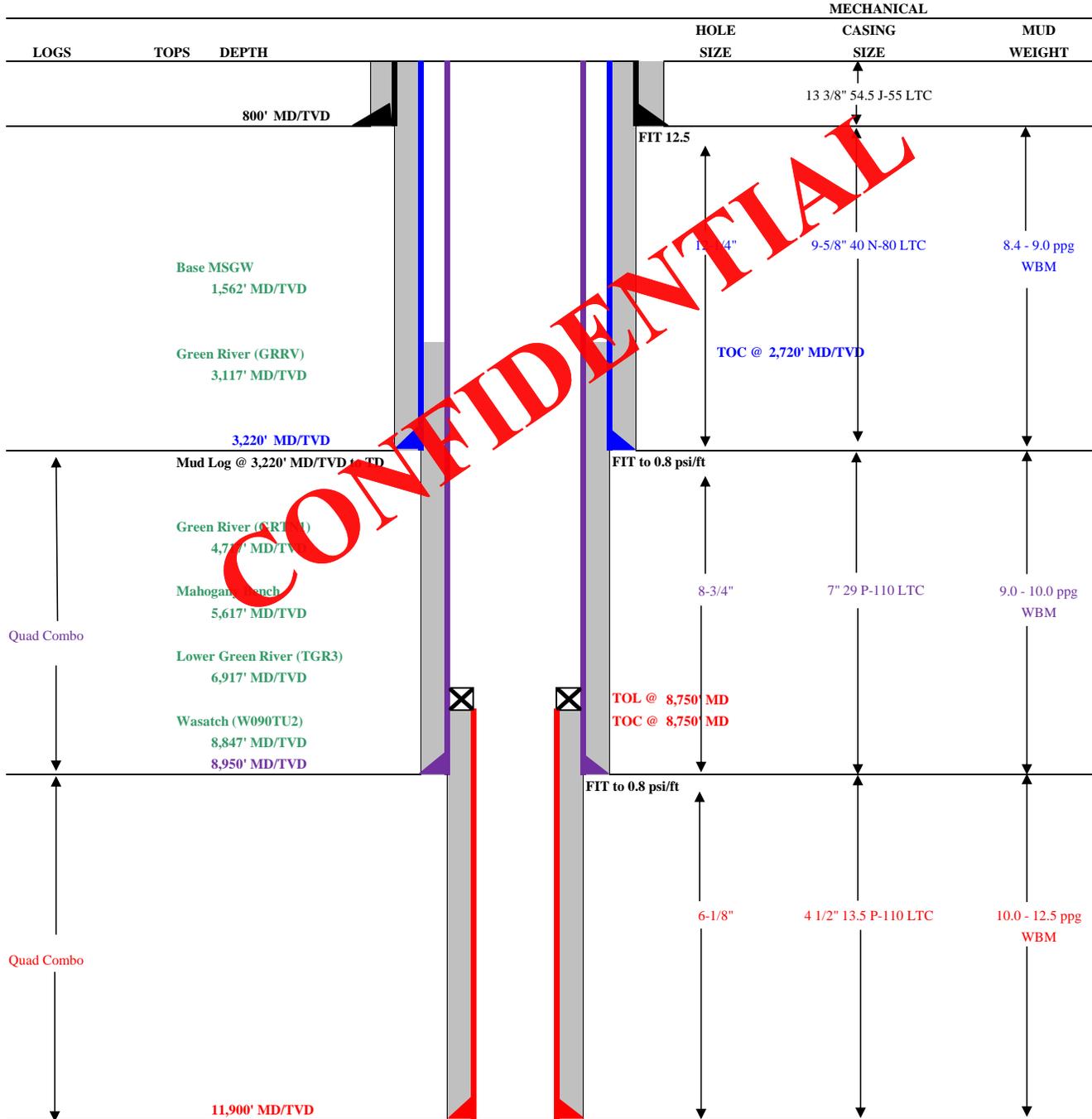
8. **OPERATOR REQUESTS THAT THE PROPOSED WELL BE PLACED ON CONFIDENTIAL STATUS.**



Drilling Schematic

Company Name: El Paso Exploration & Production
Well Name: Alba 1-21C4
Field, County, State: Altamont - Bluebell, Duchesne, Utah
Surface Location: Sec 21 - T3S - R4W -- 684' FNL 1,050' FEL
Objective Zone(s): Green River, Wasatch
Rig: Precision Drilling 404
BOPE Info: 5.0 x 13-3/8" rotating head from 800' to 3,220'. 11" 5M BOP stack and 5M kill lines and choke manifold used from 3,220' to 8,950' & 11" 10M BOE w/rotating head, 5M annular, 3-1/2" rams, blind rams & mud cross from 8,950' to TD

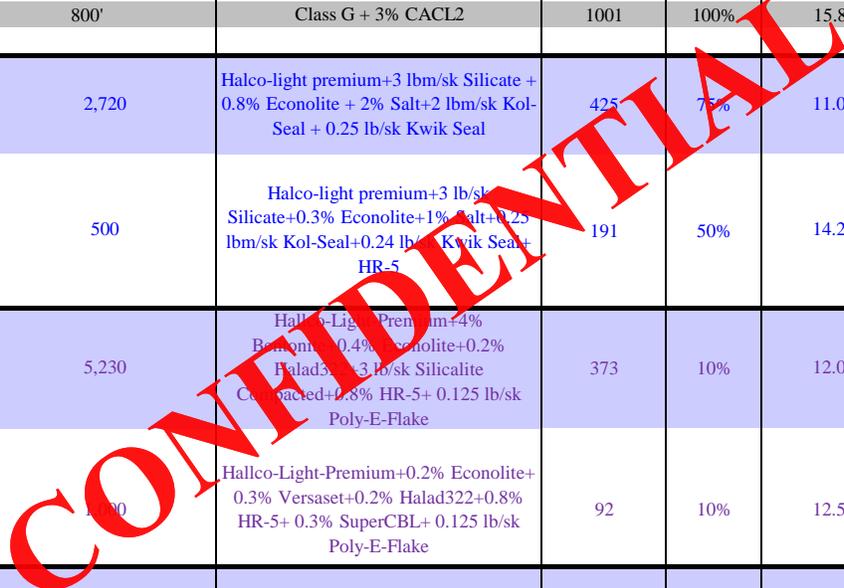
Date: May 4, 2012
TD: 11,900'
AFE #: 157763
BHL: Sec 21 - T3S - R4W -- 684' FNL 1,050' FEL
Elevation: 5,901'
Spud (est.): October 24, 2012



DRILLING PROGRAM

CASING PROGRAM	SIZE	INTERVAL	WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION
CONDUCTOR	13 3/8"	0' - 800'	54.5	J-55	STC	2,730	1,130	853
SURFACE	9-5/8"	0' - 3,220'	40.00	N-80	LTC	5,750	3,090	737
INTERMEDIATE	7"	0' - 8,950'	29.00	HCP-110	LTC	11,220	9,200	797
PRODUCTION LINER	4 1/2"	8,750' - 11,900'	13.50	P-110	LTC	12,410	10,680	338

CEMENT PROGRAM		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
CONDUCTOR		800'	Class G + 3% CACL2	1001	100%	15.8 ppg	1.15
SURFACE	Lead	2,720	Halco-light premium+3 lbm/sk Silicate + 0.8% Econolite + 2% Salt+2 lbm/sk Kol-Seal + 0.25 lb/sk Kwik Seal	425	75%	11.0 ppg	3.16
	Tail	500	Halco-light premium+3 lb/sk Silicate+0.3% Econolite+1% Salt+0.25 lbm/sk Kol-Seal+0.24 lb/sk Kwik Seal+ HR-5	191	50%	14.2 ppg	1.33
INTERMEDIATE	Lead	5,230	Halco-Light-Premium+4% Bentonite+0.4% Econolite+0.2% Halad500+3 lb/sk Silicalite Compact+0.8% HR-5+ 0.125 lb/sk Poly-E-Flake	373	10%	12.0 ppg	2.31
	Tail	1,000	Hallco-Light-Premium+0.2% Econolite+ 0.3% Versaset+0.2% Halad322+0.8% HR-5+ 0.3% SuperCBL+ 0.125 lb/sk Poly-E-Flake	92	10%	12.5 ppg	1.91
PRODUCTION LINER		3,150	Halco- 50/50 Poz Premium Cement+20% SSA-1+0.3% Super CBL+ 0.3% Halad-344+0.3% Halad-413+ 0.2% SCR-100+ 0.125 lb/sk Poly-E-Flake + 3 lb/sk Silicat	258	25%	14.6 ppg	1.45



FLOAT EQUIPMENT & CENTRALIZERS

CONDUCTOR	PDC drillable guide shoe, 1 joint, PDC drillable float collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing.
SURFACE	PDC drillable guide shoe, 1 joint casing, PDC drillable float collar & Stage collar. Thread lock all float equipment. Install bow spring centralizers on the bottom 3 joints of casing & every 3rd joint thereafter.
INTERMEDIATE	PDC drillable 10M,P-110 float shoe, 1 joint, PDC drillable 10M, P-110 float collar. Thread lock all float equipment. Marker joint at 8,000'.
LINER	Float shoe, 1 joint, float collar, 1 joint, landing collar. Rigid centralizer every other joint. Thread lock all FE. 2 Marker Joints spaced 1,000' apart.

PROJECT ENGINEER(S): Ryan Williams 713-420-4724

MANAGER: Scott Palmer

EL PASO E&P COMPANY, L.P.
ALBA 1-21C4
SECTION 21, T3S, R4W, U.S.B.&M.

PROCEED NORTH ON PAVED STATE HIGHWAY 87 FROM THE INTERSECTION OF HIGHWAY 87 WITH U.S. HIGHWAY 40 IN DUCHESNE, UTAH APPROXIMATELY 3.41 MILES TO AN INTERSECTION;

TURN RIGHT AND TRAVEL EASTERLY 2.86 MILES ON EXISTING GRAVEL COUNTY ROAD TO AN INTERSECTION;

TURN RIGHT AND TRAVEL SOUTHERLY 0.12 MILES ON ACCESS ROAD TO THE PROPOSED WELL LOCATION;

TOTAL DISTANCE FROM DUCHESNE, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 6.39 MILES.

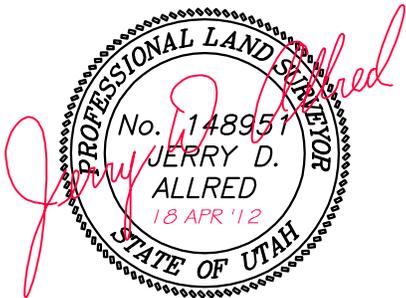
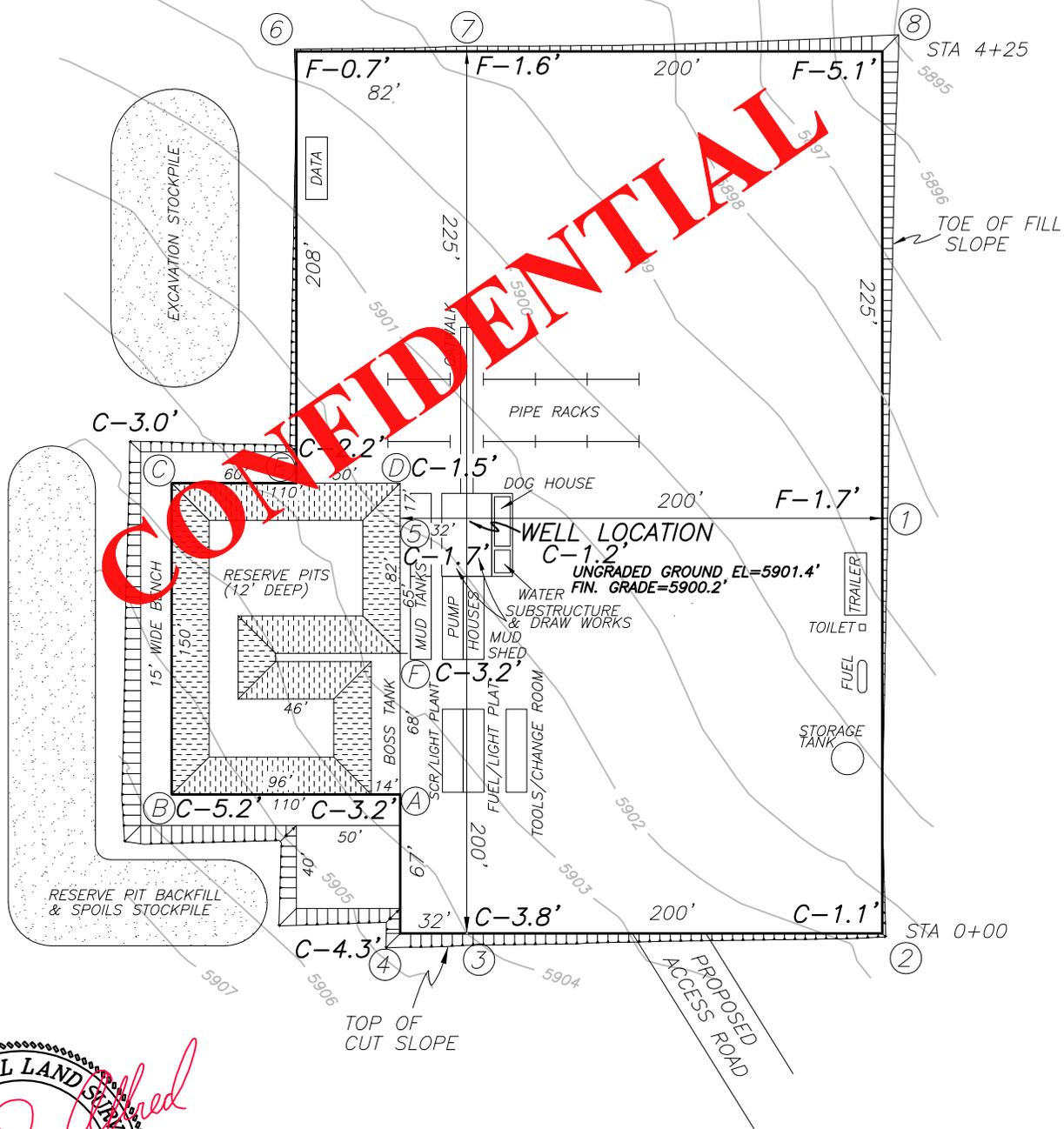
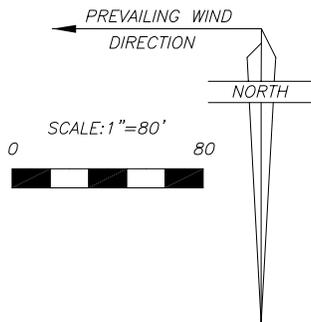
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EL PASO E & P COMPANY, L.P.

LOCATION LAYOUT FOR
ALBA 1-21C4

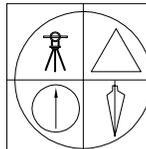
SECTION 21, T3S, R4W, U.S.B.&M.
684' FNL, 1051' FEL

FIGURE #1



18 APR 2012

01-128-293



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

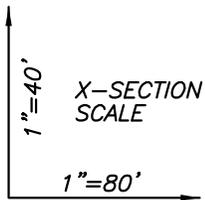
1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

EL PASO E & P COMPANY, L.P.

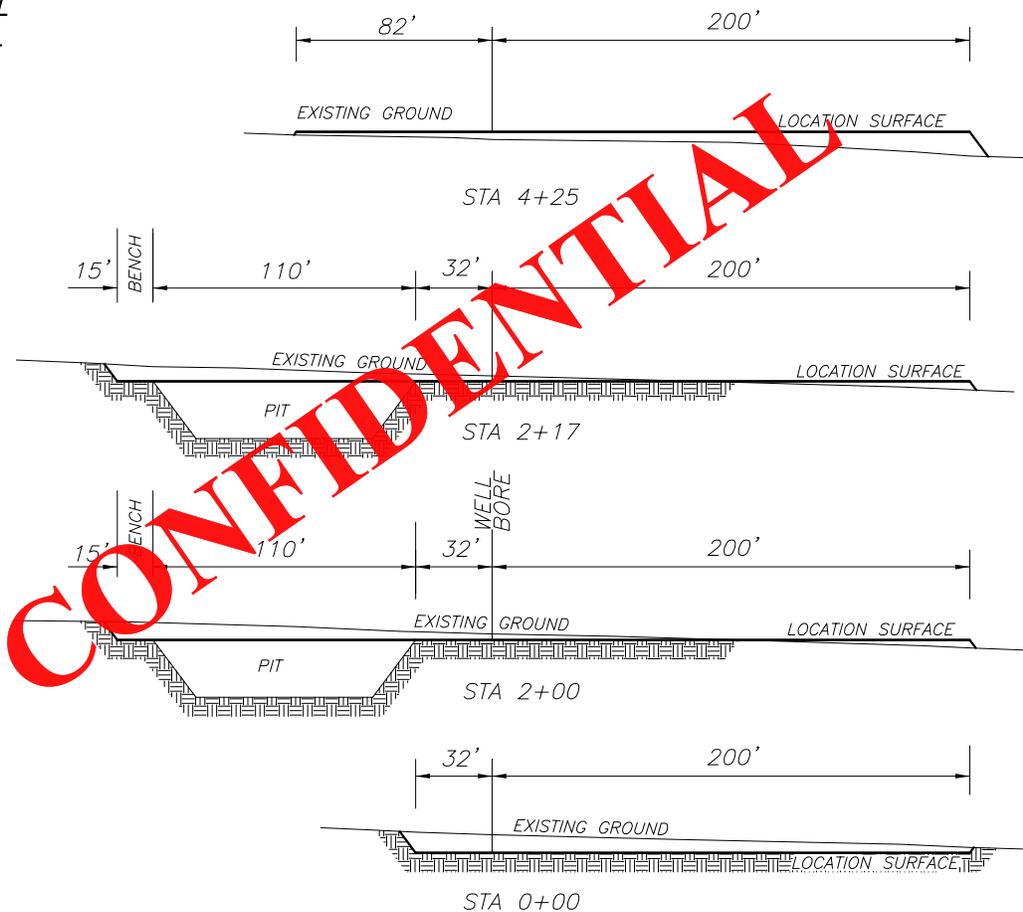
FIGURE #2

LOCATION LAYOUT FOR
ALBA 1-21C4

SECTION 21, T3S, R4W, U.S.B.&M.
684' FNL, 1051' FEL



NOTE: ALL CUT/FILL
SLOPES ARE 1½:1
UNLESS OTHERWISE
NOTED



APPROXIMATE QUANTITIES

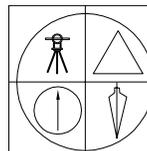
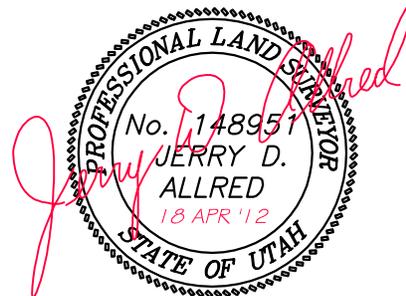
TOTAL CUT (INCLUDING PIT) = 12,104 CU. YDS.

PIT CUT = 4572 CU. YDS.
TOPSOIL STRIPPING: (6") = 2582 CU. YDS.
REMAINING LOCATION CUT = 4950 CU. YDS

TOTAL FILL = 3699 CU. YDS.

LOCATION SURFACE GRAVEL=1374 CU. YDS. (4" DEEP)

ACCESS ROAD GRAVEL=166 CU. YDS.



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18 APR 2012

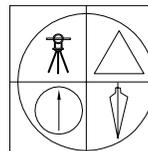
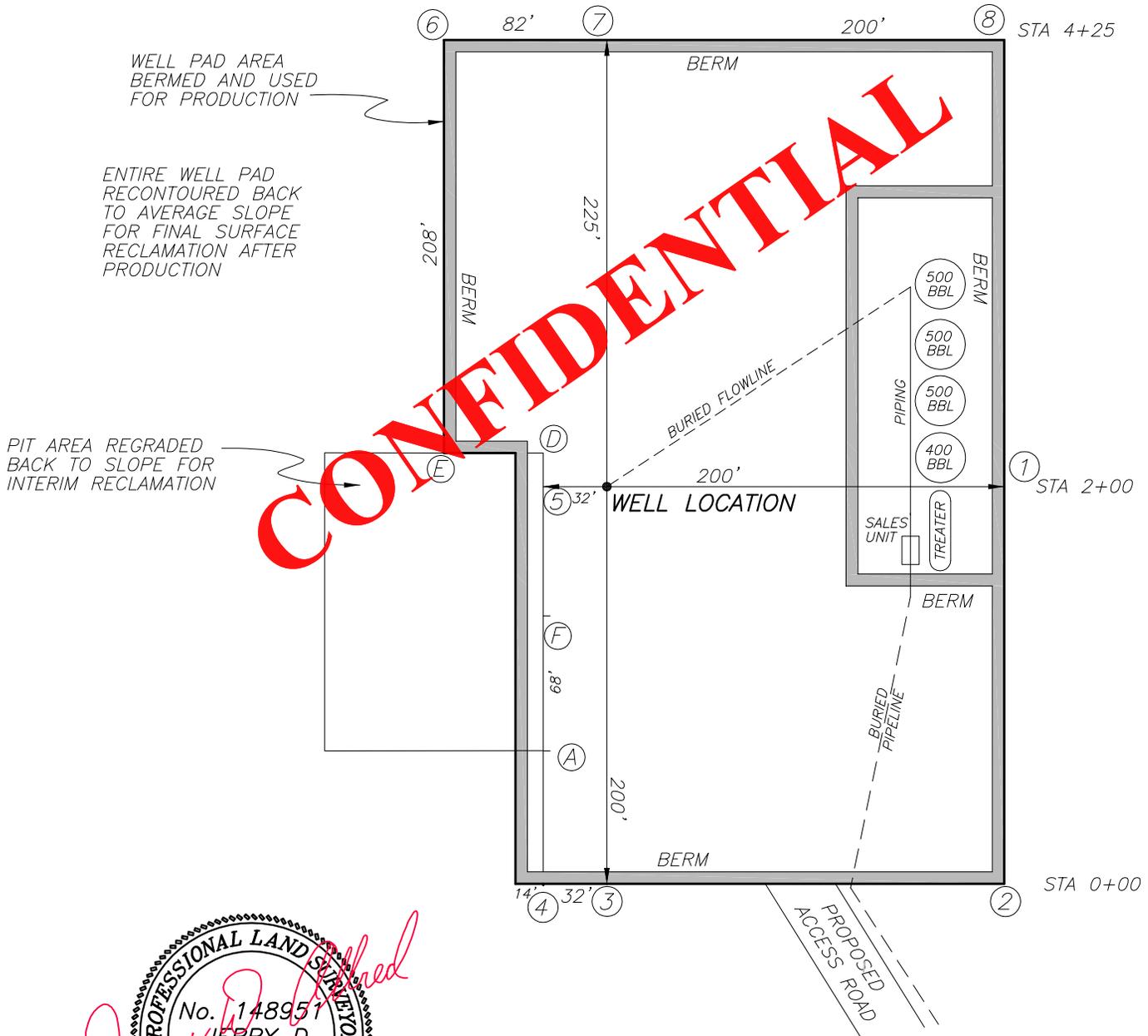
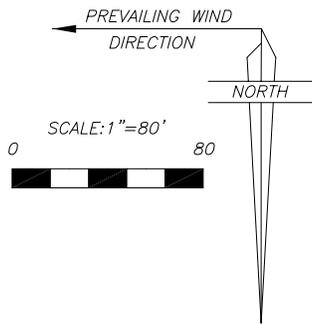
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EL PASO E & P COMPANY, L.P.

LOCATION LAYOUT FOR
ALBA 1-21C4

SECTION 21, T3S, R4W, U.S.B.&M.
684' FNL, 1051' FEL

FIGURE #3



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352

TO SECTION CORNER N 89°09'02" E 5324.40' COUNTY ROAD #87

FOUND G.L.O. MONUMENT AT SECTION CORNER

SEC 16 SEC 15 SEC 22

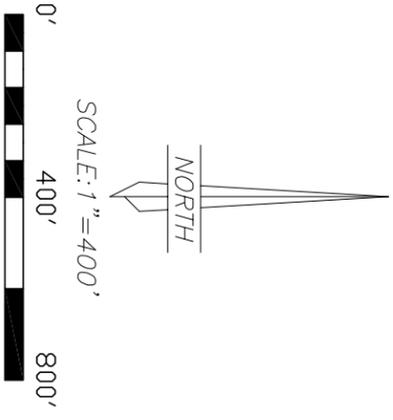
PROPOSED 66' WIDE ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY

SHOWN AS A COUNTY "D" ROAD ON DUCHESNE COUNTY "B" ROAD MAP REVISED 4/15/05

EL PASO E & P COMPANY, L.P.
SURFACE USE AREA
ALBA 1-21C4
5.40 ACRES

LINE	BEARING	DISTANCE
L1	S 00°00'39" E	228.65'
L2	S 00°00'39" E	256.35'
L3	S 89°59'21" W	485.00'
L4	N 00°00'39" W	255.38'
L5	N 00°00'39" W	229.62'
L6	N 89°59'21" E	485.00'
L7	N 57°42'48" W	171.03'

INDICATES FOUND 1/2" REBAR AT LOT CORNER



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S 00°03'12" E 5236.06'

LOCATION USE AREA AND ACCESS ROAD, POWER LINE, AND PIPELINE
CORRIDOR RIGHT-OF-WAY SURVEY FOR
EL PASO E&P COMPANY, L.P.
ALBA 1-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
DUCHESNE COUNTY, UTAH

USE AREA BOUNDARY

Commencing at the Northeast Corner of Section 21, Township 3 South, Range 4 West of the Uintah Special Base and Meridian:
Thence South 59°24'50" West 923.57 feet to the TRUE POINT OF BEGINNING;
Thence South 00°00'39" East 485.00 feet;
Thence South 89°59'21" West 485.00 feet;
Thence North 00°00'39" West 485.00 feet;
Thence North 89°59'21" East 485.00 feet to the TRUE POINT OF BEGINNING, containing 5.40 acres.

ACCESS ROAD, PIPELINE, AND POWER LINE CORRIDOR RIGHT-OF-WAY DESCRIPTION

A 66 feet wide, access road, pipeline, and power line corridor right-of-way over portions of Section 21, Township 3 South, Range 4 West of the Uintah Special Base and Meridian, the centerline of which is further described as follows:
Commencing at the Northeast Corner of said Section 21;
Thence South 67°55'51" West 1250.94 feet to the TRUE POINT OF BEGINNING, said point being on the North line of the El Paso E&P Company Alba 1-21C4 well location surface use area boundary;
Thence North 57°42'48" West 171.03 feet to the East line of an existing County "D" road right-of-way line. Said right-of-way being 171.03 feet in length with the sidelines being shortened or elongated to intersect said use area boundary and said East road line.

SURVEYOR'S CERTIFICATE

This is to certify that this plat was prepared from the field notes and electronic data collector files of an actual survey made by me, or under my personal supervision, of the use area and access road, power line, and pipeline corridor right-of-way shown hereon, and that the monuments indicated were found or set during said survey, and that this plat accurately represents said survey to the best of my knowledge.



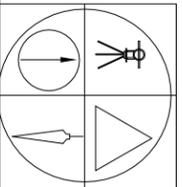
Jerry D. Allred, Professional Land Surveyor,
Certificate 148951 (Utah)

THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT

THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

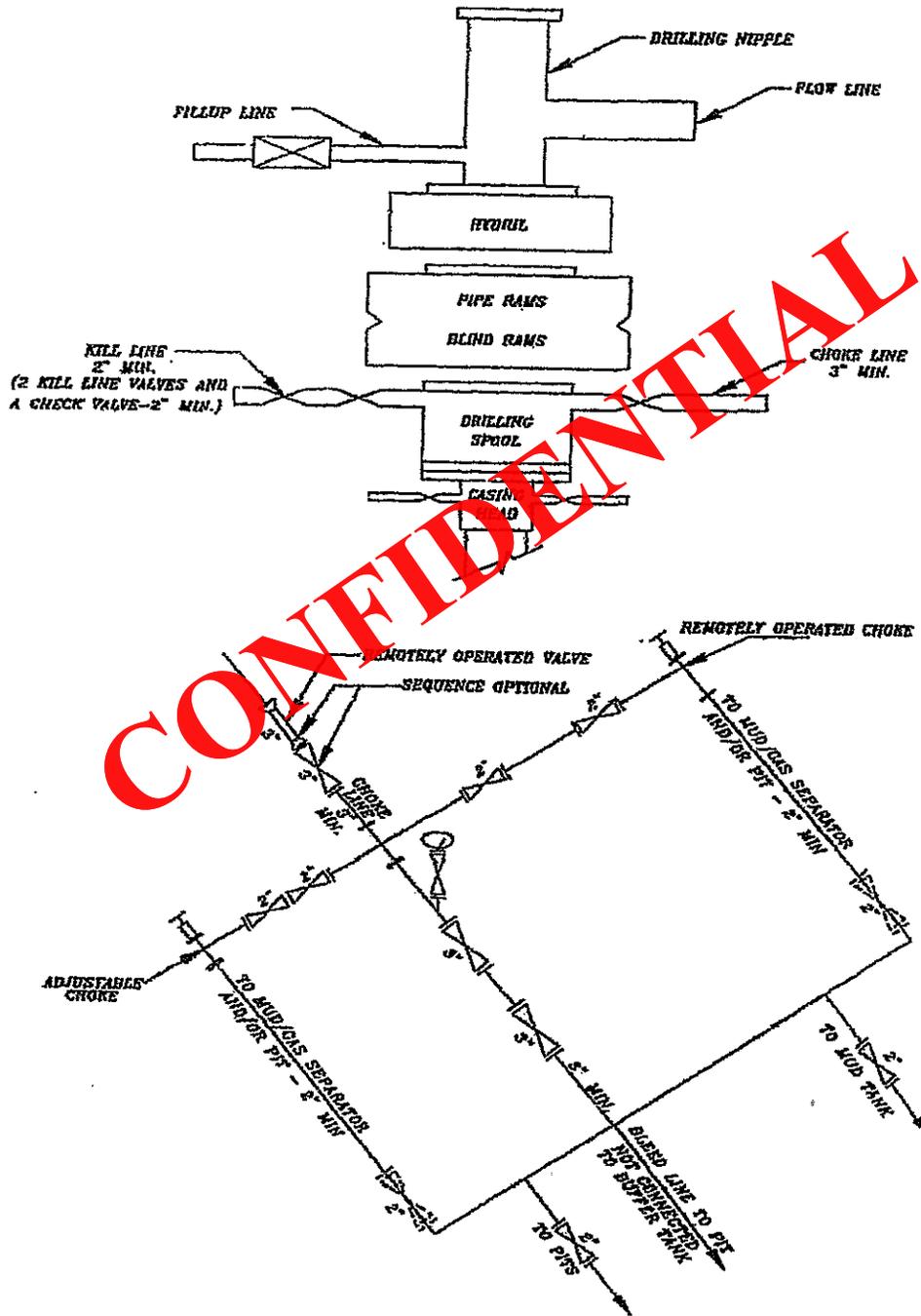
FOUND G.L.O. MONUMENT AT QUARTER CORNER TO QUARTER CORNER

26 APR 2012 01-128-293



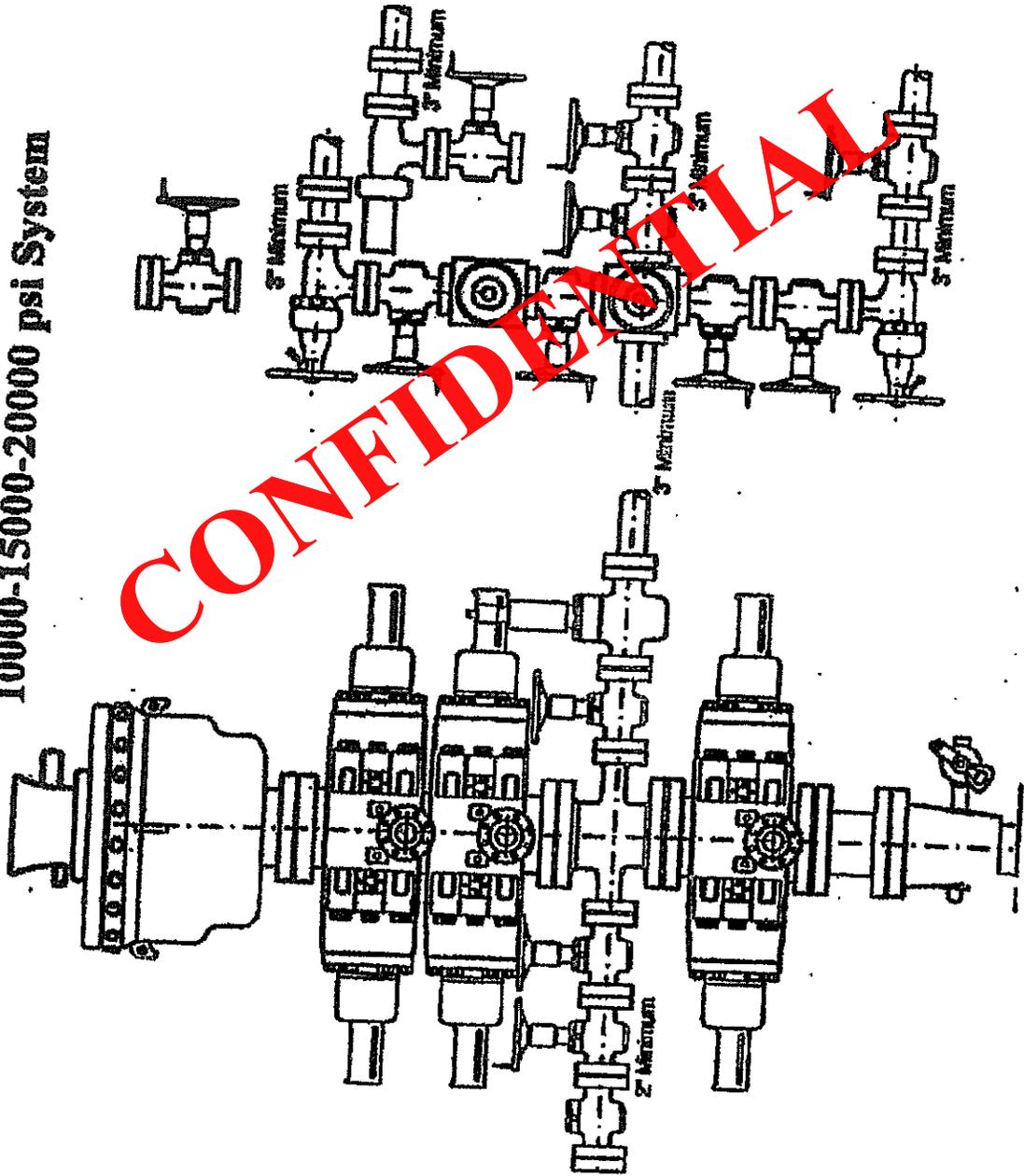
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1235 NORTH 700 EAST--P.O. BOX 975
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(435) 738-5352

5M BOP STACK and CHOKE MANIFOLD SYSTEM



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10000-15000-20000 psi System



EL PASO E & P COMPANY, L.P.

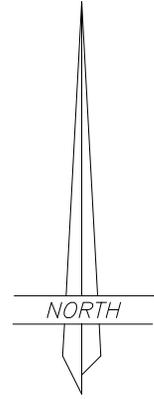
WELL LOCATION

ALBA 1-21C4

LOCATED IN THE NE¼ OF THE NE¼ OF SECTION 21, T3S, R4W, U.S.B.&M. DUCHESNE COUNTY, UTAH



CONFIDENTIAL



SCALE: 1" = 1000'



NOTE:
NAD27 VALUES FOR WELL POSITION:
LAT: 40.21161438° N
LONG: 110.33494761° W

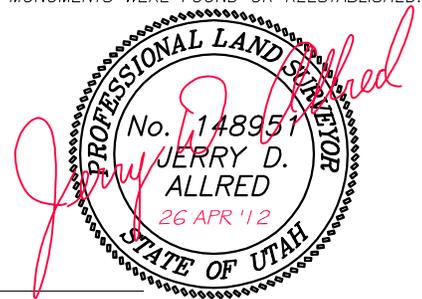
SURVEYOR'S CERTIFICATE

I HEREBY CERTIFY THAT THIS PLAT WAS PREPARED FROM THE FIELD NOTES AND ELECTRONIC DATA COLLECTOR FILES OF AN ACTUAL SURVEY PERFORMED BY ME, OR UNDER MY PERSONAL SUPERVISION, DURING WHICH THE SHOWN MONUMENTS WERE FOUND OR REESTABLISHED.

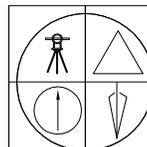
LEGEND AND NOTES

- ◆ CORNER MONUMENTS FOUND AND USED BY THIS SURVEY
THE GENERAL LAND OFFICE (G.L.O.) PLAT WAS USED FOR REFERENCE AND CALCULATIONS AS WAS THE U.S.G.S. MAP
THIS SURVEY WAS PERFORMED USING GLOBAL POSITIONING SYSTEM PROCEDURES AND EQUIPMENT
THE BASIS OF BEARINGS IS GEODETIC NORTH DERIVED FROM G.P.S. OBSERVATIONS AT THE SECTION CORNER LOCATED AT LAT. 40°15'22.90258"N AND LONG. 110°23'21.19760"W USING THE UTAH STATE G.P.S. VIRTUAL REFERENCE STATION CONTROL NETWORK MAINTAINED AND OPERATED BY THE AUTOMATED GEOGRAPHIC REFERENCE CENTER

BASIS OF ELEVATIONS: NAVD 88 DATUM USING THE UTAH REFERENCE NETWORK CONTROL SYSTEM

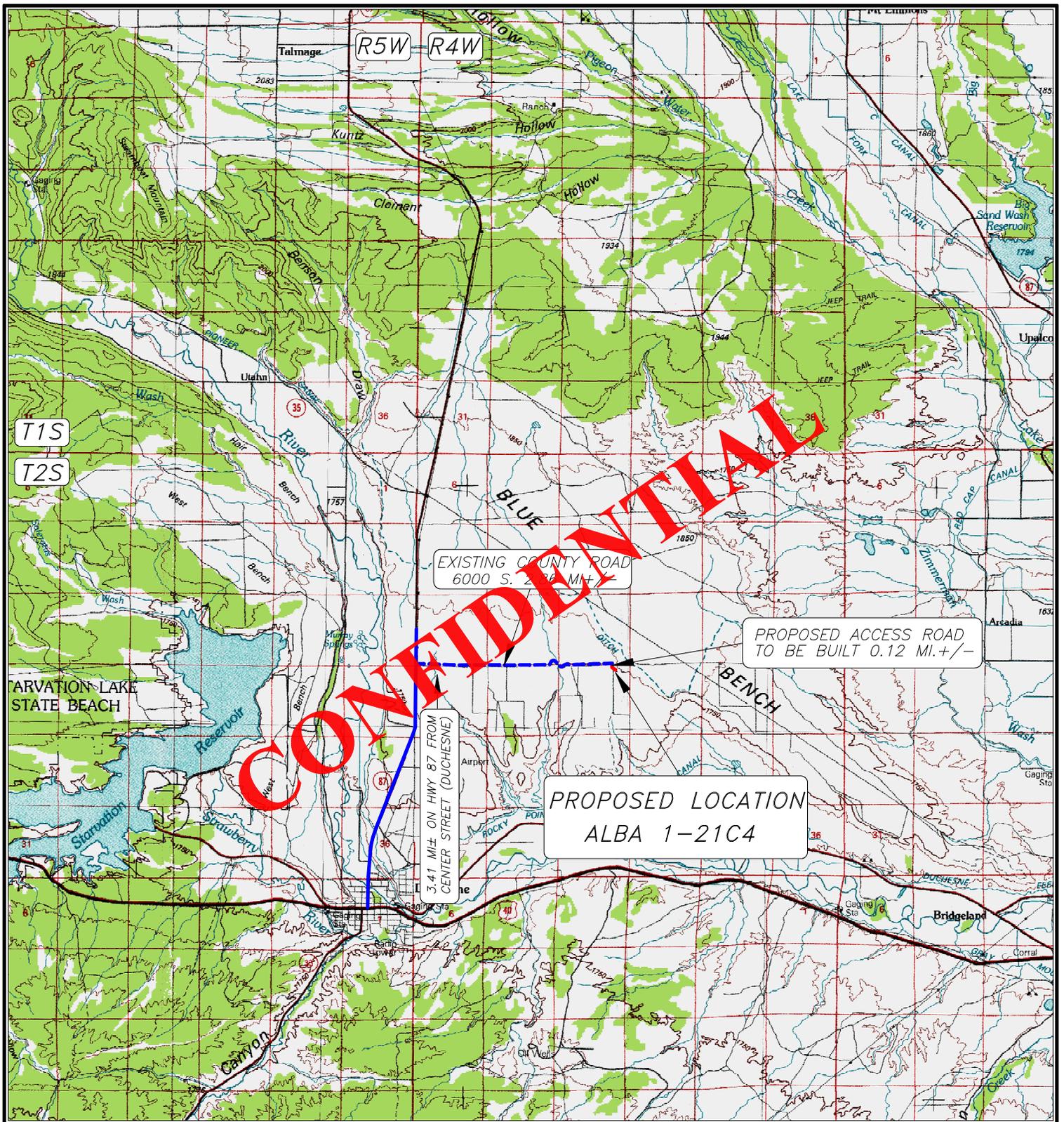


JERRY D. ALLRED, PROFESSIONAL LAND SURVEYOR, CERTIFICATE NO. 148951 (UTAH)



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352



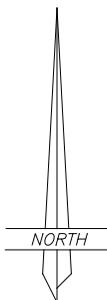
LEGEND:

 PROPOSED WELL LOCATION

01-128-293

JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESNE, UTAH 84021
(435) 738-5352



EL PASO E & P COMPANY, L.P.

ALBA 1-21C4

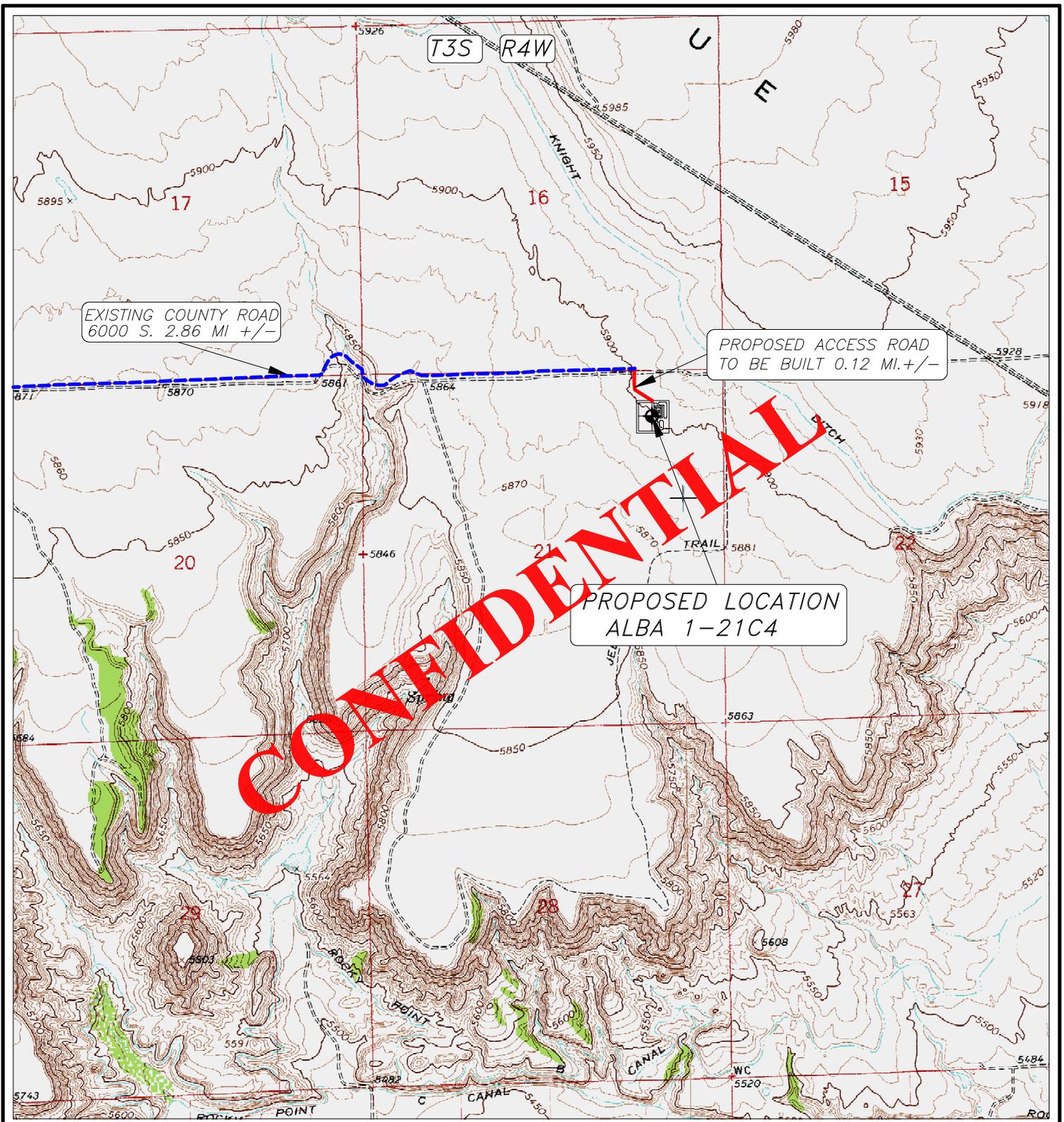
SECTION 21, T3S, R4W, U.S.B.&M.

684' FNL 1051' FEL

TOPOGRAPHIC MAP "A"

SCALE; 1"=10,000'

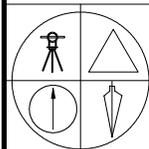
27 APR 2012



LEGEND:

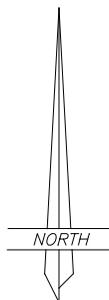
-  PROPOSED WELL LOCATION
-  PROPOSED ACCESS ROAD
-  EXISTING GRAVEL ROAD
-  EXISTING PAVED ROAD

01-128-293



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHEсне, UTAH 84021
(435) 738-5352



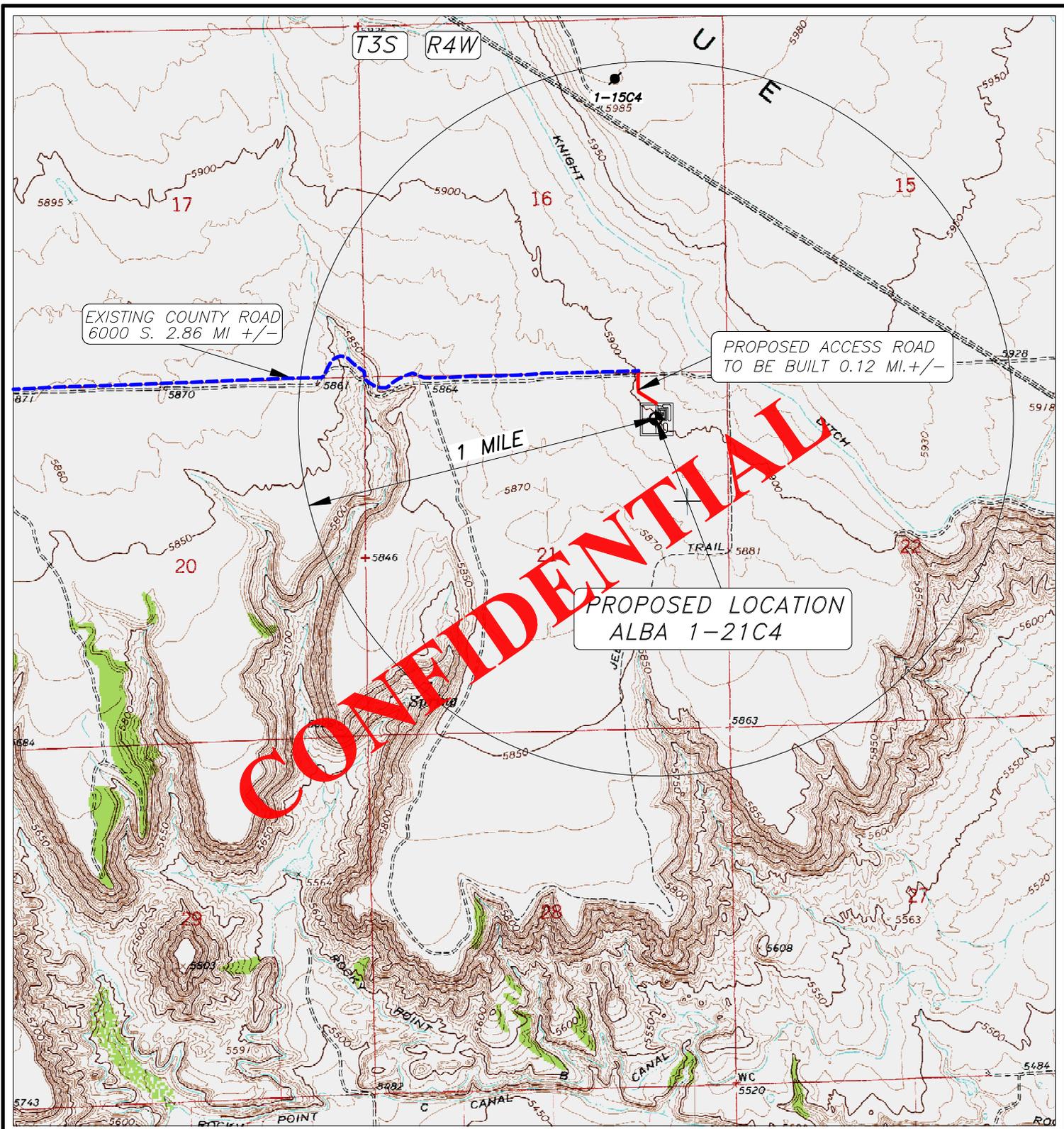
EL PASO E & P COMPANY, L.P.

ALBA 1-21C4
SECTION 21, T3S, R4W, U.S.B.&M.

684' FNL 1051' FEL

TOPOGRAPHIC MAP "B"

SCALE: 1"=2000'
27 APR 2012

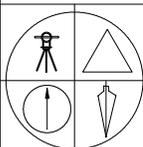


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LEGEND:

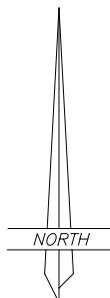
-  PROPOSED WELL LOCATION
-  OTHER WELLS AS LOCATED FROM SUPPLIED MAP

01-128-293



JERRY D. ALLRED & ASSOCIATES
SURVEYING CONSULTANTS

1235 NORTH 700 EAST--P.O. BOX 975
DUCHESTER, UTAH 84021
(435) 738-5352



EL PASO E & P COMPANY, L.P.

ALBA 1-21C4
SECTION 21, T3S, R4W, U.S.B.&M.
684' FNL 1051' FEL

TOPOGRAPHIC MAP "C"

SCALE; 1"=2000'
27 APR 2012

AFFIDAVIT OF DAMAGE SETTLEMENT AND RELEASE

Byron Moos personally appeared before me, and, being duly sworn, deposes and says:

1. My name is Byron Moos. I am over the age of 21 and am an Independent Oil and Gas Landman under contract with Transcontinent Oil Company acting as agent for El Paso E&P Company, L.P., whose address is 1001 Louisiana Street, Houston, Texas 77002 ("El Paso").
2. El Paso is the operator of the proposed Alba 1-21C4 well ("the Well") to be located in Tract 21-5 and Tract 21-12 of the unrecorded plat of Blue Bench Ranches located in the NE/4NE/4 of Section 21, Township 3 South, Range 4 West, USM, Duchesne County, Utah (the "Drill site Location"). The surface owner of that portion of the Drill site Location in Tract 21-5, unrecorded plat of Blue Bench Ranches is Rolando Alba, whose address is 7391 South 700 East, Midvale, UT 84047. Telephone number 801-244-9992. The surface owner of that portion of the Drill site Location in Tract 21-12 is Raymond H. Widener, whose address is 7581 South Spring Drive, West Jordan, UT 84084-2851. Telephone number 801-557-1062 (the "Surface Owners").
3. El Paso and the Surface Owners have entered into Damage Settlement and Release Agreements dated May 9, 2012 and May 21, 2012 to cover any and all injuries or damages of every character and description sustained by the Surface Owners or Surface Owner's property as a result of operations associated with the drilling, completion and producing the Well.

FURTHER AFFIANT SAYETH NOT.

Byron Moos

 Byron Moos

CONFIDENTIAL

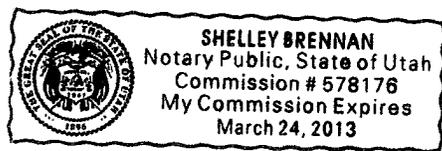
ACKNOWLEDGMENT

STATE OF UTAH §
 §
 COUNTY OF DUCHESNE §

This instrument was acknowledged before me on this the 24th day of May, 2012 by Byron Moos as a Landman acting as agent for EL PASO E&P COMPANY, L.P., a Delaware limited partnership, on behalf of said partnership and acknowledged to me that he executed the same as his own free and voluntary act and deed for the uses and purposes therein set forth.

Shelley Brennan

 Notary Public in and for the State of Utah



EL PASO E&P COMPANY, L.P.

Related Surface Information

1. Current Surface Use:

- Livestock Grazing and Oil and Gas Production.

2. Proposed Surface Disturbance:

- The road will be crown and ditch. Water wings will be constructed on the access road as needed.
- The topsoil will be windrowed and re-spread in the borrow area.
- New road to be constructed will be approximately .12 miles in length and 66 feet wide.
- All equipment and vehicles will be confined to the access road, pad and area specified in the APD.

3. Location Of Existing Wells:

- Existing oil, gas wells within one (1) mile radius of proposed well are provided in EXHIBIT C.

4. Location And Type Of Drilling Water Supply:

- Drilling water: Duchesne City Water

5. Existing/Proposed Facilities For Productive Well:

- There are no existing facilities that will be utilized for this well.
- A pipeline corridor .12 miles will parallel the proposed access road. The corridor will contain one 4 inch gas line and one 2 inch gas line and one 2 inch salt water disposal line. Rehabilitation of unneeded, previously disturbed areas will consist of backfilling and contouring the reserve pit area; backsloping and contouring all cut and fill slopes. These areas will be reseeded. Refer to plans for reclamation of surface for details.
- Upgrade and maintain access roads and drainage control structures (e.g., culverts, drainage dips, ditching, etc.) as necessary to prevent soil erosion and accommodate safe, year-round traffic.

6. Construction Materials:

- Native soil from road and location will be used for construction materials along with gravel and/or scoria road base material. In the event that conditions should necessitate graveling of all or part of the access road and location, surfacing materials will be purchased from commercial suppliers in the marketing area.

7. Methods For Handling Waste Disposal:

- The reserve pit will be designed to prevent the collection of surface runoff and will be constructed with a minimum of ½ the total depth below the original ground surface on the lowest point with the pit. The pit will be lined with a 20-mil polyethylene to prevent leakage of fluids. The liner will be rolled into place and secured at the ends, i.e. buried on top of the pit berms. Prior to use, the reserve pit will be fenced on three sides; the fourth side will be fenced at the time the rig is removed. Drilling fluids, cuttings and produced water will be contained in the reserve pit (trash will be placed in the trash cage). Fluids in the reserve pit will be allowed to evaporate prior to pit burial.
- Garbage and other trash will be contained in the portable trash cage and hauled off the location to an authorized disposal site. Any trash on the pad will be cleaned up prior to the rig moving off location and hauled to an authorized disposal site.
- Sewage will be handled in Portable Toilets.
- Produced water will be placed in the reserve pit for a period not to exceed ninety days after initial production. Any hydrocarbons produced during completion work will be contained in test tanks and removed from the location at a later date.
- Water from the reserve pit may be used for drilling of additional wells. The water will be trucked along access roads as approved in pertinent APD's

8. Ancillary Facilities:

- There will be no ancillary facilities associated with this project.

9. Surface Reclamation Plans:

Backfilling of the pits will be done when dry. In the event of a dry hole, the location will be re-contoured, the topsoil will be distributed evenly over the entire location, and the seedbed prepared.

- Seed will be planted after September 15th, and prior to ground frost, or seed will be planted after the frost has left and before May 15th. Slopes to steep for machinery will be hand broadcast and raked with twice the specified amount of seed.
 1. The construction program and design are on the attached cut, fill and cross sectional diagrams.
 2. Prior to construction, all topsoil will be removed from the entire site and stockpiled. Topsoil for this site is the first 6 inches of soil materials.
 3. After the location has been reshaped and after redistributing the topsoil, the operator will rip and scarify the drilling platform and access road on the contour, to a depth of at least 12 inches.
- Rehabilitation will begin upon the completion of the drilling. Complete rehabilitation will depend on weather conditions and the amount of time required to dry the reserve pit.
 1. All rehabilitation work including seeding will be completed as soon as weather and the reserve pit conditions are appropriate.
 2. Landowner will be contacted for rehabilitation requirements.

10. Surface Ownership:

Rolando Alba
7391 South 700 East
Midvale, Utah 84047
801-244-9992

Raymond H. Winder
7581 South Spring Drive
West Jordan, Utah 84084-2851
801-457-1062

Other Information:

- The surface soil consists of clay, and silt.
- Flora – vegetation consists of the following: Sagebrush, Juniper and prairie grasses.
- Fauna – antelope, deer, coyotes, raptors, small mammals, and domestic grazing animals.
- Current surface uses – Livestock grazing and mineral exploration and production.

• **Operator and Contact Persons:**

Construction and Reclamation:

El Paso E & P Company
Wayne Garner
PO Box 410
Altamont, Utah 84001
435-454-3394 – Office
435-823-1490 – Cell

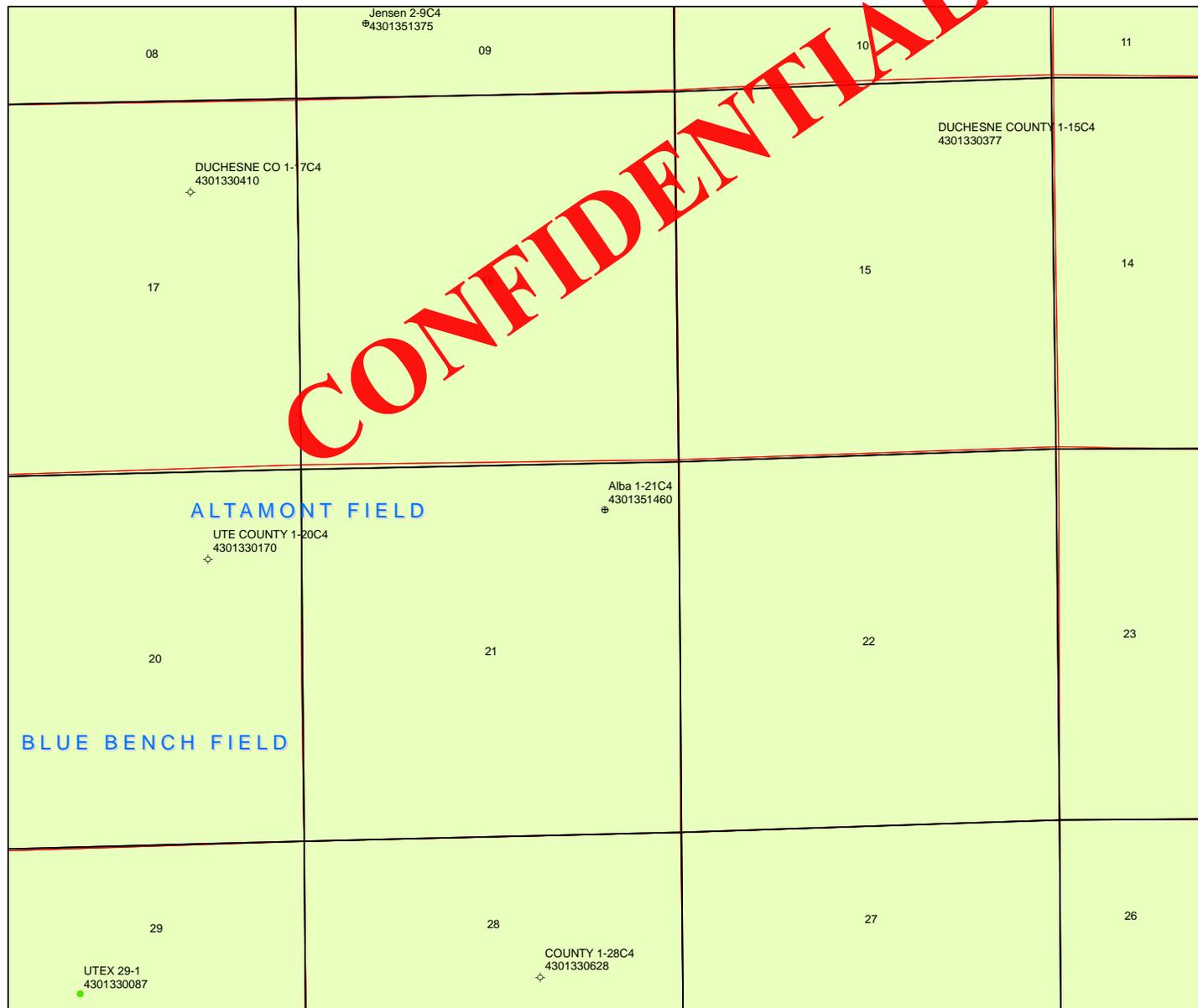
Regarding This APD

El Paso E & P Company
Maria S. Gomez
1001 Louisiana, Rm 2730D
Houston, Texas 77002
713-997-5038 – Office

Drilling

El Paso E & P Company
Joe Cawthorn – Drilling Engineer
1001 Louisiana, Rm 2523B
Houston, Texas 77002
713-997-5929 – office
832-465-2882 – Cell

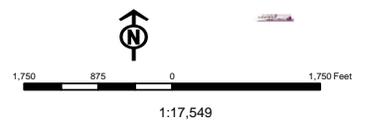
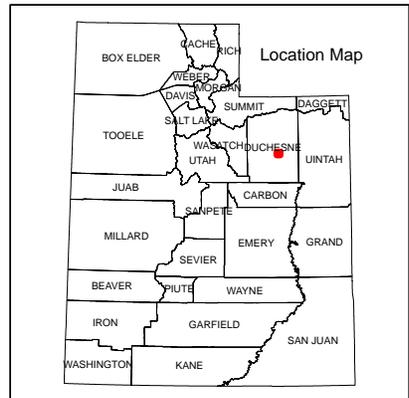
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API Number: 4301351460
Well Name: Alba 1-21C4
Township T0.3 . Range R0.4 . Section 21
Meridian: UBM
Operator: EL PASO E&P COMPANY, LP

Map Prepared:
Map Produced by Diana Mason

- | Units | Wells Query |
|---------------|------------------------------------|
| STATUS | STATUS |
| ACTIVE | APD - Approved Permit |
| EXPLORATORY | DRL - Spudded (Drilling Commenced) |
| GAS STORAGE | GIW - Gas Injection |
| NF PP OIL | GS - Gas Storage |
| NF SECONDARY | LOC - New Location |
| PI OIL | OPS - Operation Suspended |
| PP GAS | PA - Plugged Abandoned |
| PP GEOTHERML | PGW - Producing Gas Well |
| PP OIL | POW - Producing Oil Well |
| SECONDARY | SGW - Shut-in Gas Well |
| TERMINATED | SOW - Shut-in Oil Well |
| Fields | TA - Temp. Abandoned |
| Unknown | TW - Test Well |
| ABANDONED | WDW - Water Disposal |
| ACTIVE | WW - Water Injection Well |
| COMBINED | WSW - Water Supply Well |
| INACTIVE | |
| STORAGE | |
| TERMINATED | |



Well Name	EL PASO E&P COMPANY, LP Alba 1-21C4 4301351460000			
String	Cond	Surf	I1	L1
Casing Size(")	13.375	9.625	7.000	4.500
Setting Depth (TVD)	800	5550	8950	11900
Previous Shoe Setting Depth (TVD)	0	800	5550	8950
Max Mud Weight (ppg)	9.0	10.0	12.5	13.0
BOPE Proposed (psi)	1000	1000	5000	10000
Casing Internal Yield (psi)	2730	5750	11	12410
Operators Max Anticipated Pressure (psi)	8044			13.0

Calculations	Cond String	13.375	"
Max BHP (psi)	.052*Setting Depth*MW=	374	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	278	YES <input type="checkbox"/> rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	198	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	198	NO <input type="checkbox"/> OK
Required Casing/BOPE Test Pressure=		800	psi
*Max Pressure Allowed @ Previous Casing Shoe=		0	psi *Assumes 1psi/ft frac gradient

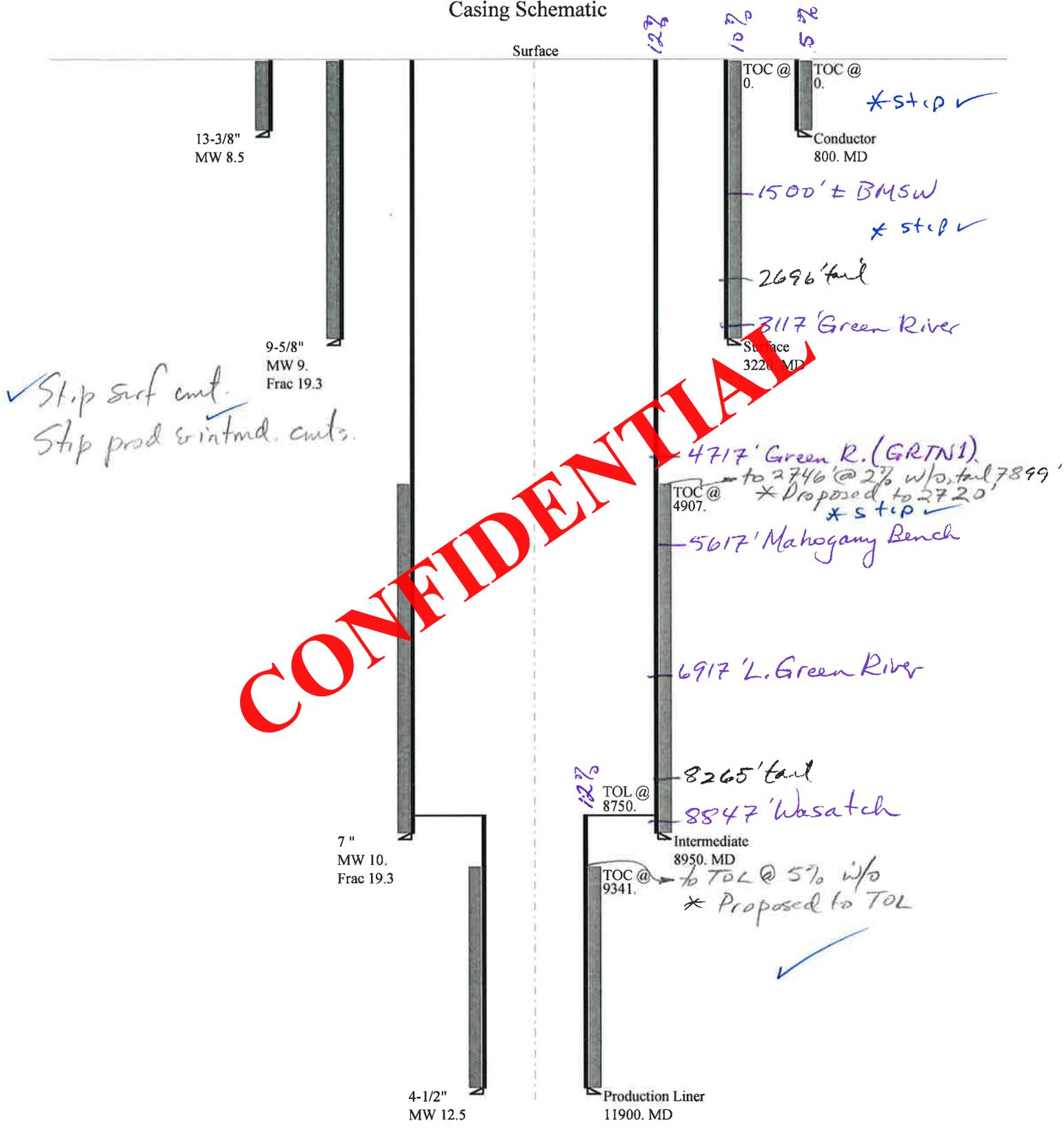
Calculations	Surf String	9.625	"
Max BHP (psi)	.052*Setting Depth*MW=	2836	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	2220	NO <input type="checkbox"/> rotating head
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	1665	NO <input type="checkbox"/> Reasonable depth, no pressures
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	1841	NO <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		4025	psi
*Max Pressure Allowed @ Previous Casing Shoe=		800	psi *Assumes 1psi/ft frac gradient

Calculations	I1 String	7.000	"
Max BHP (psi)	.052*Setting Depth*MW=	5818	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	4744	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	3849	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	5070	YES <input type="checkbox"/> OK
Required Casing/BOPE Test Pressure=		8	psi
*Max Pressure Allowed @ Previous Casing Shoe=		5550	psi *Assumes 1psi/ft frac gradient

Calculations	L1 String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	7735	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	6307	YES <input type="checkbox"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	5117	YES <input type="checkbox"/> OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	7086	YES <input type="checkbox"/>
Required Casing/BOPE Test Pressure=		8687	psi
*Max Pressure Allowed @ Previous Casing Shoe=		11	psi *Assumes 1psi/ft frac gradient

4301351460000 Alba 1-21C4

Casing Schematic



Well name:

4301351460000 Alba 1-21C4

Operator: EL PASO E & P COMPANY, LP

String type: Conductor

Project ID:

43-013-51460

Location: DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 8.500 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 85 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 257 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 353 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Non directional string.

Tension is based on air weight.
Neutral point 699 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	800	12.375	54.50	J-55	ST&C	800	800	12.49	9926
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	312	1130	3.625	353	2730	7.73	43.6	514	11.79 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801-538-5357
FAX: 801-359-3940

Date: July 17, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 800 ft, a mud weight of 8.5 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

4301351460000 Alba 1-21C4

Operator: EL PASO E & P COMPANY, LP

String type: Surface

Project ID:

43-013-51460

Location: DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 9.000 ppg
Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 119 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Burst:

Design factor 1.00

Cement top: Surface

Burst

Max anticipated surface pressure: 2,512 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 3,220 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.00 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point 2,789 ft

Non directional string.

Re subsequent strings:

Next setting depth: 8,950 ft
Next mud weight: 10.000 ppg
Next setting BHP: 4,649 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 3,220 ft
Injection pressure: 3,220 psi

Run Seq	Segment Length (ft)	Size (in)	Normal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3220	9.625	40.00	N-80	LT&C	3220	3220	8.75	40974
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1338	3090	2.309	3220	5750	1.79	128.8	737	5.72 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: July 17, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 3220 ft, a mud weight of 9 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

4301351460000 Alba 1-21C4

Operator: EL PASO E & P COMPANY, LP

String type: Intermediate

Project ID:

43-013-51460

Location: DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 10.000 ppg
Design is based on evacuated pipe.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 199 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Cement top: 4,907 ft

Burst

Max anticipated surface pressure: 5,109 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,078 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.80 (J)
Premium: 1.50 (J)
Body yield: 1.80 (B)

Tension is based on air weight.
Neutral point: 7,595 ft

Non directional string.

Re subsequent strings:

Next setting depth: 11,900 ft
Next mud weight: 12.500 ppg
Next setting BHP: 7,727 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 8,950 ft
Injection pressure: 8,950 psi

Run Seq	Segment Length (ft)	Size (in)	Normal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	8950	7	29.00	HCP-110	LT&C	8950	8950	6.059	101069
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	4649	9200	1.979	7078	11220	1.59	259.5	797	3.07 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: July 17, 2012
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 8950 ft, a mud weight of 10 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

Well name:

4301351460000 Alba 1-21C4

Operator: EL PASO E & P COMPANY, LP

String type: Production Liner

Project ID:

43-013-51460

Location: DUCHESNE COUNTY

Design parameters:

Collapse

Mud weight: 12.500 ppg
Internal fluid density: 1.500 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 241 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,000 ft

Burst:

Design factor 1.00

Cement top: 9,342 ft

Burst

Max anticipated surface pressure: 5,109 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 7,727 psi

No backup mud specified.

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.80 (J)
Buttress: 1.00 (J)
Premium: 1.50 (J)
Body yield: 1.80 (B)

Tension is based on air weight.
Neutral point: 11,328 ft

Liner top: 8,750 ft
Non-directional string.

Run Seq	Segment Length (ft)	Size (in)	Normal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	3100	4.5	13.50	P-110	LT&C	11900	11900	3.795	17371
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	6800	10680	1.571	7727	12410	1.61	41.8	338	8.08 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: July 17, 2012
Salt Lake City, Utah

Remarks:

For this liner string, the top is rounded to the nearest 100 ft. Collapse is based on a vertical depth of 11900 ft, a mud weight of 12.5 ppg. An Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Engineering responsibility for use of this design will be that of the purchaser.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator EL PASO E&P COMPANY, LP
Well Name Alba 1-21C4
API Number 43013514600000 **APD No** 6172 **Field/Unit** ALTAMONT
Location: 1/4,1/4 NENE **Sec** 21 **Tw** 3.0S **Rng** 4.0W 684 **FNL** 1051 **FEL**
GPS Coord (UTM) 556535 4451464 **Surface Owner** Roland Alba

Participants

Jared Thacker (E&P Energy); Chad Shaw (EPE Houston); Orion Mitchell (EPE Energy); Ryan Allred (Allred Survey); Cameron Wilkerson (El Paso); Dennis Ingram (DOGM)

Regional/Local Setting & Topography

Proposed well site is located in northeastern Utah approximately 3.41 miles north of Duchesne along highway 87, then easterly along an existing county road for 2.86 miles, then south across new access road into well pad. The surface is relatively flat but slopes slightly to the south toward the Duchesne River Drainage, some two plus miles further south. The surface topography changes little across Blue Bench, which is mostly flat, open rangeland that was once irrigated to grow alfalfa. The surface does change approximately 4.0 miles to the west where this bench habitat drops off into the Duchesne River Drainage. To the north, broken sandstone shelves are common as the elevation rises into pinion juniper habitat.

Surface Use Plan

Current Surface Use
Grazing

New Road Miles	Well Pad	Src Const Material	Surface Formation
0.12	Width 342 Length 425	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? Y

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Rabbit brush and weeds; vegetation no suitable for wildlife, potential rabbit, coyote, mule deer, fox and birds of prey.

Soil Type and Characteristics

Reddish in color, fine grained sandy loam, silt.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? Y

Erosion Sedimentation Control Required? N

Paleo Survey Run? Paleo Potential Observed? N Cultural Survey Run? Cultural Resources? N

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	>1320	0
Native Soil Type	High permeability	20
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conductors	Not Present	0
Final Score		25 1 Sensitivity Level

Characteristics / Requirements

Proposed reserve pit in cut on the northeastern side of location, measuring 110' wide by 150' long by 12 feet deep, and having prevailing winds from the west.

Closed Loop Muff Required? N Liner Required? Y Liner Thickness 20 Pit Underlayment Required?

Other Observations / Comments

Location on two landowners, neither of them attended presite although both were invited. Surface is nearly flat, mostly weeds, little to no impact, no comments or concerns with site.

Dennis Ingram
Evaluator

6/27/2012
Date / Time

**Application for Permit to Drill
Statement of Basis
Utah Division of Oil, Gas and Mining**

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
6172	43013514600000	LOCKED	OW	P	No
Operator	EL PASO E&P COMPANY, LP		Surface Owner-APD	Roland Alba	
Well Name	Alba 1-21C4		Unit		
Field	ALTAMONT		Type of Work	DRILL	
Location	NENE 21 3S 4W U 684 FNL (UTM) 556535E 4451464N		1051 FEL GPS Coord		

Geologic Statement of Basis

El Paso proposes to set 800 feet of conductor and 3,220 feet of surface casing both of which will be cemented to surface. The surface and intermediate holes will be drilled utilizing fresh water mud. The estimated depth to the base of moderately saline ground water is 1,500 feet. A search of Division of Water Rights records indicates that there are 8 water wells within a 10,000 foot radius of the center of Section 21. These wells probably produce water from near surface alluvium and the Duchesne River Formation. Depths of the wells fall in the range of 30-300 feet. The wells are listed as being used for irrigation, stock watering and domestic. The nearest water wells are nearly a mile north of the proposed well. The proposed drilling, casing and cement program should adequately protect the highly used Duchesne River aquifer.

Brad Hill
APD Evaluator

7/11/2012
Date / Time

Surface Statement of Basis

A presite visit was scheduled and done on June 27, 2012 to address issues and take input regarding the construction and drilling of this well. The location is spread across two surface owners: Rolando Alba and Raymond H. Widener each own about half of this surface. Both of these surface owners were contacted and invited to the presite meeting but did not attend the meeting.

This location is nearly flat, having 4.3 feet of cut on the northeastern corner and 5.1 feet of fill on the southwestern corner. There aren't any surface waters or drainage issues involved with this site, as it is open rangeland on the lower portion of Blue Bench. The operator shall follow their operations plan and install a 20 mil synthetic liner in the reserve pit to prevent seepage. Also the reserve pit should be fenced to prevent livestock or wildlife from entering same. The location shall also be bermed to prevent spills from leaving the well site.

Dennis Ingram
Onsite Evaluator

6/27/2012
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils shall be properly installed and maintained in the reserve pit.
Pits	The reserve pit should be located on the east side of the location.
Surface	The well site shall be bermed to prevent fluids from leaving the pad.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

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**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 6/1/2012

API NO. ASSIGNED: 4301351460000

WELL NAME: Alba 1-21C4

OPERATOR: EL PASO E&P COMPANY, LP (N3850)

PHONE NUMBER: 713 997-5038

CONTACT: Maria S. Gomez

PROPOSED LOCATION: NENE 21 030S 040W

Permit Tech Review:

SURFACE: 0684 FNL 1051 FEL

Engineering Review:

BOTTOM: 0684 FNL 1051 FEL

Geology Review:

COUNTY: DUCHESNE

LATITUDE: 40.21168

LONGITUDE: -110.33563

UTM SURF EASTINGS: 556535.00

NORTHINGS: 4451464.00

FIELD NAME: ALTAMONT

LEASE TYPE: 4 - Fee

LEASE NUMBER: Fee

PROPOSED PRODUCING FORMATION(S): GREEN RIVER-WASATCH

SURFACE OWNER: 4 - Fee

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

LOCATION AND SITING:

PLAT

R649-2-3.

Bond: STATE/FEE - 400JU070

Unit:

Potash

R649-3-2. General

Oil Shale 190-5

R649-3-3. Exception

Oil Shale 190-3

Drilling Unit

Oil Shale 190-13

Water Permit: Duchesne City Water

Board Cause No: Cause 139-90

RDCC Review:

Effective Date: 5/9/2012

Fee Surface Agreement

Siting: 4 Prod LGRRV-WSTC Per Sectional Drilling Units

Intent to Commingle

R649-3-11. Directional Drill

Commingling Approved

Comments: Presite Completed

Stipulations: 5 - Statement of Basis - bhill
8 - Cement to Surface -- 2 strings - ddoucet
12 - Cement Volume (3) - ddoucet



GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Alba 1-21C4
API Well Number: 43013514600000
Lease Number: Fee
Surface Owner: FEE (PRIVATE)
Approval Date: 8/21/2012

Issued to:

EP ENERGY E&P COMPANY, L.P., 1001 Louisiana, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 139-90. The expected producing formation or pool is the GREEN RIVER-WASATCH Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Cement volume for the 7" intermediate string shall be determined from actual hole diameter in order to place cement from the pipe setting depth back to 2720' as indicated in the submitted drilling plan.

Cement volumes for the 13 3/8" and 9 5/8" casing strings shall be determined from actual hole diameters in order to place cement from the pipe setting depths back

to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan contact Dustin Doucet
- Significant plug back of the well contact Dustin Doucet
- Plug and abandonment of the well contact Dustin Doucet

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well contact Carol Daniels
OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to

implementation

- Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved by:

A handwritten signature in black ink, appearing to read "Brad Hill", written in a cursive style.

Brad Hill
For John Rogers
Associate Director, Oil & Gas

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company; EP ENERGY E&P COMPANY, L.P.

Well Name: ALBA 1-21C4-

Api No: 43-013-51460 Lease Type FEE

Section 21 Township 03S Range 04W County DUCHESNE

Drilling Contractor PETE MARTIN DRLG RIG # 5

SPUDDED:

Date 09/10/2012

Time _____

How DRY

**Drilling will
Commence:** _____

Reported by WAYNE GARNER

Telephone # (435) 823-1490

Date 09/07/2012 Signed CHD

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

FORM 6

ENTITY ACTION FORM

Operator: EP Energy E&P Company, L.P. Operator Account Number: N 3850
 Address: 1001 Louisiana, Room 2730D
city Houston
state TX zip 77002 Phone Number: (713) 997-5038

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351460	Alba 1-21C4		NENE	21	3S	4W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18731	9/10/2012		9/27/2012		
Comments: GR-WS							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4301351487	Allen 4-25B5		NWSE	25	2S	5W	Duchesne
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	18732	9/17/2012		9/27/2012		
Comments: GR-WS							

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Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

- A - Establish new entity for new well (single well only)
- B - Add new well to existing entity (group or unit well)
- C - Re-assign well from one existing entity to another existing entity
- D - Re-assign well from one existing entity to a new entity
- E - Other (Explain in 'comments' section)

Maria S. Gomez

Name (Please Print)

Maria S. Gomez

Signature

Principal Regulatory Analyst

9/26/2012

Title

Date

RECEIVED
SEP 26 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Alba 1-21C4
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013514600000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/21/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Please see attached for details.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 27, 2012**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 11/26/2012	

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALBA 1-21C4		
Project	ALTAMONT FIELD	Site	ALBA 1-21C4
Rig Name/No.	PRECISION DRILLING/406	Event	DRILLING LAND
Start Date	11/2/2012	End Date	
Spud Date/Time	11/2/2012	UWI	ALBA 1-21C4
Active Datum	KB @5,917.2ft (above Mean Sea Level)		
Afe No./Description	157763/46935 / ALBA 1-21C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
9/16/2012	6:00 6:00	0.00	DPDCOND	07		P	45.0	RU PROPETRO. DRILLED 17.5" HOLE TO 835'. RAN 19 JTS 13-3/8" 54.5 # J-55 STC CSG. SET CSG @ 803'. CMT WITH 1000 SX (205 BBL) 15.8 PPG Y: 1.15 PREMIUM CMT + 2% CACL + 1/4 PPS FLOCEL. HAD 39 BBLS CMT RETURNED TO SURFACE. RD PROPETRO.
10/31/2012	6:00 18:00	12.00	MIRU	01		P	835.0	MIRU. MOVED IN 95%. RIGGED UP 30%.
	18:00 6:00	12.00	MIRU	01		P	835.0	SDFN.
11/1/2012	6:00 6:00	24.00	MIRU	01		P	835.0	RIG UP. 100% MOVED IN. 85% RIGGED UP.
11/2/2012	6:00 11:30	5.50	MIRU	01		P	835.0	FINISHED RIG UP. BEGAN DAYWORK AT 1130 HRS, 11/01/2012.
	11:30 5:00	17.50	CASCOND	28		P	835.0	NU 13 5/8" 3M DIVERTER SYSTEM ONTO 13 3/8" SOW X 13 5/8" 3M WELLHEAD WHILE TESTED CHOKE MANIFOLD 250 / 10,000 PSI. NU MGS & FLARE LINES WHILE TESTED DIVERTER ASSY 250 / 2,500 PSI. REPAIRED 2 LEAKING VALVES. TESTED TDU & FLOOR VALVES. DRESSED SHAKERS & MIXED SPUD MUD.
	5:00 6:00	1.00	DRLSURF	14		P	835.0	PU HANDLING TOOLS. PUMU BHA & 4 1/2" DP.
11/3/2012	6:00 11:00	5.00	DRLSURF	14		P	835.0	PUMU 12 1/4" BIT, MM, SS, NES NMDC, TESTED NES TOOL. PU MU DCS.
	11:00 12:00	1.00	DRLSURF	45		N	835.0	REPAIRED MUD LEAK.
	12:00 14:00	2.00	DRLSURF	14		P	835.0	PUMU HW & DP.
	14:00 16:00	2.00	DRLSURF	12		P	835.0	CUT DRILL LINE.
	16:00 17:00	1.00	DRLSURF	31		P	835.0	SUCCESSFULLY TESTED CASING TO 1,000 PSI FOR >30 MINS.
	17:00 19:30	2.50	DRLSURF	72		P	835.0	DRILLED CEMENT & FLOAT EQUIPMENT. SHOE AT 820'.
	19:30 4:30	9.00	DRLSURF	07		P	835.0	DRILLED 835 - 1,440'.
	4:30 5:00	0.50	DRLSURF	12		N	1,440.0	LOST PUMP PRESSURE. CHECKING PUMP #1 VALVES.
11/4/2012	5:00 6:00	1.00	DRLSURF	07		P	1,440.0	DRILLED 1,440' - 1,500'.
	6:00 14:00	8.00	DRLSURF	07		P	1,500.0	DRILLED 1,500' TO 2,104'.
	14:00 14:30	0.50	DRLSURF	12		P	2,104.0	SERVICED RIG AND TOP DRIVE.
	14:30 0:00	9.50	DRLSURF	07		P	2,104.0	DRILLED 2,104' TO 2,560'. LOW ROP.
	0:00 4:30	5.50	DRLSURF	13		P	2,560.0	BACK-REAMED TO SHOE.
11/5/2012	4:30 6:00	1.50	DRLSURF	13		P	2,560.0	REMOVED RH RUBBER. FINISHED TOOH. REPLACED BIT.
	6:00 12:00	6.00	DRLSURF	13		P	2,560.0	TIH WITH BIT 2. REAMED 4 TIGHT SPOTS, THEN PRECAUTIONARY REAMED 2,420 TO TD.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	12:00 0:00	12.00	DRLSURF	07		P	2,560.0	DRILLED 2,560' - 3,235'.
	0:00 1:00	1.00	DRLSURF	47		N	3,235.0	REPAIRED ELECTRICAL CONNECTION TO RIG FLOOR.
	1:00 3:00	2.00	DRLSURF	13		P	3,235.0	TOOH TO CASING SHOE. BACK REAM FIRST FIVE STANDS. TIGHT SPOT @ 1,680'.
	3:00 4:30	1.50	DRLSURF	13		P	3,235.0	TIH TO 3,235'.
	4:30 5:30	1.00	DRLSURF	15		P	3,235.0	C & C MUD, PREP FOR CASING RUN.
	5:30 6:00	0.50	DRLSURF	13		P	3,235.0	BACK-REAM FIRST 5 STANDS OUT..
11/6/2012	6:00 8:00	2.00	DRLSURF	13		P	3,235.0	TOOH TO DCs. REMOVED RH RUBBER.
	8:00 11:00	3.00	DRLSURF	14		P	3,235.0	PJSM. LD DRILL COLLARS, NMDC, SS, MM & BIT.
	11:00 12:00	1.00	CASSURF	24		P	3,235.0	CLEANED RIG FLOOR, SERVICED RIG.
	12:00 14:00	2.00	CASSURF	24		P	3,235.0	PJSM. RU FRANK'S WESTATES' CASING TOOLS & FILL-UP TOOL.
	14:00 22:00	8.00	CASSURF	24		P	3,235.0	PJSM. PUMU 9 5/8" FLOAT SHOE, 1 JOINT, & FLOAT COLLAR. RAN 9 5/8", 40#, N-80, LTC, SURFACE CASING.
	22:00 23:30	1.50	CASSURF	24		P	3,235.0	RD CASING CREW & FILL UP TOOL.
	23:30 2:00	2.50	CASSURF	24		P	3,235.0	RU HALLIBURTON HEAD, C & C MUD FOR CEMENT JOB. PJSM.
	2:00 5:00	3.00	CASSURF	25		P	3,235.0	TESTED P & L TO 3,000 PSI. PUMPED 100 BBLS FW SPACER. M & P 238BBLS / 430 SKS LEAD SLURRY AT 3.17 YIELD & 11.0 PPG. M & P 45 BBLS / 190 SKS TAIL SLURRY AT 1.33 YIELD & 14.2 PPG. RELEASED PLUG. DISPLACED WITH 220 BBLS 9.4 PPG WBM & 21 BBLS FW. PLUG DOWN @ 0500 HRS, 11/06/2012 WITH 1,070 PSI. FLOATS HELD, FLOWED BACK 1 BBL. PARTIAL RETURNS TOWARD END OF JOB. RECOVERED 60 BBLS OF CEMENT BACK TO SURFACE. SHOE AT 3,230'.
5:00 6:00	1.00	CASSURF	26		P	3,235.0	RD HALLIBURTON CEMENT HEAD. PUMU 1" TUBING FOR 200' TOP JOB.	
11/7/2012	6:00 9:00	3.00	CASSURF	25		P	3,235.0	RAN 200' OF 1" TUBING FOR TOP JOB. TOPPED OUT WITH 21 BBLS OF 100 SKS AT 1.17 YIELD & 15.8 CLASS G CEMENT PLUS 2% CACL2. RD HALLIBURTON.
	9:00 15:00	6.00	CASSURF	29		P	3,235.0	ND DIVERTER WHILE REPLACING 6" PUMP PARTS WITH 5" PARTS..
	15:00 22:30	7.50	CASSURF	27		P	3,235.0	CUT OFF 13 3/8" WELL HEAD & 9 5/8" CASING. WELDED 11" 5M WELL HEAD. TESTED WELD TO 2,000 PSI.
	22:30 6:00	7.50	CASSURF	28		P	3,235.0	NU 11" 5M BOPE.
11/8/2012	6:00 7:30	1.50	CASSURF	28		P	3,235.0	NIPPLE UP 10K BOPE
	7:30 13:30	6.00	CASSURF	30		P	3,235.0	PRESSURE TEST 10K BOPE. TEST BOPE . PIPE RAMS, BLIND RAMS, ALL VALVES, CHECK VALVE, INSIDE BOP, AND TIW VALVE TO 5000 PSI HIGH / 300 PSI LOW. 10 MINUTES EACH TEST. PRESSURE TEST ANNULAR 300 PSI LOW / 2500 PSI LOW. 10 MINUTES EACH TEST.
	13:30 14:30	1.00	CASSURF	31		P	3,235.0	PRESSURE TEST CASING 2500 PSI / 30 MINUTES. RD TESTER.
	14:30 16:30	2.00	CASSURF	28		P	3,235.0	NIPPLE UP ROTATING HEAD AND FLOW LINE.
	16:30 17:30	1.00	CASSURF	42		P	3,235.0	INSTALL WEAR BUSHING.
	17:30 22:00	4.50	CASSURF	13		P	3,235.0	PICK UP BHA AND TIH TO 2,260'.
	22:00 23:30	1.50	CASSURF	17		P	3,235.0	CUT DRILL LINE. (CHECK & RESET CROWN-O-MATIC).
	23:30 0:30	1.00	CASSURF	13		P	3,235.0	TIH. TAG CEMENT AT 3,166'.
	0:30 1:30	1.00	CASSURF	32		P	3,235.0	DRILL FLOAT EQUIPMENT & CEMENT.
	1:30 2:00	0.50	DRLINT1	07		P	3,235.0	DRILL 3,235' - 3,245'.
2:00 2:30	0.50	DRLINT1	15		P	3,245.0	C&C MUD.	
2:30 3:00	0.50	DRLINT1	33		P	3,245.0	FIT. TO 10.2 EQUIVALENT.	
3:00 6:00	3.00	DRLINT1	07		P	3,245.0	DRILL 3,245' - 3,320'.	
11/9/2012	6:00 10:30	4.50	DRLINT1	07		P	3,320.0	DRILLING FROM 3,320' TO 3,831'.
	10:30 11:30	1.00	DRLINT1	47		N	3,831.0	BOTH GENERATORS SHUT DOWN (OVER HEATED).
	11:30 12:00	0.50	DRLINT1	49		N	3,831.0	TROUBLE SHOOT MWD.
	12:00 16:30	4.50	DRLINT1	07		P	3,831.0	DRILLING FROM 3,831' TO 4,225'.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
11/10/2012	16:30 17:00	0.50	DRLINT1	12		P	4,225.0	RIG SERVICE.
	17:00 6:00	13.00	DRLINT1	07		P	4,225.0	DRILLING FROM 4,225' - 5,060'.
	6:00 6:30	0.50	DRLINT1	07		P	5,060.0	DRILLING FROM 5060' TO 5108'
	6:30 8:30	2.00	DRLINT1	33		P	5,108.0	CIRCULATE BOTTOMS UP, PERFORM FIT. 9.5 MUD WEIGHT 388 PSI ADDED SURFACE PRESSURE EMW 11.0 PPG
	8:30 14:30	6.00	DRLINT1	07		P	5,108.0	DRILLING FROM 5803' TO 5800'
	14:30 15:00	0.50	DRLINT1	12		P	5,800.0	RIG SERVICE
	15:00 6:00	15.00	DRLINT1	07		P	5,800.0	DRILLING FROM 5800' TO 6,683'.
11/11/2012	6:00 13:00	7.00	DRLINT1	07		P	6,660.0	DRILLING FROM 6,660' TO 6,912'
	13:00 20:30	7.50	DRLINT1	13		N	6,912.0	MOTOR STALLED. POOH. SHAFT TWISTOFF ON MUD MOTOR.
	20:30 21:00	0.50	DRLINT1	12		P	6,912.0	RIG SERVICE.
	21:00 4:00	7.00	DRLINT1	65		N	6,912.0	WAITING ON TOOLS.
	4:00 6:00	2.00	DRLINT1	13		N	6,912.0	PUMU 8 1/8" OVERSHOT WITH 6 1/2" GRAPPLE, 8 1/8" EXTENTION LENGTH 6.73', XO SUB, CIRCULATING SUB, STAND DC, DRILLING JAR. TIH.
11/12/2012	6:00 9:30	3.50	DRLINT1	53		N	6,912.0	TRIP IN HOLE WITH OVERSHOT
	9:30 11:30	2.00	DRLINT1	53		N	6,912.0	TAGGED BRIDGE AT 5612'. BREAK CIRCULATION TRYING TO WORK OVER FISH AND / OR WASH THROUGH BRIDGE
	11:30 17:00	5.50	DRLINT1	53		N	6,912.0	TRIP OUT OF HOLE, NO RECOVERY. LARGE PIECE OF SHALE IN OVERSHOT.
	17:00 2:00	9.00	DRLINT1	13		N	6,912.0	MU BIT AND TIH. WASH & REAMING TIGHT HOLE FROM 5,698' - 6,903'. TAG TOF AT 6,903'.
	2:00 3:00	1.00	DRLINT1	15		N	6,912.0	C&C MUD.
	3:00 3:30	0.50	DRLINT1	12		P	6,912.0	RIG SERVICE.
	3:30 6:00	2.50	DRLINT1	13		N	6,912.0	SLUG. POOH.
11/13/2012	6:00 8:00	2.00	DRLINT1	53		N	6,912.0	TRIP OUT OF HOLE WITH BIT (CLEAN OUT RUN)
	8:00 14:00	6.00	DRLINT1	53		N	6,912.0	DRESS OVERSHOT WITH NEW SPIRAL GRAPPLE, MAKE UP TOOLS AND TRIP IN HOLE
	14:00 14:30	0.50	DRLINT1	53		N	6,912.0	WASH OVER FISH
	14:30 22:00	7.50	DRLINT1	53		N	6,912.0	TRIP OUT WITH FISH. LD BIT. BREAK OUT FISH & LD. LD FISHING TOOLS.
	22:00 23:00	1.00	DRLINT1	14		N	6,912.0	LD DIRECTIONAL TOOLS FROM DERRICK.
	23:00 23:30	0.50	DRLINT1	12		P	6,912.0	RIG SERVICE.
	23:30 5:00	5.50	DRLINT1	13		N	6,912.0	PU MOTOR, MU BIT #5 AND TIH FILLING PIPE EVERY 30 STANDS.
	5:00 6:00	1.00	DRLINT1	16		N	6,912.0	WASH TO BOTTOM FROM 6,800' - 6,912'.
11/14/2012	6:00 14:00	8.00	DRLINT1	07		P	6,912.0	DRILL 6,912' - 7,352'.
	14:00 14:30	0.50	DRLINT1	12		P	7,352.0	RIG SERVICE.
	14:30 16:00	1.50	DRLINT1	07		P	7,352.0	DRILL 7,352' - 7,460'.
	16:00 17:30	1.50	DRLINT1	11		P	7,460.0	SURVEY @ 7,392'. 5.7 DEGREE.
	17:30 20:00	2.50	DRLINT1	07		P	7,460.0	DRILL 7,460' - 7,648'.
	20:00 21:30	1.50	DRLINT1	11		P	7,648.0	SURVEY @ 7,585'. 7.32 DEGREE
	21:30 22:30	1.00	DRLINT1	15		P	7,648.0	C&C MUD. BUILD SLUG.
	22:30 3:30	5.00	DRLINT1	13		P	7,648.0	POOH TO 3,185'. BACK REAMING FIRST 8 STANDS OUT.
	3:30 5:30	2.00	DRLINT1	17		P	7,648.0	CUT DRILL LINE.
5:30 6:00	0.50	DRLINT1	13		P	7,648.0	POOH FOR DIRECTIONAL TOOLS.	
11/15/2012	6:00 12:00	6.00	DRLINT1	13		P	7,648.0	TRIP OUT OF HOLE TO PICK UP DIRECTIONAL TOOLS. LAY DOWN STABILIZER, DRILLING JARS AND STABILIZER.
	12:00 14:00	2.00	DRLINT1	65		P	7,648.0	WAIT ON RYAN DIRECTIONAL DRILLER.
	14:00 16:30	2.50	DRLINT1	13		P	7,648.0	PICK UP DIRECTIONAL BHA.
	16:30 17:00	0.50	DRLINT1	12		P	7,648.0	RIG SERVICE.
	17:00 19:00	2.00	DRLINT1	42		P	7,648.0	CALIBRATE & SURFACE TEST MWD. ALIGN BHA. INSTALL MWD.
	19:00 1:00	6.00	DRLINT1	13		P	7,648.0	TIH TO 3,400'. TEST MWD. TIH FILLING DP EVERY 30 STANDS.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
11/16/2012	1:00 2:30	1.50	DRLINT1	07		P	7,618.0	DRILL 7,618' - 7,630'. (HOLE CORRECTION TO 7,618').
	2:30 4:30	2.00	DRLINT1	58		N	7,630.0	DOWNLINK MWD TOOL.
	4:30 6:00	1.50	DRLINT1	07		P	7,630.0	DRILL 7,630' - 7,700'.
	6:00 11:30	5.50	DRLINT1	07		P	7,700.0	DRILLING FROM 7700' TO 7851
	11:30 12:30	1.00	DRLINT1	57		N	7,851.0	TROUBLE SHOOT MWD (MOVED GROUND ROD TO FIX PROBLEM)
	12:30 15:00	2.50	DRLINT1	07		P	7,851.0	DRILLING FROM 7851 TO 7945
	15:00 15:30	0.50	DRLINT1	12		P	7,945.0	RIG SERVICE
11/17/2012	15:30 6:00	14.50	DRLINT1	07		P	7,945.0	DRILLING FROM 7945' TO 8,350'.
	6:00 17:00	11.00	DRLINT1	07		P	8,350.0	DRILLING FROM 8350' TO 8689'.
	17:00 17:30	0.50	DRLINT1	12		P	8,689.0	RIG SERVICE / BOP DRILL.
	17:30 22:30	5.00	DRLINT1	07		P	8,689.0	DRILLING FROM 8689' TO 8,844'.
	22:30 0:00	1.50	DRLINT1	15		P	8,844.0	C&C MUD.
11/18/2012	0:00 6:00	6.00	DRLINT1	13		P	8,844.0	SLUG. WIPER TRIP TO CASING SHOE.
	6:00 7:00	1.00	DRLINT1	13		P	8,844.0	SHORT TRIP FOR LOGS
	7:00 9:00	2.00	DRLINT1	15		P	8,844.0	CIRCULATE AND CONDITION MUD
	9:00 17:30	8.50	DRLINT1	13		P	8,844.0	TRIP OUT FOR LOGS & LD DIRECTIONAL TOOLS.
	17:30 18:00	0.50	DRLINT1	12		P	8,844.0	RIG SERVICE.
11/19/2012	18:00 23:30	5.50	EVLINT1	22		P	8,844.0	SM. RU AND LOG WELL. RUN QUAD COMBO. SET DOWN ON BRIDGE AT 6,137'. LOG WELL UP TO CASING. POOH WITH LOG AND LD. RD LOGGERS.
	23:30 6:00	6.50	EVLINT1	13		P	8,844.0	MU BIT & TIH FILLING EVERY 30 STANDS. (WIPER TRIP). REAMING TIGHT HOLE FROM 6,052"- 6,177'.
	6:00 9:30	3.50	EVLINT1	16		P	8,844.0	CLEAN OUT FOR LOGS. REAMING FROM 6360' TO 6455'. BRIDGE AT 6608'
	9:30 10:00	0.50	EVLINT1	47		N	8,844.0	#1 GENERATOR DOWN. UNABLE TO RUN PUMP AND DRAW WORKS.
	10:00 14:30	4.50	EVLINT1	16		P	8,844.0	WASH AND REAM FROM 6608' TO 6639', 6639' TO 6732'. RUN IN HOLE FROM 6732' TO 7632. WASH BRIDGES FROM 6932' TO 7668'. TRIP IN TO 7729', WASH BRIDGES TO 7761'. TIH FROM 7761' TO 8844'.
	14:30 16:30	2.00	EVLINT1	15		P	8,844.0	CIRCULATE AND CONDITION MUD. BOTTOMS UP GAS 8500 UNITS. RIG DOWN HALLIBURTON TOOLS
11/20/2012	16:30 3:30	11.00	EVLINT1	14		P	8,844.0	MIX TRIP SLUG, LAY DOWN 4-1/2" DRILL PIPE
	3:30 6:00	2.50	EVLINT1	22		P	8,844.0	SM. RU AND LOG WELL. RUN QUAD COMBO. LOGGERS DEPTH 8,850'.
	6:00 8:00	2.00	EVLINT1	22		P	8,844.0	LOGGING WITH HALLIBURTON. RIG DOWN HALLIBURTON
	8:00 0:30	16.50	CASINT1	24		P	8,844.0	RIG UP FRANKS WESTATES, RAN FLOAT SHOE, 1 JOINT OF 7" 29# P-110 LTC CASING, FLOAT COLLAR, 41 JTS. OF CASING, MARKER JT, 156 JOINTS OF CASING, PUP JT, MANDREL, SETTING TOOL, AND LANDING JOINT. TOTAL LENGTH 8842.26 SET AT 8842.26.
	0:30 1:30	1.00	CASINT1	42		P	8,844.0	RIG DOWN CASING CREW. INSTALL LANDING JT.
	1:30 3:00	1.50	CASINT1	15		P	8,844.0	CIRCULATE HOLE, RIG UP HALLIBURTON
	3:00 5:30	2.50	CASINT1	25		P	8,844.0	PJSM WITH HALLIBURTON. CEMENT WITH 50 BBLs. OF FRESH WATER, 468 SKS. (192.5 BBLs.) LEAD 12.0 PPG (13.04 GAL/SK. WATER 2.31 YIELD) 90 SKS. (30 BBLs) TAIL 12.5 PPG (10.35 GAL/SK. 1.91 YIELD) DISPLACED WITH 326.6 BBLs. OF 10.0 PPG DRILLING MUD. BUMPED PLUG AT 05:30. FLOATS HELD.
11/21/2012	5:30 5:30	0.00	CASINT1	42		P	8,844.0	RIG DOWN HALLIBURTON
	6:00 10:30	4.50	CASINT1	42		P	8,844.0	BACK OUT LANDING JOINT, INSTALL BAILS, INSTALL 3-1/2" SAVER SUB, INSTALL PACKOFF AND PRESSURE TEST 5000 PSI / 10 MINUTES.
	10:30 11:00	0.50	CASINT1	42		P	8,844.0	CHANGE DIES IN TOP DRIVE GRABBER

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	11:00 17:30	6.50	CASINT1	30		P	8,844.0	INSTALL TEST PLUG AND PRESSURE TEST 10K BOPE EQUIPMENT. TEST RAMS, ALL VALVES AND CHECK VALVE, KILL LINE, TOP DRIVE VALVE, TIW VALVE, INSIDE BOP. ALL 250 PSI LOW AND 10,000 HIGH. ALL TESTS 10 MINUTES. PRESSURE TEST ANNULAR 250 LOW / 4,000 HIGH, 10 MINUTES EACH TEST. P. TEST CASING 2500 PSI/30 MINUTES.
	17:30 6:00	12.50	CASINT1	14		P	8,844.0	PUMU BIT, BHA & 3 1/2" DP.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9	
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee	
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Alba 1-21C4	
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013514600000	
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE	
		STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA			
TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/10/2012 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Confidential"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. Please change status of this well to confidential.			
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY December 07, 2012			
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst	
SIGNATURE N/A		DATE 12/7/2012	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: Fee	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME:	
8. WELL NAME and NUMBER: Alba 1-21C4	
9. API NUMBER: 43013514600000	
9. FIELD and POOL or WILDCAT: ALTAMONT	
COUNTY: DUCHESNE	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Oil Well
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002
PHONE NUMBER: 713 997-5038 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/15/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Initial Completion"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EP Energy plan to perform initial completion in the Wasatch. Please see attached for details.

Approved by the Utah Division of Oil, Gas and Mining
Date: December 20, 2012
By: *D. K. Quist*

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 12/13/2012	

**Alba 1-21C4
Initial Completion
43013514600000**

The following precautions will be taken until the RCA for the Conover is completed:

1. Review torque turning and running of the 7" and 4 1/2" liner of anomalies.
2. Test and chart casing for 30 minutes, noting pressure if any on surface casing.
3. Test all lubricators, valves and BOP's to working pressure.
4. Wellhead isolation tools will continue to be used to isolate the wellhead during the frac.
5. Monitor the surface casing during frac:
 - a. Lay a flowline to the flow back tank and keep the valve open.
 - b. This line will remain in place until a wire line set retrievable packer is in place isolating the 4 1/2" casing from the 7" after the frac.
6. 2 7/8" tubing will be run to isolate the 7" casing during the flow back of the well.
7. Well pressure and annulus pressure would be monitored during this time until the well is ready for pump.

Completion Information (Wasatch Formation)

- Stage 1: RU WL unit with 10K lubricator and test to 10000 psi with water. Perforations from ~10875' – 11140' with ~5000 gallons of 15% HCL acid, ~3000# of 100 mesh sand and ~125000# Powerprop 20/40.
- Stage 2: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~10860'. Tag CBP. Perforations from ~10566' – 10854' with ~5000 gallons of 15% HCL acid, ~3000# of 100 mesh sand and ~135000# Powerprop 20/40.
- Stage 3: RU WL unit with 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~10550'. Tag CBP. Perforations from ~10235' – 10539' with ~5000 gallons of 15% HCL acid, ~3750# of 100 mesh sand and ~150000# Powerprop 20/40.

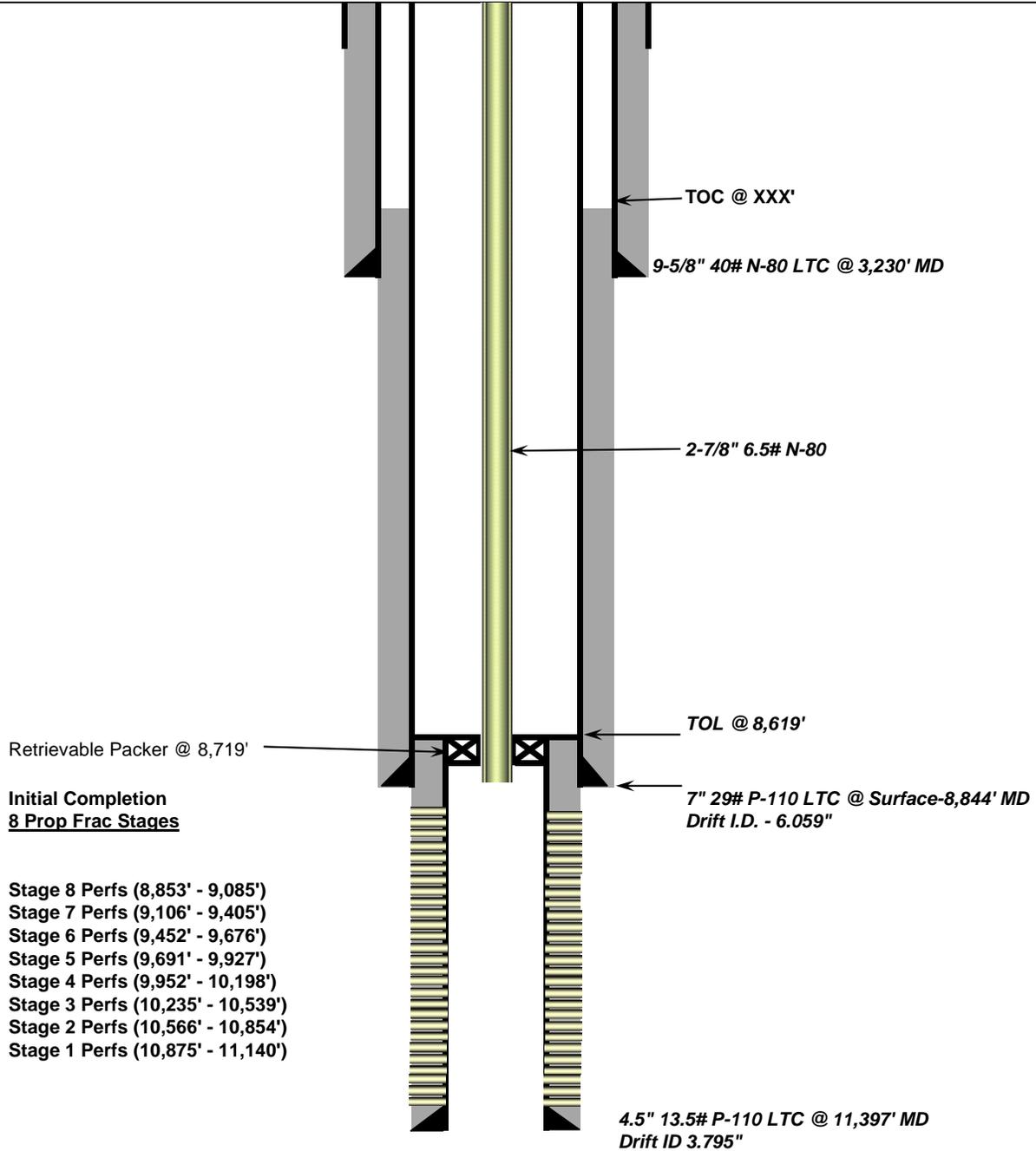
- Stage 4: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~10205'. Tag CBP. Perforations from ~9952' – 10198' with ~5000 gallons of 15% HCL acid, ~3500# of 100 mesh sand and ~145000# Powerprop 20/40.
- Stage 5: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~9935'. Tag CBP. Perforations from ~9691' – 9927' with ~5000 gallons of 15% HCL acid, ~3500# of 100 mesh sand and ~145000# Resin coated Sand 20/40.
- Stage 6: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~9685'. Tag CBP. Perforations from ~9452' – 9676' with ~5000 gallons of 15% HCL acid, ~3000# of 100 mesh sand and ~135000# Resin coated Sand 20/40.
- Stage 7: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~9415'. Tag CBP. Perforations from ~9106' – 9405' with ~5000 gallons of 15% HCL acid, ~3500# of 100 mesh sand and ~155000# Resin coated Sand 20/40.
- Stage8: RU 10K lubricator and test to 10000 psi with water. Set 10K CBP @ ~9095'. Tag CBP. Perforations from ~8853' – 9085' with ~5000 gallons of 15% HCL acid, ~3000# of 100 mesh sand and ~145000# Resin coated Sand 20/40.



Initial Completion Wellbore Schematic

Company Name: EP Energy
Well Name: Alba 1-21C4
Field, County, State: Altamont - Bluebell, Duchesne, Utah
Surface Location: Lat: 40° 12' 41.658" N Long: 110° 20' 08.369" W
Producing Zone(s): Wasatch

Last Updated: XX/XX/2012
By: Peter Schmeltz
TD: 11,397
BHL: _____
Elevation: _____

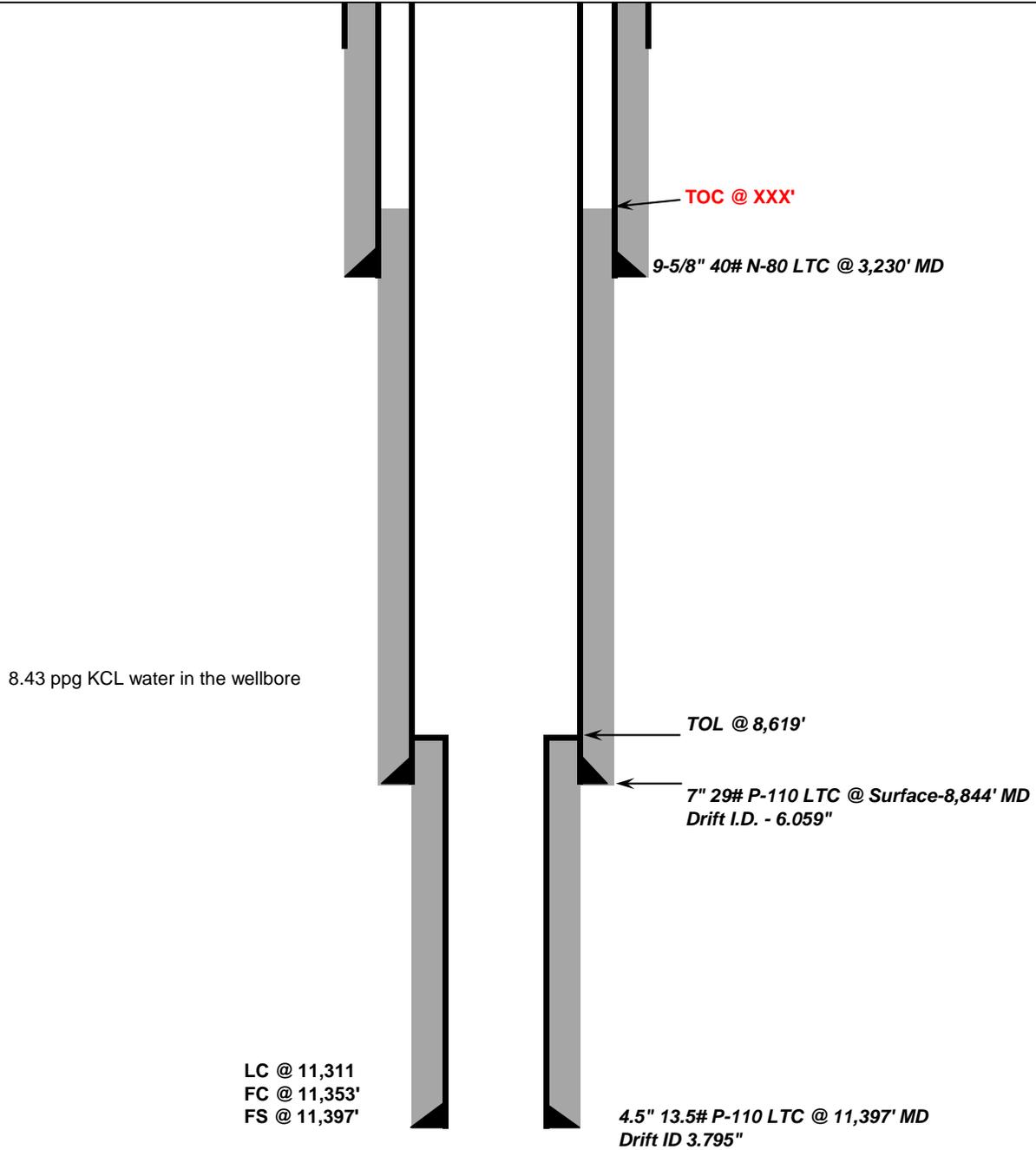




Current Wellbore Schematic

Company Name: EP Energy
Well Name: Alba 1-21C4
Field, County, State: Altamont - Bluebell, Duchesne, Utah
Surface Location: Lat: 40° 12' 41.658" N Long: 110° 20' 08.369" W
Producing Zone(s): Wasatch

Last Updated: 12/3/2012
By: Peter Schmeltz
TD: 11,397
BHL: _____
Elevation: _____



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
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		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/21/2012	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input checked="" type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

EP plans to begin flowback around December 21st or 22nd and finish the complete testing process by January 7, 2013. See attached for details.

**Approved by the
Utah Division of
Oil, Gas and Mining**

Date: December 20, 2012

By: 

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 12/20/2012	

EP Energy requests an additional 30 day period (maximum 50 mmcf) to flare associated gas during well testing on the Alba 1-21C4, as per rules R649-3-20.3.2, R649-3-19-2, R649-3-19-3. The well is the 1st well in Sec. 21, T3S-R4W, Uintah Special Meridian. This section is outside of the Altamont/Bluebell boundary for increased density of up to 4 wells per section. In order to evaluate the reservoir characteristics and development potential in this lightly developed area and the potential to extend the Altamont/Bluebell increased density to the south, a flow test is required to gather data. EP Energy plans on flowing back the well over a 4 to 5 day period until 100% of the load water is recovered. After the well has cleaned up and a stabilized flow rate is established, production tubing will be run in the well with a pressure gauge to take measurements at various choke sizes over a 2-8 day period. After the well test, we plan to flare gas only at levels below the rules requiring special permission from UDOGM. Sustaining a continuous flowing status prior to running the pressure gauge will be critical to the quality of the data we receive. A production log and RA tracer log are scheduled on Jan. 5nd to further analyze the reservoir characteristics in this well.

EP Energy estimate that testing will completed by January 7th.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Oil Well		7. UNIT or CA AGREEMENT NAME:
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.		8. WELL NAME and NUMBER: Alba 1-21C4
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002		9. API NUMBER: 43013514600000
PHONE NUMBER: 713 997-5038 Ext		9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U		COUNTY: DUCHESNE
		STATE: UTAH

11.

CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/5/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Well has been completed and is producing. FINAL REPORT.

**Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
April 18, 2013**

NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 4/5/2013	

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	11:00 17:30	6.50	CASINT1	30		P	8,844.0	INSTALL TEST PLUG AND PRESSURE TEST 10K BOPE EQUIPMENT. TEST RAMS, ALL VALVES AND CHECK VALVE, KILL LINE, TOP DRIVE VALVE, TIW VALVE, INSIDE BOP. ALL 250 PSI LOW AND 10,000 HIGH. ALL TESTS 10 MINUTES. PRESSURE TEST ANNULAR 250 LOW / 4,000 HIGH, 10 MINUTES EACH TEST. P. TEST CASING 2500 PSI/30 MINUTES.
	17:30 6:00	12.50	CASINT1	14		P	8,844.0	PUMU BIT, BHA & 3 1/2" DP.
11/22/2012	6:00 10:30	4.50	DRLPRD	14		P	8,844.0	FINISHED PUMU 3 1/2" DP.
	10:30 12:30	2.00	DRLPRD	12		P	8,844.0	CUT & SLIPPED DRILL LINE. SERVICED RIG & TDU. INSTALLED RH RUBBER.
	12:30 14:00	1.50	CASINT1	32		P	8,844.0	DRILLED PLUG, FLOAT COLLAR, CEMENT, AND FLOAT SHOE AT 8,840'. DRILLED 10' OF NEW HOLE.
	14:00 15:00	1.00	DRLPRD	33		P	8,844.0	C & C 10.0 PPG WBM. PERFORMED 14.4 EMW FIT.
	15:00 6:00	15.00	DRLPRD	07		P	8,844.0	DRILLED 8,844 - 9,082'
	11/23/2012	6:00 15:30	9.50	DRLPRD	07	P	9,082.0	DRILLED 9,082' - 9,292'.
	15:30 16:00	0.50	DRLPRD	12		P	9,292.0	SERVICED RIG AND TOP DRIVE.
11/24/2012	16:00 6:00	14.00	DRLPRD	07		P	9,292.0	DRILLED 9,292' - 9,557'.
	6:00 16:30	10.50	DRLPRD	07		P	9,557.0	DRILLED 9,557' - 9,744'
	16:30 23:00	6.50	DRLPRD	13		P	9,744.0	TOOH. OBSERVED 10K OVERPULL TWICE.
	23:00 4:30	5.50	DRLPRD	13		P	9,744.0	TIH WITH BIT #9. FILLED AT 3,000' INTERVALS.
	4:30 6:00	1.50	DRLPRD	07		P	9,744.0	DRILLED 9,744' - 9,760'.
11/25/2012	6:00 12:00	6.00	DRLPRD	07		P	9,760.0	DRILLED 9,760' - 9,865'.
	12:00 12:30	0.50	DRLPRD	12		P	9,865.0	SERVICED RIG AND TOP DRIVE.
	12:30 6:00	17.50	DRLPRD	07		P	9,865.0	DRILLED 9,865' - 10,247'.
11/26/2012	6:00 11:00	5.00	DRLPRD	07		P	10,247.0	DRILLED 10,247' - 10,341'.
	11:00 11:30	0.50	DRLPRD	12		P	10,341.0	SERVICED RIG AND TOP DRIVE.
	11:30 6:00	18.50	DRLPRD	07		P	10,341.0	DRILLED 10,341' - 10,750'.
11/27/2012	6:00 15:30	9.50	DRLPRD	07		P	10,750.0	DRILLED 10,750' - 11,010'.
	15:30 16:00	0.50	DRLPRD	12		P	11,010.0	SERVICED RIG AND TOP DRIVE.
	16:00 6:00		DRLPRD	07		P	11,010.0	DRILLED 11,010' - 11,240'.
11/28/2012	6:00 9:30	3.50	DRLPRD	07		P	11,240.0	DRILLED 11,240 - 11,297'.
	9:30 10:00	0.50	DRLPRD	12		P	11,297.0	SERVICED RIG & TDU.
	10:00 15:00	5.00	DRLPRD	07		P	11,297.0	DRILLED 11,297 - 11,400' TD.
	15:00 16:30	1.50	DRLPRD	15		P	11,400.0	C & C 11.5 MUD.
	16:30 18:30	2.00	DRLPRD	13		P	11,400.0	TOOH TO SHOE. HOLE SLICK. CHECKED FLOW.
	18:30 19:30	1.00	DRLPRD	13		P	11,400.0	TIH TO 11,400' TD.
	19:30 21:30	2.00	DRLPRD	15		P	11,400.0	C & C MUD.
	21:30 5:00	7.50	DRLPRD	13		P	11,400.0	TOOH. LAID DOWN STABS, NMDC, PONY COLLAR, & BIT.
	5:00 6:00	1.00	EVLPRD	22		P	11,400.0	PJSM. RIG UP HALLIBURTON ELU TRUCK.
11/29/2012	6:00 13:00	7.00	EVLPRD	22		P	11,400.0	1ST RUN LOGGED QUAD-COMBO WITH IDT (TOOL WAS 4 1/2" MAX OD X 84' LONG). 2ND RUN XRM/GR (5" MAX OD X 40' LONG) WOULD NOT GO BELOW 10,280'; LOGGED UP. 241F MAX TEMP RECORDED. RD ELU.
	13:00 14:00	1.00	CASPRD1	12		P	11,400.0	LD ELEVATORS & TOOLS. CLEANED FLOOR. PREPARED TO RU CASING TOOLS.
	14:00 6:00	16.00	CASPRD1	24		P	11,400.0	PJSM. RU FRANK'S WESTSTATE'S CASING TOOLS & TORQUE-TURN. MU FLOAT SHOE, 1 JOINT OF 4 1/2", 13.50#, P-110, LTC CASING, FLOAT COLLAR, 1 JOINT, LANDING COLLAR. RIH WITH LINER. MU HES' STANDARD HANGER. SIH SLOWLY WITH 4 1/2" LINER ON 3 1/2" DP, CBU AT 3,000' INTERVALS.
11/30/2012	6:00 7:30	1.50	CASPRD1	13		P	11,400.0	FINISHED TIH SLOWLY WITH 4 1/2" LINER ON 3 1/2" DP.
	7:30 11:00	3.50	CASPRD1	15		P	11,400.0	RU HES' CEMENT HEAD/MANIFOLD. C & C 11.3 PPG MUD AT 3 BPM, 5' FLARE ON BOTTOMS UP. PJSM WITH HES.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	11:00 12:00	1.00	CASPRD1	25		P	11,400.0	TESTED P & L TO 9,000 PSI. M & P 20 BBLS 11.8 PPG TUNED SPACER. M & P 215 SKS/61 BBLS LINER CEMENT SLURRY AT 12.3 PPG & 1.61 YLD.
	12:00 14:00	2.00	CASPRD1	25		P	11,400.0	RELEASED DP DART. DISPLACED WITH 44 BBLS 2% KCL PLUS 61 BBLS 11.3 WBM. PLUG BUMPED AT 1215 HRS, 11/29/2012 WITH 500 PSI OVER. BLED BACK 1 BBL, FLOATS HELD. DROPPED 1 7/8" BALL, RUPTURED DISC WITH 5,200 PSI. PUMPED 27 BBLS, PRESSURED TO 5,300 PSI & EXPANDED HANGER/PACKER SEALS. PULL TESTED HANGER WITH 100K OVERPULL. SLACKED OFF 70K IN AN ATTEMPT TO SHEAR OFF LINER HANGER. UNABLE TO RELEASE SETTING TOOL...MADE SEVERAL ATTEMPTS. LINER SHOE AT 11,397', TOP AT 8,619', WITH 221' OVERLAP. MARKER JT TOP AT 10,388'.
	14:00 15:30	1.50	CASPRD1	15		P	11,400.0	CIRCULATED BOTTOMS UP WITH 11.3 WBM. CIRCULATED 20 BBLS SPACER & 2 BBLS CEMENT TO SURFACE. WORKED DP IN AN UNSUCCESSFUL ATTEMPT TO RELEASE SETTING TOOL. ORDERED FISHING TOOLS. RD HES CEMENTERS.
	15:30 20:00	4.50	CASPRD1	58		N	11,400.0	TOOK STRETCH READING. WORKED 3 1/2" DP WHILE WAITING ON DCT's RECOVERY TRUCK.
	20:00 23:00	3.00	CASPRD1	54		N	11,400.0	PJSM. RU TRUCK. RIH WITH CCL & 300 GRAIN SHOT ROD. BACKED OFF 3 1/2" DP AT 8,587'WLM/8,572' DPM, LEAVING 1 DP JT ON TOP OF SETTING TOOL. POOH & RD RECOVERY TRUCK.
	23:00 3:00	4.00	CASPRD1	13		N	11,400.0	TOOH WITH DRILL PIPE. LD SHOT JOINT.
	3:00 6:00	3.00	CASPRD1	13		N	11,400.0	TIH WITH SCREW-IN SUB, 3 DCs, NOV HYD DRLG JAR, 6 DCs.
12/1/2012	6:00 8:30	2.50	CASPRD1	58		N	11,400.0	FINISHED TIH WITH JARRING ASSY (SCREW-IN SUB, 3 DCs, NOV HYD DRLG JAR, 6 DCs.)
	8:30 10:30	2.00	CASPRD1	12		N	11,400.0	CBU WHILE SERVICED RIG & TDU. CUT & SLIPPED DRILL LINE.
	10:30 22:00	11.50	CASPRD1	53		N	11,400.0	SCREWED INTO TOF AT 8,579'. REPEATEDLY JARRED DOWN ON SETTING TOOL SETTING SLEEVE IN AN ATTEMPT TO RELEASE FROM HANGER. JARS BECAME WEAK.
	22:00 1:30	3.50	CASPRD1	54		N	11,400.0	PJSM. RU DCT's TRUCK. RIH WITH CCL & 300 GRAIN SHOT ROD. BACKED OFF 3 1/2" SCREW-IN SUB. POOH WITH WL & RD RECOVERY TRUCK.
	1:30 6:00	4.50	CASPRD1	13		N	11,400.0	TOOH WITH JARRING ASSY.
12/2/2012	6:00 7:00	1.00	CASPRD1	13		N	11,400.0	FINISHED TOOH. LD DRLG WORN JAR.
	7:00 13:00	6.00	CASPRD1	58		N	11,400.0	FINISHED TIH WITH JARRING ASSY (3 DCs, NOV HYD DRLG JAR, 9 DCs, NOV INTENSIFIER.)
	13:00 14:00	1.00	CASPRD1	15		N	11,400.0	C & C MUD.
	14:00 20:00	6.00	CASPRD1	53		N	11,400.0	SCREWED INTO TOF AT 8,577'. REPEATEDLY JARRED DOWN ON SETTING TOOL SETTING SLEEVE IN AN ATTEMPT TO RELEASE FROM HANGER.
	20:00 2:00	6.00	CASPRD1	53		N	11,400.0	FISH ROTATED OCCASIONALLY WHEN TORQUED WAS APPLIED. ALTERNATED JARRING & ROTATING UNTIL FISH RELEASED.
	2:00 6:00	4.00	CASPRD1	13		N	11,400.0	TOOH SLOWLY WITH FISH.
12/3/2012	6:00 10:00	4.00	CASPRD1	13		N	11,400.0	FINISHED SLOWLY TOOH WITH SETTING TOOL. LD TOOLS.
	10:00 12:00	2.00	CASPRD1	13		N	11,400.0	TIH WITH DCs PLUS 25 STANDS DP.
	12:00 14:00	2.00	CASPRD1	14		P	11,400.0	LD 75 JOINTS 3 1/2" DP.
	14:00 18:30	4.50	CASPRD1	13		P	11,400.0	TIH WITH 85 STANDS DP.
	18:30 21:00	2.50	CASPRD1	15		P	11,400.0	DISPLACED WBM WITH 2% KCL. CHECKED FLOW.
	21:00 6:00	9.00	CASPRD1	14		P	11,400.0	LD DP.
12/4/2012	6:00 8:00	2.00	CASPRD1	14		P	11,400.0	FINISHED LD DP & BHA.
	8:00 9:00	1.00	CASPRD1	59		P	11,400.0	FLUSHED THROUGH SURFACE LINES. LD RENTAL EQUIPMENT FROM FLOOR.
	9:00 18:00	9.00	CASPRD1	29		P	11,400.0	NIPPLED DOWN 11" 10M BOPE & B-SECTION.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	18:00 19:30	1.50	CASPRD1	27		P	11,400.0	NU TUBING HEAD, FRAC VALVE, WELL CAP, AND TESTED. RIG RELEASED AT 19:30 HRS, 12/03/2012.
	19:30 6:00	10.50	RDMO	02		P	11,400.0	RIGGED DOWN AND PREPARED RIG FOR MOVE TO THE SEELEY 4-3B3. 30% RIGGED DOWN.
12/5/2012	6:00 6:00	0.00	RDMO	02		P	11,400.0	RIGGED DOWN 100%. 15% MOVED.

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1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALBA 1-21C4		
Project	ALTAMONT FIELD	Site	ALBA 1-21C4
Rig Name/No.		Event	COMPLETION LAND
Start Date	12/6/2012	End Date	1/13/2013
Spud Date/Time	11/2/2012	UWI	ALBA 1-21C4
Active Datum	KB @5,917.2ft (above Mean Sea Level)		
Afe No./Description	157763/46935 / ALBA 1-21C4, 157763/46935 / ALBA 1-21C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
12/11/2012	6:00 9:30	3.50	WLWORK	42		P		WAITED FOR WIRELINE
	9:30 12:30	3.00	WLWORK	22		P		1300 CSIP, BLED DOWN PRESSURE FLOW @ 2 BBLS OIL AND WATER. RU WIRELINE RIH W/ 3.625 GR/JB TAGGED @ 10862' RD WIRELINE
	12:30 15:30	3.00	WBP	18		P		RAN FLOW BACK LINES TO FLOW BACK TANKS. SDFN.
12/12/2012	6:00 12:30	6.50	MIRU	28		P		HELD SAFETY MEETING ON MOVING RIG, MOVED RIG FROM THE 1-2B4 TO THE 1-21C4.
	12:30 14:00	1.50	MIRU	01		P		150 CSIP BLED DOWNWELL WHILE RIGGING UP RIG.
	14:00 16:00	2.00	WBP	16		P		ND FRAC VALVE. NU 10 K BOP.
	16:00 17:00	1.00	WBP	18		P		PRESSURE TEST BOP AND CSG TO 3000 PSI FOR 10 MINS NO LOSS. SECURED WELL SDFN.
12/13/2012	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON PU TUBING HELD SAFETY MEETING.
	7:30 17:30	10.00	WBP	39		P		PU AND TALLIED 3 3/4" BIT , 88-JTS 2 3/8, XOVER. AND 101 JTS 2 7/8 N-80 EUE TBG, EOT @ 6012' CIRC WELL W/ 120 BBLS CONTINUE RIH W/ TTL OF 180- JTS 2 7/8 EOT @ 8519' CIRC WELL W/ 80 BBLS NO MUD .CONTIUED RIH 2 3/8 COLLARS HANGING UP ON LT. TO 10514' 243 TTL JTS OF 2 7/8 IN. CIRC WELL W/ 100 BBLS NO MUD. SECURED WELL SDFN.
12/14/2012	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING FILLED OUT JSA.
	7:30 10:30	3.00	PRDHEQ	39				RIH W/ 2 7/8 N-80 TBG TAGGED @ 11306' CIRC WELL W/ 200 BBLS KCL.
	10:30 13:30	3.00	PRDHEQ	39		P		TOOH W/ 268 JTS 2 7/8 L-80 EUE TBG X- OVER AND 88-JTS 2 3/8 N-80 EUE TBG.
	13:30 18:00	4.50	WLWORK	22		P		RU WIRELINE RAN CBL GAMMA RAY W/ CCL. FROM 11306 TO 3000' WWITH 3000 PSI ON CSG. SECURED WELL SDFN.
12/15/2012	6:00 7:30	1.50	WBP	28		P		CREW TRAVEL HELD SAFETY MEETING ON HOT WORK PERMIT. FILLED OUT JSA.
	7:30 8:30	1.00	WBP	18		P		LEVELED WELLHEAD, WELDED WEDGES IN SURFACE CSG.
	8:30 10:30	2.00	WBP	05		P		PUMPED 50 SKS CLASS G CEM BETWEEN THE 13 3/8 AND 9 5/8 CSG.
	10:30 13:30	3.00	WBP	18		P		PRESSURE TEST CSG @ 9000 PSI LOST 100 PSI IN 30 MIN,

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	13:30 17:30	4.00	PRDHEQ	39		P		RIH W/ HALLIBURTONS MILL. AND 272 JTS 2 7/8 N-80 EUE TBG. RU POWER SWIVEL PPOLISH LINER TOP, RD POWER SWIVEL. LD 2- JTS 2 7/8 SECURED WELL SDFN.
12/16/2012	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TBG, FILLED OUT JSA
	7:30 16:30	9.00	PRDHEQ	39		P		TOOH W/ 270 JTS 2 7/8 N-80 EUE TBG AND MILL, RIH W/ 5 3/4 NO-GO AND 270 JTS 2 7/8. LD 170-JTS 2 7/8. EOT @ 3123' SECURED WELL SDFN.
12/17/2012	6:00 7:30	1.50	PRDHEQ	28		P		CREW TRAVEL HELD SAFETY MEETING ON RD RIG FILLED OUT JSA.
	7:30 9:00	1.50	PRDHEQ	39		P		LD 100 JTS 2 7/8 N-80 EUE TBG,
	9:00 10:00	1.00	RDMO	02		P		RD RIG AND MOVED TO THE 1-30B4
	10:00 13:30	3.50	STG01	21		P		RU LONE WOLF PERFORATED STAGE 1 STARTING PRESSURE 1000 PSI FINAL PRESSURE 900.
	13:30 15:30	2.00	MIRU	01		P		MIRU OIL STATES WELLHEAD ISOLATION. SECURED WELL SDFN.
12/18/2012	6:00 6:30	0.50	MIRU	28		P		HELD SAFETY MEETING ON RIGGING UP FRAC EQUIPMENT FILLED OUT JSA
	6:30 12:00	5.50	MIRU	01		P		SPOTTED IN FRAC EQUIPMENT AND RAN LINES.
	12:00 14:00	2.00	STG01	35		P		PRESSURE TEST LINES TO 9302 PSI. SICP 130 PSI. BREAK DOWN STAGE 1 PERFS @4760 PSI, 8.6 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 41.2 BPM, MAX RATE 58.1 BPM, AVG PRESS 4728 PSI . MAX PRESS 7306 PSI. I.S.I.P 4460 PSI F.G. 83. 5 MINUTE 4538 PSI, 10 MINUTE 4327 PSI, 15 MINUTE 4313 PSI .PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 124900 LBS POWERPROP 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 65.8 BPM, MAX RATE 69.7 BPM. AVG PRESS 5767 PSI, MAX PRESS 7506 PSI. I.S.I.P. 4388 PSI F.G. .83. 5 MIN 4263 PSI. 10 MIN 4078 PSI, 15 MIN 3955 SHUT WELL IN. 2931 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	14:00 16:00	2.00	STG02	21		P		MADE 1 PERFORATING RUN SET CBP @ 10863 W/4000 PSI PERFORATED FROM 10854' TO 10566' 21 NET FT 63 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 4000 PSI FINAL PRESSURE 4000 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN #18-NOV-2012. TURNED WELL OVER TO FRAC CREW.
16:00 18:00	2.00	STG02	35		P		PRESSURE TEST LINES TO 8750 PSI. SICP 4380 PSI. BREAK DOWN STAGE 2 PERFS @ 4960 PSI, 10 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 28 BPM, MAX RATE 57 BPM, AVG PRESS 5659 PSI .MAX PRESS 7569 PSI. I.S.I.P 4429 PSI F.G. 86. 5 MINUTE 4413 PSI, 10 MINUTE 4406 PSI, 15 MINUTE 4399 PSI .PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 13800 LBS POWERPROP 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 68.5 BPM, MAX RATE 75.8 BPM. AVG PRESS 5918 PSI, MAX PRESS 7928 PSI. I.S.I.P. 4388 PSI F.G. .83. 5 MIN 4263 PSI. 10 MIN 4078 PSI, 15 MIN 3955 SHUT WELL IN. 3015 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.	
12/19/2012	6:00 7:30	1.50	STG03	28		P		CREW TRAVEL HELD SAFETY MEETING ON WIREINE SAFETY FILLED OUT JSA

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 9:00	1.50	STG03	21		P		MADE 1 PERFORATING RUN SET CBP @ 10555 W/4200 PSI PERFORATED FROM 10539' TO 10235' 21 NET FT 63 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 4200 PSI FINAL PRESSURE 4200 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-NOV-2012. TURNED WELL OVER TO FRAC CREW.
	9:00 11:00	2.00	STG03	35		P		PRESSURE TEST LINES TO 9527 PSI. SICP 4359 PSI. BREAK DOWN STAGE 3 PERFS @ 4935 PSI, @ 8.4 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 28.5 BPM, MAX RATE 58 BPM, AVG PRESS 5557 PSI .MAX PRESS 7338 PSI. I.S.I.P 4438 PSI F.G. 85. 5 MINUTE 4356 PSI, 10 MINUTE 4338 PSI, 15 MINUTE 4334 PSI .PUMPED 3750 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 15000 LBS POWERPROP 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 66.5 BPM, MAX RATE 70.1 BPM. AVG PRESS 5757 PSI, MAX PRESS 7338 PSI. I.S.I.P. 4631 PSI F.G. .87. 5 MIN 4431 PSI. 10 MIN 4392 PSI, 15 MIN 4359 SHUT WELL IN. 3090 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	11:00 13:00	2.00	STG04	21		P		MADE 1 PERFORATING RUN SET CBP @ 10212 W/ 4100 PSI PERFORATED FROM 10198' TO 9952' 23 NET FT 69 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 4100 PSI FINAL PRESSURE 4000 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-NOV-2012. TURNED WELL OVER TO FRAC CREW.
	13:00 14:30	1.50	STG04	35		P		PRESSURE TEST LINES TO 9427 PSI. SICP 4206 PSI. BREAK DOWN STAGE 4 PERFS @ 4839 PSI, @ 11.6 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 33 BPM, MAX RATE 66.5 BPM, AVG PRESS 5685 PSI .MAX PRESS 7181 PSI. I.S.I.P 4270 PSI F.G. 85. 5 MINUTE 4188 PSI, 10 MINUTE 4167 PSI, 15 MINUTE 4152 PSI .PUMPED 3500 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 142260 LBS POWERPROP 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 68 BPM, MAX RATE 70.7 BPM. AVG PRESS 5565 PSI, MAX PRESS 7188 PSI. I.S.I.P. 4216 PSI F.G. .85. 5 MIN 4027 PSI. 10 MIN 3794 PSI, 15 MIN 3608 SHUT WELL IN. 3060 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	14:30 16:30	2.00	STG05	21		P		MADE 1 PERFORATING RUN SET CBP @ 9936 W/ 3900 PSI PERFORATED FROM 9927' TO 9691' 22 NET FT 66 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 3900 PSI FINAL PRESSURE 3900 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-NOV-2012. TURNED WELL OVER TO FRAC CREW.
	16:30 17:30	1.00	STG05	35		P		PRESSURE TEST LINES TO 9427 PSI. SICP 4206 PSI. BREAK DOWN STAGE 5 PERFS @ 4399 PSI, @ 10.4 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 31 BPM, MAX RATE 70 BPM, AVG PRESS 5073 PSI .MAX PRESS 7181 PSI. I.S.I.P 4038 PSI F.G. 84. 5 MINUTE 3944 PSI, 10 MINUTE 3912 PSI, 15 MINUTE 3898 PSI . LOW ON WATER WILL FRAC IN THE MORNING. SECURED WELL SDFN.
12/20/2012	6:00 7:30	1.50	STG05	28		P		. FILLED OUT JSA.CREW TRAVEL HELD SAFETY MEETING ON PUMPING PRESSURE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 9:30	2.00	STG05	35		P		STAGE 5.PUMPED 3500 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 143,00 LBS TEMPERED HS 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 68.9 BPM, MAX RATE 71 BPM. AVG PRESS 6630 PSI, MAX PRESS 7181 PSI. I.S.I.P. 4492 PSI F.G. .89. 5 MIN 4345 PSI. 10 MIN 4267 PSI, 15 MIN 4177 SHUT WELL IN. 2977 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE.
	9:30 13:30	4.00	STG06	21		P		MADE 2 PERFORATING RUNS HAD MISFIRE. SET CBPON FIRST RUN @ 9683 W/ 3500 PSI PERFORATED FROM 9676' TO 9452' 23 NET FT 69 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 3500 PSI FINAL PRESSURE 3500 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-DEC-2012. TURNED WELL OVER TO FRAC CREW.
	13:30 15:30	2.00	STG06	35		P		PRESSURE TEST LINES TO 8950 PSI. SICP 3494 PSI. BREAK DOWN STAGE 6 PERFS @ 5096 PSI, @ 13 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 28.7 BPM, MAX RATE 70.7 BPM, AVG PRESS 5357 PSI .MAX PRESS 7245 PSI. I.S.I.P 3526 PSI F.G. 80. 5 MINUTE 2600 PSI, 10 MINUTE 1826 PSI, 15 MINUTE 1134 PSI .PUMPED 3000 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 134340 LBS TEMPERED HS 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 66.7 BPM, MAX RATE 72 BPM. AVG PRESS 5110 PSI, MAX PRESS 7245 PSI. I.S.I.P. 4077 PSI F.G. .86. 5 MIN 3895 PSI. 10 MIN 3784 PSI, 15 MIN 3684 SHUT WELL IN. 3182 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE
	15:30 21:00	5.50	STG07	21		P		RIH W/ CBP AND GUN . WIREINE HANGING UP, @ 1500', POOH SEEN TRACES OF RUBBER AND ICE ON LINE, LD LUBRICATOR, CHANGED OIL SAVER RUBBER, RIH STILL HANNGING UP, RIH TO 7800'. PULLING OVER COMING OUT FINISHED POOH. LD LUBRICATOR. SECURED WELL SDFN.
12/21/2012	6:00 7:30	1.50	STG07	28		P		CREWW TRAVEL HELD SAFETY MEETING ON PERFORATING FILED OUT JSA
	7:30 11:00	3.50	STG07	21		P		MADE 1PERFORATING RUN. SET CBP @ 9420 W/ 2900 PSI PERFORATED FROM 9405' TO 9106' 23 NET FT 69 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 2900 PSI FINAL PRESSURE 2900PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-DEC-2012. TURNED WELL OVER TO FRAC CREW.
	11:00 13:00	2.00	STG07	35		P		PRESSURE TEST LINES TO 9305PSI. SICP 2947 PSI. BREAK DOWN STAGE 7 PERFS @ 3823 PSI, @ 10.9 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 29.5 BPM, MAX RATE 68.6 BPM, AVG PRESS 4380 PSI .MAX PRESS 5856 PSI. I.S.I.P 3523 PSI F.G. 81. 5 MINUTE 3340 PSI, 10 MINUTE 3262 PSI, 15 MINUTE 3211 PSI .PUMPED 3500 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 154860 LBS TEMPERED HS 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG AND 4PPG STAGES. AVG RATE 68.5 BPM, MAX RATE 73.5 BPM. AVG PRESS 4523 PSI, MAX PRESS 5886 PSI. I.S.I.P. 3930 PSI F.G. .85. 5 MIN 3873. 10 MIN 3830 PSI, 15 MIN 3789 SHUT WELL IN. 3202 BBLS TO RECOVER TURNED WELL OVER TO WIRELINE

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	13:00 15:00	2.00	STG08	21		P		MADE 1PERFORATING RUN. SET CBP @ 9095 W/ 3200 PSI PERFORATED FROM 9085' TO 8853' 23 NET FT 69 SHOTS. USING 2 3/4 GUN 3 SPF 120 DEGREE PHASING W/ 15 GM. STARTING PRESSURE 3200 PSI FINAL PRESSURE 3100 PSI. ALL PERFS CORRELATED TO LONE WOLF WIRELINE CEMENT BOND/GR/CCL RUN # 1 18-DEC-2012. TURNED WELL OVER TO FRAC CREW.
	15:00 15:00	0.00						PRESSURE TEST LINES TO 9420 PSI. SICP 3054 PSI. BREAK DOWN STAGE 8 PERFS @ 3591 PSI, @ 11.2 BPM . TREATED PERFS W/ 5000 GALS 15% HCL ACID.AVG RATE 20 BPM, MAX RATE 69.5 BPM, AVG PRESS 3677 PSI .MAX PRESS 5618 PSI. I.S.I.P2933 PSI F.G. 81. 5 MINUTE 2789 PSI, 10 MINUTE 2697 PSI, 15 MINUTE 2657 PSI .PUMPED 2750 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 90000 LBS TEMPERED HS 20/40 SAND IN 1PPG, 2PPG AND 3 PPG STAGES HAD TROUBLE W/ GEL AND HYDRATION UNIT, WENT TO FLUSH EARLY RAN OUT OF BUFFER. AVG RATE 63 BPM, MAX RATE 69 BPM. AVG PRESS 3397 PSI, MAX PRESS 4367 PSI. I.S.I.P. 3072 PSI F.G. .85. 5 MIN 2882. 10 MIN 2818 PSI, 15 MIN 2767 SHUT WELL IN. 2750 BBLS TO RECOVER. SECURED WELL SDFN.
12/22/2012	6:00 7:30	1.50	STG08	28		P		CREW TRAVEL HELD SAFETY MEETING ON PROPER PPE FILED OUT JSA.
	7:30 10:00	2.50	STG08			P		STARTED EQUIPMENT AND UNLOADED SAND
	7:30 14:30	7.00	WBP	35		P		PRESSURE TEST LINES TO 9445 PSI. SICP 2307 PSI. STAGE 8B.PUMPED 2750 LBS 100 MESH SAND IN 1/2 PPG STAGE AND 55700 LBS TEMPERED HS 20/40 SAND IN 1PPG, 2PPG, 3PPG, 3.5 PPG STAGES. COULD NOT KEEP CROSSLINK WENT TOFLUSH ON 3.5STAGE AVG RATE 60 BPM, MAX RATE 75 BPM. AVG PRESS 4500 PSI, MAX PRESS 6938 PSI. I.S.I.P. 3605 PSI F.G. .83. 5 MIN 3194. 10 MIN 3830 PSI, 15 MIN 3008 SHUT WELL IN. 3202 BBLS TO RECOVER RD EQUIPMENT AND LEFT.
	14:30		WBP	18		P		MOVED IN RU COIL TBG RIH PUMPING 1 BPM INCREASEDRATE @ LT TO 2 .75 BPM DRILLED UP CBP@ 9115, 9436, 9700, 9952, 10229, 10573, 10879, CLEANOUT TO PBTD @11326' CIRCULATE ON BTM FOR 1 HR. AND LT FOR 1 HR, TOO H BLEW COIL DRY RD COIL TURNED WELL OVER TO FLOW BACK 2750 ON 14/ 64 CHOKE. @ 0700,
12/23/2012	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING LINES FOR WASH LEAKS. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		MADE 10 BBLS OIL,1006 BBLS H2O, 2750 PSI ON 14/64 CHOKE
12/24/2012	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON LIGHTING BURNERS FILLED OUT JSA.
	6:30 6:30	0.00						MADE 430 BBLS OIL,1069 BBLS H2O, 2775 PSI ON 14/64 CHOKE
12/25/2012	6:00 7:30	1.50	FB	28		P		HELD SAFETY MEETING ON INSPECTING FACILITY FILLED OUT JSA,
	7:30 6:00	22.50	FB	19		P		MADE 480 BBLS OIL, 761 BBLS H2O, 432 GAS 2550 PSI ON 14/64 CHOKE
12/26/2012	6:00 7:30	1.50	FB	28		P		HELD SAFETY MEETING ON MAKING SURE GAUGES ARE NOT FROZE. FILLED OUT JSA.
	7:30 6:00	22.50	FB	19		P		MADE 581 BBLS OIL, 636 BBLS H2O, 487 GAS 2550 PSI ON 14/64 CHOKE
12/27/2012	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON WIRELINE SAFETY FILLED OUT JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
	7:30 15:00	7.50	WLWORK	27		P		RIH WIRELINE PU PUMP OUT PLUG 4' 2 3/8 J-55 WL PKR. BOP WAS FROZE THAWED OUT BOPSTILL UNABLE TO GET IN WELL. BLED OFF LUBRICATOR AND WIRELINE PARTED, LD LUBRICATOR, REHEADED, PU LUBRICATOR FILLED W/ HOT WATER RIH SET PKR @ 8675' RD WIRELINE,
	15:00 17:00	2.00	MIRU	42		P		WAIT ON RIG. SPOT RIG IN SDFN.
12/28/2012	6:00 7:30	1.50	MIRU	28		P		CREW TRAVEL HELD SAFETY MEETING ON OVER HEAD HAZARDS, FILED OUT JSA.
	7:30 9:00	1.50	MIRU	01		P		MIRU RIG
	9:00 10:30	1.50	MIRU	01		P		SPOTTED IN CATWALK, PIPE RACKS AND TBG.
	10:30 17:00	6.50	INSTUB	24		P		TALLIED AND PU ON OFF TOOL, 5-JTS 2 3/8 N-80 EUE,X-OVER AND 270 JTS 2 7/8 N-80 EUE LATCH ONTO PKR @ 8720' RELEASED FROM PKR, LD 1-JT 2 7/8.
	17:00 20:30	3.50	INSTUB	06		P		RAN PUMP LINES, CIRCULATE WELL W/ 320 BBLS PKR FLUID, SECURED WELL DRAINED PUMP LINES, SDFN.
12/29/2012	6:00 7:30	1.50	INSTUB	28		P		CREW TRAVEL HELD SAFETY MEETING ON ND BOPE. FILLED OUT JSA.
	7:30 10:00	2.50	INSTUB	16		P		OCSIP, 50 TSIP BLED DOWN WELL. SPACED OUT TBG W/ 1-10', 1-4' X 2 7/8 N-80 TBG SUB(TTL 269-JTS 2 7/8 N-80 IN WELL) LATCHED ONTO PKR, RD RIG FLOOR ND BOPE.
	10:00 12:00	2.00	INSTUB	16		P		NU WELLHEAD TREE, PLUMBED IN FLOWLINE W/ PRESSURE MEMORY SENSOR, PUMPED OUT PLUG @ 3800 PSI.
	12:00 15:30	3.50	RDMO			P		RD RIG AND MOVED TO THE 2-22A3 MIRU. TURNED WELL OVER TO FLOW BACK CREW. OPENED WELL ON 14/64 CHOKE W/ 2300 PSI.
12/30/2012	13:00 13:30	0.50	FB	28		P		HELD SAFETY MEETING ON LIGHTING BURNERS.
	13:30 6:00	16.50	FB	19		P		473 BBLS OIL, 459 BBLS WATER, 174 MCF, 2850 PSI ON 14/64 CHOKE.
12/31/2012	6:00 7:30	1.50	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON CHECKING TREATER FILLED OUT JSA.
	7:30 6:00	22.50	FB	19		P		604 BBLS OIL, 481 BBLS WATER, 576 MCF, 2450 PSI ON 14/64 CHOKE.
1/1/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING CHOKES FOR WASHOUT. FILED OUT JSA.
	6:30 6:00	23.50	FB	19		P		631 BBLS OIL, 443 BBLS WATER, 554 MCF, 2575 PSI ON 14/64 CHOKE.
1/2/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON LIGHTING FLARE TUBE FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		709 BBLS OIL, 550 BBLS WATER, 637 ESTIMATED MCF, 2250 PSI ON 16/64 CHOKE.
1/3/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING FACILITIES FOR LEAKS FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		687 BBLS OIL, 548 BBLS WATER, 606 MCF, 2150 PSI ON 16/64 CHOKE.
1/4/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING GAUGES OR NOT FROZE FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		714 BBLS OIL, 555 BBLS WATER, 615 MCF, 2050 PSI ON 16/64 CHOKE.
1/5/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING CHOKES FOR WASH OUT, FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		639 BBLS OIL, 529 BBLS WATER, 577 MCF, 1950 PSI ON 16/64 CHOKE.
1/6/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING LINES FOR LEAKS
	6:30 6:00	23.50	FB	19		P		647 BBLS OIL, 484 BBLS WATER, 588 MCF, 1950 PSI ON 16/64 CHOKE.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD From (ft)	Operation
1/7/2013	6:00 6:30	0.50	FB	19		P		HELD SAFETY ON LIGHTNING FIRE TUBES. FILLED OUT JSA.
	6:30 6:00	23.50	FB	19		P		647 BBLS OIL, 463 BBLS WATER, 599 MCF, 1875 PSI ON 16/64 CHOKE.
1/8/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY ON GRUOND GAUGE TAPE TO TANKS WHILE GET GAUGE FILLED OUT JSA.
	6:30 6:00	23.50	FB	19				643 BBLS OIL, 443 BBLS WATER, 602 MCF, 1850 PSI ON 16/64 CHOKE.
1/9/2013	6:00 6:30	0.50	FB	28		P		HELD SAFETY MEETING ON CHECKING FACILITIES FOR LEAKS FILLED OUT JSA
	6:30 6:00	23.50	FB	19		P		616 BBLS OIL, 428 BBLS WATER, 599 MCF, 1800 PSI ON 16/64 CHOKE.
1/11/2013	6:00 8:00	2.00	FB	19		P		CONTINUE TO FLOW WELL
	8:00 11:30	3.50	SL	32		P		RIG UP SLICK LINE TRUCK AND CUT WAX. RIG DOWN SLICK LINE TRUCK. RIG UP SLICKLINE TRUCK TO TIH TO MAKE TD RUN TO 11,305' FINDING TIGHT SPOT @ 8825'. POOH DIDN'T SEE ANY TIGHT SPOTS PULLING OUT OF HOLE
	11:30 12:00	0.50	SL	18		P		RIG DOWN SLICK LINE TRUCK
	12:00 6:00	18.00	FB	19		P		CONTINUE TO FLOW WELL
1/12/2013	6:00 8:00	2.00	FB	19		P		FLOW WELL AND HOLD JSA ON WORKING AROUND SL TRUCK
	8:00 18:00	10.00	SL	22		P		RIG UP SLICK LINE TRUCK AND MAKE TD RUN TO 11,305'. MAKE UP LOGGING TOOLS AND MAKE A PRODUCTION LOG/ SPECTRASCAN LOG. RIG DOWN SL TRUCKK
	18:00 19:00	1.00	SL	22		P		DOWN LOAD PRODUCTION LOGS. SPECTRASCAN LOG GOOD. PRODUCTION LOG DIDN'T HAVE ALL REQUIRED INFORMATION.
	19:00 6:00	11.00	FB	18		P		CONTINUE TO FLOW WELL
1/13/2013	6:00 8:00	2.00	FB	19		P		FLOW WELL/ HOLD SAFETY MEETING ON RUNNING LOGS ON SLICKLINE/ WORKING WITH PRESSURE) FILL OUT AND REVIEW JSA
	8:00 12:00	4.00	SL	22		P		RIG UP S/L TRUCK AND RUN PRODUCTION LOGS ACCROSS ALL PERFORATIONS. RIG DOWN S/L TRUCK
	12:00 13:00	1.00	SL	22		P		DOWN LOAD PRODUCTION LOGS
	13:00 6:00	17.00	FB	19		P		CONTINUE TO FLOW WELL

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CONFIDENTIAL

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:
EP Energy E&P Company, L.P.

3. ADDRESS OF OPERATOR:
1001 Louisiana CITY Houston STATE TX ZIP 77002

PHONE NUMBER:
(713) 997-5038

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 684' FNL & 1051' FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW: 684' FNL & 1051' FEL
AT TOTAL DEPTH: 684' FNL & 1051' FEL

6. LEASE DESIGNATION AND SERIAL NUMBER:
Fee

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:
Alba 1-21C4

9. API NUMBER:
4301351460

10. FIELD AND POOL, OR WILDCAT
Altamont

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NENE 21 3S 4W U

12. COUNTY
Duchesne

13. STATE
UTAH

14. DATE SPUNDED: 9/10/2012

15. DATE T.D. REACHED: 11/27/2012

16. DATE COMPLETED: 12/21/2012

ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5900'

18. TOTAL DEPTH: MD 11,400
TVD 11,389

19. PLUG BACK T.D.: MD
TVD

21. DEPTH BRIDGE MD
PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
Sonic, Gamma Ray, Resistivity & Neutron Density

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
17.5	13.375 J55	54.5	0	803		G 1,000	1,150	0	
12.25	9.625 N80	40	0	3,230		G 720	1,733	0	
8.75	7" P110	29	0	8,842		G 558	1,253	2960	
6.125	4.5 P110	13.5	8,619	11,397		G 215	346	8619	

26. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2.875	8,725	8,719						

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) Wasatch	8,853	11,140	8,844	11,129
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
10,873 11,140	.38	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
10,566 10,854	.38	63	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
10,235 10,539	.38	63	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
9,952 10,198	.38	69	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. See attached for further information on #27 & #28.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
10873'-11140'	5000 gal acid, 3000# 100 mesh, 124900# 20/40 PowerProp
10566'-10854'	5000 gal acid, 3000# 100 mesh, 138000# 20/40 PowerProp
10235'-10539'	5000 gal acid, 3750# 100 mesh, 150000# 20/40 PowerProp

29. ENCLOSED ATTACHMENTS: All logs are submitted by vendor to UDOGM.

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: Deviation Summary Report

30. WELL STATUS:
Prod

RECEIVED

APR 18 2013

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 12/22/2012		TEST DATE: 12/21/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 700	GAS - MCF: 550	WATER - BBL: 640	PROD. METHOD: Tubing
CHOKE SIZE: 16/64"	TBG. PRESS. 2,500	CSG. PRESS.	API GRAVITY 42.00	BTU - GAS 1,450	GAS/OIL RATIO 786	24 HR PRODUCTION RATES: →	OIL - BBL: 700	GAS - MCF: 550	WATER - BBL: 640	INTERVAL STATUS: Producing

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)
Flared/Sold

33. 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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				Upper Green River	4,023
				Middle Green River	5,664
				Lower Green River	6,976
				Wasatch	8,832

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) María S. Gomez TITLE Prin Regulatory Analyst
 SIGNATURE *María S. Gomez* DATE 4/18/2013

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

Attachment to Well Completion Report

Form 8 Dated April 18, 2013

Well Name: Alba 1-21C4

Items #27 and #28 Continued

27. Perforation Record

Interval (Top/Bottom – MD)	Size	No. of Holes	Perf. Status
9691'-9927'	.38	66	Open
9452'-9676'	.38	69	Open
9106'-9405'	.38	69	Open
8853'-9085'	.38	69	Open

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

Depth Interval	Amount and Type of Material
9952'-10198'	5000 gal acid, 3500# 100 mesh, 142260# 20/40 PowerProp
9691'-9927'	5000 gal acid, 3500# 100 mesh, 143000# 20/40 Tempered HS
9452'-9676'	5000 gal acid, 3000# 100 mesh, 134340# 20/40 Tempered HS
9106'-9405'	5000 gal acid, 3500# 100 mesh, 154860# 20/40 Tempered HS
8853'-9085'	5000 gal acid, 2750# 100 mesh, 172500# 20/40 Tempered HS

CENTRAL DIVISION

ALTAMONT FIELD

ALBA 1-21C4

ALBA 1-21C4

ALBA 1-21C4

Deviation Summary Report

Disclaimer: Although the information contained in this report is based on sound engineering practices, the copyright owner(s) does (do) not accept any responsibility whatsoever, in negligence or otherwise, for any loss or damage arising from the possession or use of the report whether in terms of correctness or otherwise. The application, therefore, by the user of this report or any part thereof, is solely at the user's own risk.

1 General

1.1 Customer Information

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALBA 1-21C4	Wellbore No.	OH
Wellbore Legal Name	ALBA 1-21C4	Common Wellbore Name	ALBA 1-21C4
Project	ALTAMONT FIELD	Site	ALBA 1-21C4
Vertical Section Azimuth	0.00 (°)	North Reference	True
Origin N/S	0.0 (ft)	Origin E/W	0.0 (ft)
Spud Date/Time	11/2/2012	UWI	ALBA 1-21C4
Active Datum	KB @5,917.2ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	PROPETRO SERVICES INC
Started	9/15/2012	Ended	9/16/2012
Tool Name	MMS	Engineer	El Paso

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.0	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
9/15/2012	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
9/15/2012	NORMAL	280.0	0.48	41.89	280.0	0.87	0.78	0.87	0.17	0.17	0.00	41.89
	NORMAL	580.0	0.56	273.78	580.0	1.91	0.16	1.91	0.31	0.03	-42.70	-151.91
	NORMAL	820.0	0.39	164.25	820.0	1.20	-0.79	1.20	0.33	-0.07	-45.64	-151.97

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	El Paso
Started	11/9/2012	Ended	
Tool Name		Engineer	El Paso

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
0.0	0.00	0.00	0.0	0.00	0.00

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Buld (°/100ft)	Turn (°/100ft)	TFace (°)
11/9/2012	Tie On	0.0	0.00	0.00	0.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/9/2012	NORMAL	820.0	0.00	0.00	820.0	0.00	0.00	0.00	0.00	0.00	0.00	0.00
	NORMAL	861.0	0.20	52.80	861.0	0.04	0.06	0.04	0.49	0.49	0.00	52.80
	NORMAL	1,014.0	0.00	135.50	1,014.0	0.20	0.27	0.20	0.13	-0.13	0.00	180.00
	NORMAL	1,109.0	0.00	309.90	1,109.0	0.20	0.27	0.20	0.00	0.00	0.00	309.90
	NORMAL	1,390.0	0.40	264.80	1,390.0	0.12	-0.71	0.12	0.14	0.14	0.00	264.80
	NORMAL	1,578.0	0.50	234.50	1,578.0	-0.42	-2.03	-0.42	0.14	0.05	-16.12	-82.84
	NORMAL	1,672.0	0.50	236.50	1,672.0	-0.88	-2.70	-0.88	0.02	0.00	2.13	91.00
	NORMAL	1,855.0	0.80	212.60	1,855.0	-2.40	-4.06	-2.40	0.22	0.16	-13.06	-54.47
	NORMAL	1,948.0	1.10	210.50	1,948.0	-3.72	-4.86	-3.72	0.32	0.32	-2.26	-7.67
	NORMAL	2,040.0	1.50	225.80	2,039.9	-5.32	-6.17	-5.32	0.57	0.43	16.63	48.77
	NORMAL	2,227.0	1.70	218.40	2,226.9	-9.20	-9.65	-9.20	0.15	0.11	-3.96	-49.67
	NORMAL	2,414.0	1.70	196.90	2,413.8	-14.03	-12.18	-14.03	0.34	0.00	-11.50	-100.75
	NORMAL	2,694.0	2.10	191.10	2,693.6	-23.03	-14.37	-23.03	0.16	0.14	-2.07	-28.59
	NORMAL	2,882.0	2.80	186.60	2,881.5	-30.98	-15.57	-30.98	0.39	0.37	-2.39	-17.62
	NORMAL	2,971.0	3.10	184.20	2,970.3	-35.54	-15.99	-35.54	0.36	0.34	-2.70	-23.58
	NORMAL	3,066.0	3.50	185.00	3,065.2	-40.99	-16.43	-40.99	0.42	0.42	0.84	6.97
	NORMAL	3,160.0	3.60	185.90	3,159.0	-46.78	-16.99	-46.78	0.12	0.11	0.96	29.58

2.3 Survey Name: Survey #3

Survey Name	Survey #3	Company	RYAN SERVICES INC
Started	11/9/2012	Ended	
Tool Name	MWD	Engineer	El Paso

2.3.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
3,160.0	3.60	185.90	3,159.0	-46.78	-16.99

2.3.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Buld (°/100ft)	Turn (°/100ft)	TFace (°)
11/9/2012	Tie On	3,160.0	3.60	185.90	3,159.0	-46.78	-16.99	-46.78	0.00	0.00	0.00	0.00
11/9/2012	NORMAL	3,240.0	3.69	190.67	3,238.8	-51.81	-17.72	-51.81	0.40	0.11	5.96	75.86
	NORMAL	3,333.0	2.59	185.71	3,331.7	-56.84	-18.48	-56.84	1.22	-1.18	-5.33	-168.59
	NORMAL	3,426.0	2.02	150.99	3,424.6	-60.36	-17.90	-60.36	1.59	-0.61	-37.33	-128.93
	NORMAL	3,519.0	1.58	114.21	3,517.6	-62.32	-15.93	-62.32	1.30	-0.47	-39.55	-128.57
	NORMAL	3,613.0	1.19	53.70	3,611.6	-62.28	-13.97	-62.28	1.53	-0.41	-64.37	-133.82
	NORMAL	3,706.0	1.89	60.99	3,704.5	-60.96	-11.85	-60.96	0.78	0.75	7.84	19.30
	NORMAL	3,799.0	1.01	1.58	3,797.5	-59.40	-10.48	-59.40	1.75	-0.95	-63.88	-147.71
	NORMAL	3,892.0	1.71	331.39	3,890.5	-57.36	-11.12	-57.36	1.05	0.75	-32.46	-61.43
	NORMAL	3,986.0	1.10	337.10	3,984.5	-55.30	-12.15	-55.30	0.67	-0.65	6.07	169.92
	NORMAL	4,079.0	1.01	337.41	4,077.4	-53.72	-12.81	-53.72	0.10	-0.10	0.33	176.53
	NORMAL	4,172.0	1.19	349.80	4,170.4	-52.01	-13.29	-52.01	0.32	0.19	13.32	59.18
	NORMAL	4,265.0	1.58	8.48	4,263.4	-49.79	-13.28	-49.79	0.64	0.42	20.09	58.77
	NORMAL	4,358.0	1.71	6.90	4,356.4	-47.15	-12.92	-47.15	0.15	0.14	-1.70	-20.02
	NORMAL	4,451.0	1.71	7.60	4,449.3	-44.40	-12.57	-44.40	0.02	0.00	0.75	90.35
	NORMAL	4,544.0	2.20	10.81	4,542.3	-41.27	-12.05	-41.27	0.54	0.53	3.45	14.21
	NORMAL	4,637.0	2.11	11.99	4,635.2	-37.84	-11.36	-37.84	0.11	-0.10	1.27	154.34
	NORMAL	4,731.0	2.81	5.97	4,729.1	-33.85	-10.76	-33.85	0.79	0.74	-6.40	-23.29
	NORMAL	4,824.0	1.58	349.89	4,822.0	-30.32	-10.75	-30.32	1.47	-1.32	-17.29	-161.29
	NORMAL	4,917.0	1.89	350.37	4,915.0	-27.55	-11.23	-27.55	0.33	0.33	0.52	2.92
	NORMAL	5,010.0	1.41	359.21	5,008.0	-24.89	-11.50	-24.89	0.58	-0.52	9.51	156.43

2.3.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/9/2012	NORMAL	5,103.0	1.71	359.29	5,100.9	-22.36	-11.54	-22.36	0.32	0.32	0.09	0.46
	NORMAL	5,196.0	1.80	0.08	5,193.9	-19.51	-11.55	-19.51	0.10	0.10	0.85	15.44
	NORMAL	5,289.0	1.10	333.19	5,286.9	-17.26	-11.95	-17.26	1.03	-0.75	-28.91	-148.72
	NORMAL	5,382.0	1.01	284.59	5,379.8	-16.25	-13.15	-16.25	0.94	-0.10	-52.26	-119.69
	NORMAL	5,475.0	1.01	222.10	5,472.8	-16.66	-14.49	-16.66	1.13	0.00	-67.19	-121.24
	NORMAL	5,568.0	0.88	201.88	5,565.8	-17.93	-15.31	-17.93	0.38	-0.14	-21.74	-121.20
	NORMAL	5,662.0	0.79	219.99	5,659.8	-19.09	-15.99	-19.09	0.30	-0.10	19.27	117.74
	NORMAL	5,755.0	0.70	230.01	5,752.8	-19.95	-16.84	-19.95	0.17	-0.10	10.77	129.58
	NORMAL	5,941.0	1.71	195.60	5,938.8	-23.35	-18.46	-23.35	0.64	0.54	-18.50	-53.66
	NORMAL	6,034.0	2.02	189.49	6,031.7	-26.31	-19.10	-26.31	0.40	0.33	-6.57	-35.76
	NORMAL	6,127.0	2.20	190.10	6,124.6	-29.68	-19.68	-29.68	0.20	0.19	0.66	7.42
	NORMAL	6,220.0	2.42	193.00	6,217.6	-33.35	-20.44	-33.35	0.27	0.24	3.12	29.44
	NORMAL	6,314.0	1.49	195.29	6,311.5	-36.46	-21.21	-36.46	0.99	-0.99	2.44	176.34
	NORMAL	6,407.0	1.89	203.99	6,404.5	-39.03	-22.15	-39.03	0.51	0.43	9.35	37.08
	NORMAL	6,500.0	2.68	205.88	6,497.4	-42.39	-23.72	-42.39	0.85	0.85	2.03	6.39
	NORMAL	6,592.0	2.99	195.99	6,589.3	-46.63	-25.32	-46.63	0.63	0.34	-10.75	-62.64
11/10/2012	NORMAL	6,684.0	2.29	194.19	6,681.2	-50.72	-26.43	-50.72	0.77	-0.76	-1.96	-174.14
	NORMAL	6,778.0	0.48	218.89	6,775.2	-52.84	-27.14	-52.84	1.98	-1.93	26.28	173.82
11/14/2012	NORMAL	7,569.0	7.91	178.90	7,563.5	-109.92	-28.18	-109.92	0.95	0.94	-5.06	-42.32
11/15/2012	NORMAL	7,617.0	8.00	178.11	7,611.1	-116.56	-28.00	-116.56	0.30	0.19	-1.65	-50.93
	NORMAL	7,710.0	6.50	182.59	7,703.3	-128.29	-28.03	-128.29	1.72	-1.61	4.82	161.56
	NORMAL	7,803.0	5.58	185.71	7,795.8	-138.05	-28.72	-138.05	1.05	-0.99	3.35	161.91
	NORMAL	7,896.0	4.92	185.58	7,888.4	-146.52	-29.55	-146.52	0.71	-0.71	-0.14	-179.03
	NORMAL	7,990.0	4.09	198.98	7,982.1	-153.70	-31.04	-153.70	1.42	-0.88	14.26	134.81
	NORMAL	8,083.0	3.78	201.88	8,074.9	-159.68	-33.26	-159.68	0.40	-0.33	3.12	148.74
	NORMAL	8,176.0	3.60	200.21	8,167.7	-165.27	-35.41	-165.27	0.23	-0.19	-1.80	-149.99
	NORMAL	8,269.0	3.52	206.50	8,260.5	-170.56	-37.69	-170.56	0.43	-0.09	6.76	104.70
11/16/2012	NORMAL	8,362.0	2.81	210.67	8,353.4	-175.08	-40.13	-175.08	0.80	-0.76	4.48	164.11
	NORMAL	8,456.0	3.30	193.49	8,447.3	-179.69	-41.93	-179.69	1.10	0.52	-18.28	-70.60
	NORMAL	8,549.0	3.30	191.99	8,540.1	-184.91	-43.12	-184.91	0.09	0.00	-1.61	-90.75
	NORMAL	8,642.0	2.50	200.87	8,633.0	-189.42	-44.39	-189.42	0.98	-0.86	9.55	155.07
	NORMAL	8,735.0	2.02	215.50	8,725.9	-192.65	-46.07	-192.65	0.80	-0.52	15.73	136.92
	NORMAL	8,797.0	2.11	227.50	8,787.9	-194.31	-47.54	-194.31	0.71	0.15	19.35	84.28

2.4 Survey Name: Survey #4

Survey Name	Survey #4	Company	NAVIGATE ENERGY SERVICES
Started	11/21/2012	Ended	
Tool Name	MWD	Engineer	El Paso

2.4.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
8,797.0	2.11	227.50	8,787.9	-194.31	-47.54

2.4.2 Survey Stations

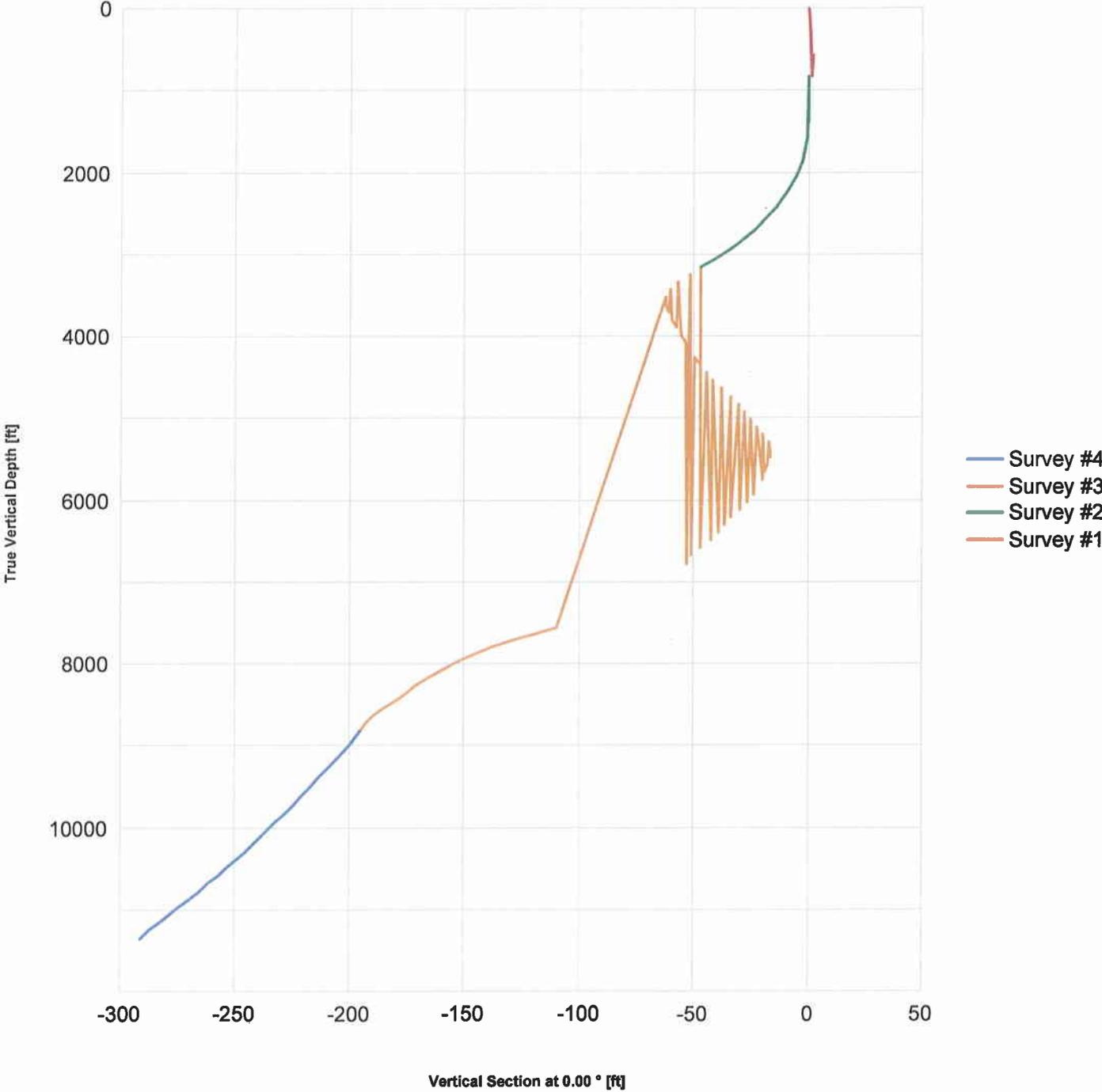
Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/21/2012	Tie On	8,797.0	2.11	227.50	8,787.9	-194.31	-47.54	-194.31	0.00	0.00	0.00	0.00
11/21/2012	NORMAL	9,004.0	2.20	216.30	8,994.7	-200.09	-52.71	-200.09	0.21	0.04	-5.41	-83.57
11/22/2012	NORMAL	9,258.0	2.20	207.00	9,248.5	-208.36	-57.81	-208.36	0.14	0.00	-3.66	-94.65
	NORMAL	9,410.0	2.10	202.10	9,400.4	-213.54	-60.18	-213.54	0.14	-0.07	-3.22	-120.98
11/23/2012	NORMAL	9,545.0	2.10	209.70	9,535.3	-217.98	-62.33	-217.98	0.21	0.00	5.63	93.80
	NORMAL	9,640.0	2.20	202.60	9,630.3	-221.18	-63.90	-221.18	0.30	0.11	-7.47	-72.99

2.4.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
11/23/2012	NORMAL	9,735.0	2.20	199.70	9,725.2	-224.58	-65.21	-224.58	0.12	0.00	-3.05	-91.45
11/24/2012	NORMAL	9,830.0	2.20	191.80	9,820.1	-228.08	-66.20	-228.08	0.32	0.00	-8.32	-93.95
	NORMAL	9,927.0	2.10	196.60	9,917.1	-231.61	-67.09	-231.61	0.21	-0.10	4.95	121.43
	NORMAL	10,022.0	2.10	194.60	10,012.0	-234.96	-68.02	-234.96	0.08	0.00	-2.11	-91.00
	NORMAL	10,118.0	2.20	189.90	10,107.9	-238.48	-68.78	-238.48	0.21	0.10	-4.90	-62.80
11/25/2012	NORMAL	10,214.0	2.40	191.40	10,203.9	-242.26	-69.50	-242.26	0.22	0.21	1.56	17.50
	NORMAL	10,306.0	2.20	195.50	10,295.8	-245.85	-70.35	-245.85	0.28	-0.22	4.46	142.59
	NORMAL	10,403.0	2.40	189.50	10,392.7	-249.65	-71.18	-249.65	0.32	0.21	-6.19	-53.31
	NORMAL	10,500.0	2.20	193.70	10,489.6	-253.46	-71.96	-253.46	0.27	-0.21	4.33	141.96
	NORMAL	10,594.0	2.50	193.80	10,583.6	-257.21	-72.88	-257.21	0.32	0.32	0.11	0.83
11/26/2012	NORMAL	10,690.0	2.50	191.40	10,679.5	-261.29	-73.79	-261.29	0.11	0.00	-2.50	-91.20
	NORMAL	10,787.0	2.50	188.60	10,776.4	-265.46	-74.52	-265.46	0.13	0.00	-2.89	-91.40
	NORMAL	10,881.0	2.60	185.10	10,870.3	-269.61	-75.02	-269.61	0.20	0.11	-3.72	-59.05
	NORMAL	10,976.0	2.60	178.10	10,965.2	-273.91	-75.14	-273.91	0.33	0.00	-7.37	-93.50
	NORMAL	11,073.0	2.60	180.10	11,062.1	-278.31	-75.07	-278.31	0.09	0.00	2.06	91.00
11/27/2012	NORMAL	11,166.0	2.40	184.30	11,155.0	-282.36	-75.22	-282.36	0.29	-0.22	4.52	139.60
	NORMAL	11,263.0	2.50	183.70	11,251.9	-286.49	-75.51	-286.49	0.11	0.10	-0.62	-14.69
	NORMAL	11,357.0	2.70	177.50	11,345.8	-290.75	-75.55	-290.75	0.37	0.21	-6.60	-57.71

3 Charts

3.1 Vertical Section View



3.2 Plan View

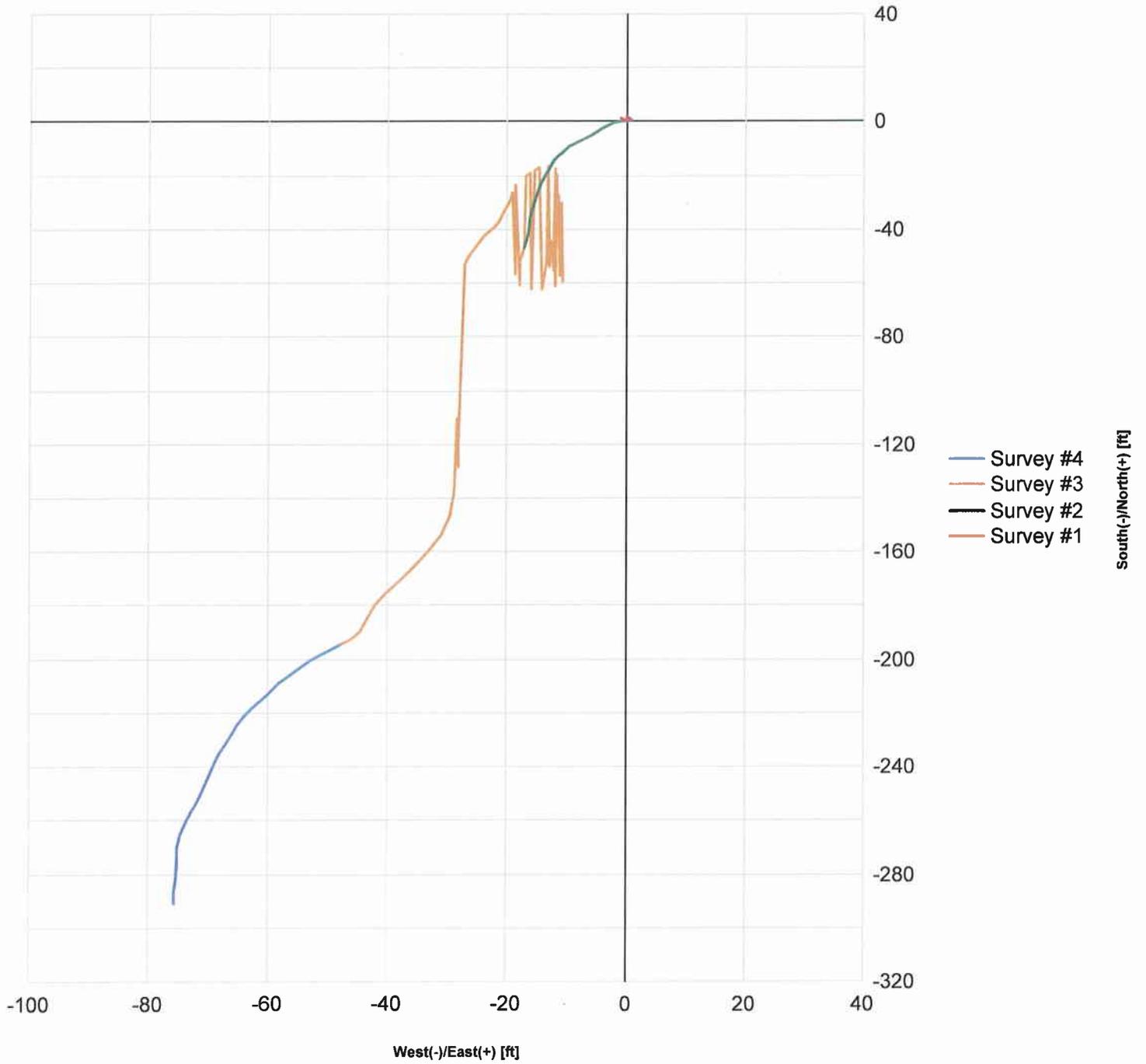


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STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Alba 1-21C4	
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013514600000	
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5038 Ext	9. FIELD and POOL or WILDCAT: ALTAMONT
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U	COUNTY: DUCHESNE	
	STATE: UTAH	
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 11/22/2015 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="Routine"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
Downsize & deepen. See attached for details.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY January 19, 2016		
NAME (PLEASE PRINT) Maria S. Gomez	PHONE NUMBER 713 997-5038	TITLE Principal Regulatory Analyst
SIGNATURE N/A	DATE 1/13/2016	

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALBA 1-21C4		
Project	ALTAMONT FIELD	Site	ALBA 1-21C4
Rig Name/No.	PEAK/2500/	Event	WORKOVER LAND
Start date	11/17/2015	End date	11/23/2015
Spud Date/Time	11/2/2012	UWI	ALBA 1-21C4
Active datum	KB @5,917.2ft (above Mean Sea Level)		
Afe No./Description	165890/55703 / ALBA 1-21C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/18/2015	10:00 12:30	2.50	MIRU	01		P		MOVE FROM 1-31Z2, HSM SLIDING ROTAFLEX, & R/U RIG HOT OILER PUMP 100 BBLS 2% KCL @ 200 DEG DOWN CSG, R/U TO TBG FILL W/ 12 BBLS 2% KCL, PUMP 1000# @ 1/4 BBLS MIN, SLOW BLEED OFF R/U TO CSG CONT PUMPING 2% KCL @ 200 DEG
	12:30 15:00	2.50	WOR	18		P		L/D 1 1/2" X 40' POLISH ROD, P/U 1-1" WORK ROD, ATTEMPT TO UNSEAT PUMP FOR 2 HRS, NO LUCK, BACK OFF RODS, WEIGHING 12K, L/D 1-1" WORK ROD, 1" EL PONY RODS 1-2', 1-4'
	15:00 17:30	2.50	WOR	39		P		POOH W/ 91-1" EL RODS, 113-7/8" EL RODS, 10-3/4" EL RODS TO BACK OFF @ 5350'(HAD TO TIGHTEN SEVERAL RODS THAT WERE PARTIALLY BACKED OFF) TBG SHUT IN, CSG TO SALES, SDFN. 2% KCL PUMPED = 260 BBLS DIESEL USED = 84 GAL PROPANE USED = 350 GAL
11/19/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON WIRELINE SAFETY. FILL OUT & REVIEW JSA
	7:30 8:30	1.00	WOR	21		P		RU WIRELINE UNIT. RIH & PERF TBG @ 5360'. POOH & RD WIRELINE UNIT
	8:30 9:00	0.50	WOR	06		P		FLUSH TBG W/ 70 BBLS 2% KCL WTR
	9:00 10:00	1.00	WOR	16		P		ND WELL HEAD. NU BOP
	10:00 17:30	7.50	WOR	39		P		RU TUBOSCOPE TBG SCANNING EQUIPMENT. SCAN OUT OF HOLE W/ 53 JTS TBG WHEN SCANNING EQUIPMENT FAILED. RD TUBOSCOPE EQUIPMENT. CALL FOR & WAIT ON DELSCO/SAVAGE TBG SCANNERS. RIH W/ TBG THAT WAS SCANNED BY TUBOSCOPE. RU DELSCO/ SAVAGE SCANNING EQUIPMENT. TOOH W/ 124 JTS 2-7/8"EUE TBG, FINDING 67 JTS YELLOW BAND & 57 JTS LAID DOWN THAT WERE RED OR BLUE BAND TBG. SDFN

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity	Sub	OP Code	MD from (ft)	Operation
11/20/2015	6:00 7:30	1.50	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON SCANNING TBG. FILL OUT & REVIEW JSA.
	7:30 16:00	8.50	WOR	39		P		CONTINUE SCANNING RODS & TBG OUT OFHOLE. FOUND SEVERAL TBG COLLARS THAT WERE WORN FLAT ON THE OUTSIDE & TBG COLLAR ON TOP OF JT # 200 WAS WORN INTO THREADS & LEAKING. TAC WAS SHEARED & BOW SPRINGS WORN FLAT. STABILIZER PONY ROD ON TOP OF PUMP WAS BENT. RD TBG SCANNING EQUIPMENT
	16:00 17:00	1.00	WOR	18		P		RU E LINE UNIT. RIH & TAG PBTD @ 11213'. POOH & DR E LINE UNIT.
	17:00 17:30	0.50	WOR	39		P		TIH W/ 40 JTS KILL STRING. SDFN
11/21/2015	6:00 7:30	1.50	WOR	28		P		CT HOLD SAFETY MTG ON PU TBG & PINCH POINTS WRITE & REVIEW JSA'S
	7:30 8:00	0.50	WOR	39		P		TOOH & STAND BACK IN DERRICK W/ 40 JTS 2-7/8" EUE L-80 TBG
	8:00 10:30	2.50	WOR	24		P		TALLY PU & RIH W/ 2-3/8" BULL PLUG, 2 JTS 2-3/8" EUE YB TBG, 2-3/8" DESANDER, 4' X 2-3/8" EUE N-80 TBG SUB, 2-3/8" P.S.N., 4 JTS 2-3/8" EUE YB TBG, 1/4 TURN PKR TYPE TAC, 78 JTS 2-3/8" EUE YB TBG & 2-7/8" X 2-3/8" EUE X OVER
	10:30 14:30	4.00	WOR	39		P		RU HYDRO TEST EQUIP, RIH OUT OF DERRICK HYDRO TESTING 113 JTS 2-7/8" EUE L-80 TBG TO 8500 PSI
	14:30 16:00	1.50	WOR	24		P		TALLY PREP & P.U. NEW 2-7/8" EUE N-80 TBG SUB, 70 JTS NEW 2-7/8" EUE L-80 TK 900 TBG & NEW 2-7/8" EUE N-80 2' TBG SUB
	16:00 18:00	2.00	WOR	39		P		RIH & TEST 46 JTS 2-7/8" EUE L-80 TBG OUT OF DERRICK TO 8500 PSI, RD HYDRO TEST EQUIP, SECURE WELL & SDFN
11/22/2015	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) NIPPLE DOWN BOPS
	7:00 9:00	2.00	PRDHEQ	39		P		bled off well, TALLEY & P/U 30 JTS 2 7/8" Y.B. FROM TUBOSCOPE, SET 5" 1/4 TURN TAC (KLX) IN 23,000 LBS TEN.
	9:00 11:00	2.00	PRDHEQ	16		P		R/D TONGS & WORK FLOOR, N/D 5K BOPS & 5K X 10K SPOOL, N/U 10K B-FLANGE, 60' CAPSTRING & FLOW LINES
	11:00 12:00	1.00	PRDHEQ	06		P		R/U HOT OILER, FLUSH TBG W/ 70 BBLS 2% KCL & 10 GALS CORR. CHEM.
	12:00 17:00	5.00	PRDHEQ	39		P		P/U & PRIME 2" X 1 1/4" X 40' HF PUMP, RIH W/ PUMP & NEW ROD STAR DESIGN, P/U 16 - 1 1/2" WEIGHT BARS, 100 NEW 3/4" SHG RODS, RIH CHECKING ALL BREAKS ON RODS IN DERRICK W/ 107-3/4" W/G, P/U 24 NEW 3/4" RODS, RUN 113-7/8", L/D TOP 15-7/8", RUN 90-1" RODS, SECURE WELL, SDFN.
11/23/2015	6:00 7:00	1.00	PRDHEQ	28		P		CREW TRAVEL HSM WRITE & REVIEW JSA (TOPIC) PRESSURE TESTING. FLUSH TBG W/ 60 BBLS HOT 2% KCL
	7:00 8:00	1.00	PRDHEQ	39		P		FINISH RIH W/ 6-1" RODS, SPACE OUT RODS W/ 2', 4', 8' PONY SUBS, P/U NEW POLISH ROD SEAT PUMP @ 10,906'
	8:00 8:45	0.75	PRDHEQ	18		P		FILL TBG W/ 27 BBLS 2% KCL, STROKE TEST PUMP TO 1000 PSI, GOOD TEST, FLUSH FLOW LINE W/ 15 HOT BBLS 2%
	8:45 10:00	1.25	RDMO	02		P		RDMO RIG, SLIDE IN ROTA FLEX, HANG OFF RODS, START UNIT TWOTO.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: Fee
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Oil Well	8. WELL NAME and NUMBER: Alba 1-21C4
2. NAME OF OPERATOR: EP ENERGY E&P COMPANY, L.P.	9. API NUMBER: 43013514600000
3. ADDRESS OF OPERATOR: 1001 Louisiana , Houston, TX, 77002	PHONE NUMBER: 713 997-5138 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0684 FNL 1051 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 21 Township: 03.0S Range: 04.0W Meridian: U	9. FIELD and POOL or WILDCAT: ALTAMONT
	COUNTY: DUCHESNE
	STATE: UTAH

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 10/7/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Please find attached the proposed recompletion procedure along with current and post WBD's.

Approved by the
 September 19, 2016
 Oil, Gas and Mining

Date: _____

By: *Derek Duff*

NAME (PLEASE PRINT) Linda Renken	PHONE NUMBER 713 997-5138	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 9/15/2016	

Alba 1-21 C4 - Recom Summary Procedure

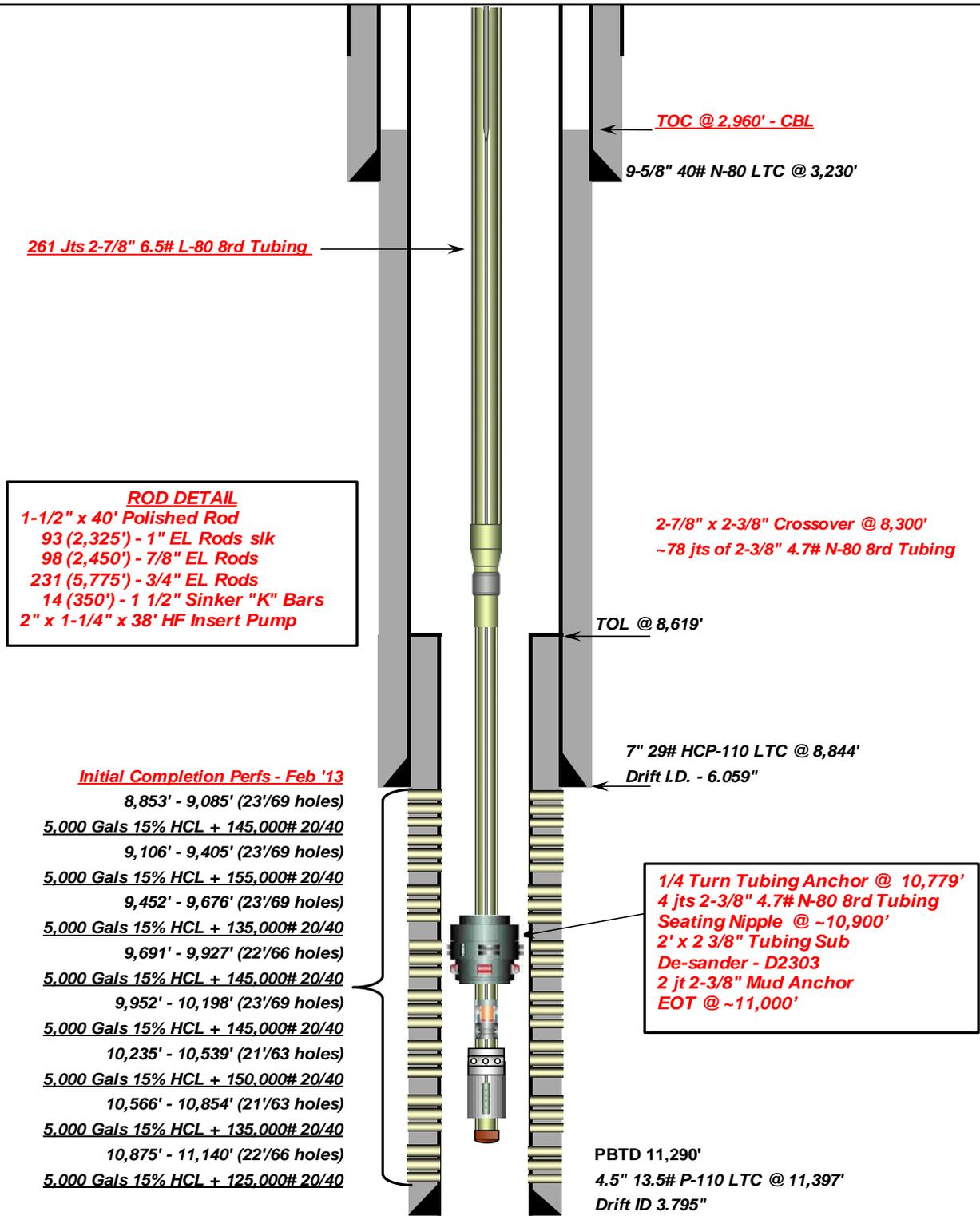
- POOH with co-rod, pump & tubing. Inspect/Repair/Re-furbish as needed. Replace any bad tubing and joints of rods.
- Set 15k CBP for 5" 18# casing @ 8,830' w/ 15' cement dump bailed on plug. Test casing to frac pressure.
- Stage 1:
 - Perforate new CP 70 interval from **8,675' - 8,710'**.
 - Acid Frac Perforations with **6,500** gals 15% HCl acid (Stage 1 Recom).
- Stage 2:
 - RIH with 7" CBP & set @ **8,435'**.
 - Perforate new LGR interval from **8,235' - 8,420'**.
 - Acid Frac Perforations with **18,000** gals 15% HCl acid (Stage 2 Recom).
- Stage 3:
 - RIH with 7" CBP & set @ **8,162'**.
 - Perforate new LGR interval from **8,087' - 8,147'**.
 - Acid Frac Perforations with **7,000** gals 15% HCl acid (Stage 3 Recom).
- Stage 4:
 - RIH with 7" CBP & set @ **8,015'**.
 - Perforate new LGR interval from **7,845' - 8,000'**.
 - Prop Frac perforations with **90,000** lbs 30/50 prop (w/ **6,000** lbs 100 mesh & **6,500** gals 15% HCl acid) (Stage 4 Recom).
- Stage 5:
 - RIH with 7" CBP & set @ **7,760'**.
 - Perforate new LGR interval from **7,665' - 7,745'**.
 - Acid Frac Perforations with **9,000** gals 15% HCl acid (Stage 5 Recom).
- Clean out well drilling up (4) 7" CBPs at 7,760', 8,015', 8,162' and 8,435', leaving cement and 5" 15k CBP @ 8,830' w/ 15' CMT. Top perf BELOW plugs @ 8,853'.
- RIH w/ production tubing and rods.
- Clean location and resume production.



Current Pumping Schematic

Company Name: EP Energy
 Well Name: Alba 1-21C4
 Field, County, State: Altamont - Bluebell, Duchesne, Utah
 Surface Location: Lat: 40° 12' 41.658" N Long: 110° 20' 08.369" W
 Producing Zone(s): Wasatch

Last Updated: November 14, 2015
 By: Medina
 TD: 11,397
 NHOW: 18,000#
 PICK UP: 28"



ROD DETAIL
 1-1/2" x 40' Polished Rod
 93 (2,325') - 1" EL Rods slk
 98 (2,450') - 7/8" EL Rods
 231 (5,775') - 3/4" EL Rods
 14 (350') - 1 1/2" Sinker "K" Bars
 2" x 1-1/4" x 38' HF Insert Pump

Initial Completion Perfs - Feb '13

- 8,853' - 9,085' (23'/69 holes)
5,000 Gals 15% HCL + 145,000# 20/40
- 9,106' - 9,405' (23'/69 holes)
5,000 Gals 15% HCL + 155,000# 20/40
- 9,452' - 9,676' (23'/69 holes)
5,000 Gals 15% HCL + 135,000# 20/40
- 9,691' - 9,927' (22'/66 holes)
5,000 Gals 15% HCL + 145,000# 20/40
- 9,952' - 10,198' (23'/69 holes)
5,000 Gals 15% HCL + 145,000# 20/40
- 10,235' - 10,539' (21'/63 holes)
5,000 Gals 15% HCL + 150,000# 20/40
- 10,566' - 10,854' (21'/63 holes)
5,000 Gals 15% HCL + 135,000# 20/40
- 10,875' - 11,140' (22'/66 holes)
5,000 Gals 15% HCL + 125,000# 20/40

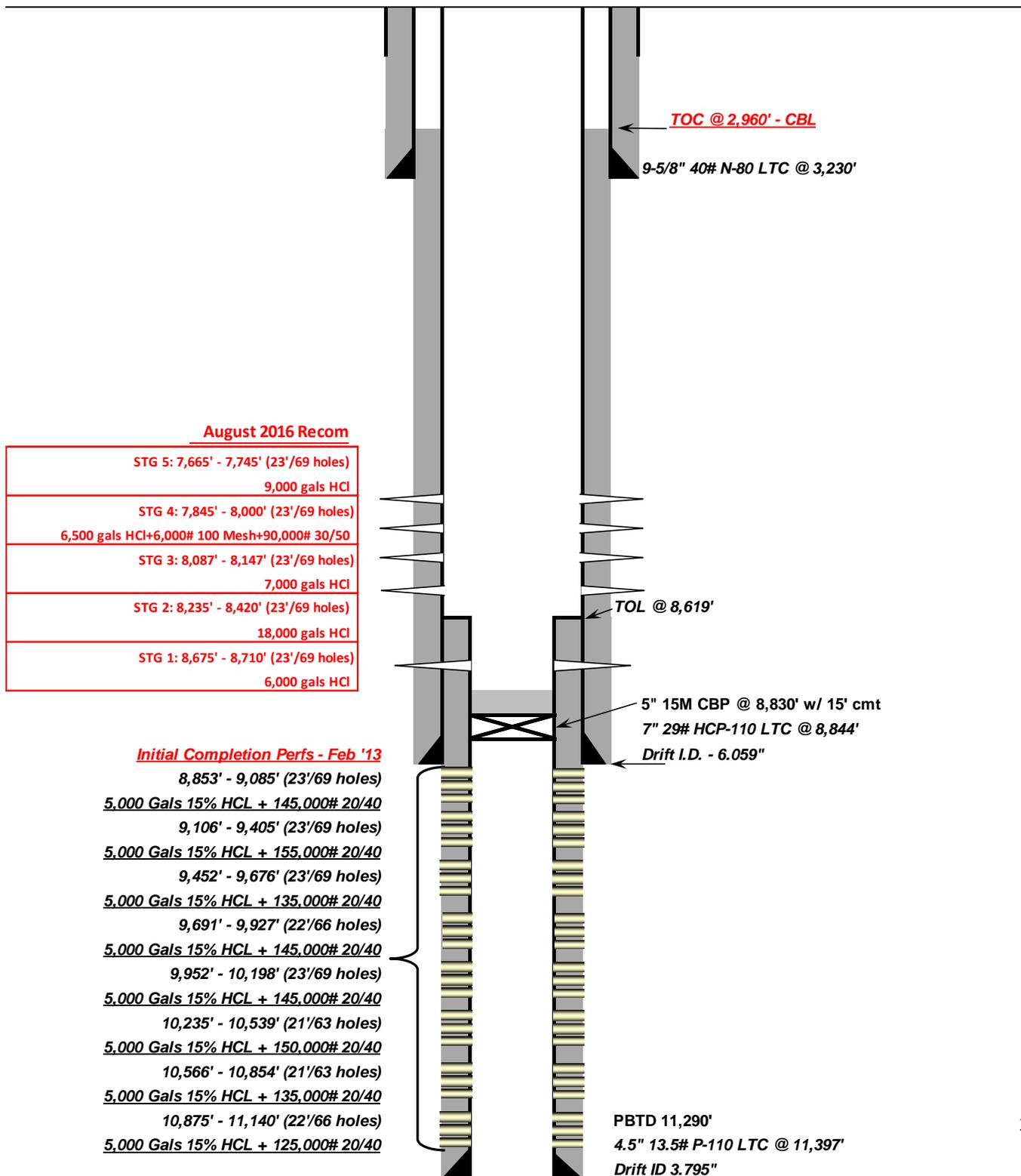
1/4 Turn Tubing Anchor @ 10,779'
 4 jts 2-3/8" 4.7# N-80 8rd Tubing
 Seating Nipple @ ~10,900'
 2' x 2 3/8" Tubing Sub
 De-sander - D2303
 2 jt 2-3/8" Mud Anchor
 EOT @ ~11,000'



Proposed Recom Schematic

Company Name: **EP Energy**
 Well Name: **Alba 1-21C4**
 Field, County, State: **Altamont - Bluebell, Duchesne, Utah**
 Surface Location: **Lat: 40° 12' 41.658" N Long: 110° 20' 08.369" W**
 Producing Zone(s): **Wasatch**

Last Updated: **September 14, 2016**
 By: **Fondren**
 TD: **11,397**
 NHOW: **18,000#**
 PICK UP: **28"**



August 2016 Recom

STG 5: 7,665' - 7,745' (23'/69 holes)	9,000 gals HCl
STG 4: 7,845' - 8,000' (23'/69 holes)	6,500 gals HCl + 6,000# 100 Mesh + 90,000# 30/50
STG 3: 8,087' - 8,147' (23'/69 holes)	7,000 gals HCl
STG 2: 8,235' - 8,420' (23'/69 holes)	18,000 gals HCl
STG 1: 8,675' - 8,710' (23'/69 holes)	6,000 gals HCl

Initial Completion Perfs - Feb '13

- 8,853' - 9,085' (23'/69 holes)
5,000 Gals 15% HCL + 145,000# 20/40
- 9,106' - 9,405' (23'/69 holes)
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- 9,452' - 9,676' (23'/69 holes)
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- 10,235' - 10,539' (21'/63 holes)
5,000 Gals 15% HCL + 150,000# 20/40
- 10,566' - 10,854' (21'/63 holes)
5,000 Gals 15% HCL + 135,000# 20/40
- 10,875' - 11,140' (22'/66 holes)
5,000 Gals 15% HCL + 125,000# 20/40

STATE OF UTAH
DEPARTMENT OF NATURAL RESOURCES
DIVISION OF OIL, GAS AND MINING

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME

8. WELL NAME and NUMBER:

9. API NUMBER:

10 FIELD AND POOL, OR WILDCAT

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:

U . S . B . & M .

12. COUNTY

13. STATE

UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

2. NAME OF OPERATOR:

3. ADDRESS OF OPERATOR: CITY STATE ZIP PHONE NUMBER:

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE:

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

14. DATE SPUDDED: 15. DATE T.D. REACHED: 16. DATE COMPLETED: ABANDONED READY TO PRODUCE 17. ELEVATIONS (DF, RKB, RT, GL):

18. TOTAL DEPTH: MD TVD 19. PLUG BACK T.D.: MD TVD 20. IF MULTIPLE COMPLETIONS, HOW MANY? * 21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each) 23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A)				
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL

29. ENCLOSED ATTACHMENTS:

- ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL B (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL C (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

INTERVAL D (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. 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.

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)

35. ADDITIONAL REMARKS (Include plugging procedure)

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) _____ TITLE _____

SIGNATURE _____ DATE _____

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top – Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

1 General**1.1 Customer Information**

Company	CENTRAL DIVISION
Representative	
Address	

1.2 Well Information

Well	ALBA 1-21C4		
Project	ALTAMONT FIELD	Site	ALBA 1-21C4
Rig Name/No.		Event	RECOMPLETE LAND
Start date	10/11/2016	End date	11/28/2016
Spud Date/Time	11/2/2012	UWI	ALBA 1-21C4
Active datum	KB @5,917.2ft (above Mean Sea Level)		
Afe No./Description	167266/57074 / ALBA 1-21C4		

2 Summary**2.1 Operation Summary**

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
10/8/2016	6:00 7:00	1.00	MIRU	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 11:59	4.98	MIRU	01		P		SLIDE UNIT. RU PEAK 1500
	9:00 10:30	1.50	WOR	06		P		WORK PUMP OFF SEAT. FLUSH RODS & TBG W/ 75 BBLS 2% KCL WTR
	10:30 13:30	3.00	WOR	39		P		TOOH W/ 90 1" RODS, 98 7/8" RODS, 231 3/4" RODS (LD 158 FOR NEW ROD STAR), 14 WEIGHT RODS & PUMP
	13:30 15:30	2.00	WOR	16		P		ND WELL HEAD. LAND TBG ON TBG HANGER W/ 6' X 2-7/8"EUE PUP JT & 4' X 2-7/8"EUE PERFORATED PUP JT BELOW TBG HANGER. INSTALL 2 WAY CHECK VALVE IN TBG HANGER. NU & TEST BOP.
	15:30 18:00	2.50	WOR	39		P		RELEASE 1/4 TURN ANCHOR. RU TBG SCANNING EQUIPMENT. TOOH SCANNING 76 JTS 2-7/8" L-80 EUE TBG, 70 JTS 2-7/8" TK 900 TBG & 29 JTS 2-7/8" L-80 EUE TBG. LAND TBG ON TBG HANGER (BARRIER 1), CLOSE PIPE RAMS BARRIER 2) INSTALL TIW VALVE IN TBG CLOSED & CAPPED (BARRIERS 1 & 2) & CSG VALVES CLOSED & CAPPED (BARRIERS 1 & 2). SDFN
10/9/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
10/10/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY TODAY. SHUT DOWN FOR WEEKEND
10/11/2016	6:00 8:00	2.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	8:00 11:30	3.50	WOR	39		P		CONTINUE TOOH SCANNING 84 JTS 2-7/8"EUE TBG, X-OVER & 10 JTS 2-3/8"EUE TBG. RD TBG SCANNING EQUIPMENT. CONTINUE TOOH LAYING DOWN 68 JTS 2-3/8"EUE, 1/4 TURN TBG ANCHOR, 4 JTS 2-3/8"EUE TBG, SEAT NIPPLE, 4' X 2-3/8" EUEPUP JT, 2-3/8" #3 DESANDER, 2 JTS 2-3/8"EUE TBG (FULL OF SAND), & BULL PLUG.
	11:30 14:30	3.00	WOR	27		P		RU WIRELINE UNIT. RIH W/ 6.02" OD GUAGE RING TO LINER TOP @ 8827'. POOH. RIH W/ 3.742 OD GUAGE RING TO 8854'. SET DOWN @ 8854', TOP PERF 8853'. POOH. RIH & SET 15K CBP @ 8830'. POOH W/ SETTING TOOL. DUMP BAIL 15' CMT ON CBP. RD WIRELINE UNIT
	14:30 16:00	1.50	WOR	18		P		FILL CSG W/ 265 BBLS 2% KCL WTR. SDFN
10/12/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 8:30	1.50	WOR	16		P		INSTALL TBG HANGER W/ 2 WAY CHECK VALVE IN TBG HEAD. ND BOP. NU FRAC VALVE & TEST TO 8500 PSI.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	8:30 11:30	3.00	WOR	18		P		PRESSURE UP ON CSG TO 3500 PSI W/ HOT OILER. RU WEATHERFORD TEST UNIT. PRESSURE UP TO 3900 PSI. PUMP 200 GALLONS WTR @ 3900 PSI. COULD NOT GET PRESSURE ABOVE 3900 PSI. RU HOT OILER. PRESSURE HAD DROPPED TO 2500 PSI IN APPROXIMATELY 5 MINUTES. PRESSURE UP TO 4000 PSI W/ HOT OILER. INJECT 7 BBLs, PUMPING .70 BPM @ 4000 PSI. STOPPED PUMPING. PRESSURE DROPPED TO 3000 PSI IN 3 MINUTES. PRESSURE CONTINUED TO FALL TO 2500 PSI THEN REMAINED THERE FOR 30 MINUTES. REPORT RESULTS.
	11:30 13:00	1.50	WOR	18		P		RU WIRELINE UNIT. RIH & SET DOWN ON CMT @ 8812' (CBP SET @ 8830'). POOH & RD WIRELINE UNIT.
	13:00 14:00	1.00	WOR	16		P		ORDER & WAIT ON 10K BOP TO ARRIVE ON LOCATION
	14:00 16:30	2.50	WOR	16		P		NU10K BOP ON TOP OF 10K FRAC VALVE. TEST BLIND RAMS TO 8500 PSI. TESTED GOOD. PIPE RAM TEST FAILED. ORDER & WAIT ON PIPE RAMS. INSTALL & TEST PIPE RAMS. REMOVE 2 WAY CHECK VALVE & TBG HANGER
	16:30 19:30	3.00	WOR	39		P		TIH W/ KLX 7" PKR, 2-7/8"EUE SEAT NIPPLE & 120 JTS 2-7/8"EUE TBG HYDROTESTING TO 8500 PSI. SDFN W/ PIPE RAMS CLOSED & LOCKED, TIW VALVE INSTALLED IN TBG CLOSED & CAPPED & CSG VALVES CLOSED & CAPPED
10/13/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 11:00	4.00	WOR	39		P		CONTINUE TIH W/ 148 JTS 2-7/8"EUE TBG, HYDROTESTING TO 8500 PSI
	11:00 12:30	1.50	WOR	18		P		TAG LINER TOP & PICK UP 27'. SET PKR @ 8600'. PRESSURE TEST DOWN TBG TO 8000 PSI FOR 30 MINUTES. TESTED GOOD. PRESSURE UP ON ANNULUS. INJECTING .70 BPM @ 4000 PSI.
	12:30 16:30	4.00	WOR	18		P		TOOH ISOLATING CSG LEAK TO 5330' TO 5363'. SDFN W/ PIPE RAMS CLOSED & LOCKED, CSG VALVES CLOSED & CAPPED & TIW VALVE INSTALLED IN TBG, CLOSED & CAPPED
10/14/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 9:00	2.00	WOR	18		P		PRESSURE TEST & CHART ANNULUS TO 5000 PSI W/ PKR SET @ 5330' FOR 15 MINUTES. TESTED GOOD. PUMP DOWN TBG @ 1/2 BPM @ 3500 PSI. PRESSURE BLEED TO 2500 PSI WHEN PUMP WAS KICKED OUT. RELEASE PKR. SET PKR @ 5363'. PUMP DOWN TBG. PKR FAILED. RELEASE PKR. SET PKR @ 5395'. ATTEMPT TO TEST CSG BELOW PKR. PKR FAILED
	9:00 10:30	1.50	WOR	39		P		TOOH W/ 169 JTS 2-7/8"EUE TBG, SEAT NIPPLE & PKR.
	10:30 13:00	2.50	WOR	44		P		WAIT ON ORDERS
	13:00 18:00	5.00	WOR	39		P		TIH W/ 100 JTS 2-7/8"EUE TBG. TOOH LAYING DOWN 100 JTS 2-7/8"EUE TBG. TIH W/ SOLID NO/GO, 4' X 2-7/8"EUE PUP JT, 104 JTS 2-7/8"EUE TBG, 2' X 2-7/8"EUE PUP JT, 70 JTS 2-7/8" TK-900 TBG, 2' X 2-7/8"EUE PUP JT & 65 JTS 2-7/8"EUE TBG.
	18:00 18:00	0.00	WOR	16		P		LAND TBG. ND BOP. REMOVE TBG HANGER. LAND TBG ON B-FLANGE. NU WELLHEAD
10/15/2016	6:00 7:00	1.00	WOR	28		P		TRAVEL TO LOCATION. HOLD SAFETY MEETING ON DAILY OPERATIONS. FILL OUT & REVIEW JSA
	7:00 10:00	3.00	WOR	39		P		RIH W/ ROD STRING
	10:00 11:00	1.00	RDMO	02		P		RDMOL
10/25/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON MOVING RIG. FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	MIRU	01		P		MOVE RIG FROM 6-20C4 TO 1-21C4 MIRU.
	9:00 11:00	2.00	WOR	39		P		TOOH W/ 87-1", 95-7/8" AND 73-3/4" RODS.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	11:00 13:00	2.00	WOR	16		P		ND WELLHEAD, TEMPORALLY LANDED TBG W/ PERFORATED SUB AND HANGER W/ TWC. NU 5M BOP AND ANNULAR. PRESSURE TESTED 4000 PSI HIGH AND 250 LOW.
	13:00 13:00	0.00	WOR	39		P		TOOH W/ 65-JTS 2 7/8 L-80 EUE TBG, 2' 2 7/8 N-80 EUE TBG SUB. 70-JTS 2 7/8 TK-900 L-80 EUE TBG, 2' 2 7/8 N-80 EUE TBG SUB. 104-JTS 2 7/8 L-80 EUE TBG, 4' 2 7/8 PERFORATED N-80 EUE TBG SUB AND 5 3/4 NO-GO. CSG BARRIER 1 FLUID, BARRIER 2 BLIND RAMS, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
10/26/2016	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON WIRELINE SAFETY. FILLED OUT AND REVIEWED JSA.
	7:30 11:30	4.00	WLWORK	27		P		RU WIRELINE PRESSURE TEST LUBRICATOR AND BOP @ 350 PSI HELD. RIH SET ARROWSET 7" X 4" PKR AT 6000'. PULLED OUT. RD WIRELINE.
	11:30 12:30	1.00	WOR	16		P		CHANGED OUT PIPE RAMS INSTALLED 4 1/2" RAMS. PRESSURE TEST @ 4000 PSI HIGH AND 250 PSI LOW. SDFN.
10/27/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL. HELD SAFETY MEETING ON DRIFTING CSG. FILLED OUT AND REVIEWED JSA.
	7:30 18:30	11.00	WOR	24		P		STARTED CLEANING, INSPECTING AND DRIFTING 4 1/2" TBG W/ 3.833 DRIFT. RU WEATHERFORD TONGS. PU SEAL ASSEMBLY AND QN NIPPLE WITH PLUG IN PLACE. RIH TESTING @ 4000 PSI. EVERY 30 JTS. AFTER 60 JTS STARTED TESTING @ 7500 PSI. RAN TTL 126 JTS 4 1/2 P-110 EUE TBG. EOT 3986'. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS. BARRIER 2 ANNULAR, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
10/28/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 12:00	4.50	WOR	39		P		0 TSIP, 0 CSIP. RIH W/ 30-JTS 4 1/2 P-110 EUE TBG. PRESSEURE TEST TBG @ 7500 PSI. CONTIUED RIH W/ 36-JTS 4 1/2 P-110 TBG 9' IN ON JT # 191@ 6011' TBG TALLY. LATCHED ON TO PKR RELEASED FROM PKR NEED 26' SUBS, HAVE 18'. EOT @ 6003'. PRESSURE TEST TBG # 7500 PSI FOR 15 MINS HELD. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS. BARRIER 2 ANNULAR, TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
10/29/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
10/30/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
10/31/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
11/1/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
11/2/2016	6:00 9:00	3.00	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING, PRESSURE TESTING TUBING. FILLED OUT AND REVIEWED JSA.
	9:00 16:00	7.00	WOR	42		P		0 TSIP, 0 CSIP. OPENED WELL. LD 1-JT 4 1/2 P-110 EUE TBG, WAIT ON 4 1/2 TUBING SUBS.
	16:00 18:00	2.00	WOR	39		P		PU 1-8' 4 1/2 EUE TBG SUB, X-OVER, 1-6' 1-4' 4 1/2 BTS-8 TBG SUB, X-OVER, 1-4' 4 1/2 EUE X BUTTRESS TBG SUB, TBG HANGER W/ BUTTRESS THREADS, 1-4' 4 1/2 BUTTRESS X EUE SUB, 1-4' 4 1/2 EUE TBG SUB. LANDED TBG W/ 55K COMPRESSION, . PRESSURE TEST @ 7500 PSI 3 TIMES LOST 100 PSI IN 10 MINS. CLOSED IN WELL, CSG BARRIER 1 TBG HANGER, BARRIER 2 ANNULAR. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/3/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING TUBING. FILLED OUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:30 9:00	1.50	WOR	18		P		0 TSIP, 0 CSIP. OPENED WELL. RELEASED FROM PKR, PULLED UP HOLE 30'. PRESSURE TEST TBG. @ 7500 PSI LOST 200 PSI IN 10 MINS, TOP THREADS ON HANGER WAS LEAKING, TIGHTENED SUB, PRESSURE TEST TBG. HANGER STILL LEAKING. .
	9:00 14:00	5.00	WOR	16		P		STUNG INTO PKR. LANDED TBG, INSTALLED TWC, ND BOP AND ANNULAR, NU X-OVER FLANGE, AND 5 1/8 10M FRAC VALVE REMOVED TWC. NU NIGHT CAP. PRESURE TEST TBG @ 7500 PSI LOST 200 PSI IN 10 MINS. PRESSURE TESTED 3 TIMES SAME LEAK.
	14:00 16:30	2.50	WOR	16		P		ND NIGHT CAP, INSTALLED TWC. ND FRAC VALVE AND FLANGE. NU BOP AND ANNULAR. REMOVED TWC. RU RIG FLOOR AND CASING TONGS. RELEASED FROM PKR. LD HANGER AND SUBS. 189-JTS 4 1/2 P-110 EUE TBG IN WELL. PRESSURE TEST TBG @ 7500 PSI. LOST 200 PSI IN 10 MINS,
	16:30 18:30	2.00	WOR	39		P		TOOH W/ 40-JTS 4 1/2 P-110 EUE TBG, EOT TBG @ 4711', PRESSURE TEST TBG @ 7500 PSI STILL LEAKING. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/4/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 16:00	8.50	WOR	39		P		0 TSIP, 0 CSIP. OPENED WELL. TOOH W/ 40-JTS 4 1/2 P-110 EUE TBG 109-JTS IN EOT @ 3451'. PRESSURE TEST @ 7500 PSI LOST 200 PSI IN 10 MINS. TOOH W/ 40-JTS 4 1/2 P-110 EUE TBG. 69-JTS IN EOT @ 2197'. PRESSURE TEST @ 7500 PSI LOST 200 PSI IN 10 MINS. TOOH W/ 40-JTS 4 1/2 P-110 EUE TBG 29-JTS IN EOT @ 929'. PRESSURE TEST @ 7500 PSI LOST 200 PSI IN 10 MINS. TOOH W/ 28-JTS 4 1/2 P-110 EUE TBG 1-JTS IN. PRESSURE TEST QN PLUG AND NIPPLE @ 7500 PSI TESTED GOOD. LD SEAL ASSEMBLY. RIH W/ 10-JTS 4 1/2 EUE TBG THAT WERE GAULDED LAID THEM DOWN. LD A TTL 21-JTS OF 4 1/2 EUE P-110 TBG THAT WAS GAULDED. GAULDED 3 1/2" X-OVER ON 3 1/2 TIW. SDFN WAITING ON X-OVER. CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 BLIND RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/5/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 17:30	10.00	WOR	39		P		0 TSIP, 0 CSIP. OPENED WELL. PU SEAL ASSEMBLY QN NIPPLE, PLUG AND 1-JT 4 1/2 P-110 EUE TBG. PRESSURE TEST @ 7500 PSI FOR 10 MINS HELD. RIH W/ 14-JTS 4 1/2 P-110 EUE TBG EOT @ 486' PRESSURE TEST @ 7500 PSI HELD. RIH W/ 15-JTS 4 1/2 P-110 EUE TBG (TTL 30 JTS) EOT @ 486' PRESSURE TEST @ 7500 PSI FOR 10 MINS HELD. RIH W/ 30-JTS 4 1/2 P-110 EUE TBG (TTL 60 JTS) EOT @ 1907' PRESSURE TEST @ 7500 PSI LOST 200 PSI IN 5 MIN TRIED TESTING 3 TIMES. TOOH W/ 15-JTS 4 1/2 P-110 EUE TBG (TTL 45 JTS) EOT @ 1433' PRESSURE TEST @ 7500 PSI FOR 10 MINS HELD. RIH W/ 8-JTS 4 1/2 P-110 EUE TBG (TTL 53 JTS) EOT @ 1687' PRESSURE TEST @ 7500 PSI FOR 10 MINS HELD. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/6/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING 4 1/2 TUBING. FILLED OUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:30 15:00	7.50	WOR	39		P		0 TSIP, 0 CSIP. OPENED WELL RIH OUT OF DERRICK W/ 30 JTS 4 1/2 P-110 EUE TBG. LD 83-JTS 4 1/2 P-110 EUE TBG AND SEAL ASSEMBLY. RIH OUT OF DERRICK W/ 64 JTS 4 1/2 P-110 EUE TBG. LD 64-JTS 4 1/2 P-110 EUE TBG. CLOSED IN WELL. CSG BARRIER 1 FLUID, BARRIER 2 BLIND RAMS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/7/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON UNLOADING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	WOR	18		P		UNLOADED AND TALLIED 214-JTS 4 1/2 P-110 PH-6 TUBING.
	9:30 10:30	1.00	WOR	06		P		0 CSIP. OPENED WELL. MU 3 1/2 EUE X 4 1/2 LTC X-OVER, 4 1/2 LTC X 4 1/2 EUE X-OVER AND 4 1/2 EUE X 4 1/2 PH-6 X OVER AND 1 JT 4 1/2 P-110 PH-6 TBG. PRESSURE TEST @ 7500 PSI FOR 15 MIN HELD. REMOVED PLUG, MU LATCH-SEAL ASSEMBLY.
	10:30 16:30	6.00	WOR	39		P		RIH W/ LATCH-SEAL ASSEMBLY, X-OVERS AND 190-JTS 4 1/2 P-110 PH-6 EOT @ 5896'. CLOSED IN WELL. CSG BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR. TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/8/2016	6:00 8:30	2.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON PICKING UP TUBING. FILLED OUT AND REVIEWED JSA.
	8:30 11:00	2.50	WOR	39		P		0 TSIP 0 CSIP. OPENED WELL RIH 4-JTS 4 1/2 P-110 PH-6 EUE TBG. LATCHED INTO ARROWSET PAC PKR SET @ 6000' (6010' TBG TALLY). RELEASED FROM PKR. SPACED OUT TBG W/ 1-10' 1-2' 4 1/2 P-110 TBG SUBS, 4 1/2 PH-6 X 4 1/2 LTC, 4 1/2 LTC X 4 1/2 EUE, 4 1/2 EUE X 4 1/2 BUTTRESS AND HANGER. LANDED TBG.
	11:00 13:00	2.00	WOR	06		P		FILLED WELL WITH 18 BBLs. PRESSURE TEST 4 1/2 X 7" ANNULAS AT 1000 PSI FOR 5 MIN HELD. PRESSURE TEST 4 1/2 TBG PKR AND CSG. @ 7500 PSI LOST 2150 PSI IN 15 MINS. ANNULUS INCREASED TO 1500 PSI AND STABILIZED. HAD SMALL LEAK FROM AROUND TBG HANGER. BLED DOWN WELL.
	13:00 15:30	2.50	WOR	16		P		RELEASED FROM PKR. REMOVED LANDING JT INSTALLED TWC. LATCHED INTO PKR LANDED TBG W/ 60K COMPRESSION. ND ANNULAR AND BOP. NU X-OVER FLANGE AND FRAC VALVE PRESSURE TEST FRAC VALVE AT 250 PSI LOW AND 8500 PSI LOW, REMOVED TWC.
	15:30 17:30	2.00	WOR	06		P		PUT 700 PSI ON 4 1/2 X 7 ANNULUS PRESSURE TEST 4 1/2 TBG, PKR AND CSG @ 7500 PSI. LOST 200 PSI IN 20 MINS. ANNULUS STABILIZED @ 1325 PSI. BLED 4 1/2 TBG TO 7000 PSI MINIMAL LOSS 25 TO 30 PSI IN 15 MIN. PRESSURE TEST 4 1/2 X 7 ANNULUS @ 1500 PSI LOST 100 PSI @ IN 30 MINS. BLED DOWN PRESSURE CLOSED IN WELL. CSG BARRIER 1 FRAC VALVE BARRIER 2 NIGHT CAP, CLOSED CSG VALVES AND INSTALLED NIGHT CAPS.
11/9/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON NIPPLING UP FRAC VALVES. FILLED OUT AND REVIEWED JSA.
	7:30 14:00	6.50	WOR	16		P		NU 5 1/8" 10M HCR VALVE, 5 1/8" 10M FLOW CROSS, 5 1/8" 10M GOAT HEAD, 5 1/8" 10M HCR VALVE AND 10M X 5M WIRELINE FLANGE. PRESS TEST EACH SECTION @ 9500 PSI HIGH AND 250 LOW. RAN FLOWBACK LINE AND TESTED @ 8000 PSI HIGH AND 250 LOW.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	14:00 17:30	3.50	WLWORK	21		P		RU WIRELINE PRESSURE TEST BOP @ 4000 PSI HIGH AND 250 LOW. PRESSURE TEST LUBRICATOR @ 4000 PSI. PERFORATED STAGE # 1 FROM 8705' TO 8673'. USING 2 1/2", 12 GM, 120 DEGREE PHASING, 3 SPF. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL GR/CCL LOG DATED 12-13-2012. STARTING PRESSURE 1000 PSI, FINAL PRESSURE 200 PSI. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS. RD WIRELINE. SDFN.
11/10/2016	6:00 13:30	7.50	MIRU	28		P		WAIT ON FRAC EQUIPMENT. HELD SAFETY MEETING ON RIGGING FRAC EQUIPMENT. FILLED OUT AND REVIEWED JSA.
	13:30 21:30	8.00	MIRU	01		P		MIRU FRAC EQUIPMENT. PRESSURE TEST LINES @ 8027.
	21:30 23:00	1.50	STG01	35		P		OPENED WELL W/ 442 PSI. BREAK DOWN STAGE # 1 PERFS @ 4186 PSI 4.4 BPM. I.S.I.P. 3047 PSI F.G. .78. 5 MIN 2513 PSI, 7 MIN 2407 PSI. TREATED PERFS W/ 7000 GALS 15% HCL ACID. DROPPED 45 BIO BALLS. 15 EVERY 1625 GALS. PUMPED 10 BBL SPACER, 1525 LBS 30/50 WHITE IN A 8# STG FLUSHED TO TOP PERF W/ 182 BBLs. AVG RATE 12.8 BPM, MAX RATE 20.4 BPM. AVG PRESS 3870 PSI, MAX PRESS 5779 PSI. I.S.I.P. 2766 PSI, F.G. .75. 5 MIN 2625 PSI, 7 MIN 2602 PSI. SHUT IN WELL. 442 BBLs TO RECOVER. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS
11/11/2016	6:00 7:30	1.50	STG02	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING LINES. FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	STG02	18		P		START FRAC EQUIPMENT. PRESSURE TEST LINES @ 6000 PSI.
	8:30 9:00	0.50	STG02	06		P		OPENED WELL W/ 1300 PSI. PRESSURED UP ON SAND PLUG @ 3000 PSI. LOST 900 PSI IN 3 MIN.
	9:00 10:30	1.50	STG02	21		P		RU WIRELINE RIH W/ PERF GUN TAGGED SAND @ 8675'. POOH. RD WIRELINE
	10:30 11:30	1.00	STG02	06		P		OPENED WELL 900 PSI. ESTABLISHED INJECTION RATE @ 4000 PSI @ 9 BPM. PUMPED 1500 # SAND PLUG IN 8# STAGE. PUMPED TO TOP PERF W/ 181 BBLs @ 4300 PSI @ 10 BPM. ISIP 2650 PSI.
	11:30 12:30	1.00	STG02	18		P		WAIT ON SAND
	12:30 14:30	2.00	STG02	21		N		OPENED WELL 2300 PSI. RU WIRELINE, RIH TAGGED SAND @ 8642' STILL 2300 PSI. SHOT BTM 3 SHOTS GUN WENT TO SHORT. PULLED OUT.
	14:30 16:00	1.50	STG02	21		P		PERFORATED STAGE # 2 FROM 8410' TO 8261'. USING 2 1/2", 12 GM, 120 DEGREE PHASING, 3 SPF. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL GR/CCL LOG DATED 12-13-2012. STARTING PRESSURE 2300 PSI, FINAL PRESSURE 1800 PSI
	16:00 17:30	1.50	STG02	35		P		PRESSURE TEST LINES @ 8111 PSI. OPENED WELL W/ 1991 PSI. BREAK DOWN STAGE # 2 PERFS @ 3316 PSI 3.8 BPM. I.S.I.P. 1565 PSI F.G. .62. 5 MIN 1234 PSI, 7 MIN 1462 PSI. TREATED PERFS W/ 17858 GALS 15% HCL ACID. DROPPED 66 BIO BALLS. 11 EVERY 2571 GALS. PUMPED 15.5 BBL SPACER. 1200 LBS 30/50 WHITE IN A 8# STG FLUSHED TO TOP PERF W/ 169 BBLs. SLOWED DOWN TO 2 BPM. WHEN SAND HIT DIDN'T SEE ANY PRESSURE INCREASE. PUMPED SECOND SAND PLUG. 1200 LBS 30/50 WHITE IN A 8# STAGE DISPLACED TO TOP PERF W/ 169 BBLs. AVG RATE 15.4 BPM, MAX RATE 28.2 BPM. AVG PRESS 2829 PSI, MAX PRESS 5807 PSI. I.S.I.P. 1605 PSI, F.G. .62. 5 MIN 1491 PSI, 7 MIN 1462 PSI. SHUT IN WELL. 1009 BBLs TO RECOVER.
	17:30 19:00	1.50	STG03	18		P		WAIT ON SAND

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	19:00 20:00	1.00	STG03	06		P		PRESURE TEST SAND PLUG. 1085 PSI SIP. ESTABLISHED INJECTION RATE OF 10 BPM @ 1900 PSI. PUMPED THRID SAND PLUG. PUMPED 1200 LBS 30/50 WHITE IN A 8# STAGE DISPLACED TO TOP PERF W/ 169 BBLS @ 2000 PSI @ 11 BPM. ISIP 1675 PSI. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS
11/12/2016	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL. HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	STG03	21		P		700 TSIP. RU WIRELINE RIH W/ PERF GUN TAGGED SAND PLUG @ 8534'. POOH.
	9:00 9:45	0.75	STG03	27		P		PRESSURE TEST LINES @ 8000 PSI. OPENED WELL 700 PSI. ESTABLISHED INJECTION RATE @ 1800 PSI @ 11 BPM. PUMPED 2400 LBS 30/50 SAND PLUG IN 8# STAGE. PUMPED TO TOP PERF W/ 169.5 BBLS. LAST 60 BBLS SLOWED RATE TO 4 BPM @ 1500 PSI. ISIP 1400 PSI. FINISHED PUMPING @ 9:43 AM
	9:45 10:45	1.00	STG03	18		P		WAIT ON SAND.
	10:45 13:30	2.75	STG03	21		P		700 TSIP. RU WIRELINE RIH W/ PERF GUN TAGGED SAND PLUG @ 8534' @ 11:45 AM. WAS STICKY PULLING UP. PULLED UP TO 6195' WAIT 1/2 HOUR. RIH TAGGED SAND @ 8516'. STILL STICKY. POOH.
	13:30 14:45	1.25	STG03	27		P		TOOK 30 MINS TO PRESSURE TEST LINES @ 8000 PSI. HAD LEAK IN GROUND VALVE. OPENED WELL 700 PSI. ESTABLISHED INJECTION RATE @ 1700 PSI @ 8 BPM. PUMPED 6000 LBS 30/50 SAND PLUG IN 12# STAGE. PUMPED TO BTM PERF OF STG 2. @ 8410 W/ 174.5. FINISHED PUMPING @ 2:39 PM.
	14:45 15:45	1.00	STG03	18		P		WAIT ON SAND
	15:45 20:00	4.25	STG03	21		P		700 TSIP. RU WIRELINE RIH W/ PERF GUN TAGGED SAND PLUG @ 8386' @ 4:42 PM. PULLED UP WAIT. RIH TAGGED SAND @ 8356' @ 5:19 PM. PULLED UP WAIT RIH TAGGED SAND @ 8306' @ 7:23 PM. POOH.
	20:00 21:15	1.25	STG03	27		P		PRESSURE TEST LINES @ 8000 PSI. OPENED WELL 700 PSI. ESTABLISHED INJECTION RATE @ 1600 PSI @ 8 BPM. PUMPED 168 LBS PERFVERTER IN 2 BBL SLURRY, 1700 LBS 30/50 SAND PLUG IN 12# STAGE. PUMPED TO TOP PERF OF STG 2. 8261' W/ 169 BBLS. LAST 20 BBLS SLOWED RATE TO 4 BPM PRESSURE STAYED @ 1600 PSI. ISIP 1450 PSI. FINISHED PUMPING @ 9:17 PM..
	21:15 22:15	1.00	STG03	18		P		WAIT ON SAND.
	22:15 23:15	1.00	STG03	24		P		700 TSIP. RU WIRELINE RIH W/ PERF GUN TAGGED SAND PLUG @ 8259' @ 10:56 PM. PULLED UP TO 7000'.
	23:15 1:30	2.25	STG03	06		P		TRIED TO PRESSURE UP ON SAND PLUG. PIMED UP 4 DIFFERENT TRUCKS UNABLE TO PUMP PRESSURE. WHILE TROUBLE SHOOTING PROBLEM. CONSULTANT ON LOCATION (MIKE JOHNSON) TOLD WEATHERFORD WELLHEAD. TO SHUT LOWER HCR VALVE. CUTTING LINE. CUT LINE w 7000' IN WELL AND DROPPING GUN 1259' TO TOP OF SAND PLUG. RD WIRELINE. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS. SDFN
11/13/2016	6:00 9:00	3.00	FB	28		P		CREW TRAVEL HELD SAFETY MEETING ON FLOWING WELL. FILL OUT AND REVIEW JSA.
	9:00 11:30	2.50	FB	19		P		650 TSIP. OPENED WELL TO FLOWBACK TANK ON 10/64 CHOKE. FLOWED BACK 25 BBLS IN 1 HR 525 PSI. CLOSED IN WELL, PRESSURE BUILT TO 650 PSI.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	11:30 20:00	8.50	BL	52		P		MIRU BRAIDED LINE TRUCK. MAKE UP FISHING ASSEMBLY W/ 2 BARBED SPEAR W/ 3.701 WIRE LOCATOR. PRESSURE TEST LUBRICATOR @ 4000 PSI HIGH AND 250 PS LOW, RIH ENGAGED FISH TOP @ 1670'. WOKED FISH FREE. POOH. LD FISH (7000' 9/32" E-LINE AND PERFORATING GUN). RD WIRELINE CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS. SDFN
11/14/2016	6:00 6:00	24.00	WOR	16		P		NO ACTIVITY
11/15/2016	6:00 10:30	4.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON RIGGING UP WIRELINE. FILLED OUT AND REVIEW JSA.
	10:30 12:30	2.00	MIRU	01		P		MIRU WIRELINE. PRESSURE TEST LUBRICATOR AT 4000 PSI. HELD.
	12:30 20:00	7.50	WLWORK	27		P		525 TSIP. RIH TAGGED SAND @ 8238' MADE THREE DUMP BAIL RUNS.ON THRID RUN TAGGED SAND @ 8233'. DUMPED BAILED ~ 9' SAND. RD WIRELINE. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS. SDFN
11/16/2016	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON DUMP BAILING CEMENT. FILLED OUT AND REVIEWED JSA.
	7:30 17:00	9.50	WLWORK	27		P		475 TSIP. RU WIRELINE RIH TAGGED SAND @ 8230' (31' ABOVE TOP PERF STG 2). MADE FIVE DUMP BAIL RUNS. DUMPED ~ 15' CEM. CMT TOP 8215' PRESSURED UP ON CEMENT TO 900 PSI. CLOSED IN WELL. CLOSED AND LOCKED ALL FRAC VALVES 3 BARRIERS. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS 2 BARRIERS. SDFN
11/17/2016	6:00 6:00	24.00	WOR	18		P		SHUT DOWN FOR QUARTERLY MEETING.
11/18/2016	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON PRESSURE TESTING PLUG. FILLED OUT AND REVIEWED JSA
	7:30 9:00	1.50	WLWORK	06		P		TSIP. 800 PSI. OPENED WELL. APLLIED 800 PSI TO 4 1/2" X 7" ANNULUS. PRESSURED TEST TBG CSG AND PLUG @ 2000 PSI FOR 5 MINS NO LEAKS. BLED PRESSURE DOWNTO 1000 PSI. STARTED RIGGING UP FRAC EQUIPMENT.
	9:00 12:00	3.00	STG04	21		P		RU WIRELINE MADE 2 PERF RUNS.PERFORATED STAGE # 4 FROM 7843' TO 7994'. USING 2 1/2", 12 GM, 120 DEGREE PHASING, 3 SPF. ALL PERFS CORRELATED TO CUTTERS RADIAL CBL GR/CCL LOG DATED 12-13-2012. STARTING PRESSURE 1000 PSI, FINAL PRESSURE 150 PSI.
	12:00 17:30	5.50	MIRU	01		P		MIRU FRAC EQUIPMENT. START EQUIPMENT PRIME UP PUMPS. PRESSURE TEST LINES @ 8145 PSI.
	17:30 20:00	2.50	STG04	35		P		OPENED UP WELL W/ 405 PSI. BREAK DOWN STAGE # 4 PERFS @ 3483 PSI, 7.5 BPM. TREATED PERFS W/ 10349 GALS 15% HCL ACID. FLUSHED TO BTM PERF W/ 168 BBLS. AVG RATE 28.6 BPM. MAX RATE 38.1. AVG PRESS 3545 PSI, MAX PRESS 5859 PSI. STEP RATE TEST SHOWED 69 PERFS OPEN. ISIP 1767, F.G. .66. 5 MIN 1611 PSI, 10 MIN 1532 PSI, 15 MIN 1460 PSI. PUMPED 7000 LBS 100 MESH IN 1/2 PPG STAGE AND 95913 LBS THS 30/50. IN .5#, 1#, 1.5#, 2# AND 3# STAGES. THE STAGE ADVANCED EARLY ON THE 3500 LBS SAND PLUG AND A SPACER OF ~ 50 BBLS FR WATER WAS PUMPED. DISPLACED 3# STGAE TO TOP PERF W/ 157 BBLS. AVG RATE 51.9 BPM, MAX RATE 61 BPM. AVG PRESS 4295 PSI, MAX PRESS 5471 PSI. I.S.I.P. 2089 PSI. F.G. .69. 5 MIN 1891 PSI. SHUT WELL IN 3327 BBLS TO RECOVER. CLOSED IN WELL CLOSED UPPER MASTER VALVE BARRIER 1. CLOSED GRIOUND VALVES BARRIER 2. CLOSED CSG VALVES AND INSTALLED NIGHT CAPS. DRAINED PUMP LINES AND FILLED WITH BRINE H2O SDFN.
11/19/2016	6:00 7:30	1.50	WLWORK	28		P		CREW TRAVEL HELD SAFETY MEETING ON WIRELINE SAFETY. FILLED OUT AND REVIEWED JSA.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	7:30 9:00	1.50	WLWORK	27		P		500 TSIP. RU WIRLINE RIH W/ PERFORATING GUN. TAGGED SAND @ 8238'. POOH W/ PERF GUN.
	9:00 11:00	2.00	WOR	44		P		WAIT ON ORDERS.
	11:00 12:00	1.00	RDMO	02		P		RD WIRELINE LUBRICATOR, BOP AND FLANGE.
	12:00 13:00	1.00	WOR	42		P		WAIT ON ROCK SALT AND NEW PUMP SCHEDULE
	13:00 15:00	2.00	STG04	18		P		PROGRAM COMPUTERS LOAD BIO BLLS AND PRESSURE TEST.
	15:00 16:30	1.50	STG04	35		P		STAGE 4B. OPENED WELL W/ 413 PSI. BREAK DOWN STAGE # 4 PERFS AGAIN @ 974 PSI 7.6 BPM. TREATED PERFS W/ 12626 GALS 15% HCL ACID.DROPPED 22 BIO BALLS. 15 EVERY 2400 GALS. FLUSHED TO BTM PERF W/ 176 BBLs. AVG RATE 9.9 BPM, MAX RATE 11.8 BPM. AVG PRESS 1661 PSI, MAX PRESS 2051 PSI. I.S.I.P. 1657 PSI, F.G. .64. 5 MIN 1489 PSI, 10 MIN 1400 PSI, 15 MIN 1340. PUMPED 20 BBLs @ 5.5 BPM. TO DISPLACE PAST STGE 2. 555 BBLs TO RECOVER. CLOSED IN WELL.
	16:30 20:30	4.00	RDMO	02		P		RD FRAC EQUIPMENT AND MOVE OFF LOCATION.
	20:30 6:00	9.50	FB	19		P		OPENED WELL @ 8:30 PM. 750 PSI @ 12 CHOKE. 200 PSI, 12 CHOKE. RECOVERED 0 MCF, 0 BBLs OIL AND 277 BBLs H2O.
11/20/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON WELL CONTROL. FILLED OUT AND REVIEWED JSA.
	7:30 9:30	2.00	FB	19		P		WELL FLOWING 200 PSI ON 12/64 CHOKE, OPENED CHOKE TO 16/64 CHOKE. MADE 15 BBLs IN 1/2 HR 150 PSI. OPENED WELL ON 2" VALVE TO FLOW BACK TANK WHILE RUNNING PUMP LINES. 0 PSI FLOWING @ 1 BPM.
	9:30 11:00	1.50	WOR	06		P		PUMPED 160 BBLs 9.8# BRINE DOWN TBG @ 5 BPM @ 1500 PSI. ISIP 500 PSI. 20 MIN 100 PSI. OPENED WELL. WELL DIED.
	11:00 15:00	4.00	WHDTRE	16		P		ND NIGHT CAP, 5 1/8" 10M HCR VALVE, 5 1/8" 10 M GOAT HEAD, 5 1/8 10M FLOWCROSS. INSTALLED TWC. TBG BARRIER 1 KILL FLUID, BARRIER 2 TWC, CSG BARRIER 1 PKR, BARRIER 2 TBG HANGER. ND 5 1/8" 10 M HCR VALVE, 5 1/8" 10M MANUAL FRAC VALVE AND CROSS OVER SPOOL. ND 7 1/16" 10M MANUAL FRAC VALVE, 7 1/16" 5M BOP, 7 1/16" ANNULAR. SHELL TEST FRAC VALVE, PRESSURE TEST BOP BLINDS AND PIPE RAMS @ 4000 PSI HIGH AND 250 LOW, PRESSURE TEST ANNULAR @ @ 3500 PSI HIGH AND 250 LOW. NU LUBRICATOR, REMOVED TWC.
	15:00 16:00	1.00	WOR	20		P		RU CASING TONGS. MU SUBS. RELEASE STINGER FROM ARROWPAK PKR,
	16:00 17:00	1.00	WOR	06		P		CIRCULATE 100 BBLs 9.8# BRINE DOWN TBG UP CSG. WELL DIED.
	17:00 18:00	1.00	WOR	39		P		LD SUBS, HANGER AND X-OVERS. LD 2-JTS 4 1/2 P-110 PH-6 TBG. CLOSED IN WELL. CASING BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR . TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CASING VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/21/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON LAYING DOWN TBG. FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	WOR	06		P		50 TSIP. 150 CSIP. OPENED WELL REVERSED CIRCULATE W/ 100 BBLs 9.8# BRINE. WELL DIED.
	8:30 11:00	2.50	WOR	39		P		LD 98-JTS 4 1/2 P-110 PH-6 TBG. EOT @ 2887'.
	11:00 11:45	0.75	WOR	06		P		CIRCULATE WELL W/ 100 BBLs 9.8# BRINE.
	11:45 15:00	3.25	WOR	39		P		LD 93-JTS 4 1/2 P-110 PH-6 TBG, X-OVERS AND ARROWPAK STINGER. RD CASING TONGS.
	15:00 16:00	1.00	WHDTRE	16		P		BARRIER 1 MASTER VALVE, BARRIER 2 BLIND RAMS. CHANGED PIPE RAMS TO 2 7/8. PRESSURE TEST PIPE RAMS @ 250 PSI LOW, AND 4000 PSI HIGH.

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	16:00 17:30	1.50	WOR	39		P		TALLIED AND RIH W/ ARROWPAK RETRIEVING TOOL, 2-JTS 2 7/8 L-80 EUE TBG, SN, AND 120-JTS 2 7/8 L-80 EUE TBG. EOT @ 3965'. CLOSED IN WELL. CASING BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR . TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CASING VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/22/2016	6:00 8:30	2.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING. FILLED OUT AND REVIEWED JSA.
	8:30 11:30	3.00	WOR	39		P		0 TSIP, 0 CSIP. OPENED WELL RIH W/ 64-JTS 2 7/8 L-80 EUE TBG. LATCHED INTO ARROWPAK PKR SET @ 6000' (6012' TBG TALLY). RELEASED PKR. TOOH W/ 184-JTS 2 7/8 L-80 EUE TBG, SN, 2-JTS 2 7/8 L-80 EUE TBG, RETRIEVING TOOL AND 7" ARROWPAK PKR.
	11:30 15:00	3.50	WOR	39		P		RIH W/ 6" ROCK BIT, BIT SUB AND 254-JTS 2 7/8 L-80 TAGGED FILL @ 8231'.
	15:00 17:30	2.50	WOR	10		P		RU POWER SWIVEL. ESTABLISHED REVERSE CIRCULATION PUMPING 5 BPM AND RETURNING 2.5 BPM. CLEANED OUT SAND AND CEMENT FROM 8231' TO 8285', CIRCULATE TBG CLEAN RD POWER SWIVEL. TOOH W/ 16-JTS 2 7/8 L-80 EUE TBG EOT @ 7763'. CLOSED IN WELL. CASING BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR . TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CASING VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/23/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON POWER SWIVEL. FILLED OUT AND REVIEWED JSA.
	7:30 8:30	1.00	WOR	39		P		100 CSIP, 0 TSIP. OPENED WELL TBG DEAD. CSG FLOWING @ 1/4 BPM. RIH W/ 16-JTSTAGED FILL @ 8285'.
	8:30 15:30	7.00	WOR	10		P		RU POWER SWIVEL. PUMPED 5 BBLS BREAK REVERSE CIRCULATION. PUMPING 4 BPM RETURNING 3 BPM CLEANED OUT SAND FROM 8285' TO 8627' LINER TOP. CIRCULATE TUBING CLEAN. RD POWER SWIVEL/
	15:30 17:00	1.50	WOR	39		P		TBG DEAD. CSG FLOWING @ 1/4 BPM. TOOH W/ 128-JTS 2 7/8 L-80 EUE TBG EOT @ 4300'. CLOSED IN WELL. CASING BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR . TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CASING VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/24/2016	6:00 7:30	1.50	WOR	28		P		CREW TRAVEL HELD SAFETY MEETING ON TRIPPING TUBING. FILLED OUT AND REVIEWED JSA.
	7:30 9:00	1.50	WOR	06		P		50 TSIP. 100 CSIP. OPENED WELL CASING FLOWING @ 1/2 BPM. CIRCULATE WELL W/ 170 BBLS BRINE. WELL DIED.
	9:00 12:30	3.50	WOR	39		P		TOOH W/ 138 JTS 2 7/8 L-80 EUE TBG, BIT SUB AND 6" BIT. RIH W/ 3 3/4" BIT, BIT SUB, 10-JTS 2 3/8 L-80 EUE TBG, X-OVER AND 256-JTS 2 7/8 L-80 EUE TBG. TAGGED SAND @ 8627' LT (8637' TBG TALLY). RU POWER SWIVEL.
	12:30 15:30	3.00	WOR	10		P		PUMPED 39 BBLS BREAK REVERSE CIRCULATION PUMPING 5 BPM RETURNING 3.5 BPM. WASHED SAND FROM 8627' TO PBTD @ 8815' CIRCULATE TBG CLEAN. RD POWER SWIVEL
	15:30 17:00	1.50	WOR	39		P		LD 74-JTS 2 7/8 L-80 EUE TBG. EOT @ 6422'. CLOSED IN WELL. CASING BARRIER 1 PIPE RAMS, BARRIER 2 ANNULAR . TBG BARRIER 1 TIW VALVE, BARRIER 2 NIGHT CAP. CLOSED CASING VALVES AND INSTALLED NIGHT CAPS. SDFN.
11/25/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
11/26/2016	6:00 6:00	24.00	WOR	18		P		NO ACTIVITY
11/27/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON ICE PLUGS IN TBG & CSG VALVES, WRITE & REVIEW JSA'S
	7:00 8:30	1.50	WOR	15		P		SICP 150 PSI, SITP 0 PSI, CIRC WELL BORE W/ 215 BBLS BRINE WTR. DWN TBG UP CSG TO FLOW BACK TANK
	8:30 10:30	2.00	WOR	39		P		POOH W/ 188 JTS 2-7/8" EUE L-80 TBG, 2-7/8" X 2-3/8" EUE X OVER, LD 10 JTS 2-3/8" TBG, BIT SUB & BIT

2.1 Operation Summary (Continued)

Date	Time Start-End	Duration (hr)	Phase	Activity Code	Sub	OP Code	MD from (ft)	Operation
	10:30 13:30	3.00	WOR	39		P		PU & RIH W/ 5-3/4" SOLID NO-GO, 2 JTS 2-7/8" EUE L-80 TBG, 5-1/2" PBGA, 4' X 2-7/8" EUE N-80 TBG SUB, 2' X 2-7/8" EUE N-80 TBG SUB, MECH P.S.N., 2-7/8" X 2-1/4" X 40' PUMP BBL, 4' X 2-7/8" EUE N-80 TBG SUB, 4 JTS 2-7/8" EUE L-80 TBG, 7" TAC, 86 JTS 2-7/8" EUE L-80, 2' X 2-7/8" EUE N-80 TBG SUB, 70 JTS 2-7/8" EUE TK 900 TBG, 2' X 2-7/8" EUE N-80 TBG SUB & 74 JTS 2-7/8" EUE L-80 TBG
	13:30 16:00	2.50	WOR	16		P		MU 4' X 2-7/8" EUE TBG SUB & TBG HANGER W/ BPV INSTALLED, SET 7" TAC @ 7540', M.S.N. @ 7713' & EOT @ 7813', TEMP LAND TBG ON HANGER, RD WORK FLOOR, ND HYDRILL, BOP & FRAC VALVE, POOH LD TBG HANGER & 4'TBG SUB, MU 10K B-FLANGE LAND TBG IN 23K TENSION, NUWH, HOOK UP FLOW LINES, RACK OUT PUMP & TANKS, SDFN
11/28/2016	6:00 7:00	1.00	WOR	28		P		CT HOLD SAFETY MTG ON RIH W/ RODS & OVERHEAD LOADS, WRITE & REVIEW JSA'S, WHILE FLUSHING TBG W/ 65 BBLS 2% KCL W/ HOT OILER
	7:00 8:00	1.00	WOR	18		P		DROP STANDING VALVE & PUMP TO BTM W/ 32 BBLS BRINE WTR, SEAT STANDING VALVE & PRESSURE TEST TBG TO 1000 PSI GOOD TEST
	8:00 10:00	2.00	WOR	39		P		MU & RIH W/ 5' X 2-1/4" PLUNGER, 1-1/2" X 40' POLISH ROD, 3' STABILIZER SUB, 16 1-1/2" WT BARS, 74-3/4" W/G, 95-7/8" W/G & 119-1" RODS, SPACE WELL OUT W/ NEW 1-1/2" X 40' POLISH ROD, STROKE TEST PUMP TO 1000 PSI GOOD PUMP ACTION
	10:00 11:30	1.50	WOR	18		P		RIG DWN RIG, SLIDE IN P.U. HANG OFF RODS, PICK UP LOC TWOTP, PARK RIG ON SIDE OF LOC & SDFN

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SPECTRAL DENSITY DUAL SPACED NEUTRON ARRAY COMPENSATED TRUE RESISTIVITY

EP ENERGY
ALBA 1-21C4
ALTAMONT
DUCHESNE
UT

Permanent Datum Log measured from
Drilling measured from

GL
KB
KB

Section: 21 Twp. 3S Rge. 4W

Elev.: 5900.0 ft
D.F. 5917.0 ft
G.L. 5900.0 ft

COMPANY **EP ENERGY**
WELL **ALBA 1-21C4**
FIELD **ALTAMONT**
COUNTY **DUCHESNE**
STATE **UT**

API No. 4301351460000
Location SURFACE HOLE LOCATION:
684' FNL & 105' F. E.L. NE NE

Other Services:
RWCH
BSAT
XRMI
IDT

Run No.	Depth - Driller	Depth - Logger	Bottom - Logged Interval	Top - Logged Interval	Casing - Driller	Casing - Logger	Bit Size	Type Fluid in Hole	Density	Viscosity	PH	Fluid Loss	Source of Sample	Rm @ Meas. Temperature	Rmf @ Meas. Temperature	Rmc @ Meas. Temperature	Source Rmf	Rm @ BHT	Time Since Circulation	Time on Bottom	Max. Rec. Temperature	Equipment	Recorded By	Witnessed By
ONE	8840.00 ft	6141.0 ft	6141.0 ft	200.0 ft	9.625 in	3228.0 ft	8.750 in	WB/M/IGNOSULFONATE	9.8 ppg	82.00 s/qt	9.70 pH	6.0 cphm	MUD TANK	1.600 ohmm @ 44.00 degF	0.92 ohmm @ 44.00 degF	1.930 ohmm @ 44.00 degF	MEASURED	0.49 ohmm @ 158.0 degF	11.8 hr	17-Nov-12 21:18	158.0 degF @ 6141.0 ft	11014853	C. BRUNTZ	G. MILLER
TWO	8840.00 ft	8850.0 ft	8841.0 ft	6141.0 ft	9.625 in	3230.0 ft	8.750 in	WB/M/IGNOSULFONATE	10.0 ppg	61.00 s/qt	9.80 pH	5.0 cphm	MUD TANK	1.950 ohmm @ 40.00 degF	0.64 ohmm @ 29.40 degF	2.000 ohmm @ 29.70 degF	CHART	0.47 ohmm @ 188.0 degF	12.1 hr	19-Nov-12 05:07	188.0 degF @ 8850.0 ft	11014853	C. BRUNTZ	G. MILLER
THREE	11400.00 ft	11412.0 ft	11403.0 ft	8841.0 ft	7.000 in	8840.0 ft	6.125 in	WB/M/IGNOSULFONATE	11.7 ppg	66.00 s/qt	10.20 pH	4.6 cphm	MUD TANK	1.250 ohmm @ 46.00 degF	0.46 ohmm @ 75.00 degF	1.386 ohmm @ 75.00 degF	CHART	0.27 ohmm @ 241.0 degF	10.7 hr	28-Nov-12 07:43	241.0 degF @ 11412.0 ft	11014853	C. BRUNTZ	K. SWILLEY

Fold here

Service Ticket No.: 900018459 API Serial No.: 4301351460000 PGM Version: WL INSITE R3.6.0 (Build 3)

CHANGE IN MUD TYPE OR ADDITIONAL SAMPLE										RESISTIVITY SCALE CHANGES				
Date	Sample No.					Type Log	Depth	Scale Up Hole	Scale Down Hole					
Depth-Driller														
Type Fluid in Hole														
Density	Viscosity													
Ph	Fluid Loss													
Source of Sample										RESISTIVITY EQUIPMENT DATA				
Rm @ Meas. Temp	@			@		Run No.	Tool Type & No.	Pad Type	Tool Pos.	Other				
Rmf @ Meas. Temp.	@			@		THREE	ACRt-	N/A	0" STANDOFF	N/A				
Rmc @ Meas. Temp.	@			@			90295527							
Source Rmf	Rmc					THREE	XRMI-I	XRMI	PAD MOUNTED	N/A				
Rm @ BHT	@			@			I: 11355245							
Rmf @ BHT	@			@			M: 11670572							
Rmc @ BHT	@			@										
EQUIPMENT DATA														
GAMMA			ACOUSTIC			DENSITY			NEUTRON					
Run No.	THREE		Run No.	THREE		Run No.	THREE		Run No.	THREE				
Serial No.	11050378		Serial No.	10939066		Serial No.	10950482		Serial No.	10735512				
Model No.	GTET		Model No.	BSAT		Model No.	SDLT-I		Model No.	DSNT-I				
Diameter	3.625"		No. of Cent.	NONE		Diameter	4.5"		Diameter	3.625"				
Detector Model No.	GTET		Spacing			Log Type	GAMMA		Log Type	THERMAL				
Type	SCINT					Source Type	Cs137		Source Type	Am241Be				
Length	8"		LSA [Y/N]			Serial No.	5432GW		Serial No.	680107B				
Distance to Source	18'		FWDA [Y/N]			Strength	1.78 Ci		Strength	15 Ci				
LOGGING DATA														
GENERAL			GAMMA			ACOUSTIC			DENSITY			NEUTRON		

Run	Sundry Number	Depth	Speed	Scale	Scale	Scale	Scale	Matrix	Matrix	Matrix	Matrix	Matrix	Matrix
No.	From	To	ft/min	L	R	L	R	L	R	L	R	L	R
THREE	11412'	8850'	REC	0	150	30%	-10%	55.5 usec/ft	30%	-10%	2.68 g/cc	30%	-10%
TWO	8850'	6141'	REC	0	150	30%	-10%	55.5 usec/ft	30%	-10%	2.68 g/cc	30%	-10%
TWO	6141'	3228'	REC	0	150	30%	-10%	55.5 usec/ft	30%	-10%	2.68 g/cc	30%	-10%
ONE	3228'	200'	REC	0	150								

DIRECTIONAL INFORMATION

Maximum Deviation	@	KOP	@
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Remarks: TOOLS RAN IN COMBINATION RUN THREE: TRIP ONE: RWCH-GTET-IDT-DSNT-SDLT-FLEX-BSAT-ACRT; TRIP TWO: RWCH-GTET-XRMI

TENSION PULLS AND HOLE RUGOSITY MAY AFFECT LOG QUALITY AND REPEATABILITY

ANNULAR HOLE VOLUME CALCULATED USING 4.5 INCH CASING

CHLORIDES: 1100 ppm

NOW BOWSPRING DECENTRALIZER OR CENTRALIZERS RAN AT CUSTOMER REQUEST DUE TO HOLE SIZE

SPLICES AT 6040', 8761'

CALIPER CLOSED FROM 10,057'-10,030' DUE TO HIGH TENSION PULL

LATITUDE: 40.2116448° N

LONGITUDE: 110.3348529° W

CREW: J. FREW, G. BISHOP, AND J. ANGELL

THANK YOU FOR CHOOSING HALLIBURTON ENERGY SERVICES - VERNAL, UT (435) 789-2550 RIG: PRECISION #406

HALLIBURTON DOES NOT GUARANTEE THE ACCURACY OF ANY INTERPRETATION OF THE LOG DATA, CONVERSION OF LOG DATA TO PHYSICAL ROCK PARAMETERS OR RECOMMENDATIONS WHICH MAY BE GIVEN BY HALLIBURTON PERSONNEL OR WHICH APPEAR ON THE LOG OR IN ANY OTHER FORM. ANY USER OF SUCH DATA, INTERPRETATIONS, CONVERSIONS, OR RECOMMENDATIONS AGREES THAT HALLIBURTON IS NOT RESPONSIBLE EXCEPT WHERE DUE TO GROSS NEGLIGENCE OR WILLFUL MISCONDUCT, FOR ANY LOSS, DAMAGES, OR EXPENSES RESULTING FROM THE USE THEREOF.

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PARAMETERS REPORT

Depth (ft)	Tool Name	Description	Value	Units
TOP				
	SHARED	Bit Size	6.125	in
	SHARED	Use Bit Size instead of Caliper for all applications.	No	
	SHARED	Mud Base	Water	
	SHARED	Borehole Fluid Weight	11.700	ppg
	SHARED	Weighting Agent	Barite	
	SHARED	Borehole salinity	1100.00	ppm
	SHARED	Formation Salinity NaCl	0.00	ppm
	SHARED	Percent K in Mud by Weight?	0.00	%
	SHARED	Mud Resistivity	1.250	ohmm
	SHARED	Temperature of Mud	46.0	degF
	SHARED	Logging Interval is Cased?	No	
	SHARED	AHV Casing OD	4.500	in
	SHARED	Surface Temperature	25.0	degF
	SHARED	Total Well Depth	11412.00	ft
	SHARED	Bottom Hole Temperature	241.0	degF
	SHARED	Navigation and Survey Master Tool	IDT	
	SHARED	High Res Z Accelerometer Master Tool	IDT	
	SHARED	Temperature Master Tool	NONE	
	SHARED	Borehole Size Master Tool	NONE	
	Rwa / CrossPlot	Process Crossplot?	Yes	
	Rwa / CrossPlot	Select Source of F	Automatic	
	Rwa / CrossPlot	Archie A factor	0.6200	
	Rwa / CrossPlot	Archie M factor	2.1500	
	Rwa / CrossPlot	Dmf Reference	0.10	ohmm

Sundry Number : 770.73, APT Well Number : 43013514600000		Rmr Reference	0.10	ohmm
Rwa / CrossPlot	Rmr Ref Temp		75.00	degF
Rwa / CrossPlot	Resistivity of Formation Water		0.05	ohmm
Rwa / CrossPlot	Use Air Porosity to calculate CrossplotPhi		No	
GTET	Process Gamma Ray?		Yes	
GTET	Gamma Tool Standoff		0.000	in
GTET	Process Gamma Ray EVR?		No	
GTET	Tool Position for Gamma Ray Tools.		Eccentered	
IDT	Survey Writing Interval		30	ft
IDT	Smoothing Option		None	
DSNT	Process DSN?		Yes	
DSNT	Process DSN EVR?		No	
DSNT	Neutron Lithology		Sandstone	
DSNT	DSN Standoff - 0.25 in (6.35 mm) Recommended		0.000	in
DSNT	Temperature Correction Type		None	
DSNT	DSN Pressure Correction Type		None	
DSNT	View More Correction Options		No	
DSNT	Use TVD for Gradient Corrections?		No	
DSNT	Logging Horizontal Water Tank?		No	
SDLT	Process Caliper Outputs?		Yes	
SDLT Pad	Process Density?		Yes	
SDLT Pad	Process Density EVR?		No	
SDLT Pad	Logging Calibration Blocks?		No	
SDLT Pad	SDLT Pad Temperature Valid?		Yes	
SDLT Pad	Disable temperature warning		No	
SDLT Pad	Formation Density Matrix		2.680	g/cc
SDLT Pad	Formation Density Fluid		1.000	g/cc
BSAT	Compute BCAS Results?		Yes	
BSAT	Frequency Filter Low Pass Value?		5000	Hz
BSAT	Frequency Filter High Pass Value?		27000	Hz
BSAT	Delta -T Fluid		189.00	uspf
BSAT	Delta -T Matrix Type		Sandstone 55.5	
BSAT	Delta -T Shale		100.00	uspf
BSAT	Acoustic Porosity Equation		Wylie	
ACRt Sonde	Process ACRt?		Yes	
ACRt Sonde	Minimum Tool Standoff		1.50	in
ACRt Sonde	Temperature Correction Source		FP Lwr & FP Upr	
ACRt Sonde	Tool Position		Eccentered	
ACRt Sonde	Rmud Source		Mud Cell	
ACRt Sonde	Minimum Resistivity for MAP		0.20	ohmm
ACRt Sonde	Maximum Resistivity for MAP		200.00	ohmm
ACRt Sonde	Threshold Quality		0.50	
ACRt Sonde	Fixed mud resistivity		2000	ohmm

BOTTOM

Data: ALBA 1-21C4\0003 QUAD_BSAT_IDTIDLE

Date: 28-Nov-12 09:03:11

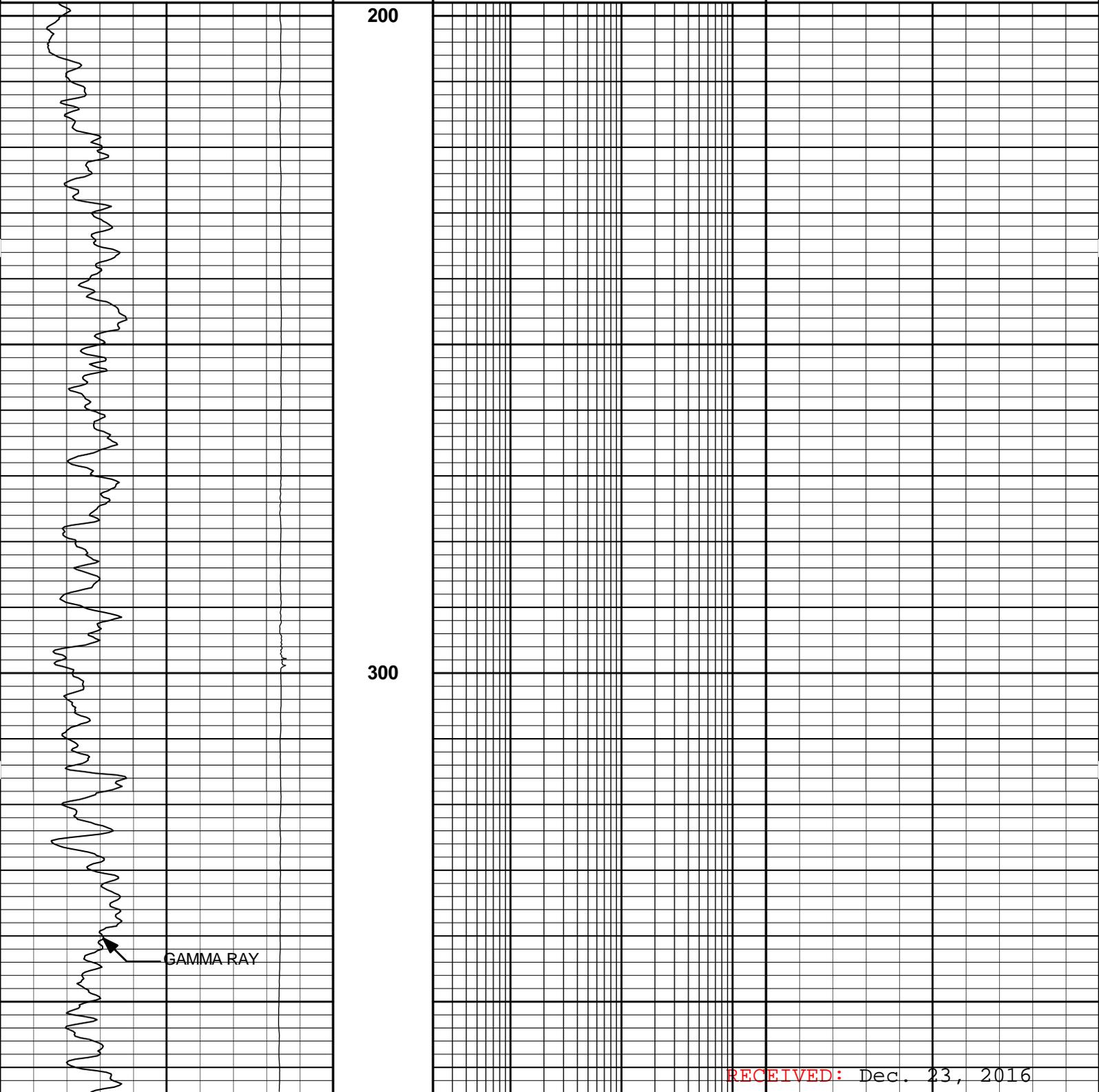
HALLIBURTON

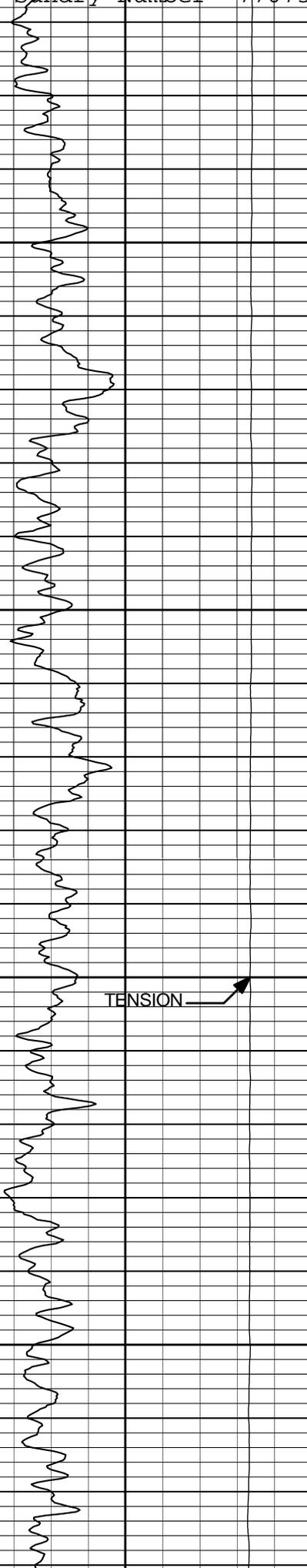
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 Plot Range: 198 ft to 11425.4 ft
 Data: ALBA 1-21C4Well BasedMAIN
 Plot File: \\COMPI_ELPASO_M

MAIN PASS 5" = 100'

RECEIVED: Dec. 23, 2016

0		GAMMA RAY		150		2		RT90		2000		30		DEN POROSITY		-10	
		api						ohm-m						2.68 g/cc			
4		CALIPER		14		2		RT60		2000		30		NEU POROSITY		-10	
		inches				AHV		ohm-m						sand			
0		SP		100		2		RT30		2000		0		PE		10	
		millivolts				BHV		ohm-m									
10000		TENSION		0		1 : 240		RT20		2000		-0.25		DENSITY COR.		0.25	
		pounds				FT.		ohm-m						g/cc			





400

500

TENSION

600

700

800

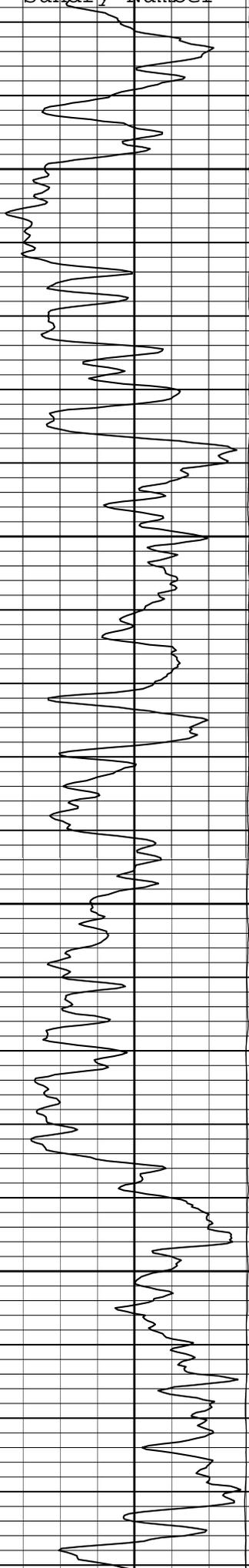


GAMMA RAY

TENSION

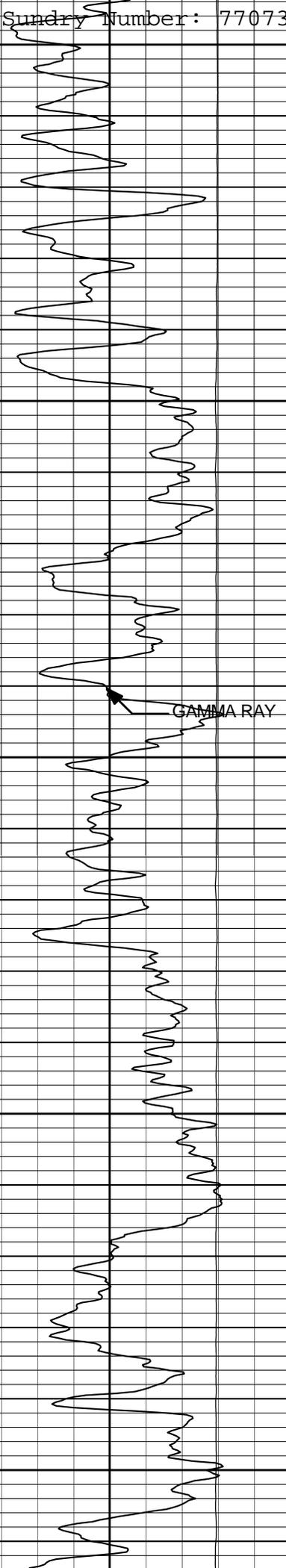
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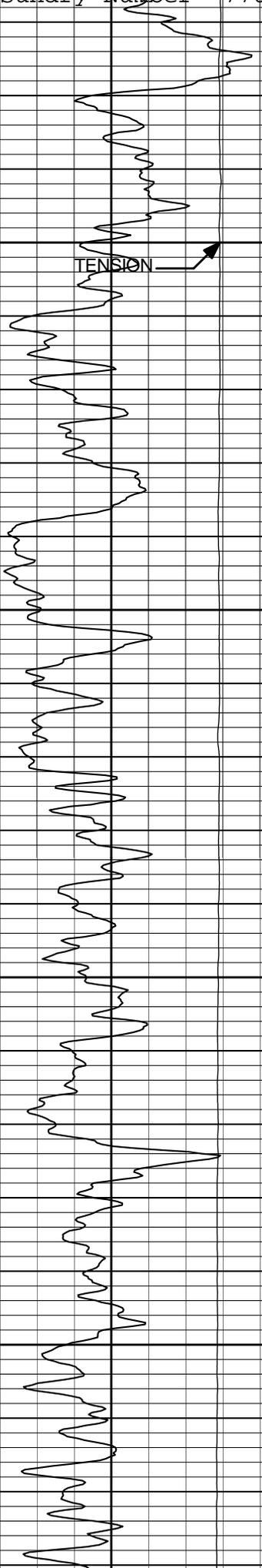
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GAMMA RAY

1400



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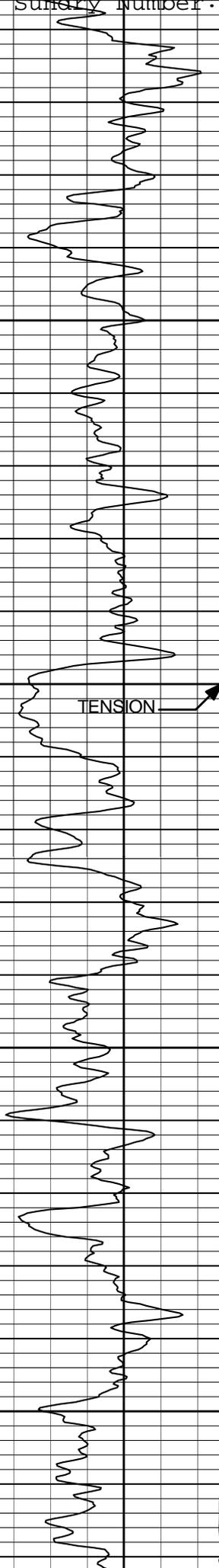
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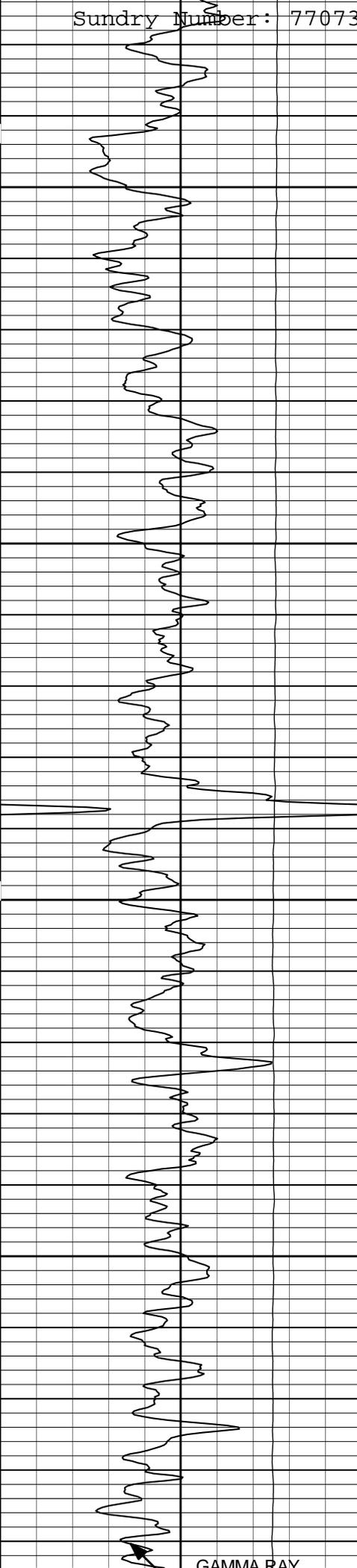
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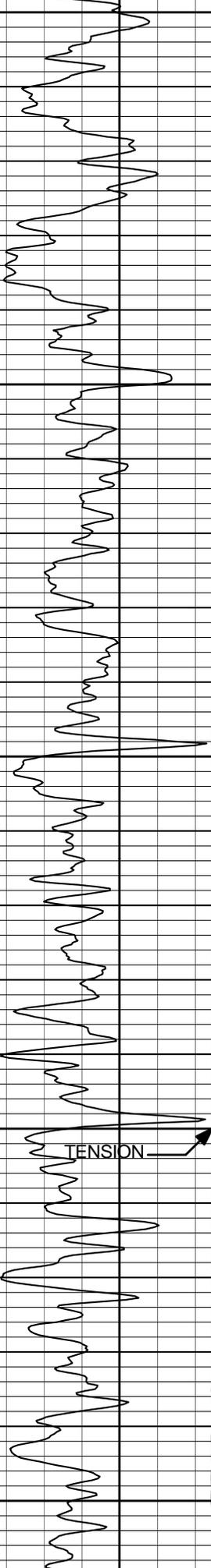
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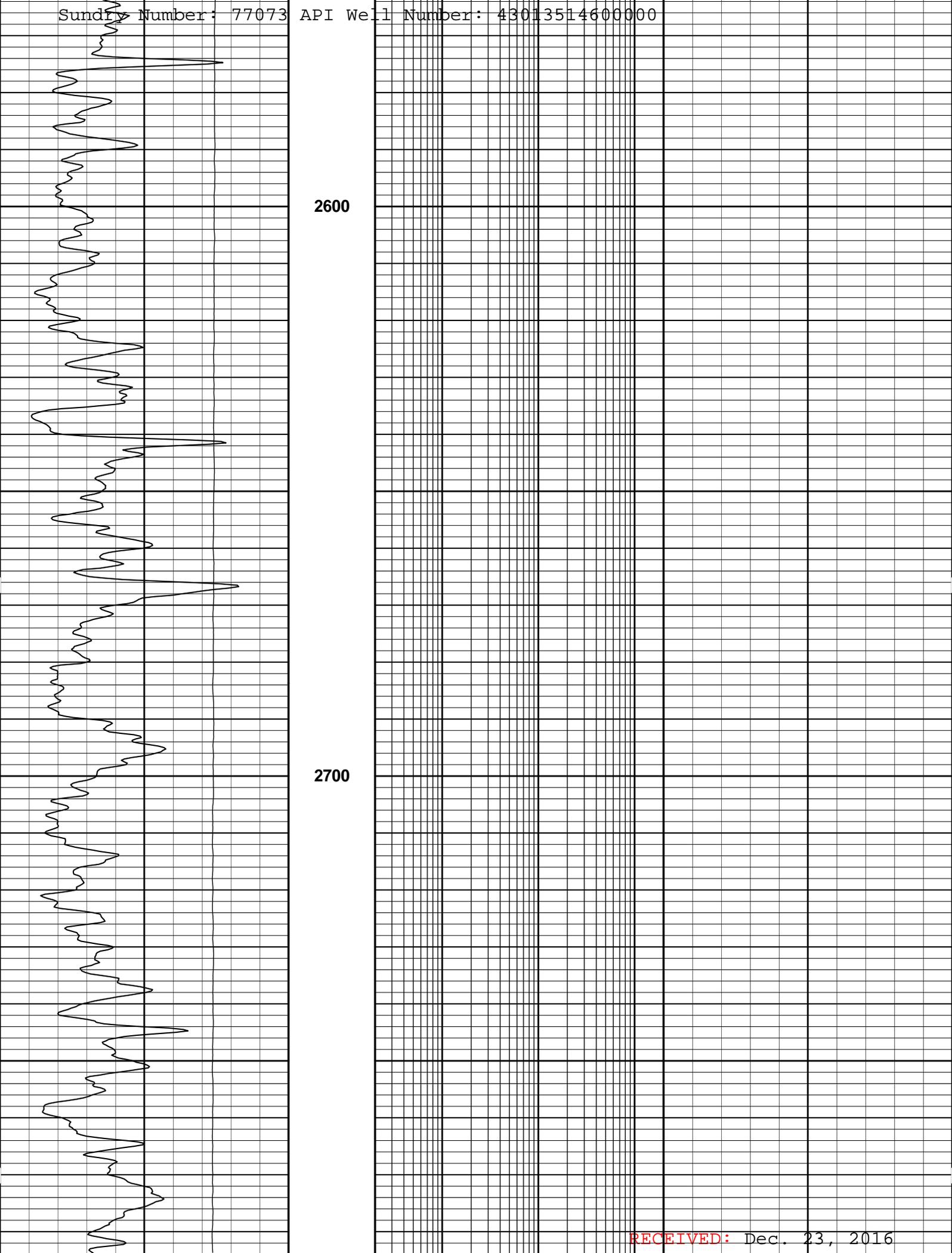
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2400

2500

TENSION



2600

2700

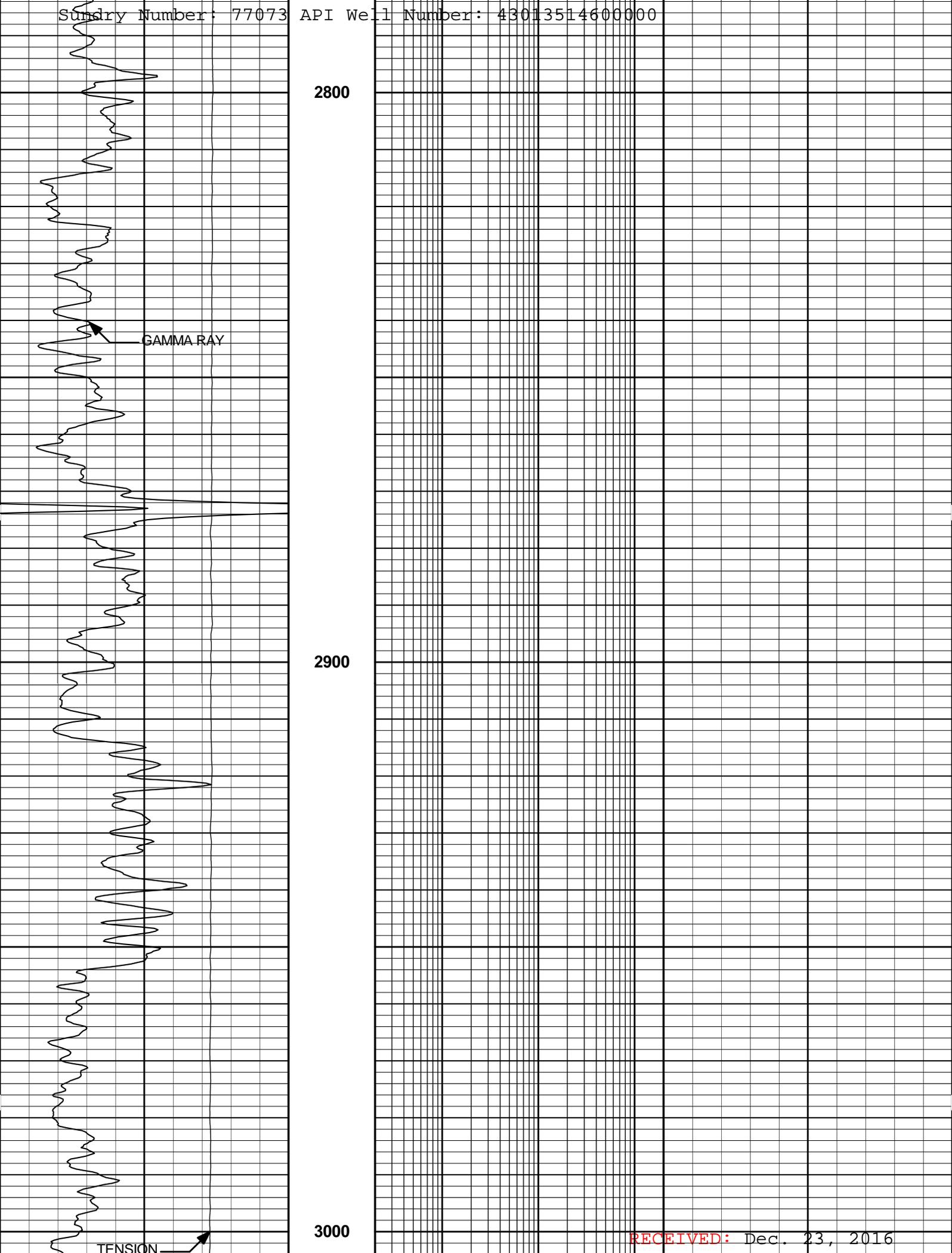
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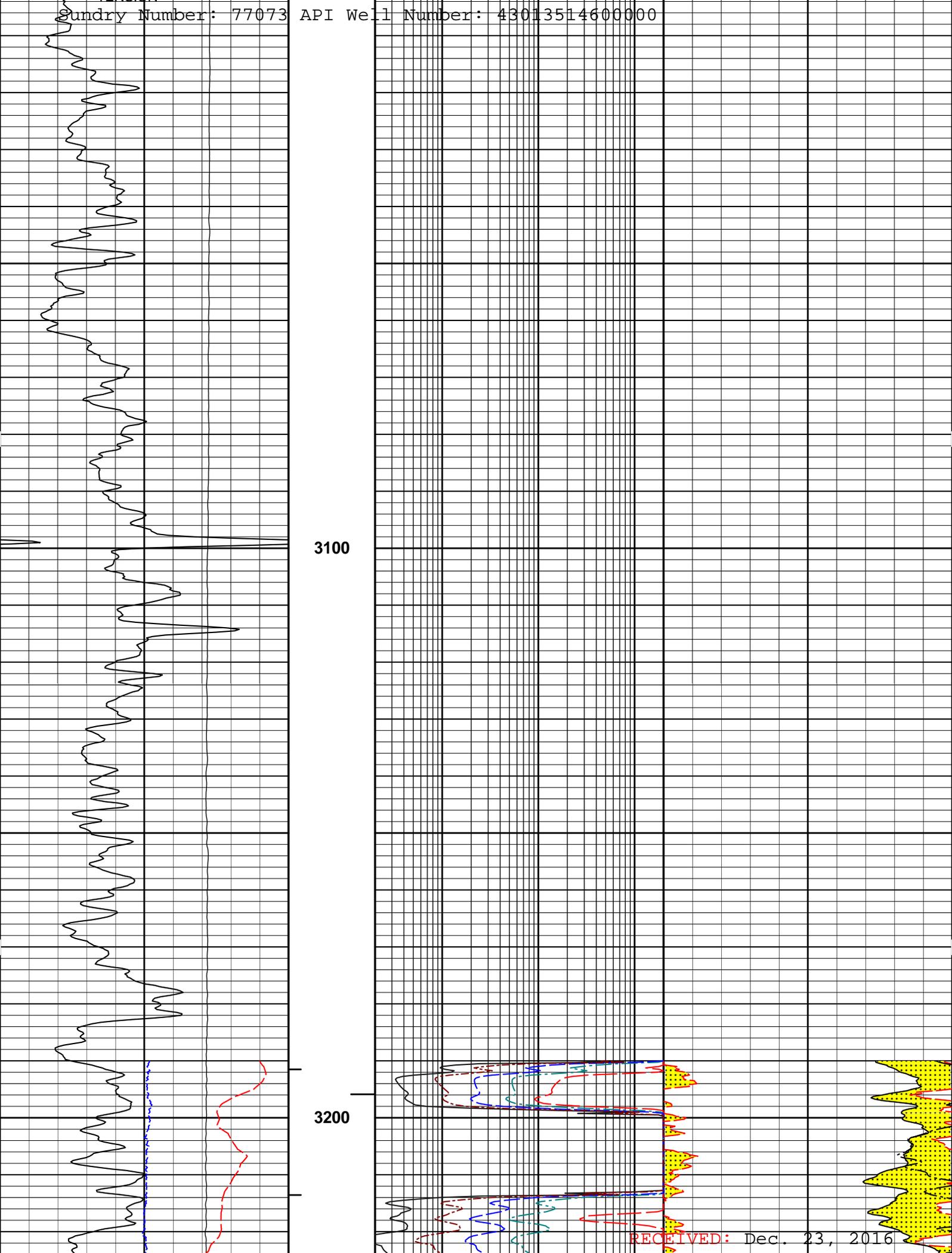
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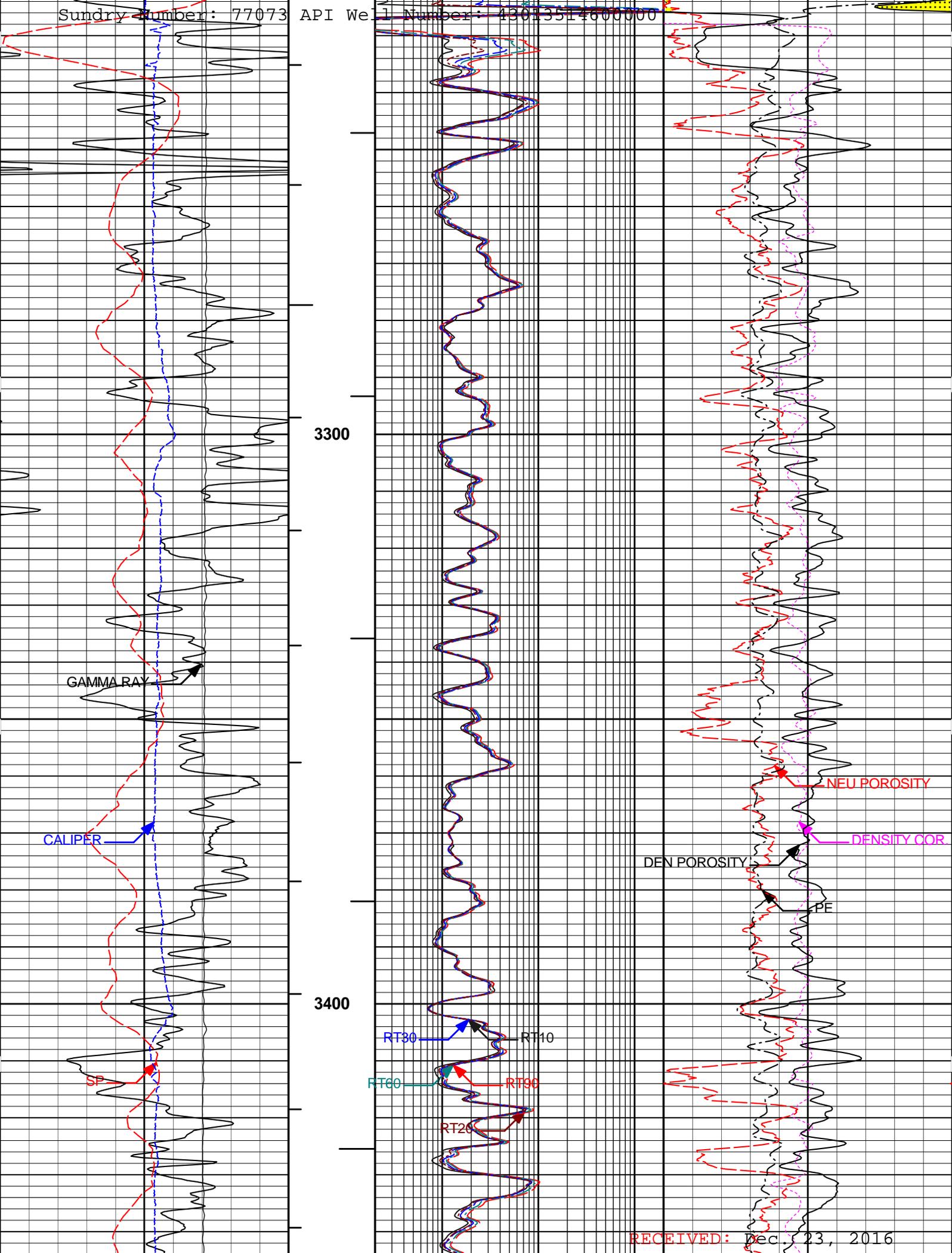
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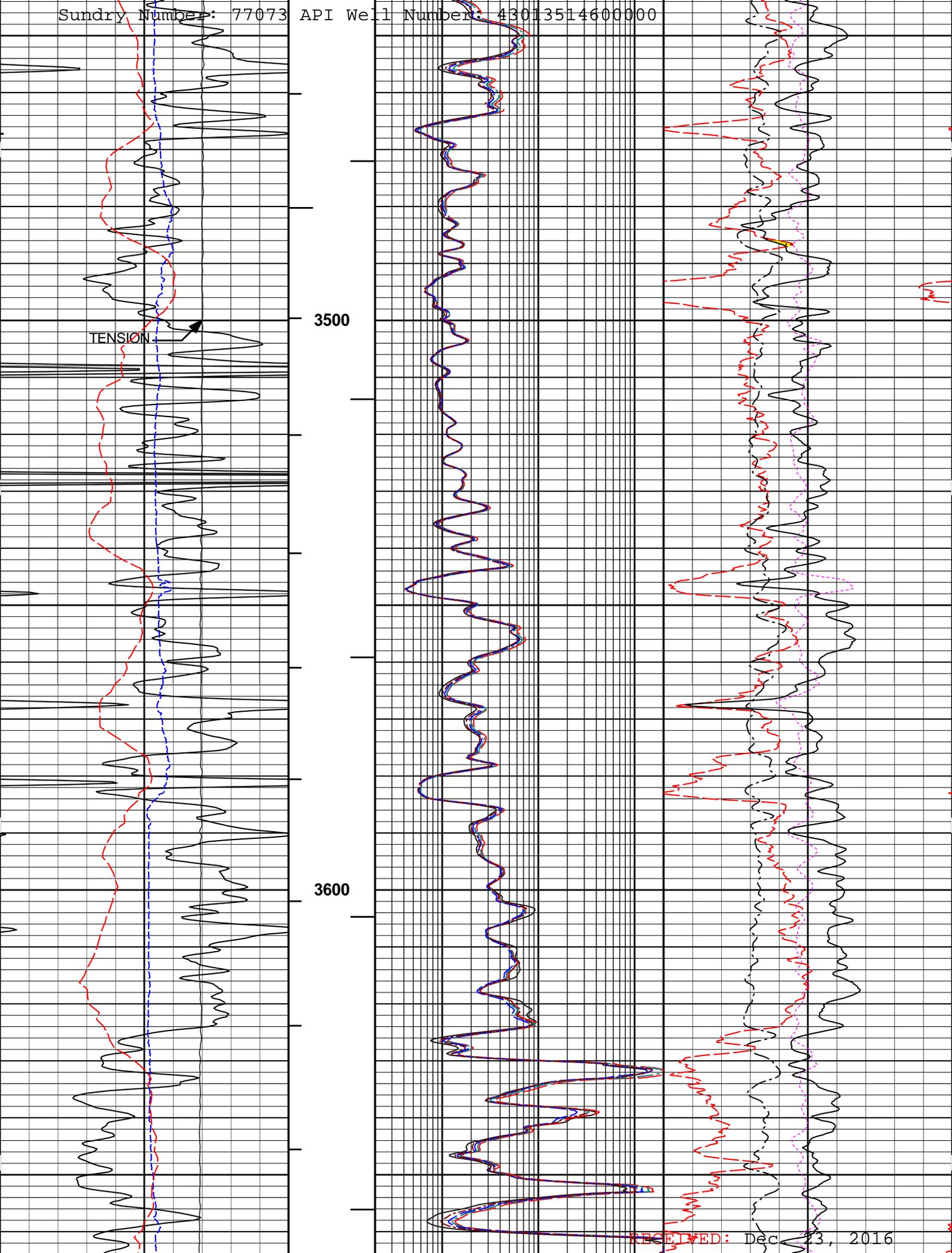


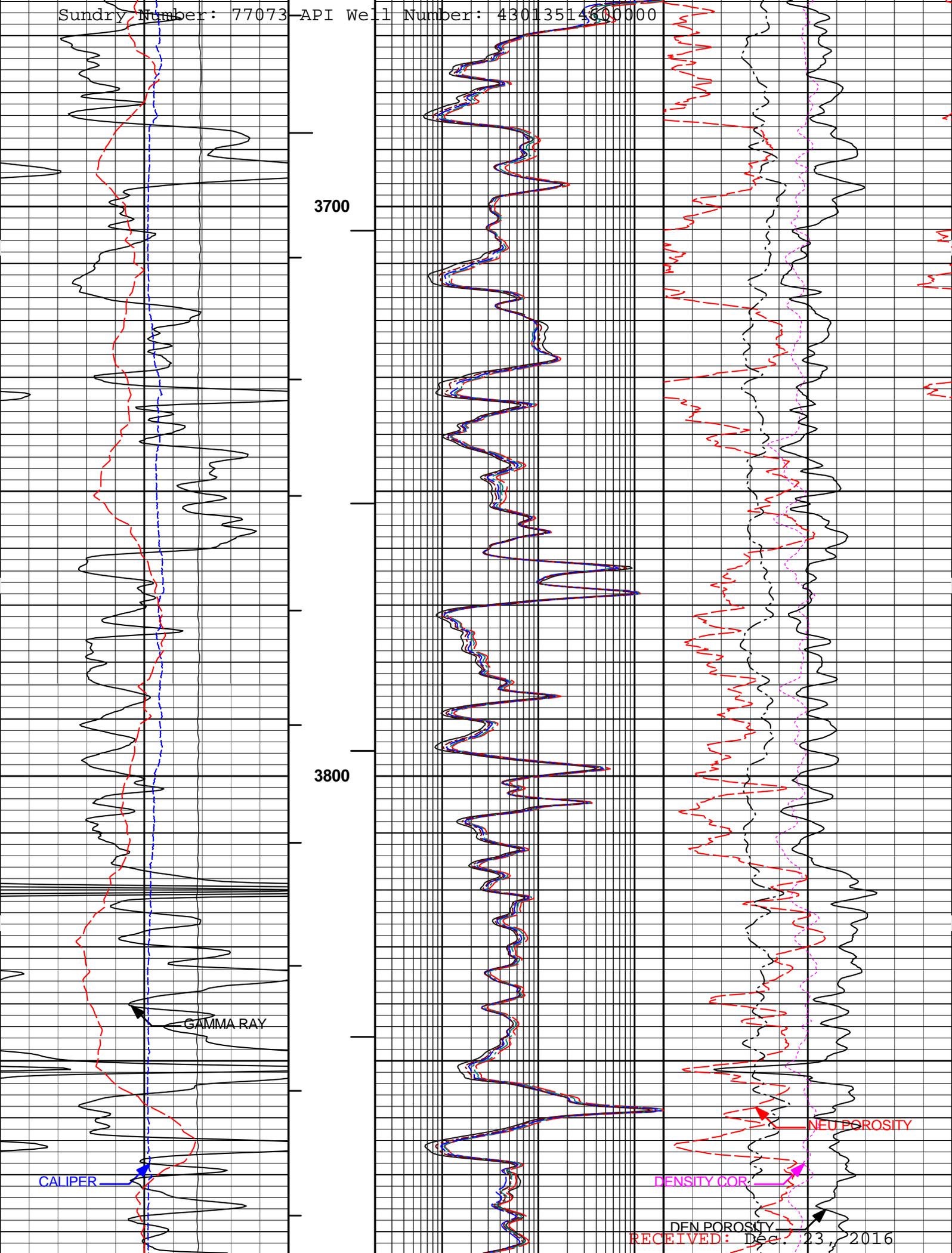


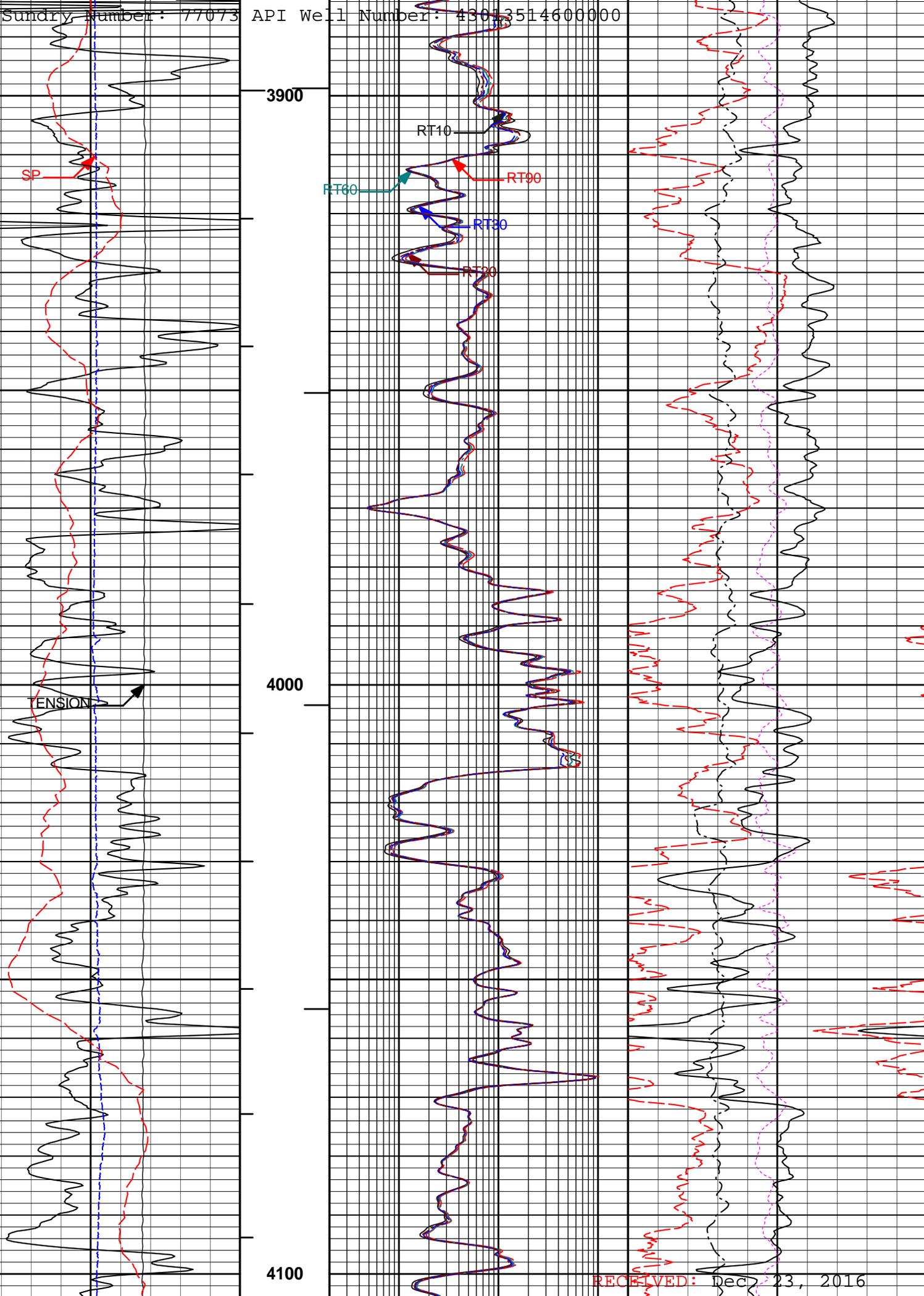
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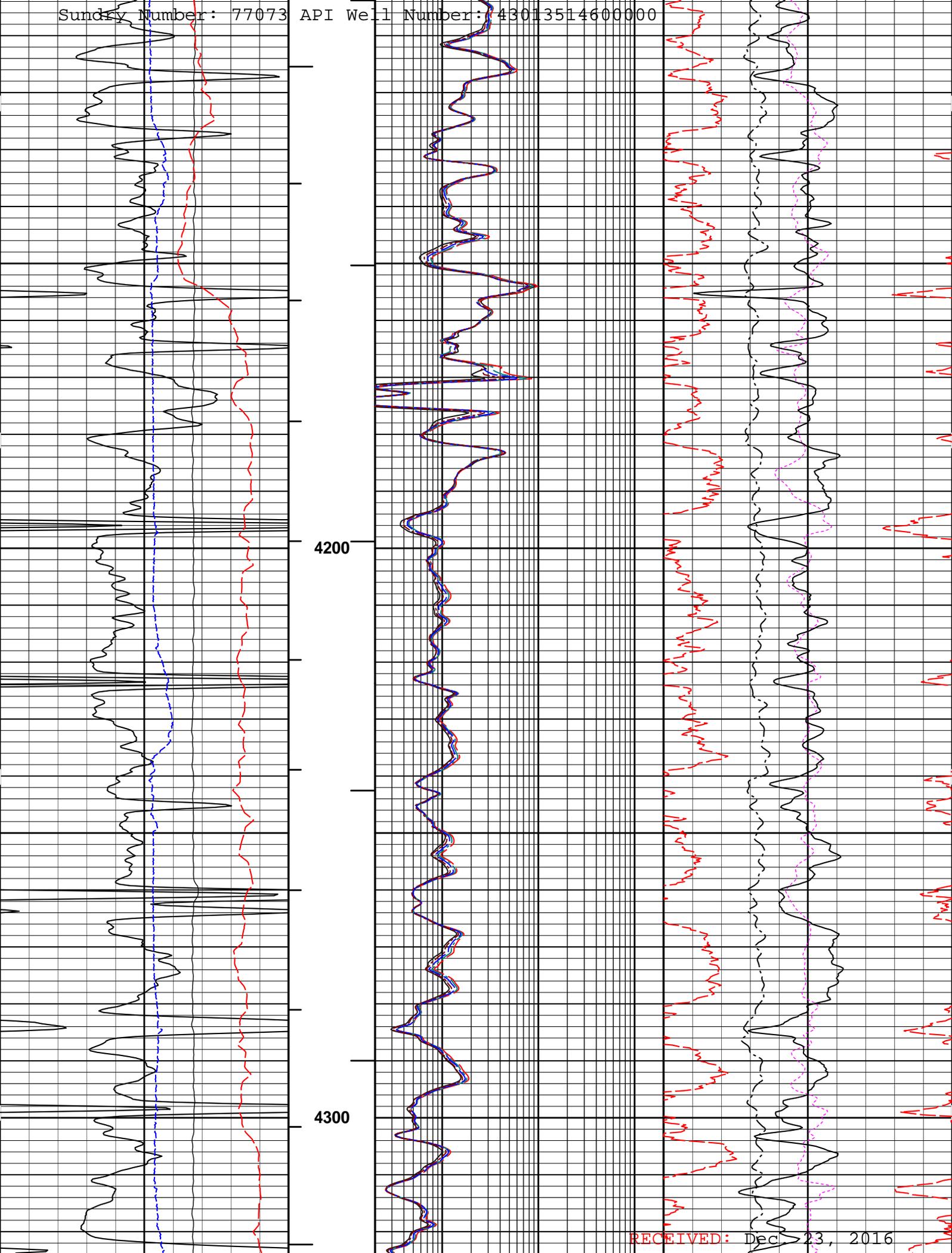
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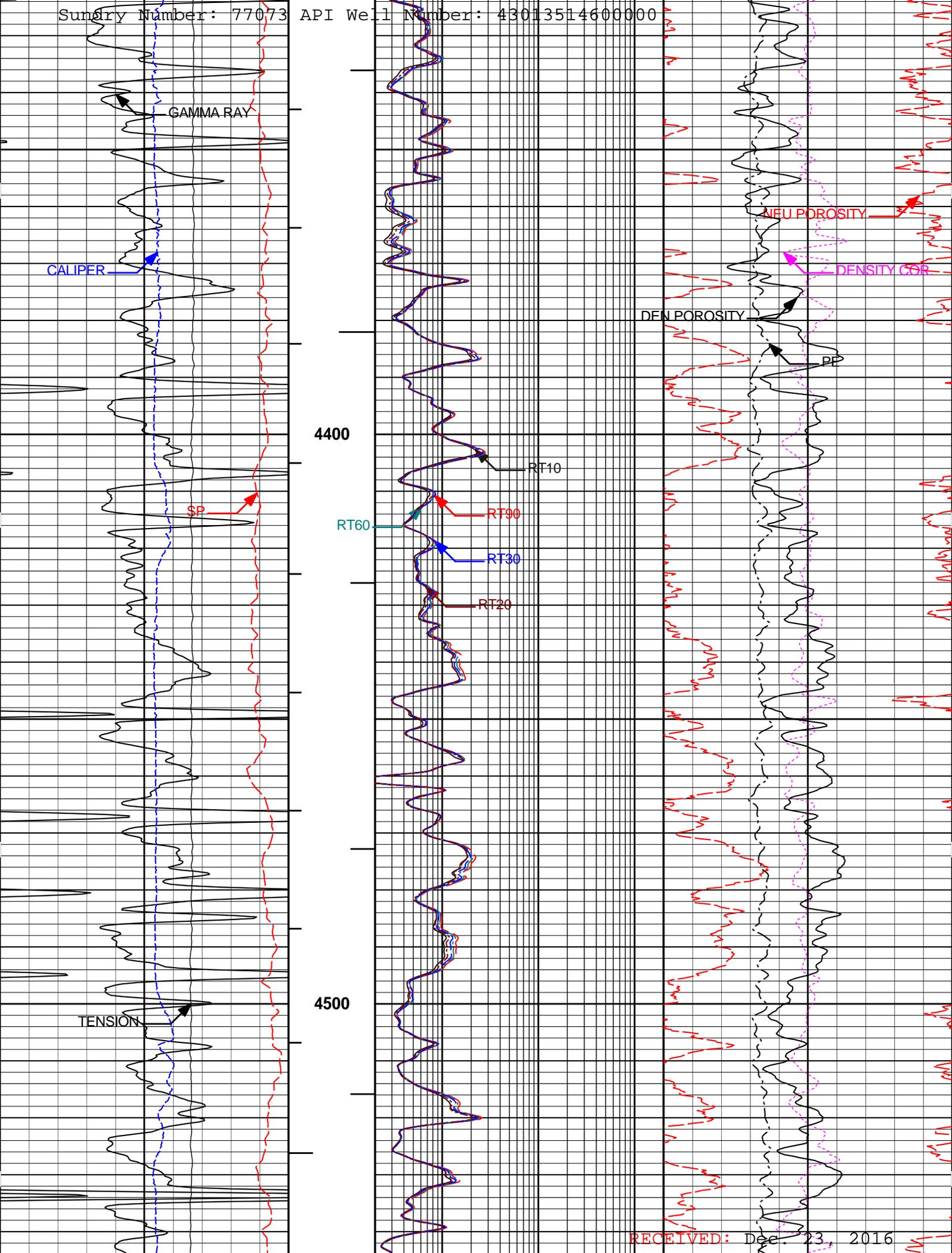


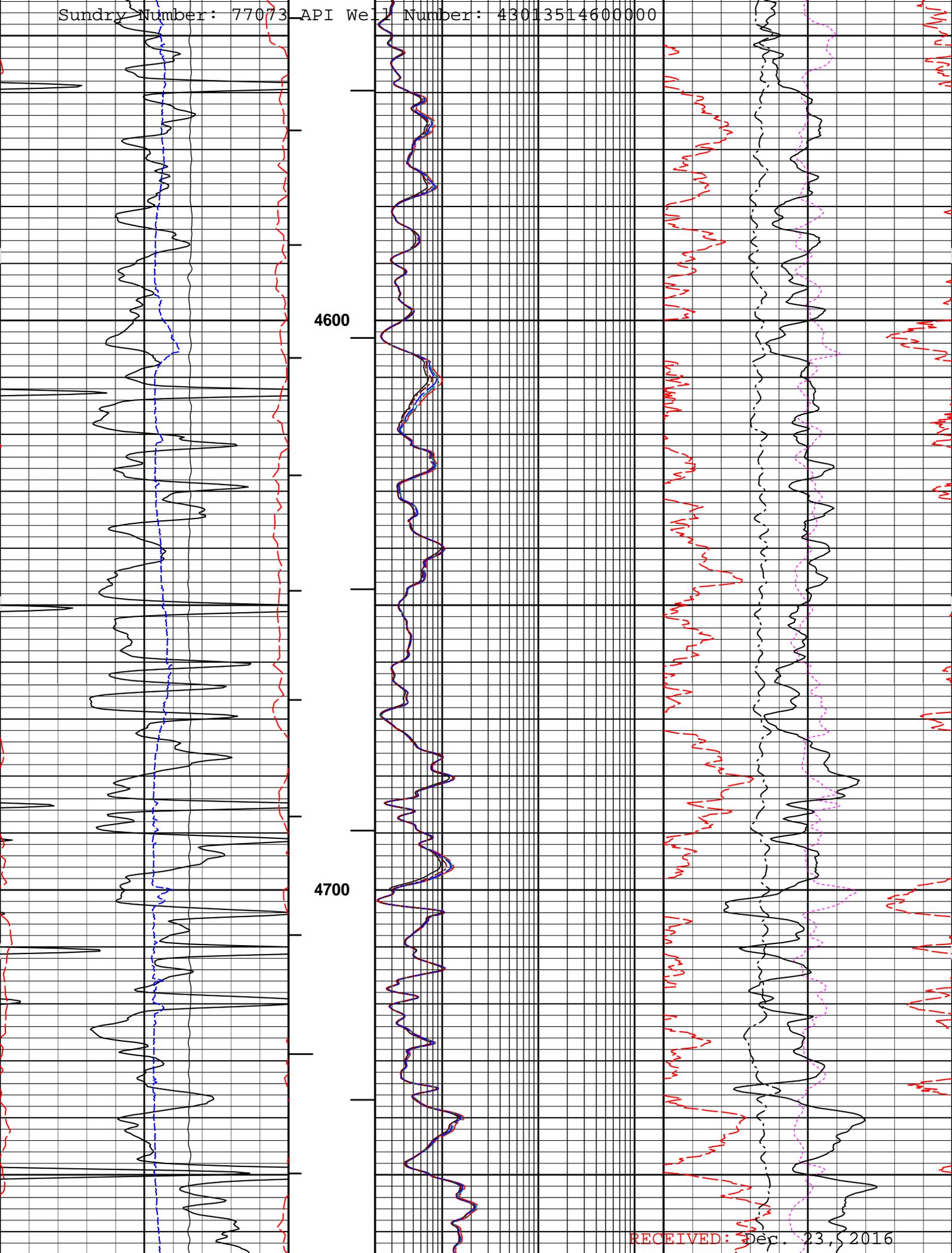


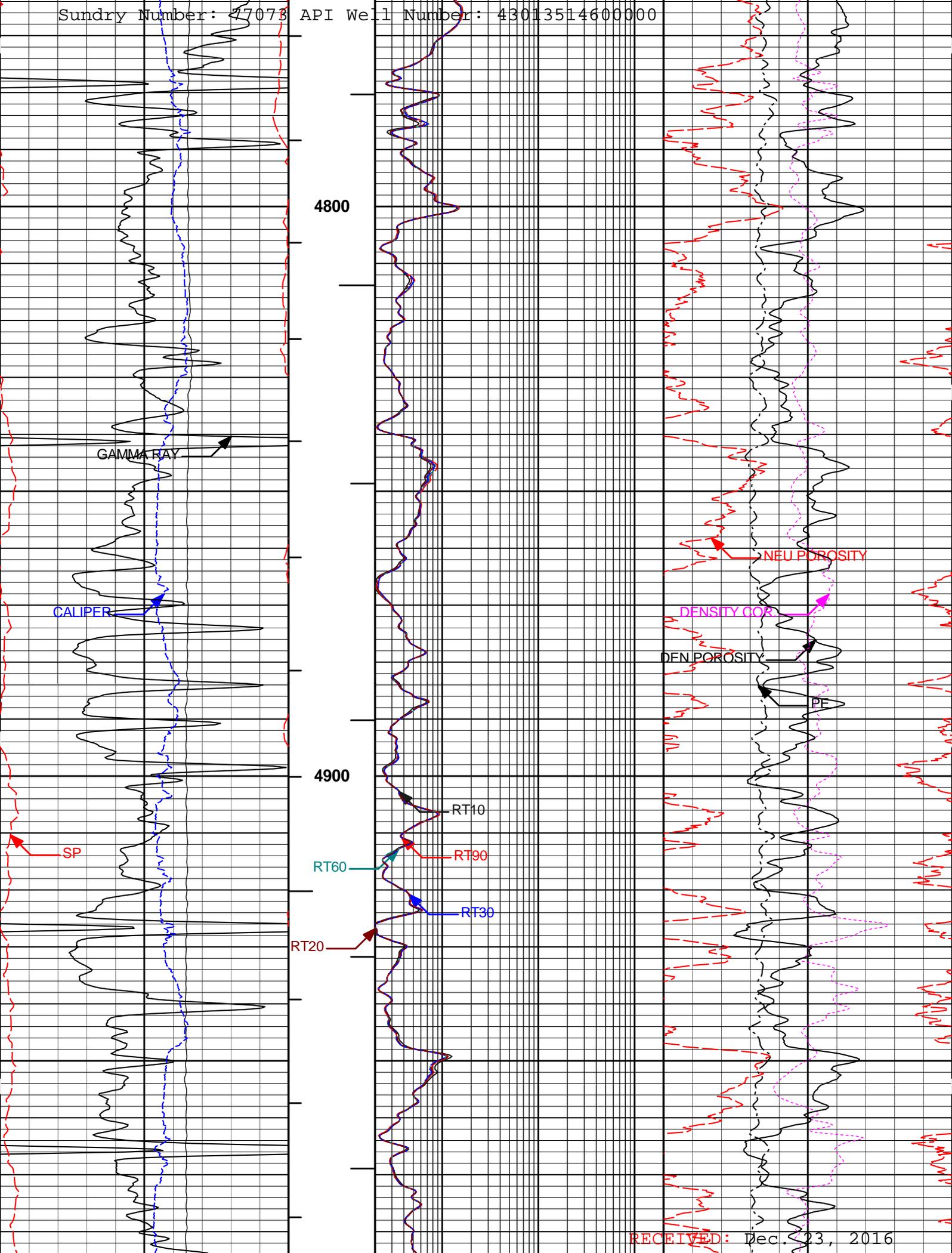


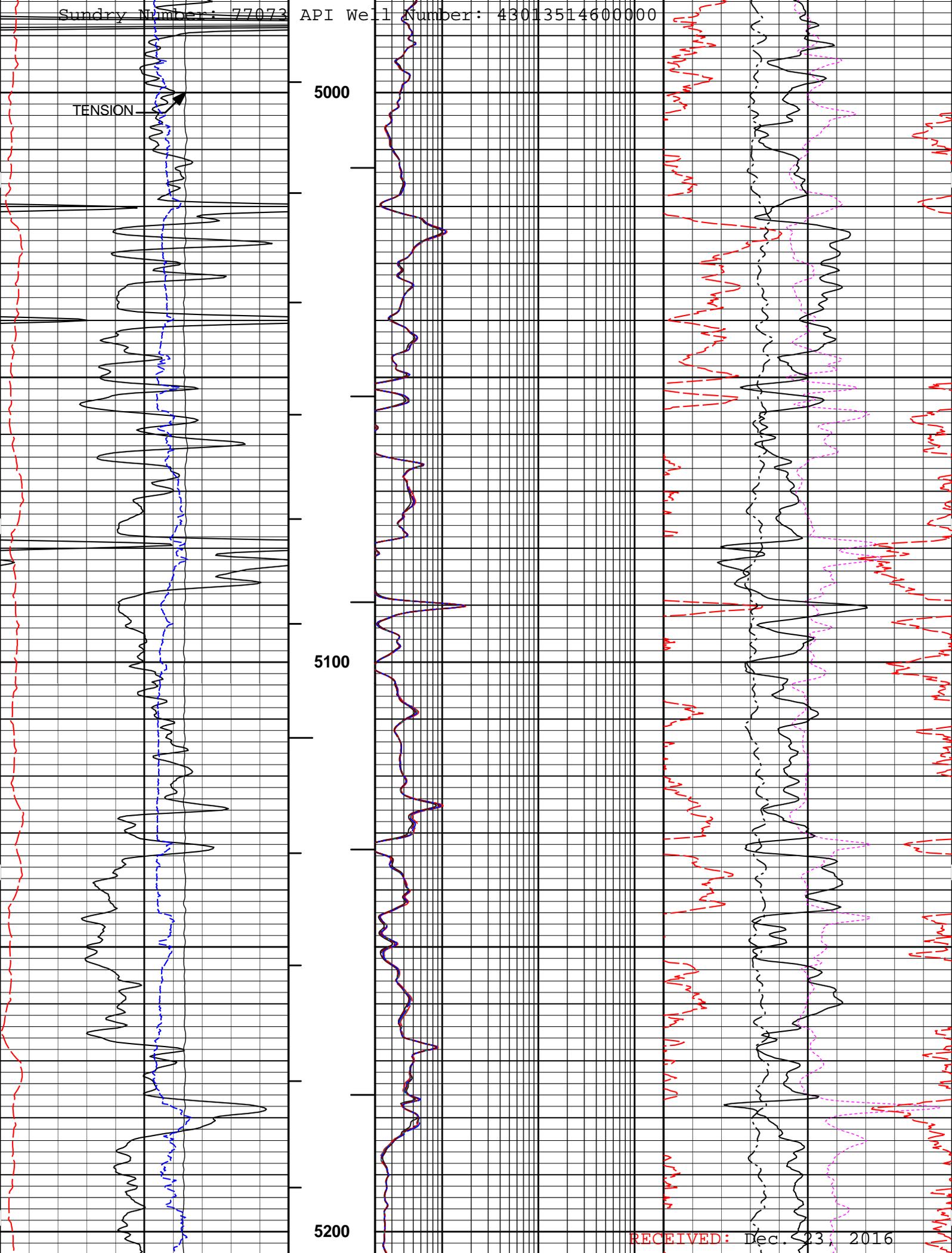


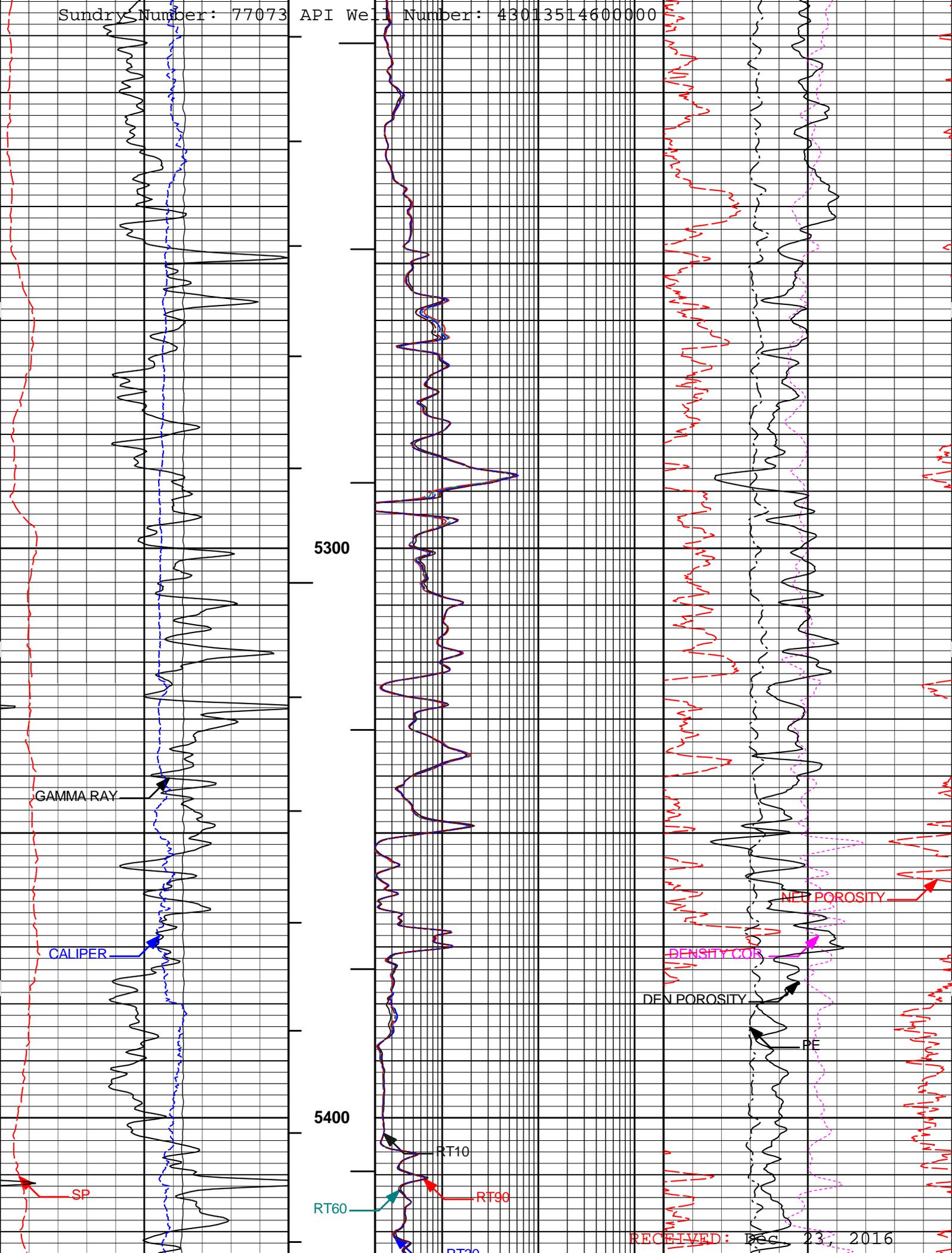


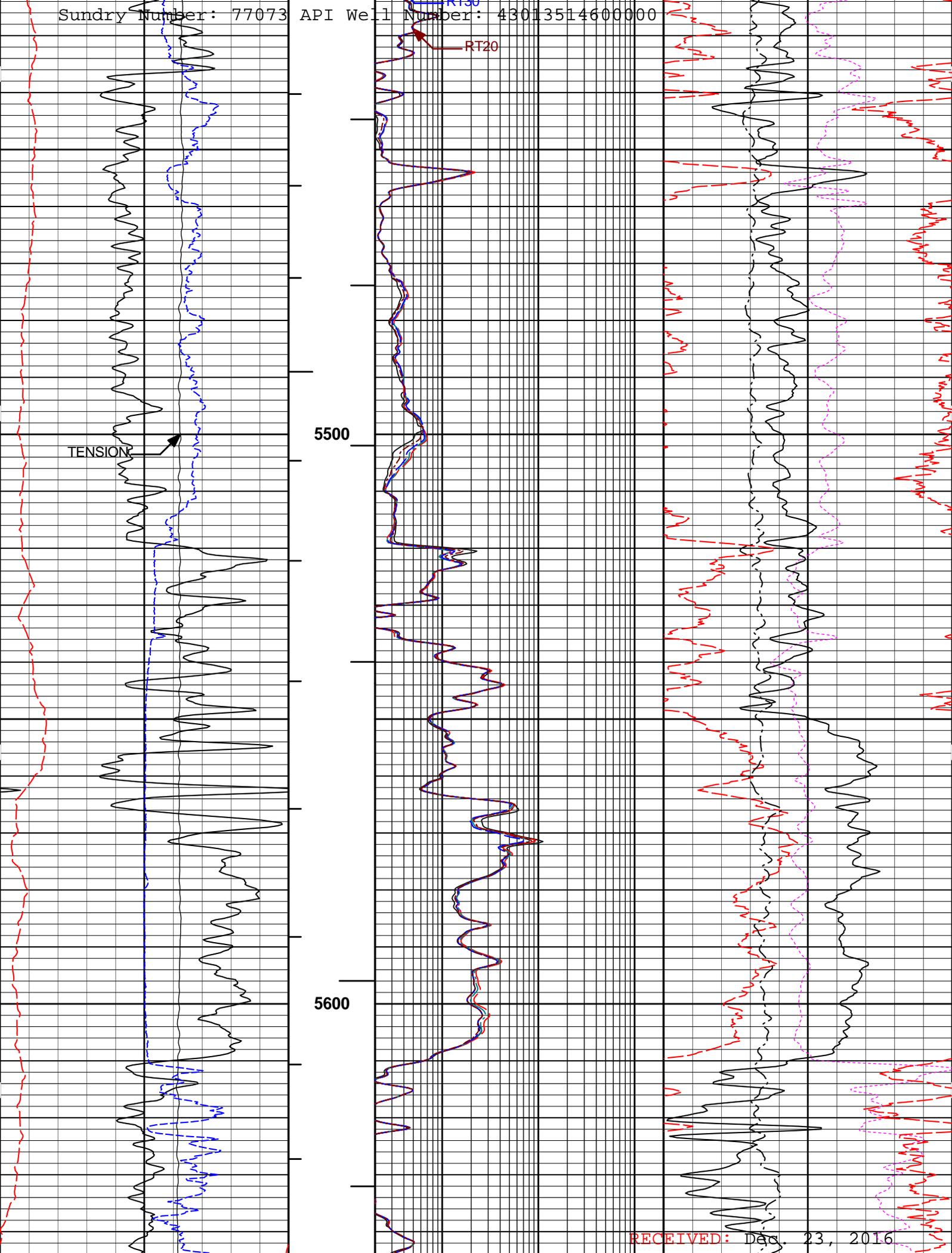


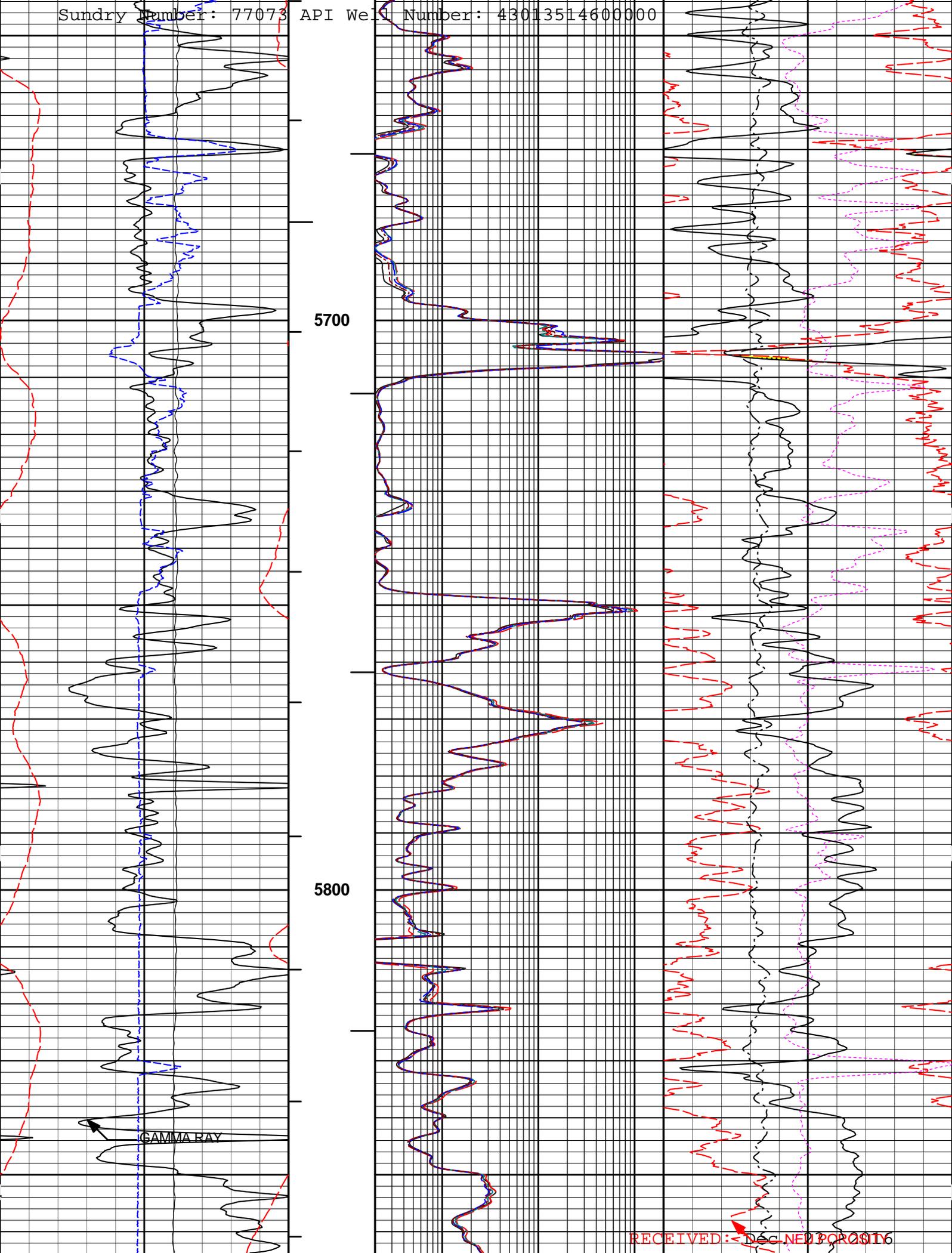


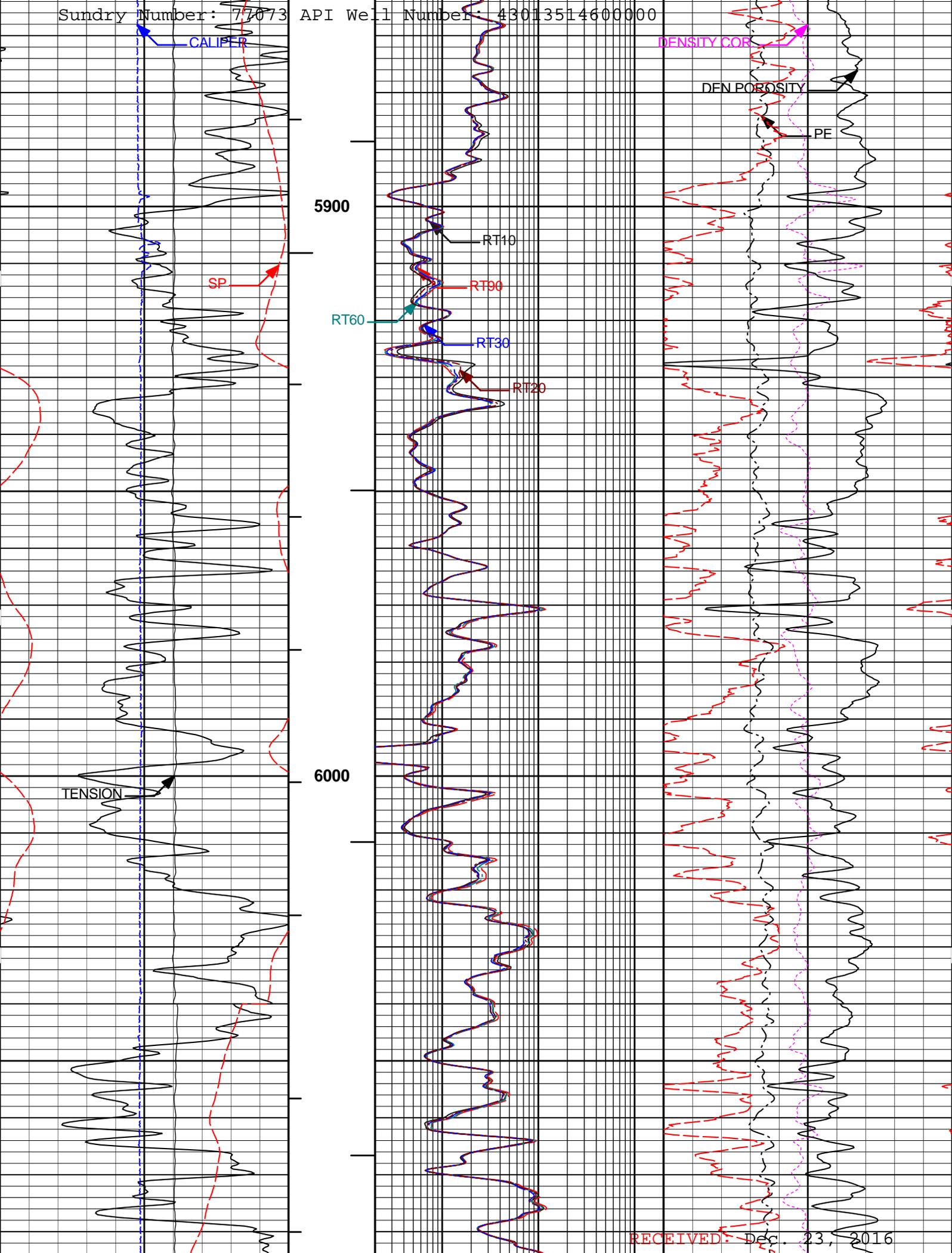


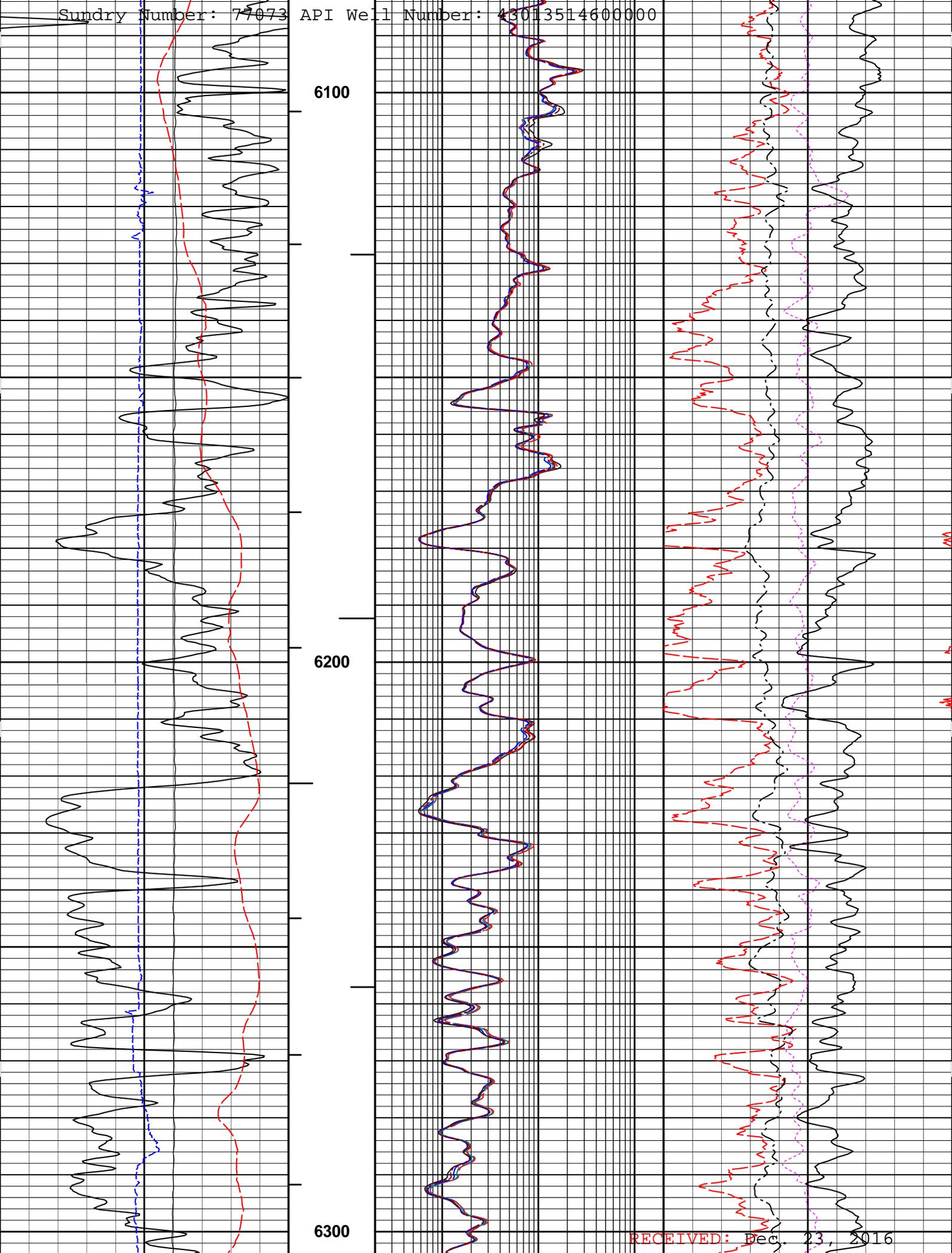


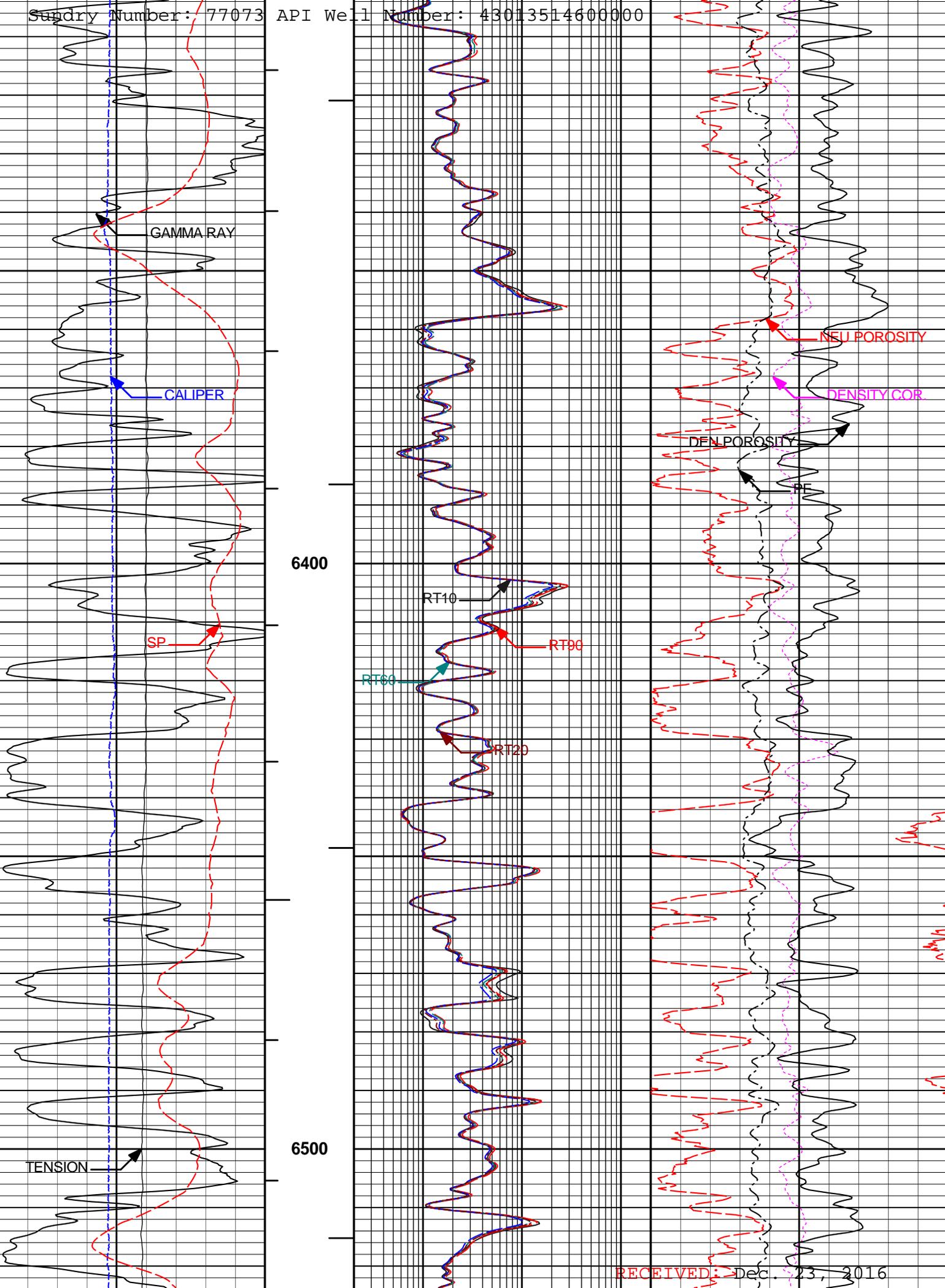


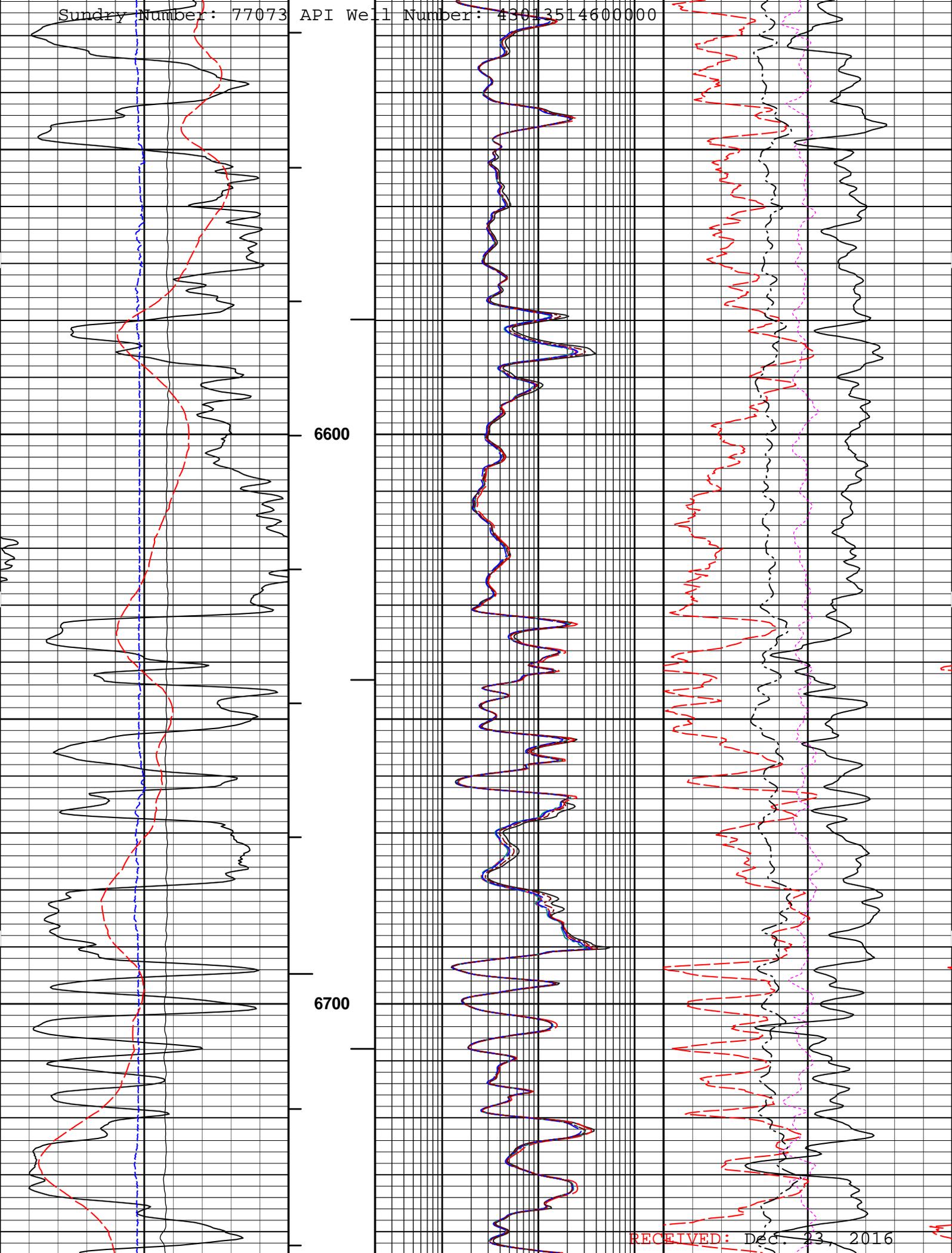


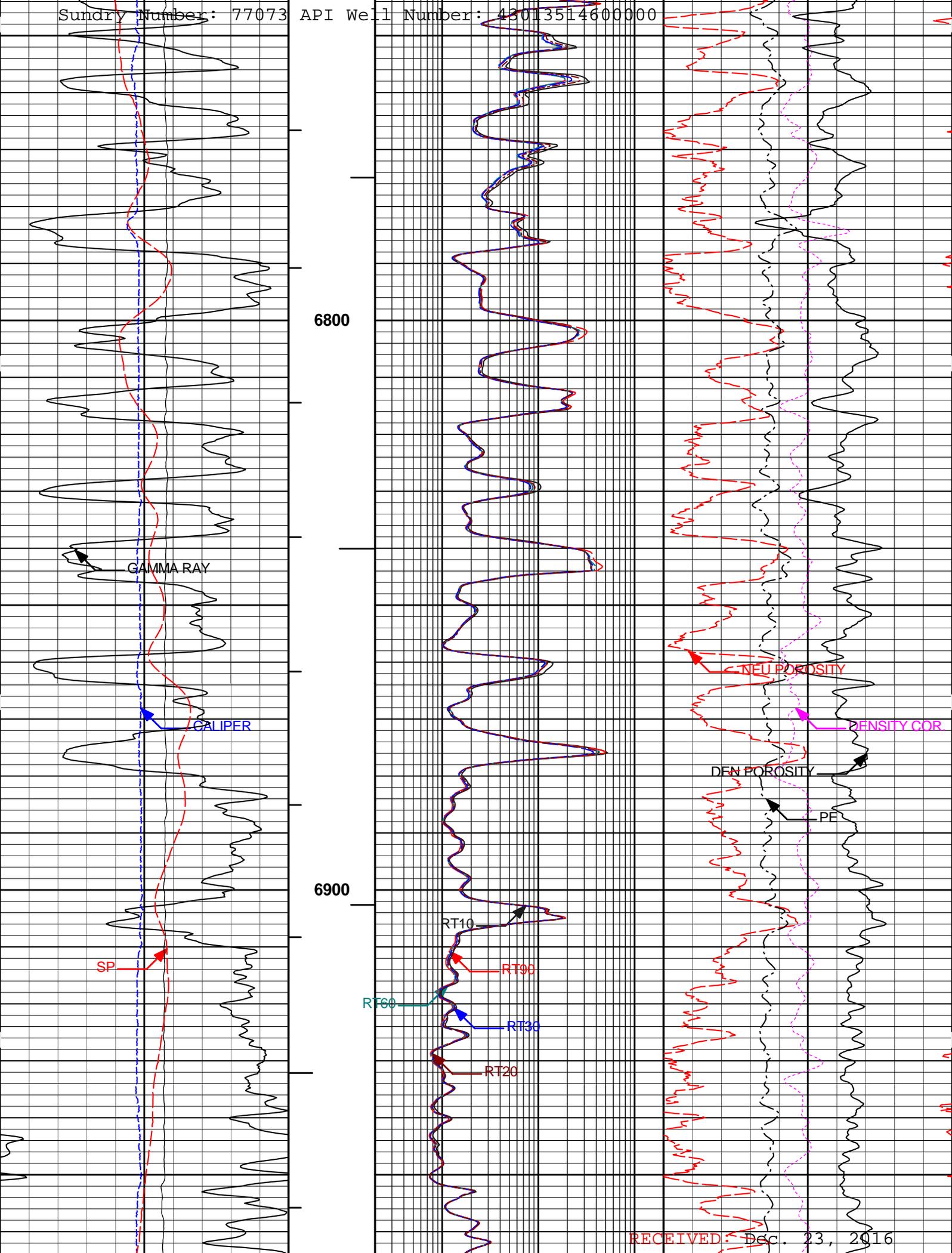


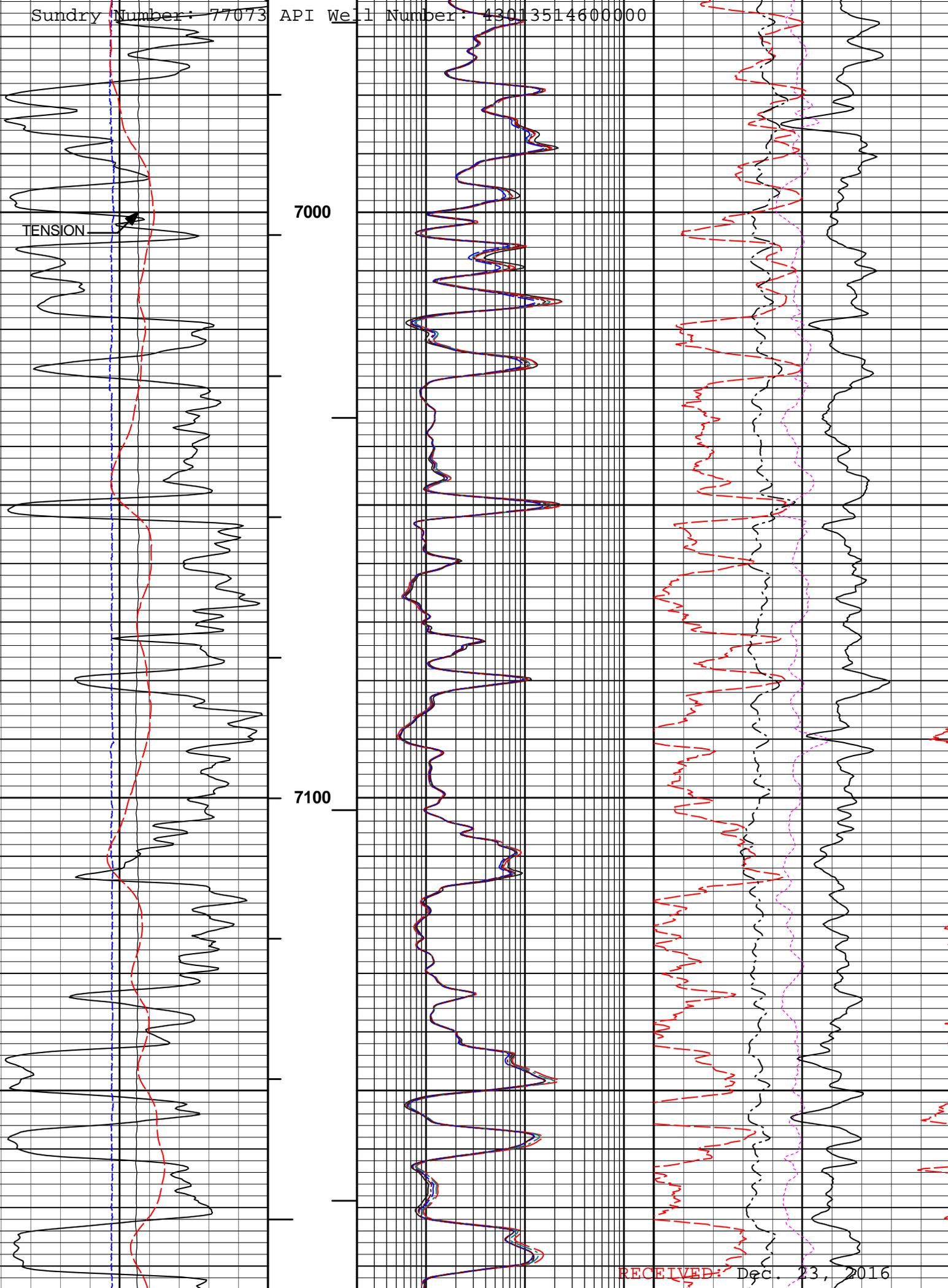


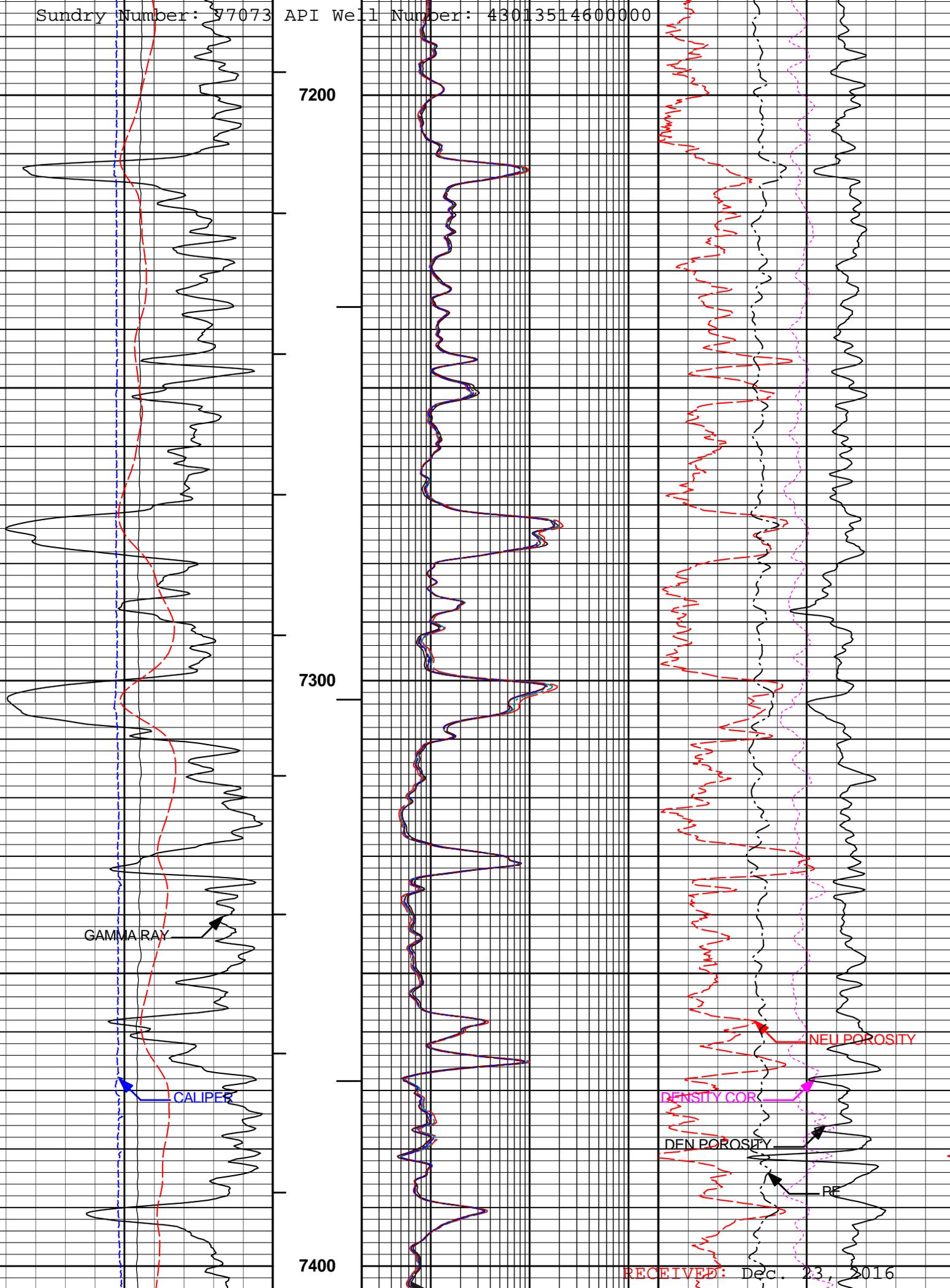


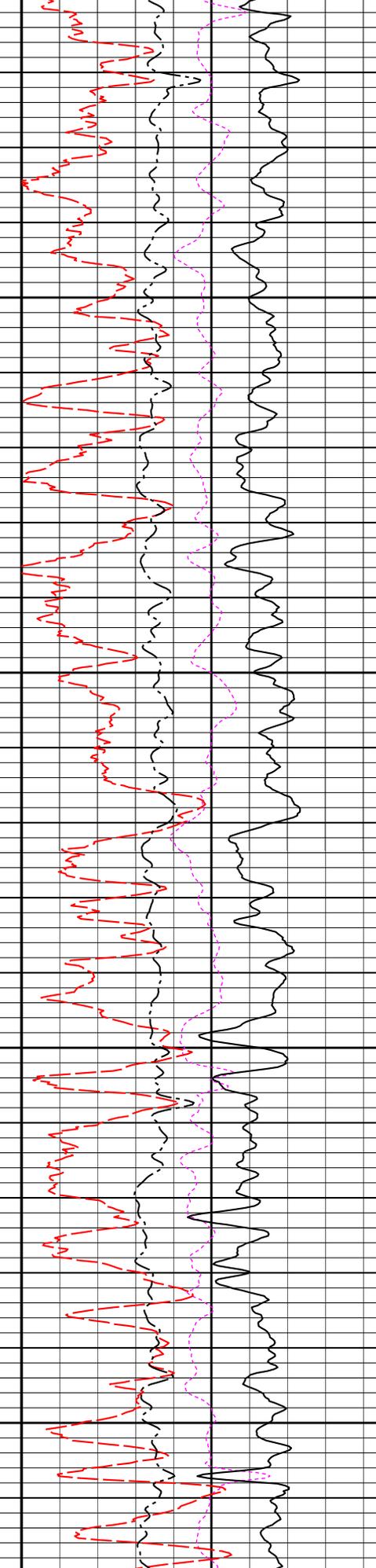
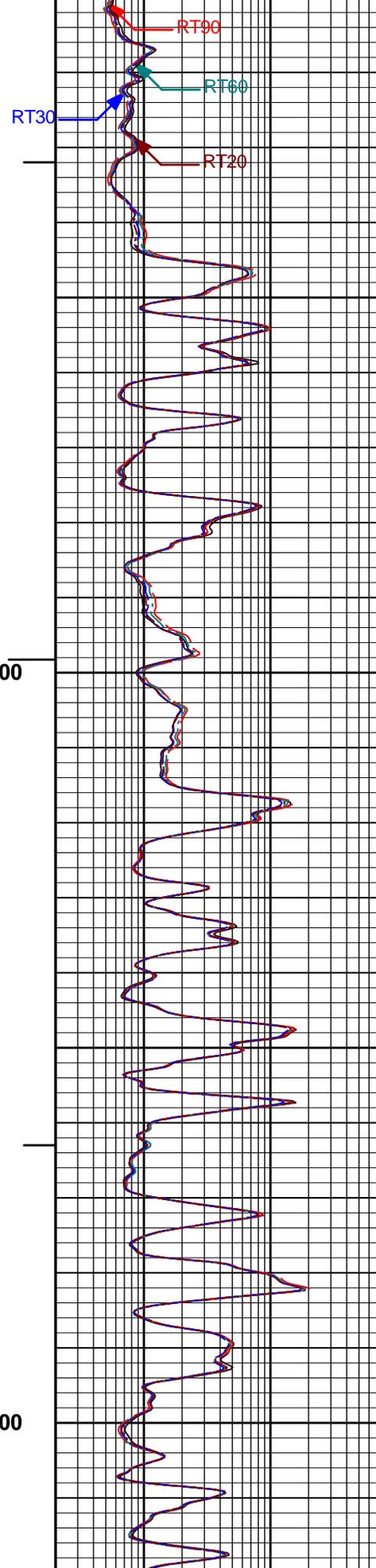
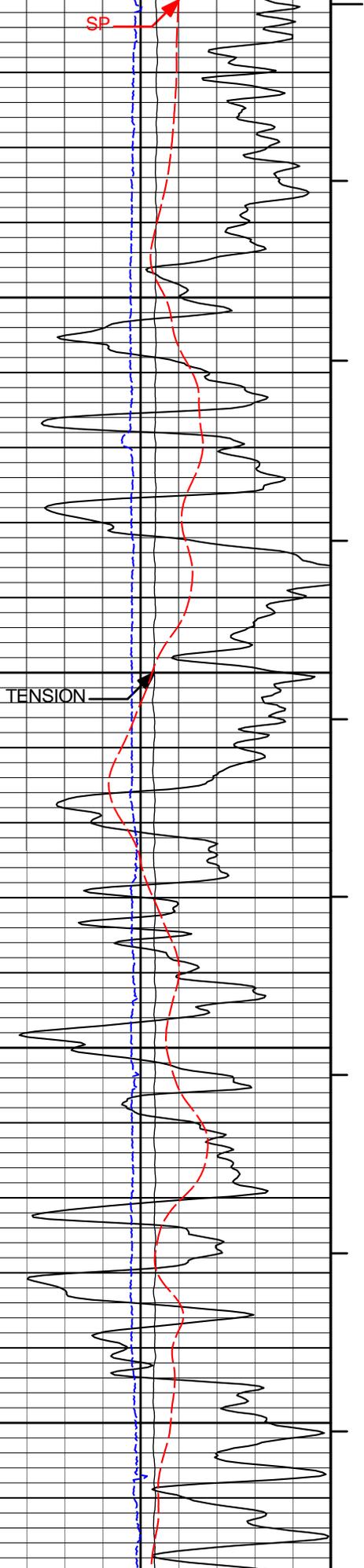


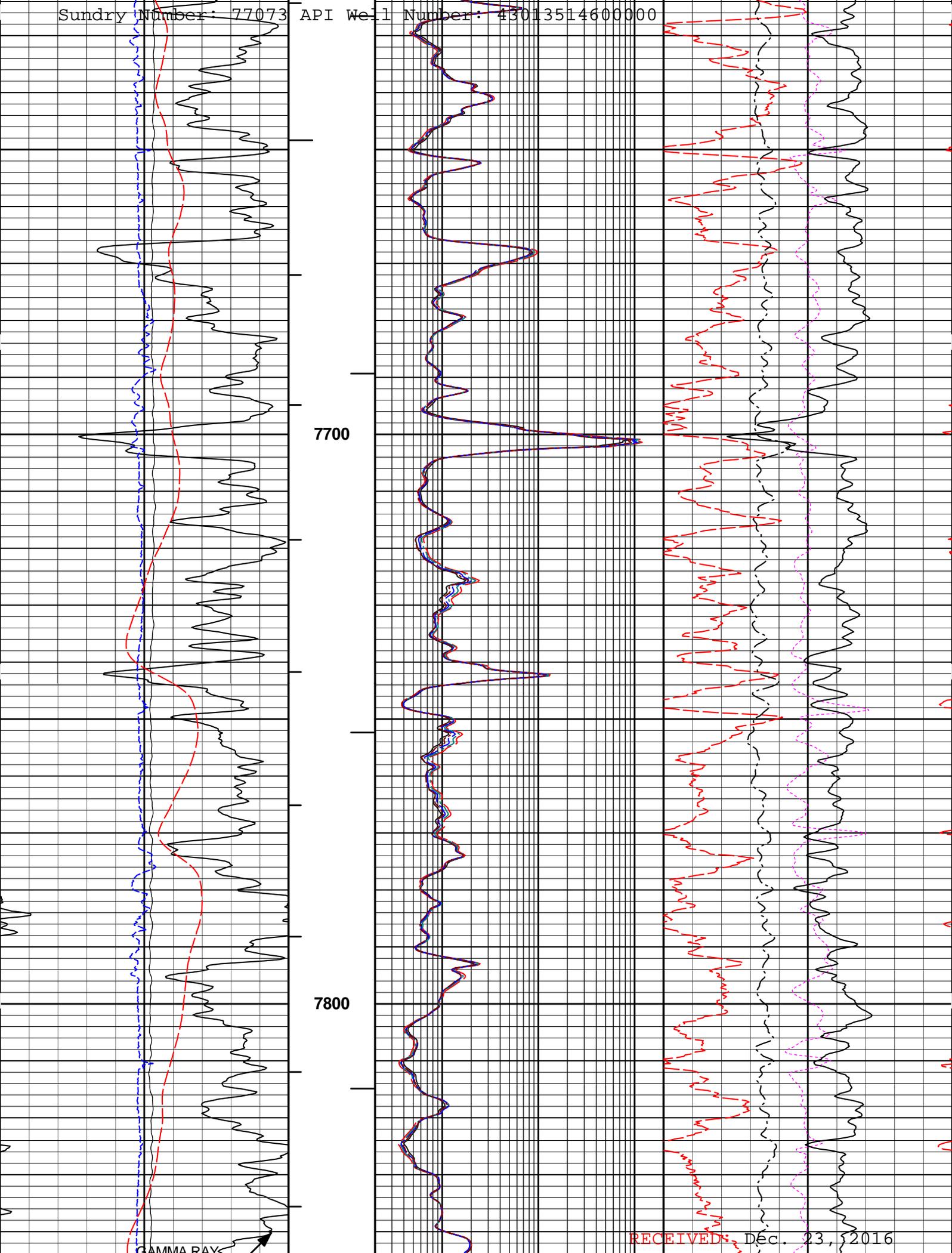






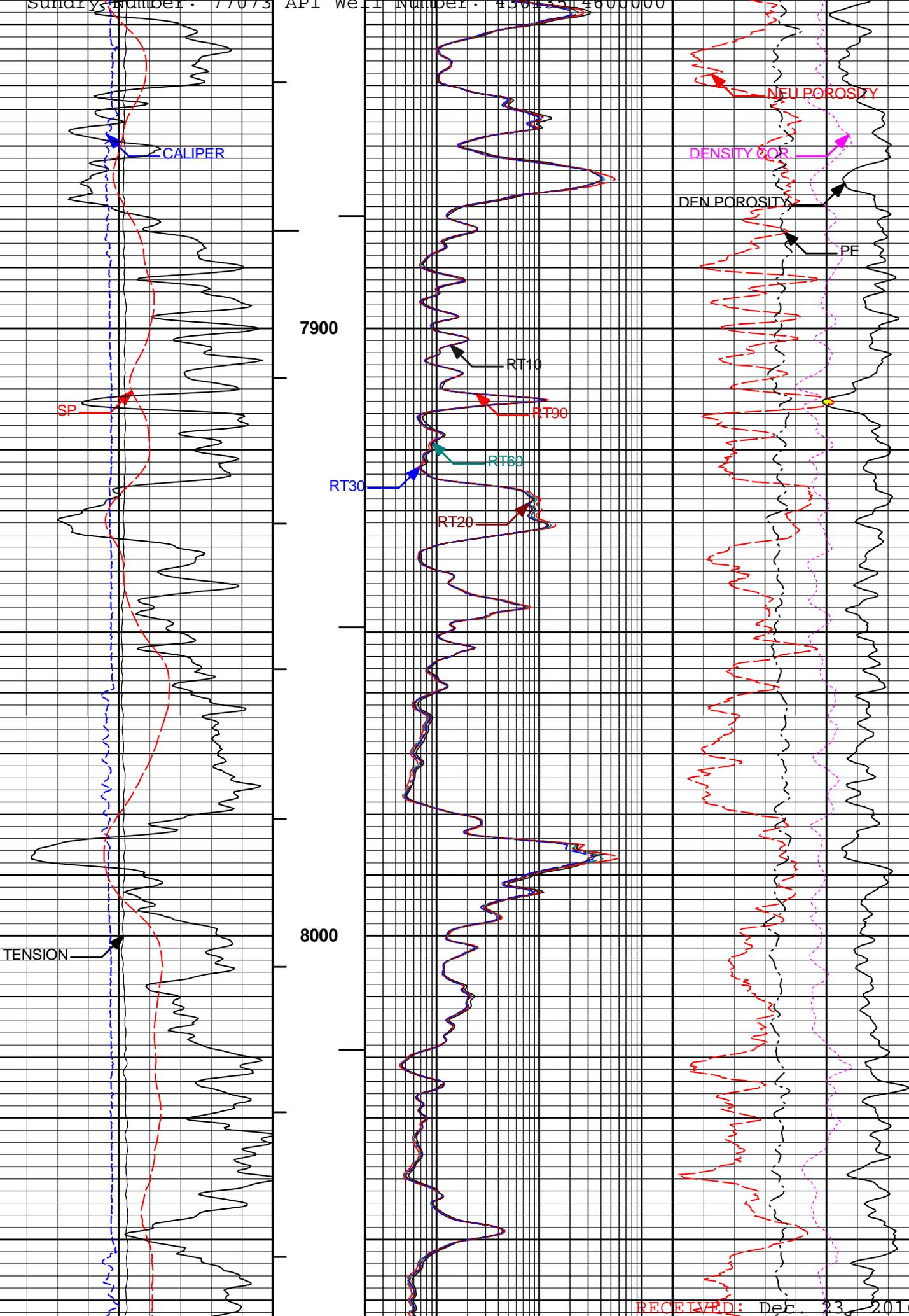


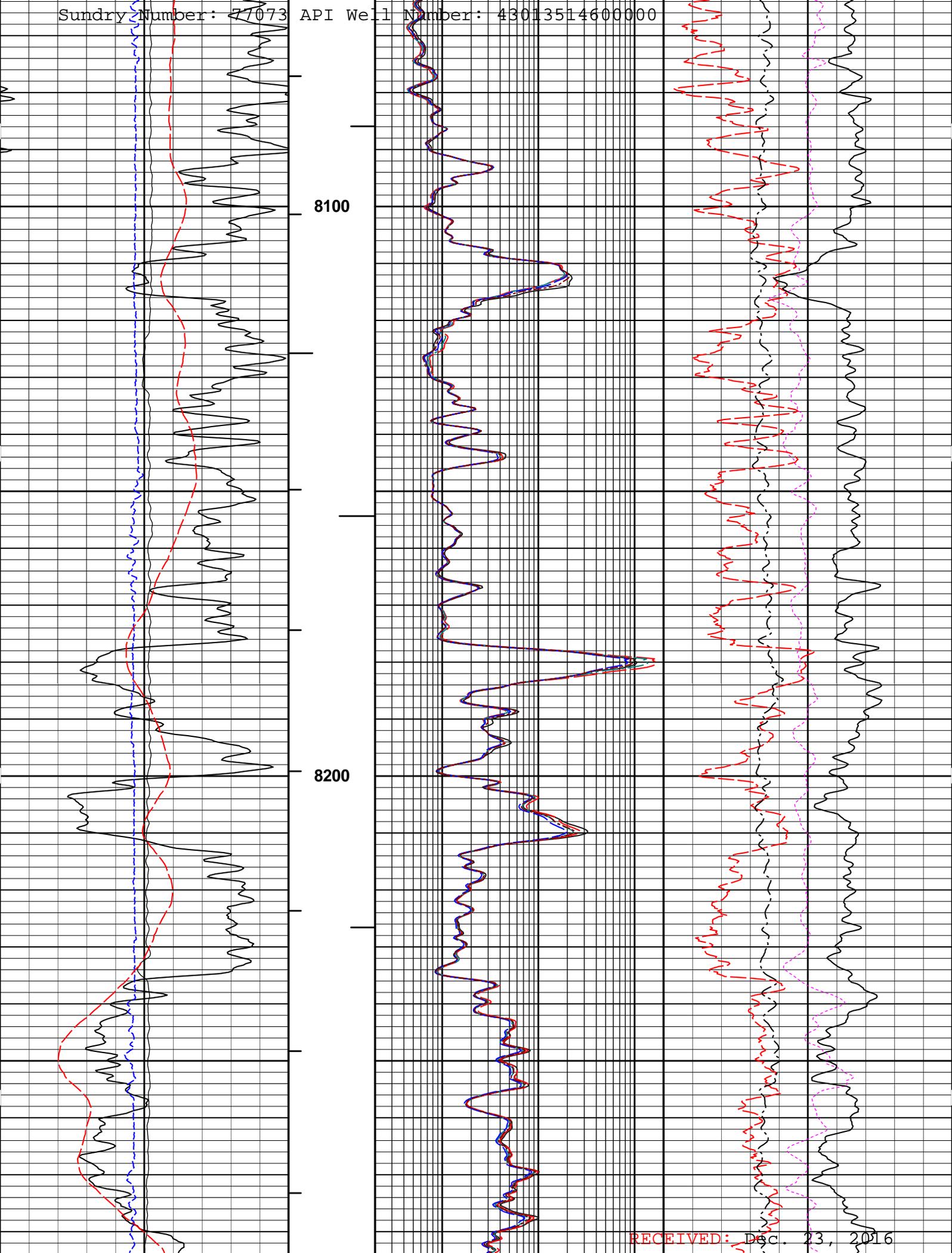


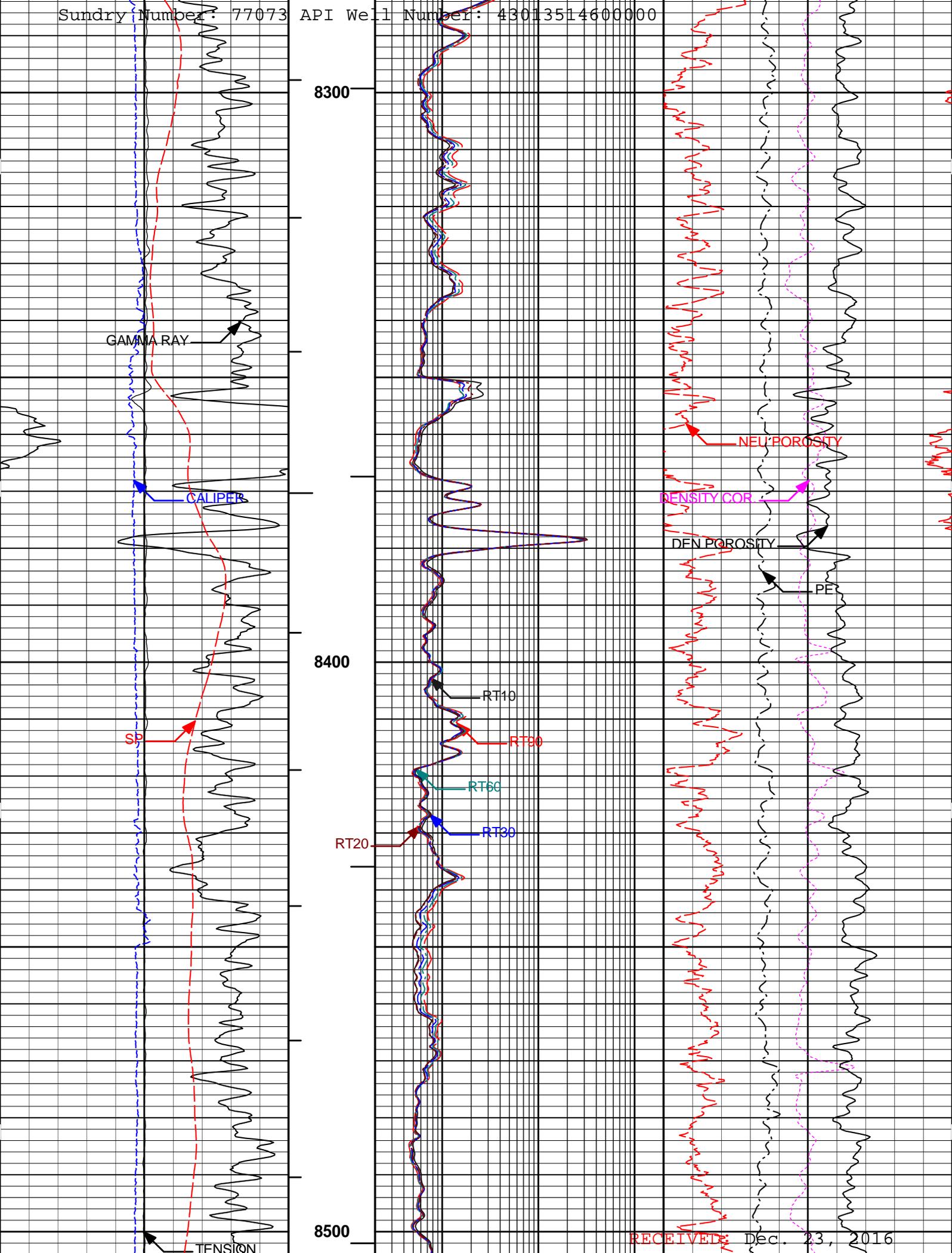


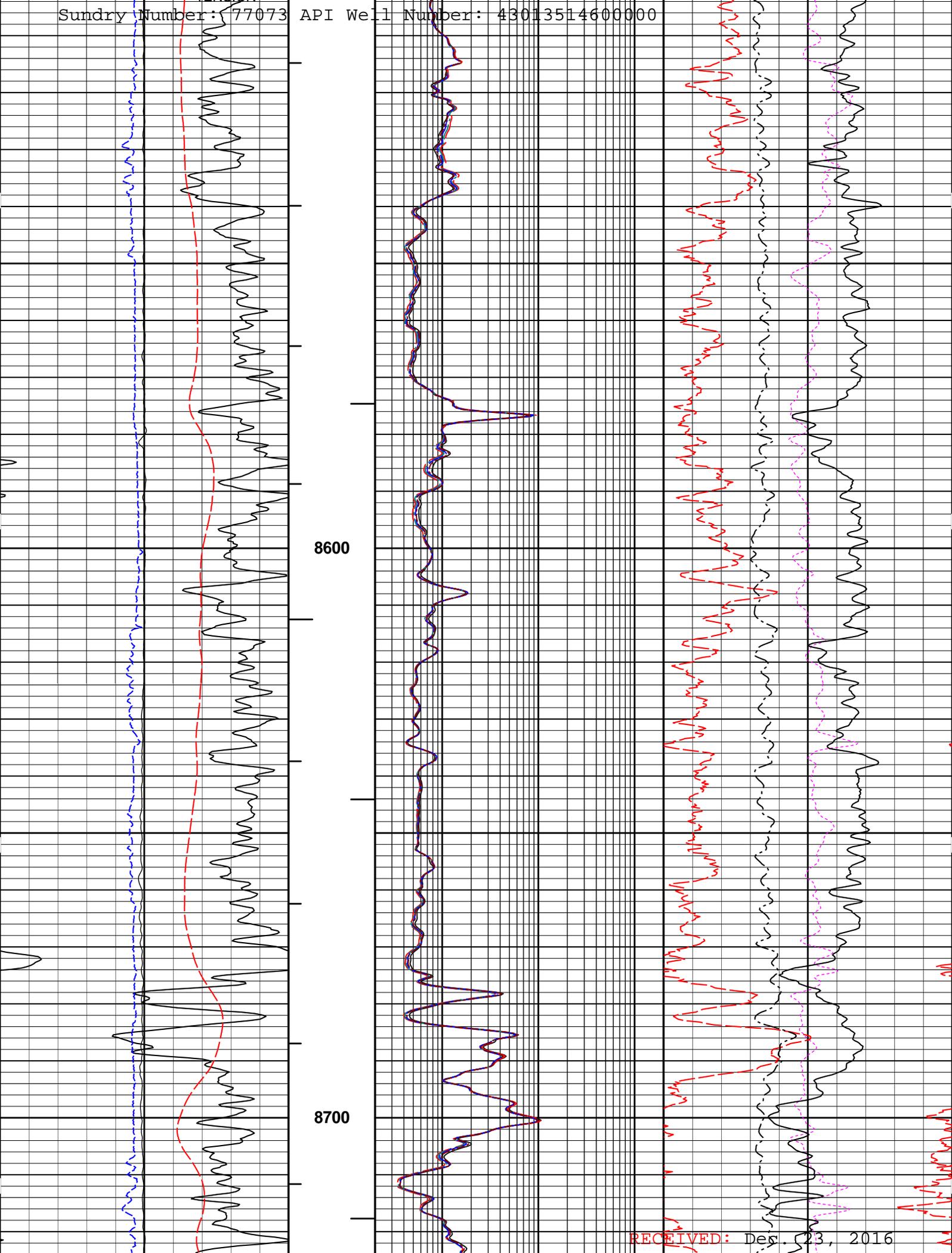
GAMMA RAY

RECEIVED Dec. 23, 2016



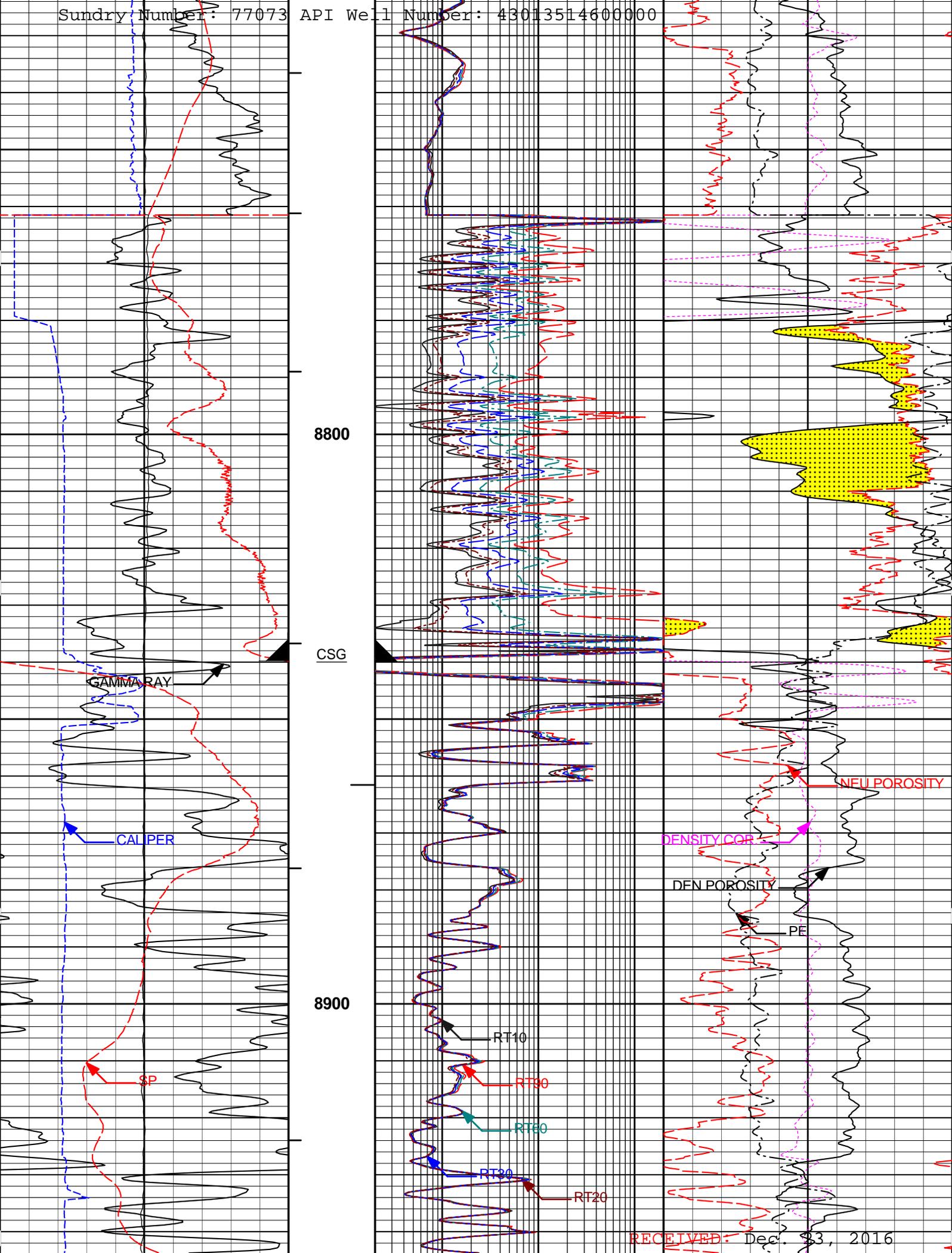


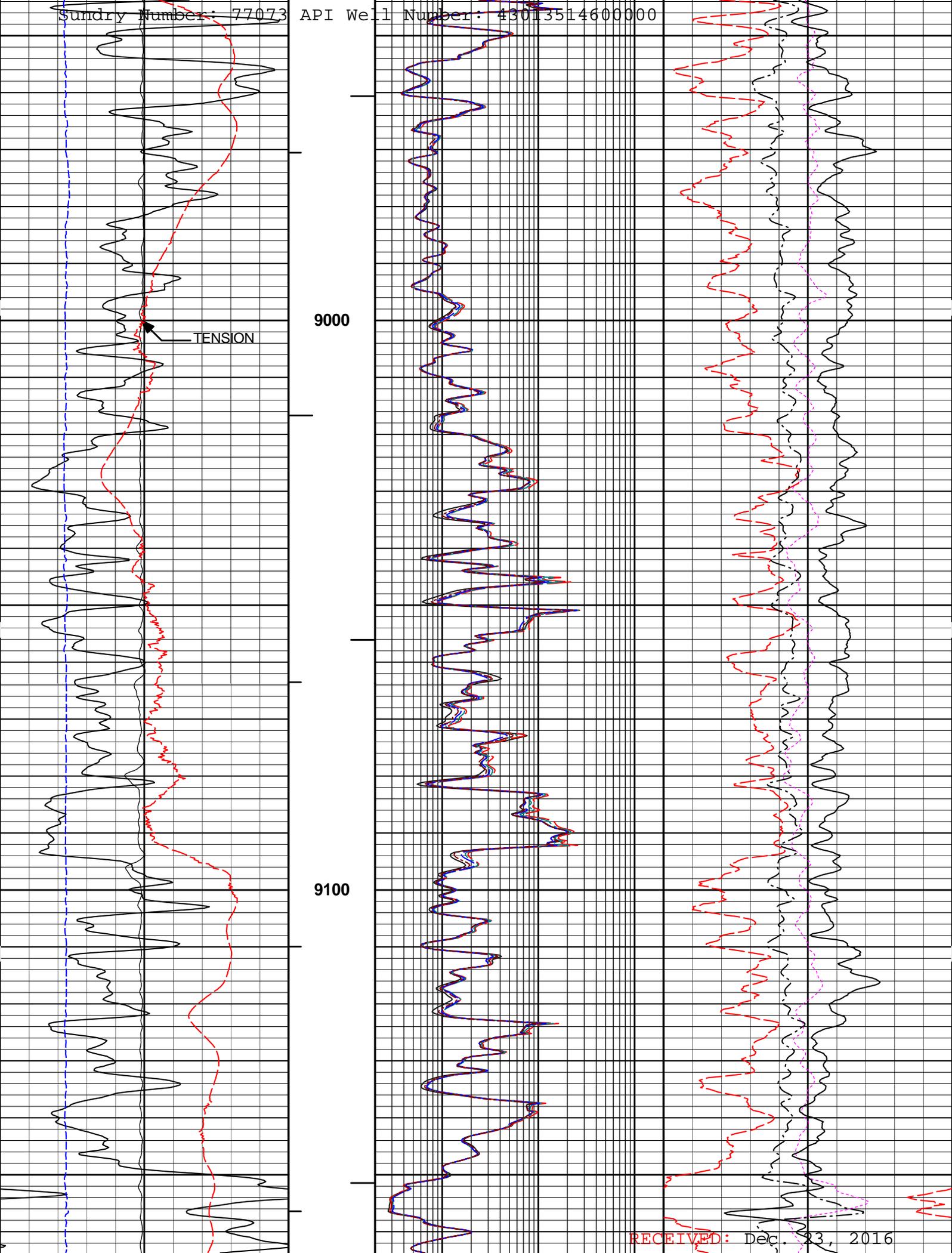


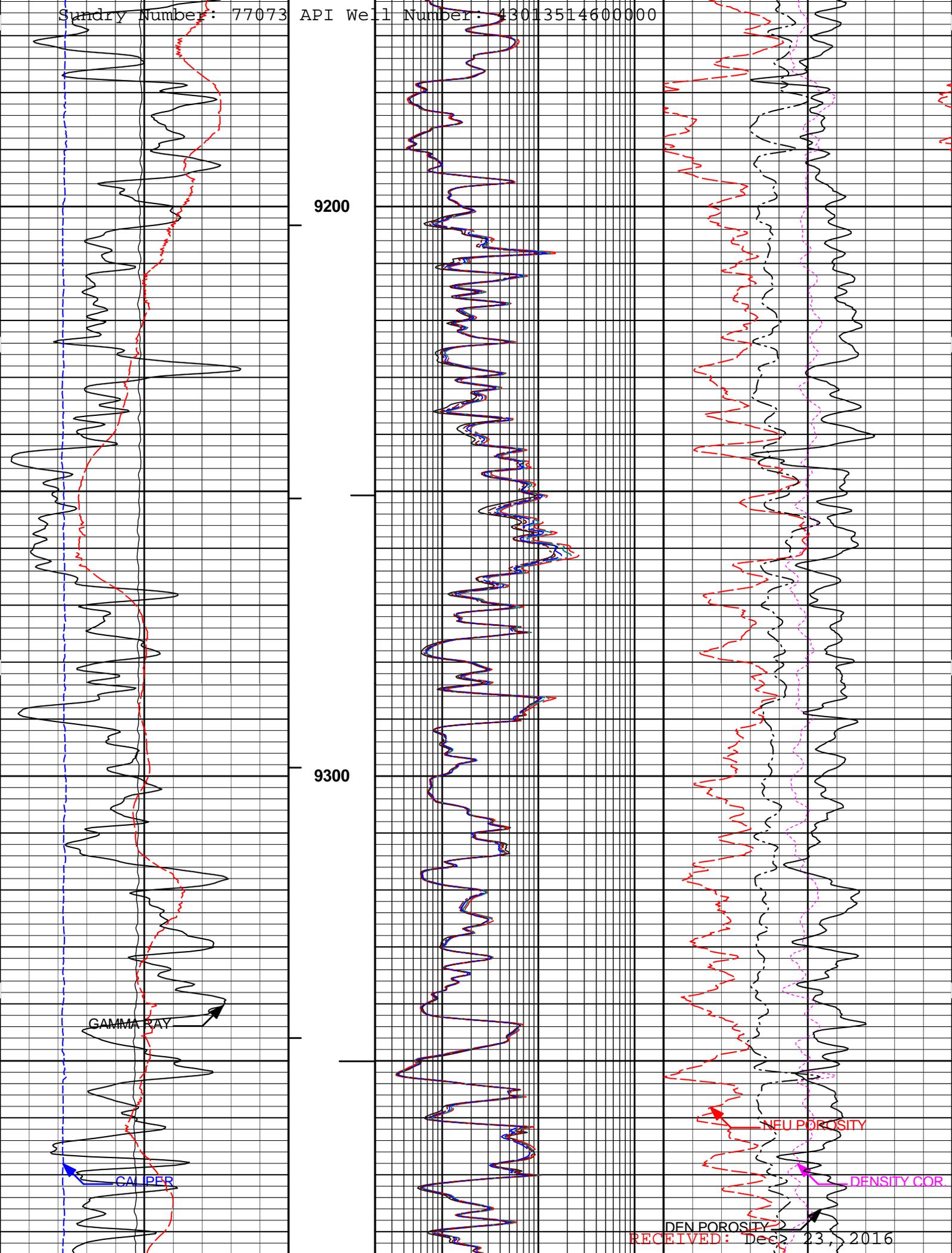


8600

8700







9400

9500

9600

SP

TENSION

RT10

RT90

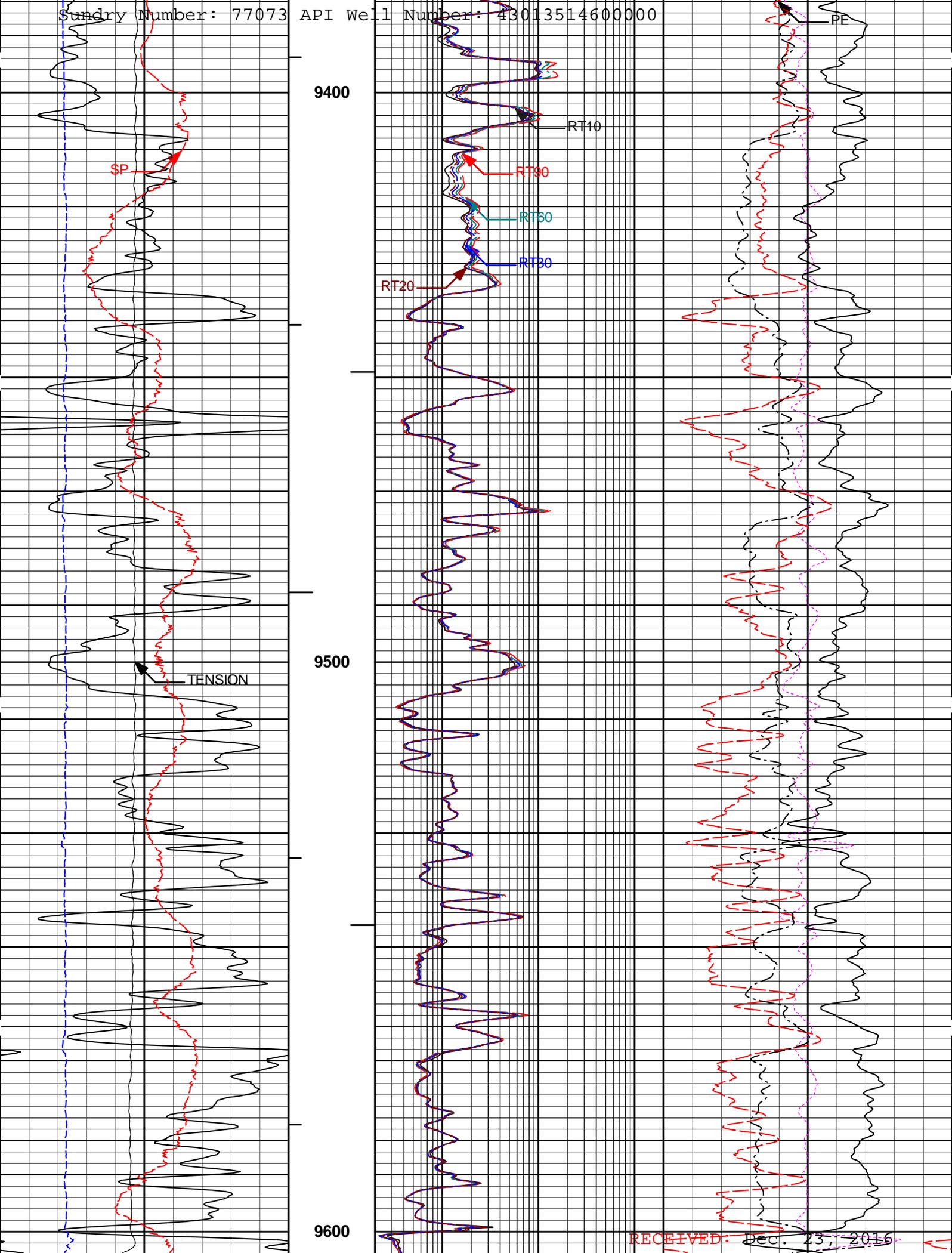
RT60

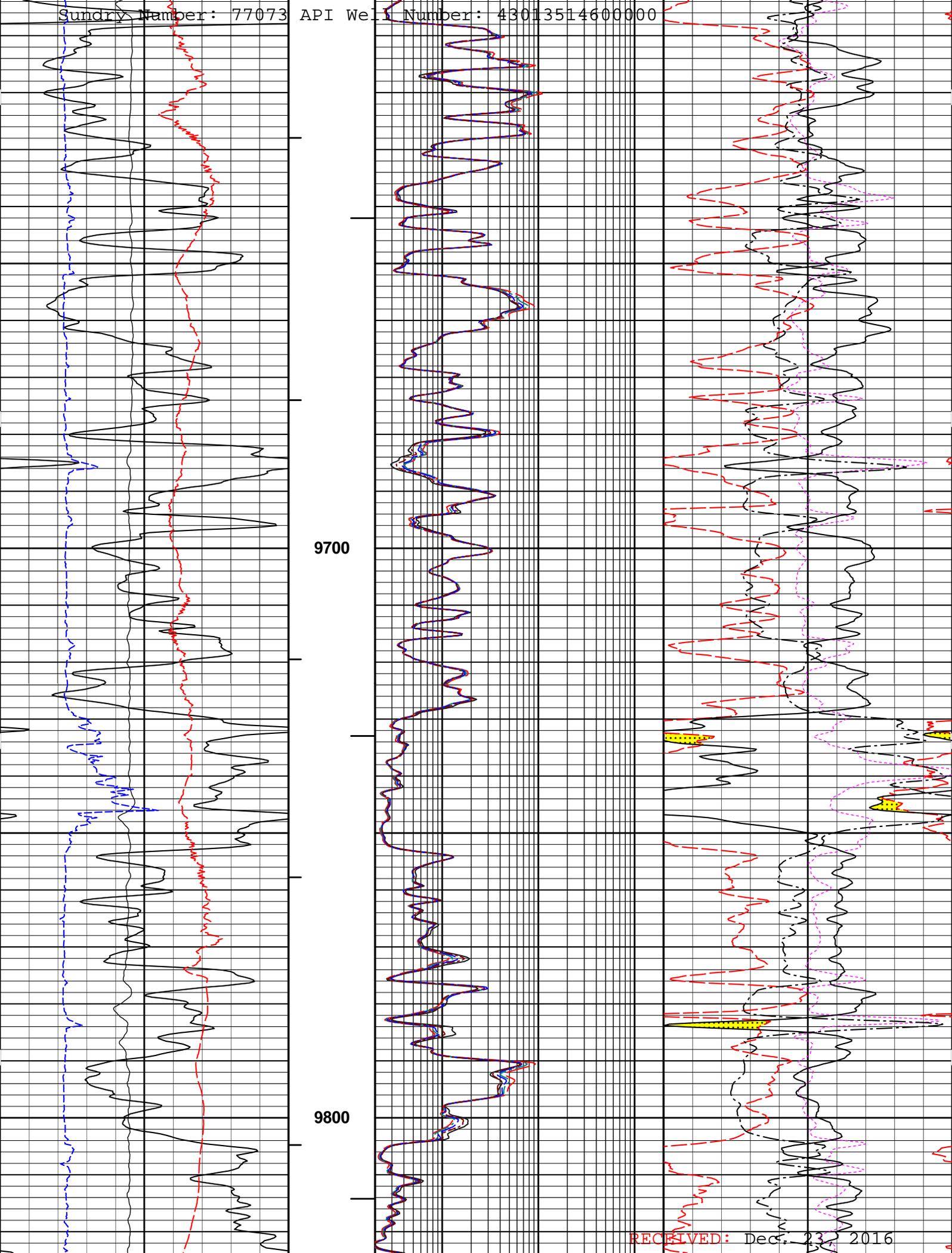
RT30

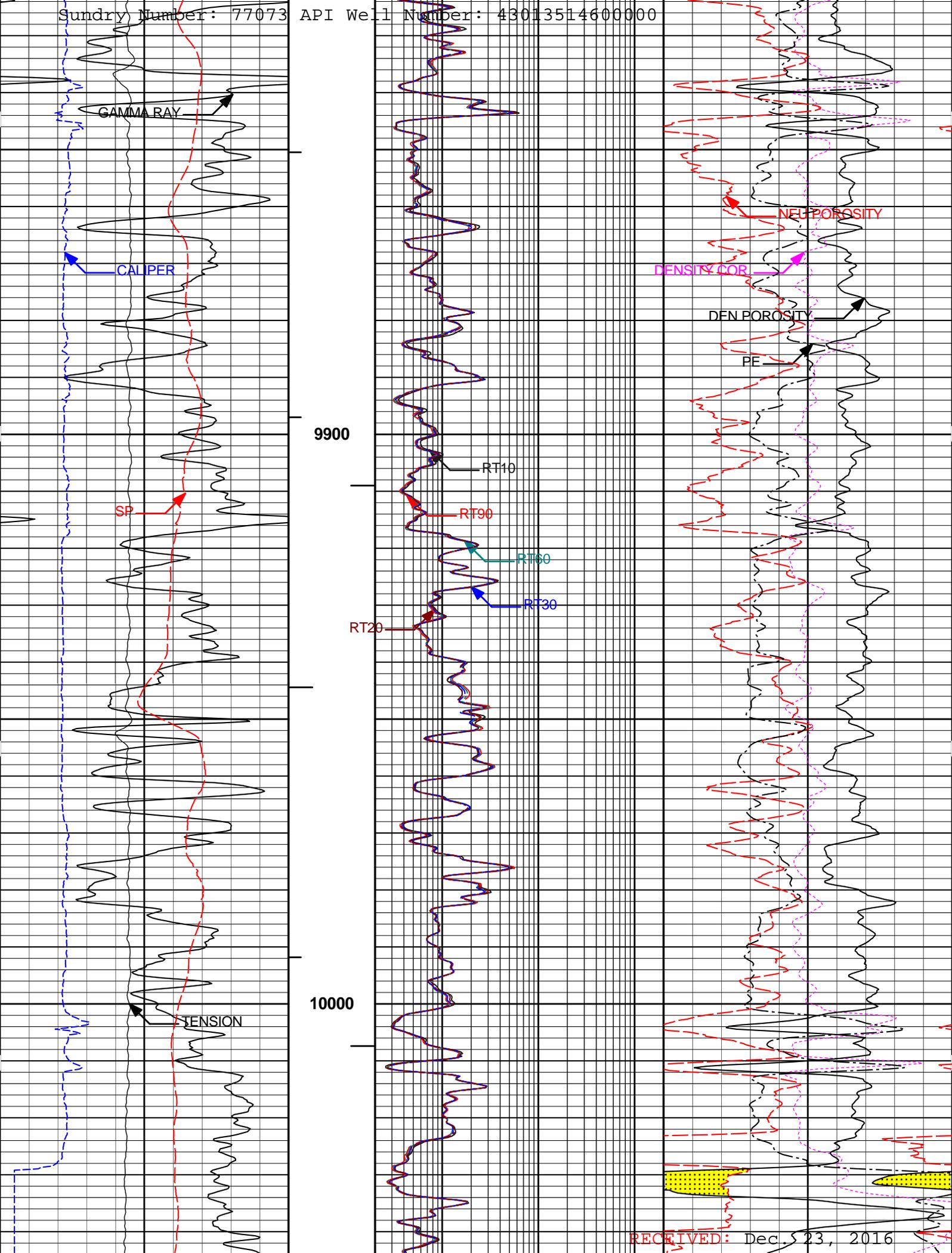
RT20

PF

RECEIVED: Dec. 23, 2016







GAMMA RAY

CALPER

SP

TENSION

9900

10000

RT10

RT90

RT60

RT30

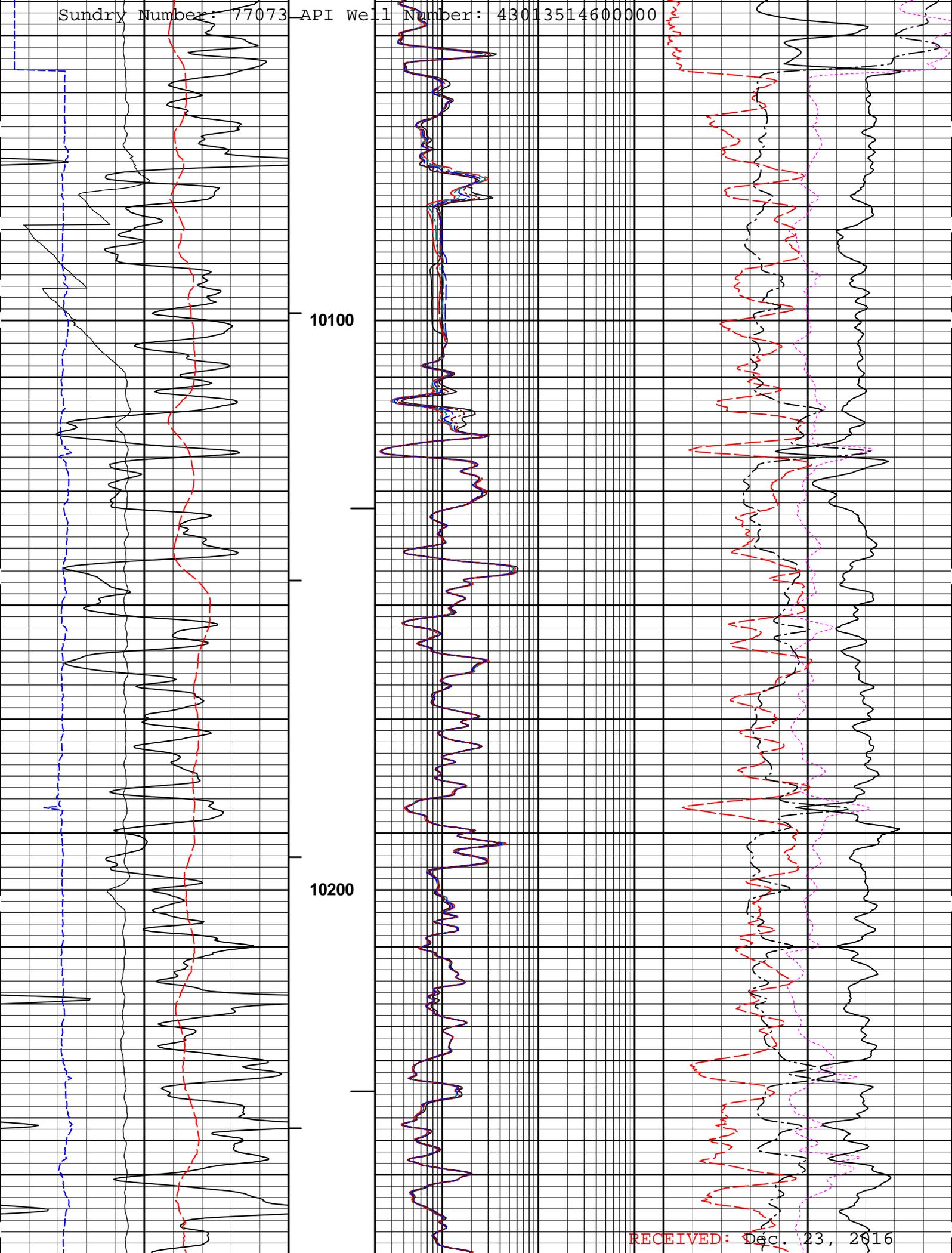
RT20

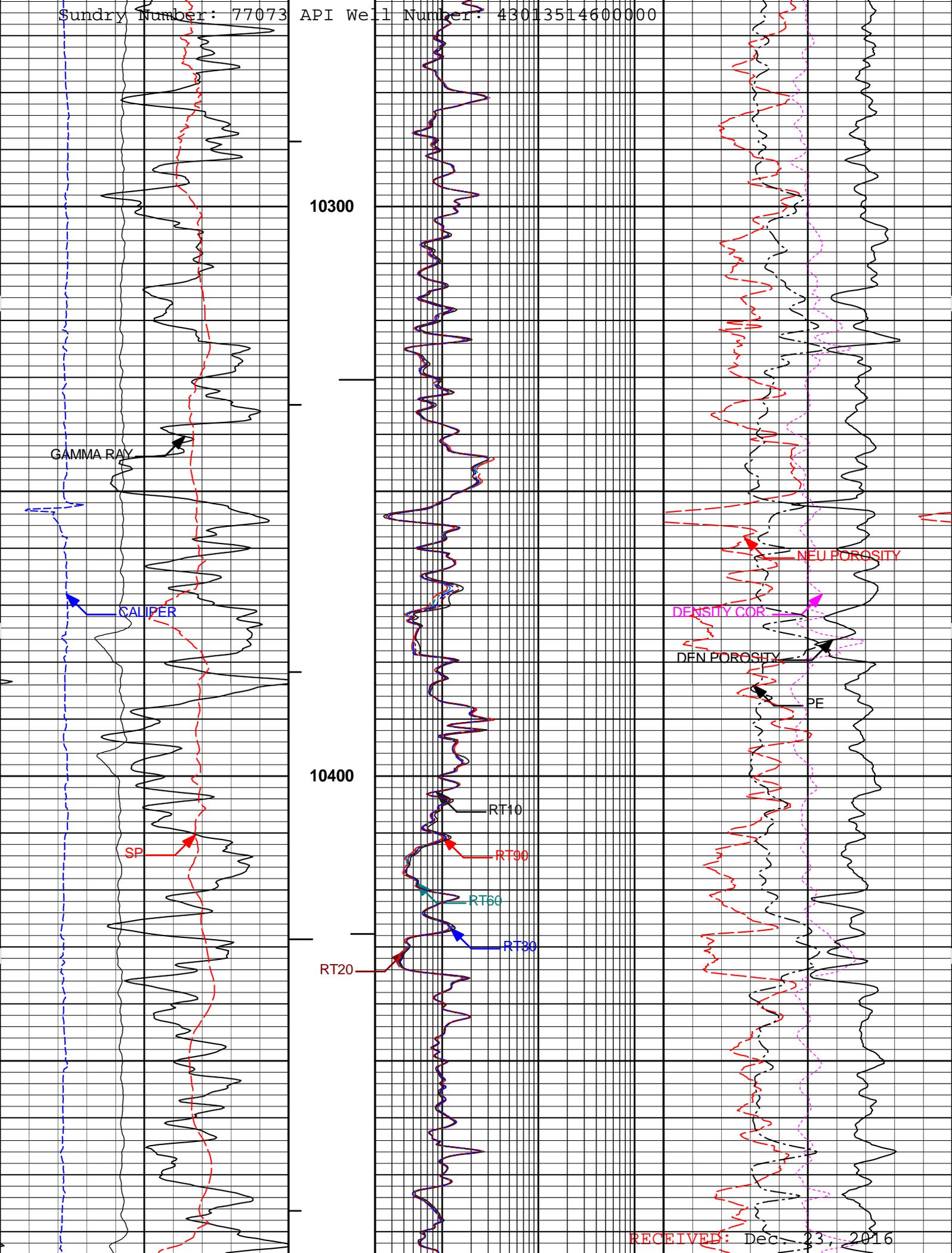
NEU POROSITY

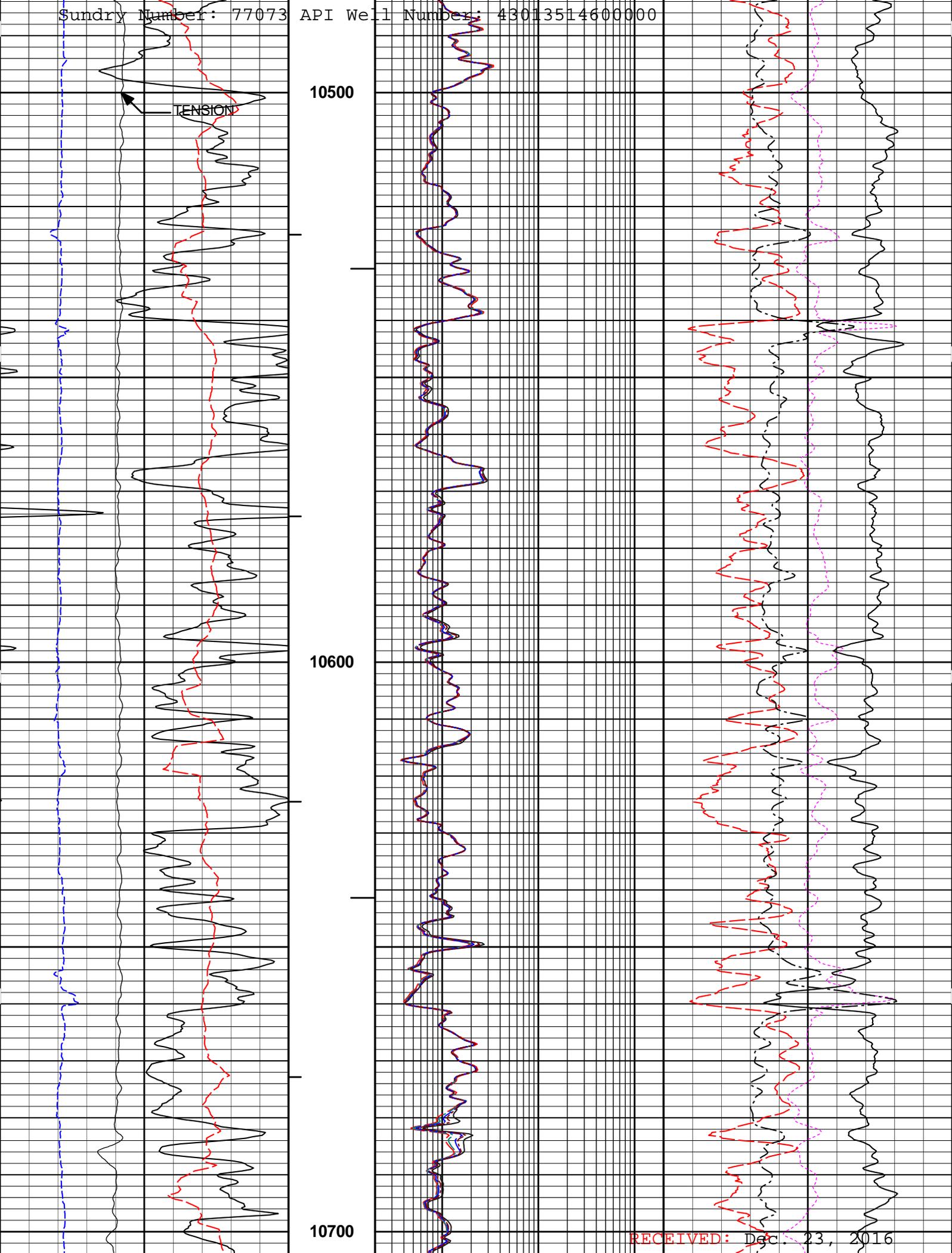
DENSITY COR

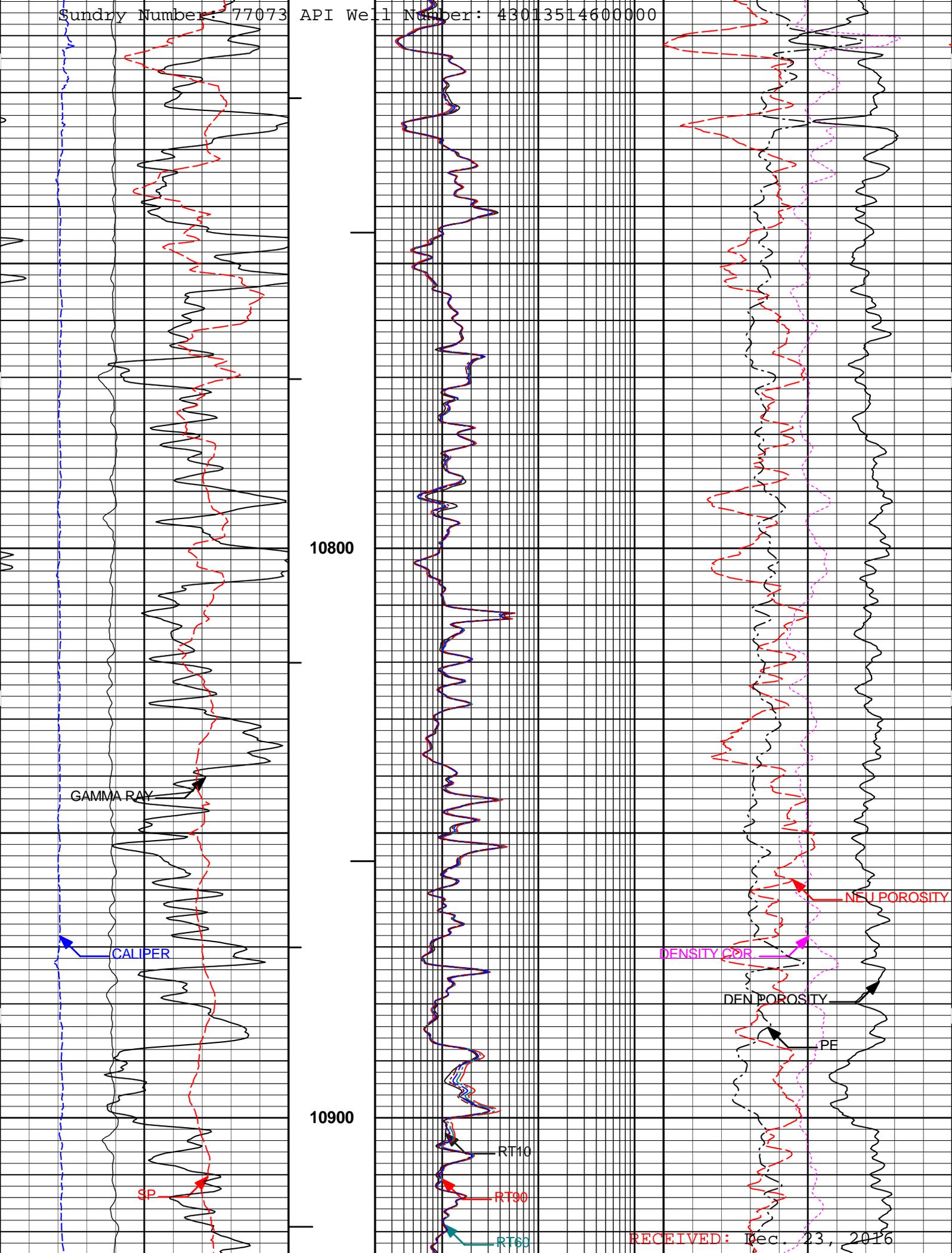
DEN POROSITY

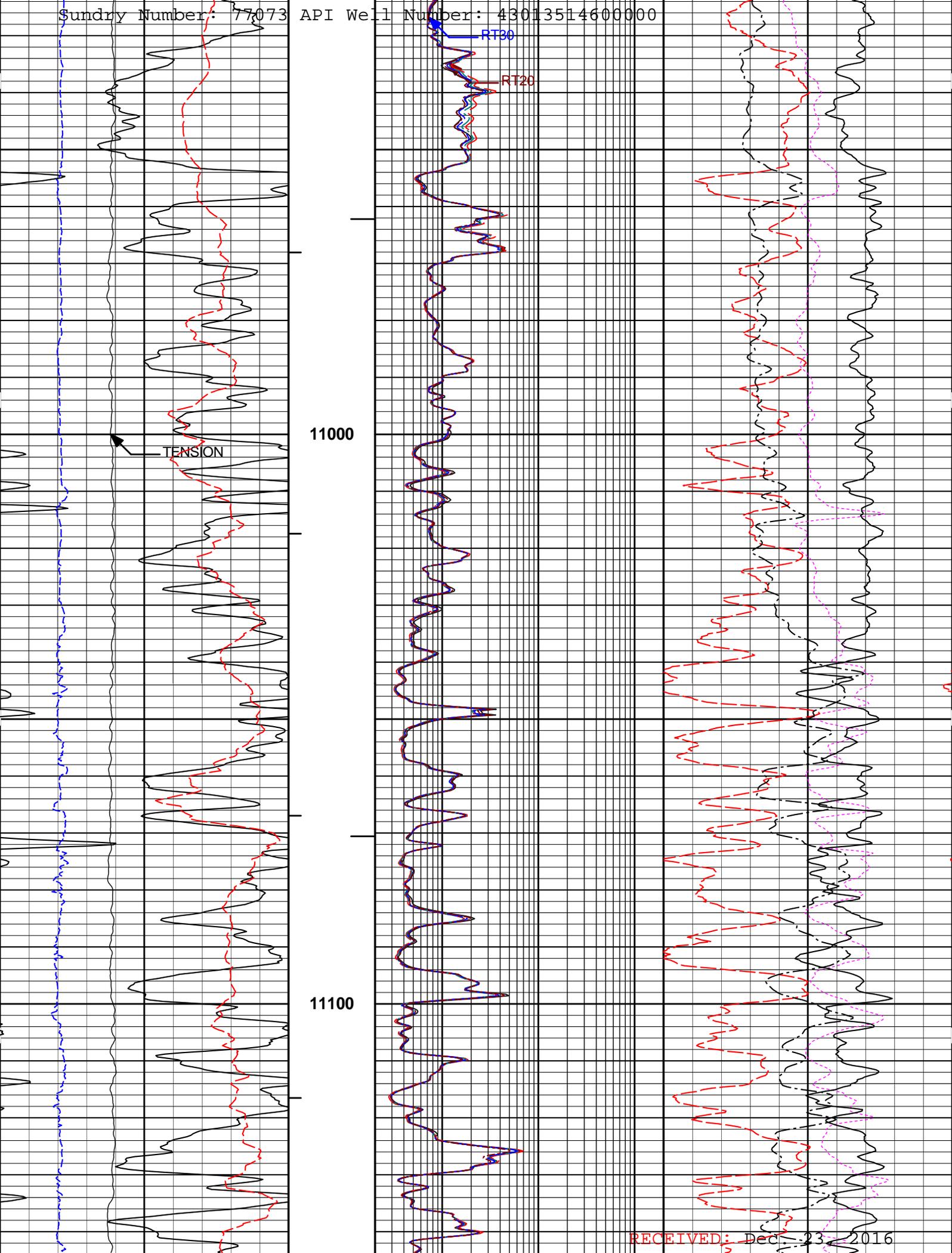
PF

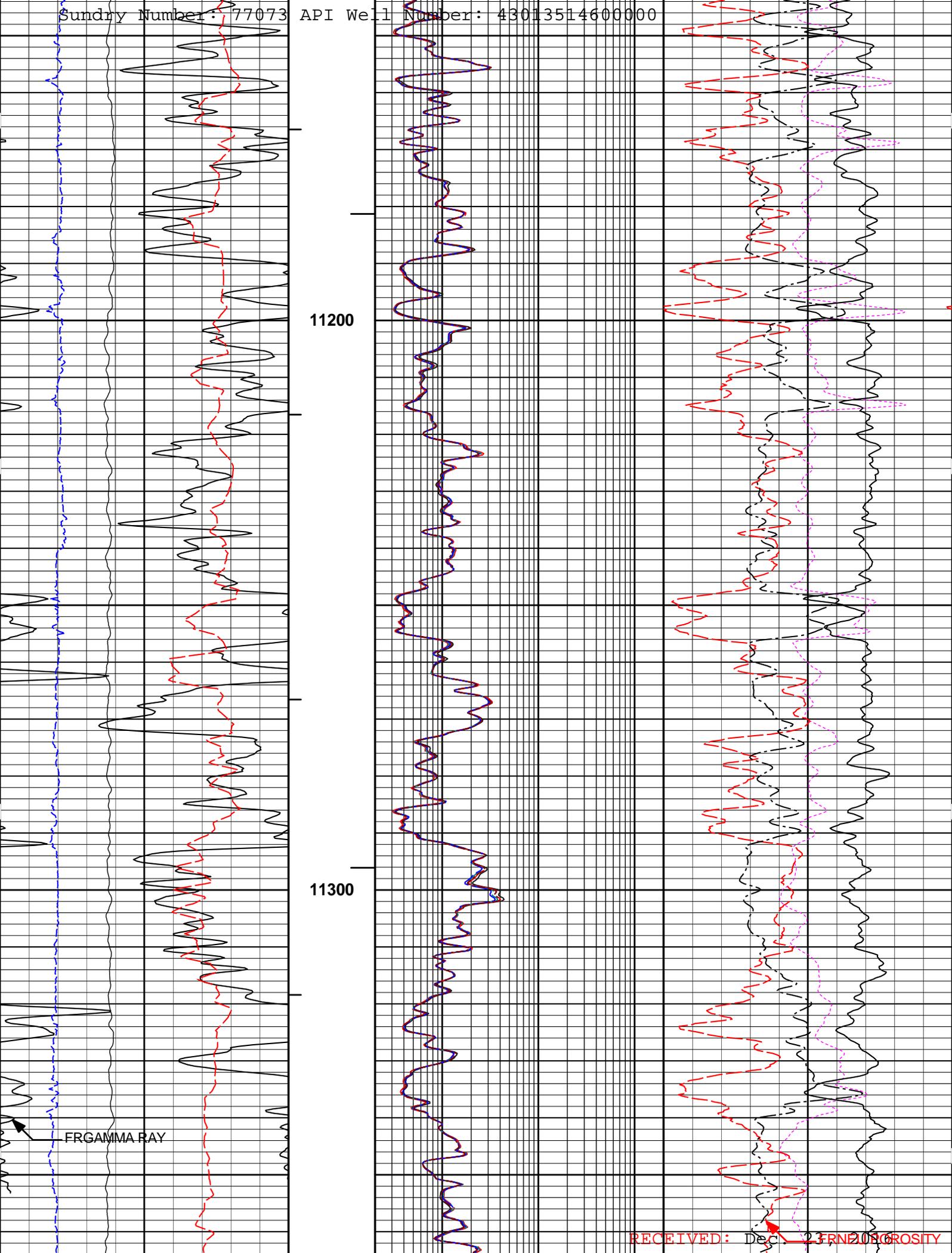


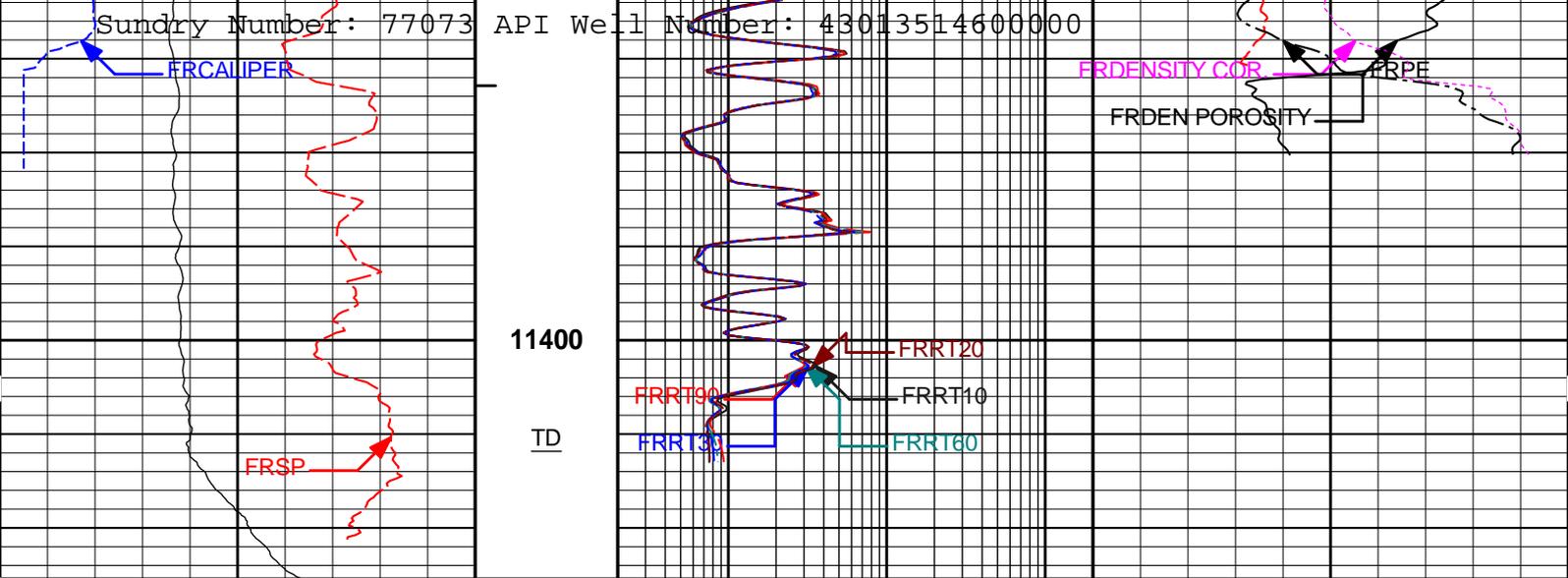












10000	TENSION	0	1 : 240	2	RT10	2000	-0.25	DENSITY COR.	0.25
	pounds		FT.		ohm-m			g/cc	
0	SP	100	BHV	2	RT20	2000	0	PE	10
	millivolts				ohm-m				
4	CALIPER	14	AHV	2	RT30	2000	30	NEU POROSITY	-10
	inches				ohm-m			sand	
0	GAMMA RAY	150		2	RT60	2000	30	DEN POROSITY	-10
	api				ohm-m			2.68 g/cc	
				2	RT90	2000			
					ohm-m				

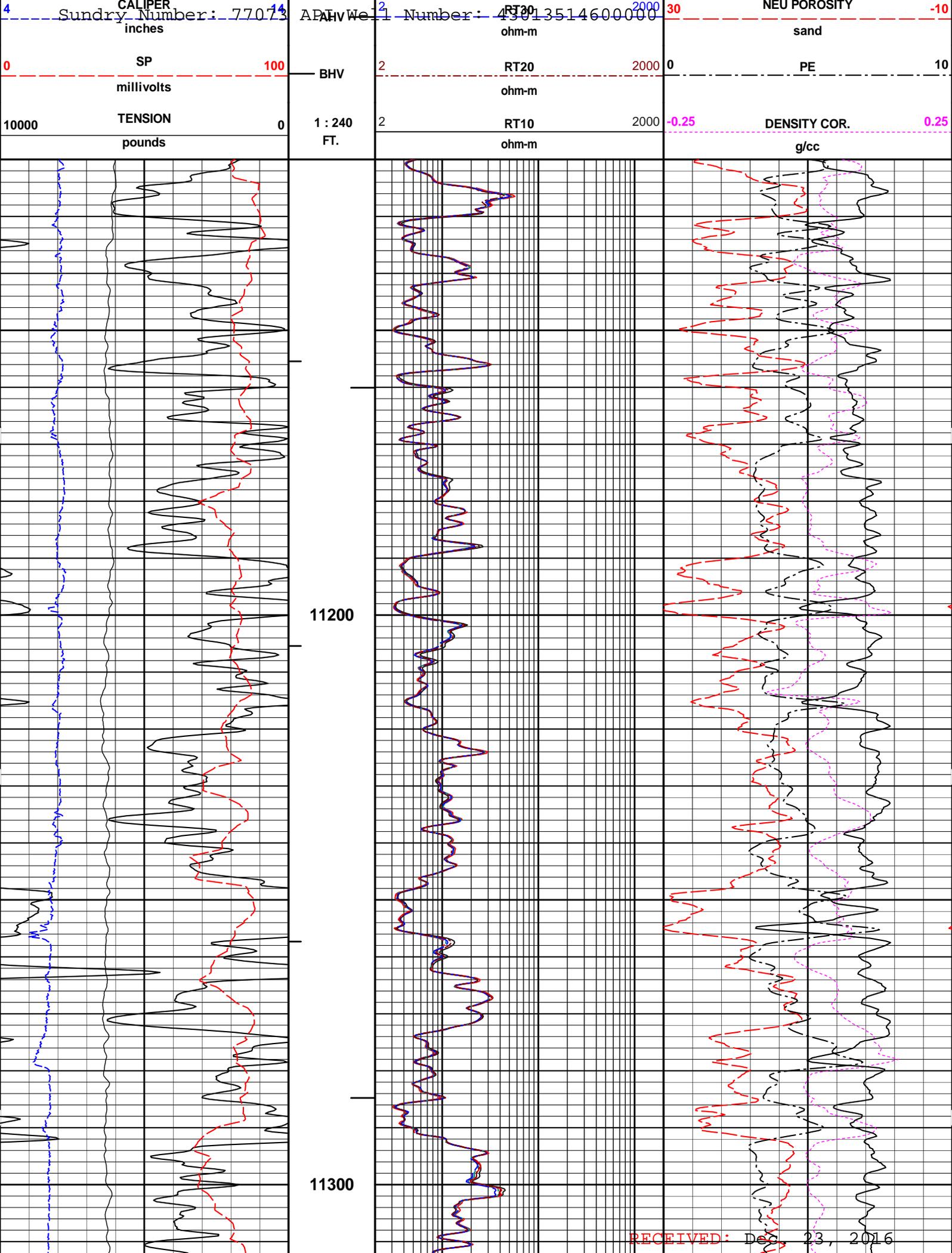
HALLIBURTON Plot Time: 28-Nov-12 09:13:00
 Plot Range: 198 ft to 11425.4 ft
 Data: ALBA 1-21C4\Well Based\MAIN
 Plot File: \\COMP\ELPASO_M

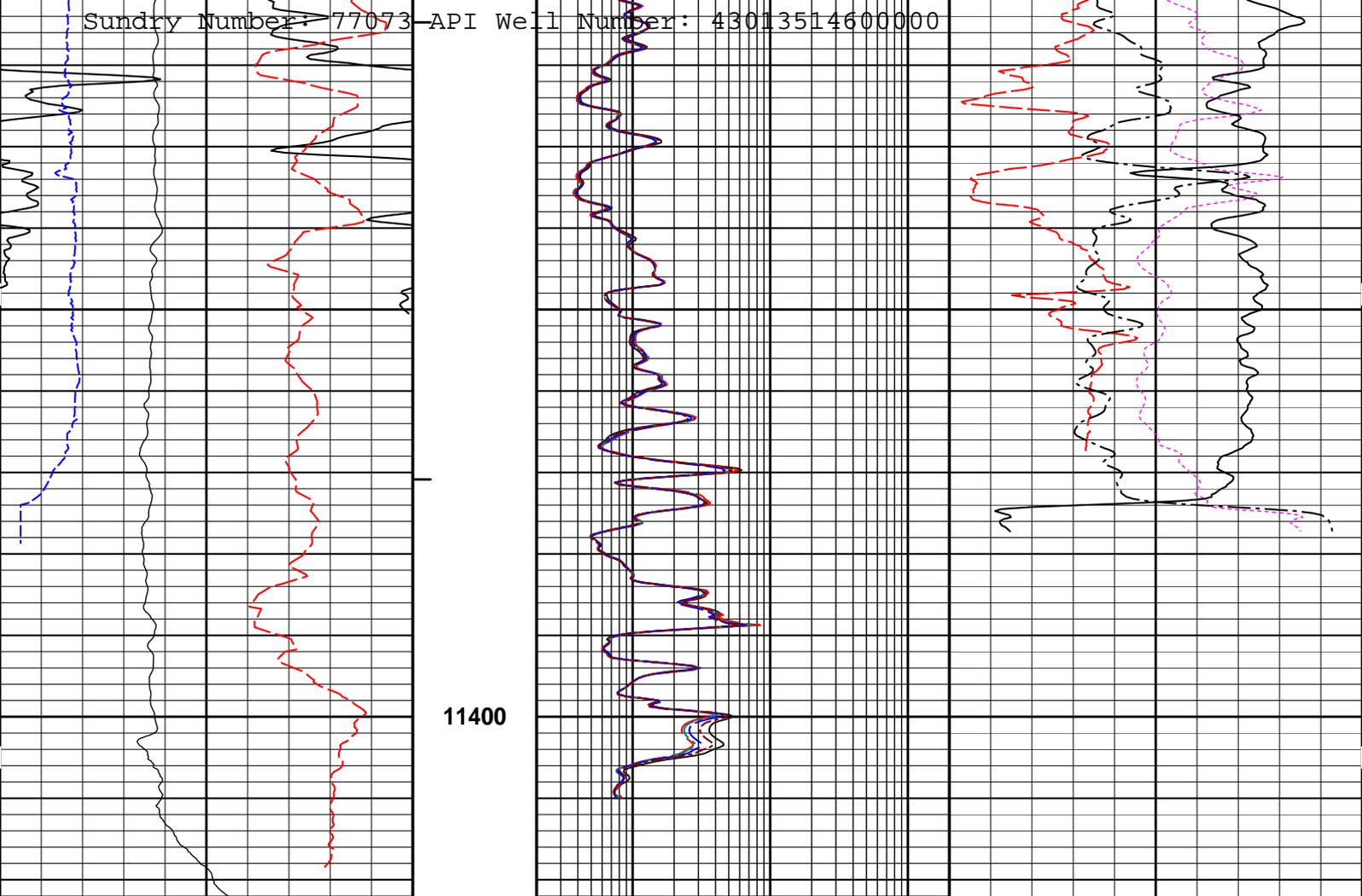
MAIN PASS 5" = 100'

HALLIBURTON Plot Time: 28-Nov-12 09:13:01
 Plot Range: 11120 ft to 11422.4 ft
 Data: ALBA 1-21C4\Well Based\RPT\
 Plot File: \\COMP\ELPASO_R

REPEAT SECTION 5" = 100'

0	GAMMA RAY	150		2	RT90	2000			
	api				ohm-m				
				2	RT60	2000	30	DEN POROSITY	-10
					ohm-m			2.68 g/cc	





10000	TENSION	0	1 : 240	2	RT10	2000	-0.25	DENSITY COR.	0.25
	pounds		FT.		ohm-m			g/cc	
0	SP	100	BHV	2	RT20	2000	0	PE	10
	millivolts				ohm-m				
4	CALIPER	14	AHV	2	RT30	2000	30	NEU POROSITY	-10
	inches				ohm-m			sand	
0	GAMMA RAY	150		2	RT60	2000	30	DEN POROSITY	-10
	api				ohm-m			2.68 g/cc	
				2	RT90	2000			
					ohm-m				

HALLIBURTON Plot Time: 28-Nov-12 09:13:03
 Plot Range: 11120 ft to 11422.4 ft
 Data: ALBA 1-21C4\Well Based\RPT\
 Plot File: \\COMPI_ELPASO_R

REPEAT SECTION 5" = 100'

Sundry Number: 77003 Natural Gamma Ray Tool Shop Calibration

Tool Name: GTET - 11050378

Reference Calibration Date: 17-Sep-12 15:42:43

Engineer: C. BRUNTZ

Calibration Date: 30-Oct-12 08:59:57

Software Version: WL INSITE R3.6.0 (Build 3)

Calibration Version: 1

Calibrator Source S/N: MP051807-01

Calibrator API Reference:236.00 api

Equivalent Calibrator API Reference:240.1 api

Measurement	Measured	Calibrated	Units
Background	49.1	48.4	api
Background + Calibrator	293.1	288.5	api
Calibrator	243.9	240.1	api

NATURAL GAMMA RAY TOOL FIELD CALIBRATION

Tool Name: GTET - 11050378

Reference Calibration Date: 30-Oct-12 08:59:57

Engineer: C. BRUNTZ

Calibration Date: 28-Nov-12 01:50:45

Software Version: WL INSITE R3.6.0 (Build 3)

Calibration Version: 1

Calibrator Source S/N: MP051807-01

Calibrator API Reference:236.00 api

Equivalent Calibrator API Reference:240.1 api

Field Verification	Shop	Field	Units
Background	48.4	43.7	api
Background + Calibrator	288.5	287.5	api
Calibrator	240.1	243.8	api

Shop	Field	Difference	Tolerance
240.1	243.8	-3.7	+/- 9.00

ACCELEROMETER AND MAGNETOMETER SHOP CALIBRATION

Tool Name: IDT - 10916600

Reference Calibration Date: 21-Mar-12 16:05:54

Engineer: K. NORMAND

Calibration Date: 21-Mar-12 16:20:29

Software Version: WL INSITE R3.4.4 (Build 2)

Calibration Version: 1

Reference Gravity Field: 1.0000 g

Reference Magnetic Field: 52523.2695 nT

* QF : value of 0 is shown for bad quality if | data - reference | > (2 * standard deviation) and > (0.5% of reference value)

ACCELEROMETER CALIBRATION RAW DATA VALUE

Raw Acc X	Raw Acc Y	Raw Acc Z	Quality(Gravity)	Quality Error(%)	QF
0.1835	-0.6918	-0.0068	0.9999	99.9896	1
-0.7352	-0.0887	-0.0080	1.0005	99.9470	1
-0.2504	0.6987	-0.0079	1.0009	99.9091	1
0.7036	0.1736	-0.0063	0.9999	99.9902	1
-0.0193	0.7397	-0.0104	1.0018	99.8193	1
-0.1281	0.6747	0.1292	0.9954	99.5420	1
0.0559	0.7365	-0.0080	1.0012	99.8801	1
0.7047	-0.1474	-0.0070	0.9997	99.9737	1
-0.0267	-0.7176	-0.0078	1.0002	99.9788	1
-0.7417	-0.0252	-0.0088	1.0014	99.8612	1
-0.0085	0.0167	0.3569	1.0009	99.9052	1
-0.6486	-0.1727	-0.1489	0.9980	99.7967	1

ACCELEROMETER QUALITY SUMMARY

Average Calculated Gravity Field: 1.0000 g

Sundry Number: 77073 APT Well Number: 430135146
 Average Calculated Gravity Field: 1.0000 g
 Standard Deviation Calculated Gravity Field: 0.0018 g

ACCELEROMETER GAIN AND OFFSET		
	GAIN	OFFSET
ACC X	1.3660340309	0.0132279703
ACC Y	1.3731993437	-0.0143356435
ACC Z	2.7968938351	0.0028268395

* QF : value of 0 is shown for bad quality if | data - reference | > (3 * standard deviation) and > (1% of reference value)

MAGNETOMETER CALIBRATION RAW DATA VALUE					
Raw Mag X	Raw Mag Y	Raw Mag Z	Quality(Magnetic)	Quality Error(%)	QF
0.1803	1.2525	-0.0980	52523.6211	99.9993	1
1.2233	-0.3444	-0.0991	52507.8203	99.9706	1
-0.0820	-1.2723	-0.0999	52463.0742	99.8854	1
-1.2340	0.2232	-0.0992	52487.0781	99.9311	1
-0.0718	-1.1724	0.5021	52490.5391	99.9377	1
0.2722	-1.2537	-0.0347	52590.3438	99.8723	1
-0.0355	-1.1759	-0.5064	52551.5078	99.9462	1
-1.1410	0.1866	-0.5056	52570.2773	99.9105	1
-0.0291	1.1641	-0.5037	52524.0000	99.9986	1
1.1638	0.1138	-0.5058	52556.2188	99.9373	1
0.3548	0.3666	1.1614	52539.2695	99.9695	1
0.8379	0.2978	-0.9094	52474.6406	99.9074	1

MAGNETOMETER QUALITY SUMMARY		
Average Calculated Magnetic Field	52523.1992	nT
Standard Deviation Calculated Magnetic Field	39.8364	nT

MAGNETOMETER GAIN AND OFFSET		
	GAIN	OFFSET
MAG X	41483.1914062500	-280.3279724121
MAG Y	41211.4687500000	258.1041259766
MAG Z	41360.2421875000	88.5437011719

Noise Level Value: 0.000242 cnts
 Noise Level Cal Value: 0.0007 g

DUAL SPACED NEUTRON SHOP CALIBRATION			
Tool Name:	DSNT - 10735512	Reference Calibration Date:	06-Oct-12 15:05:28
Engineer:	C. BRUNTZ	Calibration Date:	30-Oct-12 12:30:50
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 680107B
 Tank Serial Number: VERNAL
 Reference value assigned to Tank: 52.630
 Snow Block S/N: BANDIT-VERNAL
 Calibration Tank Water Temperature: 60 degF
 Min. Tool Housing Outside Diameter: 3.625 in

CALIBRATION CONSTANTS			
Measurement	Prev. Value	New Value	Control Limit On New Value
Gain:	1.029	1.023	0.900 - 1.100

WATER TANK SUMMARY (Horizontal Water Tank)

WATER TANK SUMMARY (Horizontal Water Tank)				
Measurement	Current Reading (Previous Coef.)	Calibrated (New Coef.)	Change	Control Limit On Change
Porosity (decp):	0.2177	0.2162	0.0015	+/- 0.0020
Calibrated Ratio:	9.96	9.91	0.049	+/- 0.050

VERIFIER		
Measurement	Value	Control Limit
Snow-Block Porosity (decp):	0.0588	0.02000 - 0.09000

PASS/FAIL SUMMARY	
Background Check:	Passed
Gain-Range Check:	Passed
Snow-Block Check:	Passed

DUAL SPACED NEUTRON FIELD CALIBRATION			
Tool Name:	DSNT - 10735512	Reference Calibration Date:	30-Oct-12 12:30:50
Engineer:	C. BRUNTZ	Calibration Date:	28-Nov-12 01:11:40
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1

Logging Source S/N: 680107B
 Snow Block S/N: BANDIT-VERNAL

NEUTRON FIELD-CHECK SUMMARY				
	Shop	Field	Difference	Control Limit On Change
Snow-Block Porosity (decp):	0.0588	0.0732	0.0144	+/- 0.0150

PASS/FAIL SUMMARY	
Block Change Check:	Passed
Snow Block Stat Check:	Passed
Temperature Check:	Passed

DENSITY CALIPER SHOP CALIBRATION			
Tool Name:	SDLT - 10950482	Reference Calibration Date:	30-Oct-12 14:24:44
Engineer:	C. BRUNTZ	Calibration Date:	30-Oct-12 14:31:11
Software Version:	WL INSITE R3.6.0 (Build 3)	Calibration Version:	1
Host Tool Name:	DSNT - 10735512		

CALIBRATION COEFFICIENTS			
Measurement	Previous Value	New Value	Control Limit On New Value
Pad Offset	-2821.31	-2785.51	-7000.00 - -1000.00
Pad Gain	0.0003816	0.0003798	0.000200 - 0.000600
Arm Offset	-2109.83	-2912.31	-5000.00 - 3000.00
Arm Gain	0.0004925	0.0006108	0.000300 - 0.000700
Arm Power	-0.000001475	-0.000009170	-0.000010000 - 0.000010000

The ring diameter is computed from: $DIAMETER = PAD\ EXTENSION + ARM\ EXTENSION + TOOL\ DIAMETER$

Tool Diameter: 4.50 in

CALIBRATION RINGS					
Measurement	Current Reading (Previous Coeff.)	Calibrated (New Coeff.)	Change	Control Limit On New Value	
PAD EXTENSION:					
Small Ring (in)	2.00	2.00	0.00	+/- 0.20	
Medium Ring (in)	3.75	3.75	0.00	+/- 0.20	
RING DIAMETER:					

Sundry Number: 073 API Well Number: 43013514500006 +/- 0.20
 Small Ring (in) 8.06 8.25 0.19 +/- 0.20
 Medium Ring (in) 15.00 15.00 0.00 +/- 0.20

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed
 Ring-Measurement Check: Passed

PASS/FAIL SUMMARY

Calibration-Coefficients Range Check: Passed

SPECTRAL DENSITY SHOP CALIBRATION

Tool Name: SDLT Pad - 10666414 **Reference Calibration Date:** 06-Oct-12 14:31:59
Engineer: C. BRUNTZ **Calibration Date:** 30-Oct-12 14:06:46
Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1

Logging Source S/N: 5432GW
 Aluminum Block S/N: 63069-VERNAL Density: 2.588g/cc Pe: 3.160
 Magnesium Block S/N: 63376-VERNAL Density: 1.685g/cc Pe: 2.594

DENSITY CALIBRATION SUMMARY

Measurement	Previous Value	New Value	Control Limit
Near Bar Gain	0.9848	1.0010	0.90 - 1.10
Near Dens Gain	0.9837	0.9850	0.90 - 1.10
Near Peak Gain	0.9622	0.9641	0.90 - 1.10
Near Lith Gain	0.9476	0.9343	0.90 - 1.10
Far Bar Gain	1.0063	1.0072	0.90 - 1.10
Far Dens Gain	0.9982	1.0001	0.90 - 1.10
Far Peak Gain	0.9941	0.9938	0.90 - 1.10
Far Lith Gain	0.9813	0.9761	0.90 - 1.10
<hr/>			
Near Bar Offset	0.2196	0.0502	NONE
Near Dens Offset	0.1827	0.1532	NONE
Near Peak Offset	0.3245	0.2890	NONE
Near Lith Offset	0.4483	0.5419	NONE
Far Bar Offset	-0.0805	-0.1039	NONE
Far Dens Offset	-0.0224	-0.0580	NONE
Far Peak Offset	0.0031	-0.0168	NONE
Far Lith Offset	0.0818	0.0889	NONE
<hr/>			
Near Bar Background	800.27	799.84	700 - 1450
Near Dens Background	262.83	262.02	230 - 480
Near Peak Background	114.48	115.51	100 - 210
Near Lith Background	140.13	140.14	125 - 260
Far Bar Background	598.67	596.71	450 - 900
Far Dens Background	233.50	232.88	175 - 345
Far Peak Background	90.49	91.70	70 - 140
Far Lith Background	96.00	97.47	75 - 145

CALIBRATION BLOCK SUMMARY

Measurement	Current Reading (Previous Coef)	Calibrated (New Coef)	Change	Control Limit On Change
MAGNESIUM				
Density (g/cc)	1.688	1.685	-0.003	+/- 0.015
Pe	2.493	2.553	0.060	+/- 0.150

Density (g/cc)	2.587	2.588	0.001	+/- 0.01500
Pe	3.123	3.116	-0.007	+/- 0.150

TOOL SUMMARY				
Measurement	Near Detector		Far Detector	
	Value	Control Limits	Value	Control Limits
QUALITY				
Background	-0.0008	+/- 0.0110	-0.0012	+/- 0.0140
Magnesium Block	-0.0004	+/- 0.0110	0.0016	+/- 0.0140
Aluminum Block	-0.0007	+/- 0.0110	-0.0006	+/- 0.0140
Resolution	9.64	6.00 - 11.50	9.00	6.00 - 11.50
Internal Verifier(B+D+P+L)	1318	1200 - 2700	1019	800 - 1700

PASS/FAIL SUMMARY	
Background Quality Check:	Passed
Background Range Check:	Passed
Background Resolution Check:	Passed
Background Verification Check:	Passed
Magnesium Quality Check:	Passed
Aluminum Quality Check:	Passed
Gains Check:	Passed
Changes in Calibration Blocks:	Passed

SPECTRAL DENSITY FIELD CHECK

Tool Name: SDLT Pad - 10666414	Reference Calibration Date: 30-Oct-12 14:06:46
Engineer: C. BRUNTZ	Calibration Date: 28-Nov-12 02:00:12
Software Version: WL INSITE R3.6.0 (Build 3)	Calibration Version: 1

Pad Temperature: 61.1 degF

DENSITY FIELD CALIBRATION SUMMARY				
Measurement	Shop	Field	Change	Control Limit +/-
Near (B+D+P+L) cps	1317.511	1318.912	1.401	14.689
Far (B+D+P+L) cps	1018.757	1015.195	-3.562	17.037
Near Resolution	9.64	9.83	0.190	0.50
Far Resolution	9.00	9.16	0.160	1.00

PASS/FAIL SUMMARY	
Bkg Quality Check:	Passed
Bkg Resolution Check:	Passed
Bkg Verification Check:	Passed

SDLT CALIPER FIELD CALIBRATION

Tool Name: SDLT - 10950482	Reference Calibration Date: 30-Oct-12 14:31:11
Engineer: C. BRUNTZ	Calibration Date: 28-Nov-12 01:08:54
Software Version: WL INSITE R3.6.0 (Build 3)	Calibration Version: 1

MEASURED CALIPER VALUES				
Measurement	Shop	Field	Change	Control Limit On New Value
Pad Extension	3.75	3.73	-0.02	+/- 0.10
Ring Diameter	8.25	8.38	0.13	+/- 0.15

Sundry Number: 77073 API Well PASS/FAIL SUMMARY 1351460000

Pad Extension Check: Passed
 Diameter Check: Passed

ARRAY COMPENSATED TRUE RESISTIVITY SHOP CALIBRATION

Tool Name: ACRt Sonde - 90295527 **Reference Calibration Date:** 23-Oct-12 12:14:34
Engineer: C. BRUNTZ **Calibration Date:** 23-Oct-12 12:26:14
Software Version: WL INSITE R3.6.0 (Build 3) **Calibration Version:** 1
Host Tool Name: ACRt Instrument - 11830593

TYPICAL GAIN RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	0.95	1.01	1.05	0.95	1.01	1.05	0.95	1.00	1.05
A2 (50")	0.95	1.02	1.05	0.95	1.02	1.05	0.95	1.02	1.05
A3 (29")	0.95	1.01	1.05	0.95	1.00	1.05	0.95	1.00	1.05
A4 (17")	0.95	1.00	1.05	0.95	1.00	1.05	0.95	1.00	1.05
A5 (10")	N/A	N/A	N/A	0.95	0.99	1.05	0.95	0.99	1.05
A6 (6")	N/A	N/A	N/A	0.95	0.98	1.05	0.95	0.98	1.05

TYPICAL SONDE OFFSET RANGE

Subarray	R12KHz			R36KHz			R72KHz		
	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper	Lower	(mmho/m)	Upper
A1 (80")	-5	-0.98	2	-6	-4.44	-2	-8	-4.68	-2
A2 (50")	-7	-1.05	0	-7	-2.97	0	-7	-4.83	0
A3 (29")	-27	-10.73	-9	-9	-3.78	-3	-7	-3.12	-1
A4 (17")	-180	-97.12	-60	-45	-31.92	-15	-39	-25.61	-13
A5 (10")	N/A	N/A	N/A	-150	-100.93	-50	-80	-48.17	-10
A6 (6")	N/A	N/A	N/A	175	308.28	525	90	154.84	270

TRANSMITTER CURRENT GAIN

Signal	Lower	R	Upper
12K	0.6	0.85	1.3
36K	1.0	1.83	2.0
72K	1.0	1.07	2.0

R-MUD VERIFICATION

Signal	Lower (ohm-m)	Measured (ohm-m)	Upper (ohm-m)
Mud Cell	0.95	1.00	1.05

PASS/FAIL SUMMARY

GAIN RANGE CHK PASS
 SONDE OFFSET RANGE CHK PASS
 Tx CURRENT GAIN PASS
 Rmud VERIFICATION PASS

TOOL OK TO LOG

CALIBRATION SUMMARY

Sensor	Shop	Field	Post	Difference	Tolerance	Units
GTET-11050378						
Gamma Ray Calibrator	240.1	243.8	-----	-3.7	+/- 9.00	api
DSNT-10735512						
Snow-Block Porosity	0.0588	0.0732	-----	-0.0144	+/- 0.0150	decp
SDLT-10950482						

Pad Extension	3.75	3.73	0.02				in
Sundry Number	77073	4301351	4600000				
Ring Diameter	8.25	8.38	-0.13			+/-0.15	in
SDLT Pad-10666414							
Near(B+D+P+L)	1317.511	1318.912	-1.401			+/-14.689	cps
Far(B+D+P+L)	1018.757	1015.195	3.562			+/-17.037	cps
ACRt Sonde-90295527							
Mud Cell	1.00		0.00				ohm-m

Data: ALBA 1-21C4\0003 QUAD_BSAT_IDTIDLE Date: 28-Nov-12 09:04:16

HALLIBURTON

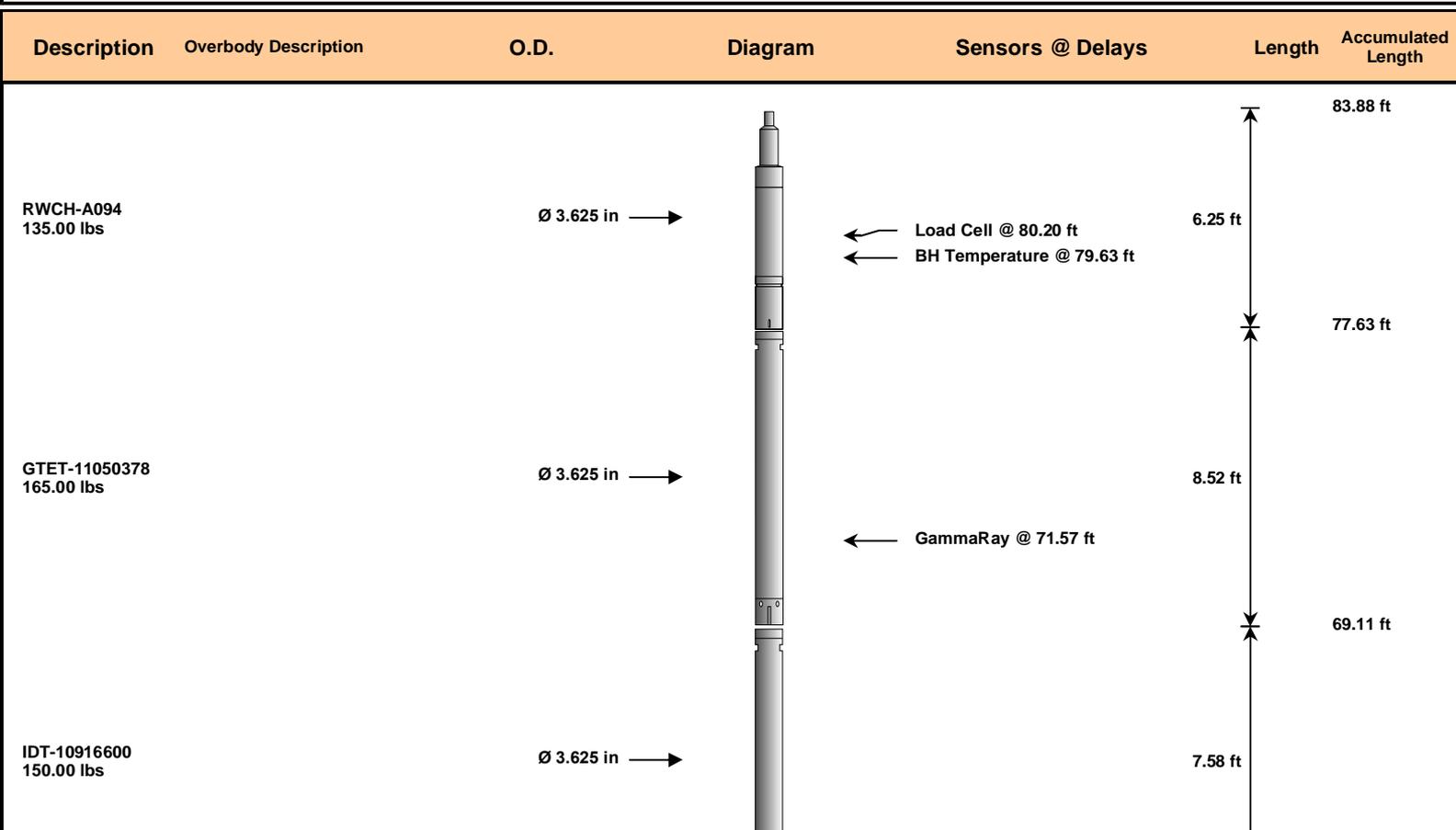
CUSTOMER EVENT LOG

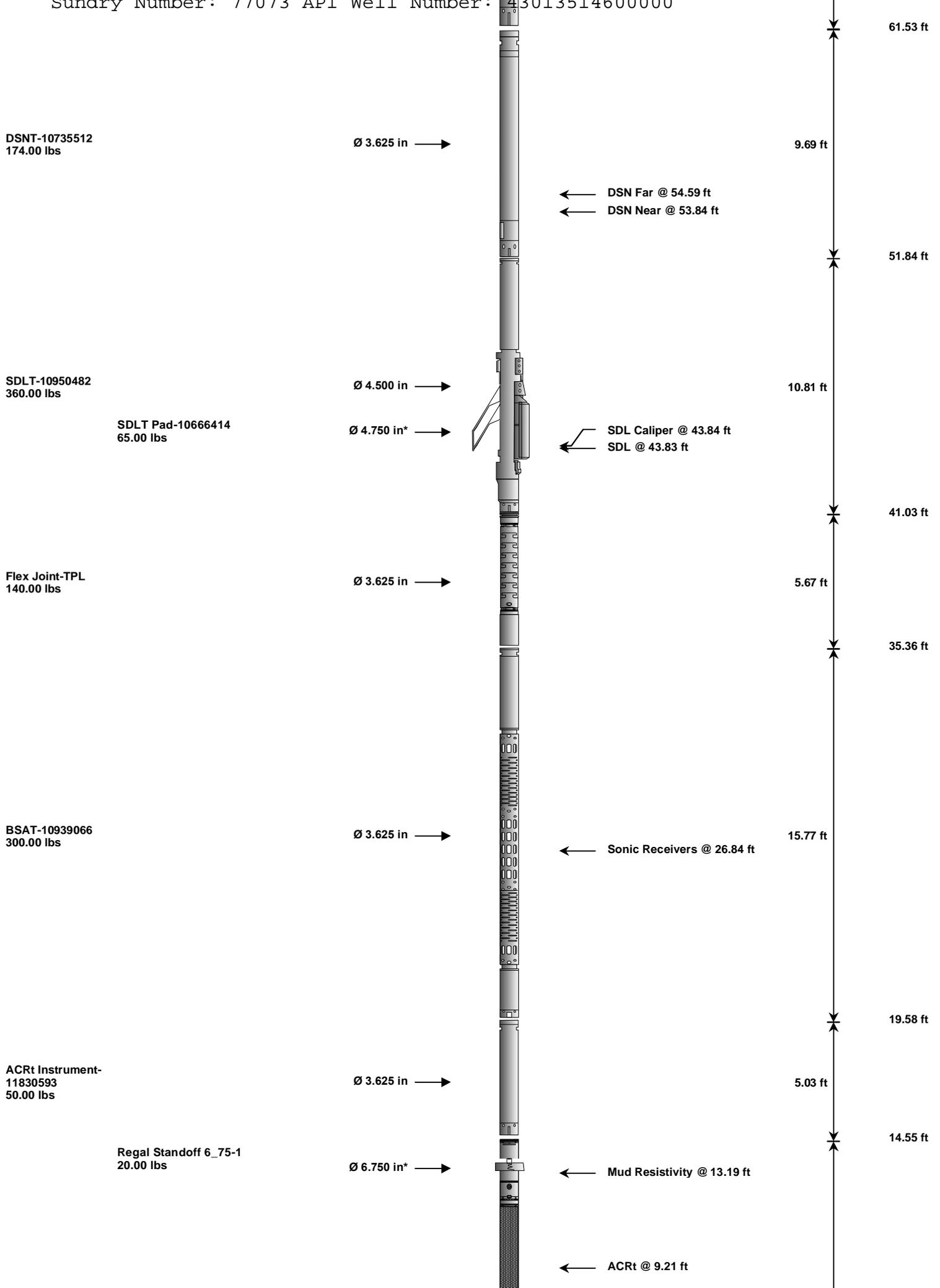
Event Type	Time & Date	Depth (ft)	Event Description
	28-Nov-12 06:52:25	1029.25	Logging 001 28-Nov-12 06:52 Dn @1029.3f
	28-Nov-12 07:16:22	9010.03	Halting 001 28-Nov-12 06:52 Dn @1029.3f
	28-Nov-12 07:16:56	9047.00	Logging 002 28-Nov-12 07:16 Up @9047.0f
	28-Nov-12 07:21:17	8774.90	Halting 002 28-Nov-12 07:16 Up @9047.0f
	28-Nov-12 07:21:45	8664.50	Logging 003 28-Nov-12 07:21 Dn @8664.5f
	28-Nov-12 07:30:59	11348.60	Halting 003 28-Nov-12 07:21 Dn @8664.5f
	28-Nov-12 07:33:59	11424.25	Logging 004 28-Nov-12 07:33 Up 11424.3f
	28-Nov-12 07:39:59	11108.01	Halting 004 28-Nov-12 07:33 Up 11424.3f
	28-Nov-12 07:43:32	11426.00	Logging 005 28-Nov-12 07:43 Up 11426.0f
	28-Nov-12 08:41:50	8346.69	Halting 005 28-Nov-12 07:43 Up 11426.0f

Data: ALBA 1-21C4\0003 QUAD_BSAT_IDT\HW11047 Date: 28-Nov-12 09:04:56

HALLIBURTON

TOOL STRING DIAGRAM REPORT





DSNT-10735512
174.00 lbs

Ø 3.625 in →

9.69 ft

← DSN Far @ 54.59 ft
← DSN Near @ 53.84 ft

51.84 ft

SDLT-10950482
360.00 lbs

Ø 4.500 in →

10.81 ft

SDLT Pad-10666414
65.00 lbs

Ø 4.750 in* →

← SDL Caliper @ 43.84 ft
← SDL @ 43.83 ft

41.03 ft

Flex Joint-TPL
140.00 lbs

Ø 3.625 in →

5.67 ft

35.36 ft

BSAT-10939066
300.00 lbs

Ø 3.625 in →

15.77 ft

← Sonic Receivers @ 26.84 ft

19.58 ft

ACRT Instrument-
11830593
50.00 lbs

Ø 3.625 in →

5.03 ft

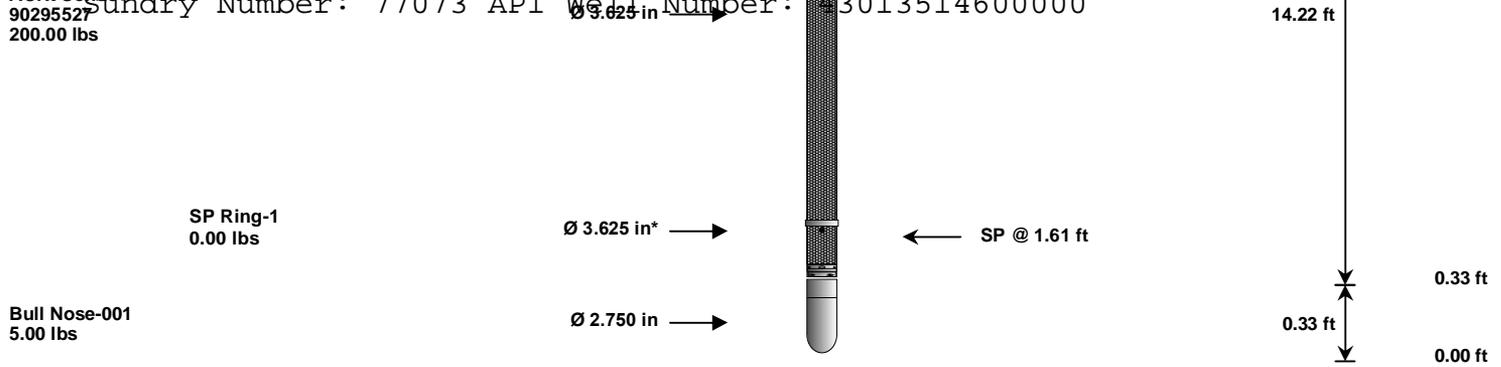
14.55 ft

Regal Standoff 6_75-1
20.00 lbs

Ø 6.750 in* →

← Mud Resistivity @ 13.19 ft

← ACRT @ 9.21 ft



Mnemonic	Tool Name	Serial Number	Weight (lbs)	Length (ft)	Accumulated Length (ft)	Max.Log. Speed (fpm)
RWCH	Releasable Wireline Cable Head	A094	135.00	6.25	77.63	300.00
GTET	Gamma Telemetry Tool	11050378	165.00	8.52	69.11	60.00
IDT	Insite Directional Tool	10916600	150.00	7.58	61.53	30.00
DSNT	Dual Spaced Neutron	10735512	174.00	9.69	51.84	60.00
SDLT	Spectral Density Tool	10950482	360.00	10.81	41.03	60.00
SDLP	Density Insite Pad	10666414	65.00	2.55 *	43.24	60.00
FLEX	Flex Joint	TPL	140.00	5.67	35.36	300.00
BSAT	Borehole Sonic Array Tool	10939066	300.00	15.77	19.58	60.00
ACRt	Array Compensated True Resistivity Instrument Section	11830593	50.00	5.03	14.55	300.00
ACRt	Array Compensated True Resistivity Sonde Section	90295527	200.00	14.22	0.33	300.00
SP	SP Ring	1	0.00	0.25 *	1.61	300.00
RSOF	Regal Standoff 6.75in	1	20.00	0.52 *	13.18	300.00
BLNS	Bull Nose	001	5.00	0.33	0.00	300.00

Total **1,764.00** **83.88**

* Not included in Total Length and Length Accumulation.

Data: ALBA 1-21C4\0003 QUAD_BSAT_IDTIDLE

Date: 28-Nov-12 06:28:15

COMPANY	EP ENERGY		
WELL	ALBA 1-21C4		
FIELD	ALTAMONT		
COUNTY	DUCHESNE	STATE	UT

HALLIBURTON

SPECTRAL DENSITY
 DUAL SPACED NEUTRON
 ARRAY COMPENSATED
 TRUE RESISTIVITY



Company: El Paso
Well: Alba 1-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates				Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')
							N/S (ft)	E/W (ft)	Distance (ft)	Direction	Azimuth				
Tie In	3160.00	3.60	185.90	94.00	3159.02	-46.45	46.45	S	16.9	W	49.43	199.99			
1	3240.00	3.69	190.67	80.00	3238.86	-51.48	51.48	S	17.63	W	54.41	198.91	0.40	0.11	5.96
2	3333.00	2.59	185.71	93.00	3331.72	-56.51	56.51	S	18.40	W	59.43	198.03	1.22	-1.18	-5.33
3	3426.00	2.02	150.99	93.00	3424.65	-60.03	60.03	S	17.81	W	62.62	196.53	1.59	-0.61	-37.33
4	3519.00	1.58	114.21	93.00	3517.60	-61.99	61.99	S	15.85	W	63.99	194.34	1.30	-0.47	-39.55
5	3613.00	1.19	53.70	94.00	3611.58	-61.95	61.95	S	13.88	W	63.48	192.63	1.53	-0.41	-64.37
6	3706.00	1.89	60.99	93.00	3704.55	-60.63	60.63	S	11.76	W	61.76	190.98	0.78	0.75	7.84
7	3799.00	1.01	1.58	93.00	3797.52	-59.07	59.07	S	10.40	W	59.98	189.98	1.75	-0.95	-63.88
8	3892.00	1.71	331.39	93.00	3890.49	-57.03	57.03	S	11.04	W	58.09	190.95	1.05	0.75	354.63
9	3986.00	1.10	337.10	94.00	3984.47	-54.97	54.97	S	12.06	W	56.28	192.37	0.67	-0.65	6.07
10	4079.00	1.01	337.41	93.00	4077.45	-53.39	53.39	S	12.72	W	54.88	193.40	0.10	-0.10	0.33
11	4172.00	1.19	349.80	93.00	4170.43	-51.68	51.68	S	13.21	W	53.34	194.34	0.32	0.19	13.32
12	4265.00	1.58	8.48	93.00	4263.41	-49.46	49.46	S	13.19	W	51.19	194.93	0.64	0.42	-367.01
13	4358.00	1.71	6.90	93.00	4356.37	-46.82	46.82	S	12.83	W	48.55	195.33	0.15	0.14	-1.70
14	4451.00	1.71	7.60	93.00	4449.33	-44.07	44.07	S	12.48	W	45.80	195.82	0.02	0.00	0.75
15	4544.00	2.20	10.81	93.00	4542.27	-40.94	40.94	S	11.97	W	42.65	196.29	0.54	0.53	3.45
16	4637.00	2.11	11.99	93.00	4635.21	-37.51	37.51	S	11.28	W	39.17	196.73	0.11	-0.10	1.27
17	4731.00	2.81	5.97	94.00	4729.12	-33.52	33.52	S	10.68	W	35.18	197.67	0.79	0.74	-6.40
18	4824.00	1.58	349.89	93.00	4822.05	-29.99	29.99	S	10.66	W	31.83	199.57	1.47	-1.32	369.81
19	4917.00	1.89	350.37	93.00	4915.01	-27.22	27.22	S	11.15	W	29.41	202.27	0.33	0.33	0.52
20	5010.00	1.41	359.21	93.00	5007.97	-24.56	24.56	S	11.42	W	27.09	204.93	0.58	-0.52	9.51
21	5103.00	1.71	359.29	93.00	5100.93	-22.03	22.03	S	11.45	W	24.83	207.46	0.32	0.32	0.09
22	5196.00	1.80	0.08	93.00	5193.89	-19.18	19.18	S	11.47	W	22.35	210.87	0.10	0.10	-386.25
23	5289.00	1.10	333.19	93.00	5286.86	-16.93	16.93	S	11.87	W	20.67	215.03	1.03	-0.75	358.18
24	5382.00	1.01	284.59	93.00	5379.85	-15.92	15.92	S	13.06	W	20.60	219.36	0.94	-0.10	-52.26
25	5475.00	1.01	222.10	93.00	5472.83	-16.33	16.33	S	14.41	W	21.77	221.43	1.13	0.00	-67.19
26	5568.00	0.88	201.88	93.00	5565.82	-17.60	17.60	S	15.22	W	23.27	220.86	0.38	-0.14	-21.74
27	5662.00	0.79	219.99	94.00	5659.81	-18.76	18.76	S	15.91	W	24.60	220.29	0.30	-0.10	19.27
28	5755.00	0.70	230.01	93.00	5752.80	-19.62	19.62	S	16.75	W	25.80	220.50	0.17	-0.10	10.77
29	5941.00	1.71	195.60	186.00	5938.76	-23.02	23.02	S	18.37	W	29.45	218.59	0.64	0.54	-18.50
30	6034.00	2.02	189.49	93.00	6031.71	-25.98	25.98	S	19.01	W	32.19	216.20	0.40	0.33	-6.57
31	6127.00	2.20	190.10	93.00	6124.65	-29.35	29.35	S	19.60	W	35.29	213.73	0.20	0.19	0.66
32	6220.00	2.42	193.00	93.00	6217.57	-33.02	33.02	S	20.35	W	38.79	211.65	0.27	0.24	3.12
33	6314.00	1.49	195.24	94.00	6311.52	-36.13	36.13	S	21.12	W	41.85	210.31	0.99	-0.99	2.38
34	6407.00	1.89	203.99	93.00	6404.48	-38.70	38.70	S	22.06	W	44.55	209.69	0.51	0.43	9.41
35	6500.00	2.68	205.88	93.00	6497.40	-42.06	42.06	S	23.63	W	48.24	209.33	0.85	0.85	2.03



Company: El Paso
Well: Alba 1-21C4
Location: Duchesne, UT
Rig: Precision 406

Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
36	6592.00	2.99	195.99	92.00	6589.29	-46.30	46.30	S	25.23	W	52.73	208.59	0.63	0.34	-10.75
37	6685.00	2.29	194.19	93.00	6682.19	-50.43	50.43	S	26.36	W	56.90	207.59	0.76	-0.75	-1.94
38	6778.00	0.48	218.89	93.00	6775.16	-52.54	52.54	S	27.06	W	59.10	207.25	2.01	-1.95	26.56
39	7569.00	7.91	178.90	791.00	7563.53	-109.62	109.62	S	28.09	W	113.16	194.38	0.95	0.94	-5.06
40	7617.00	8.00	178.11	48.00	7611.06	-116.26	116.26	S	27.92	W	119.56	193.50	0.30	0.19	-1.65
41	7710.00	6.50	182.59	93.00	7703.32	-127.98	127.98	S	27.95	W	131.00	192.32	1.72	-1.61	4.82
42	7803.00	5.58	185.71	93.00	7795.80	-137.74	137.74	S	28.63	W	140.69	191.74	1.05	-0.99	3.35
43	7897.00	4.92	185.58	94.00	7889.41	-146.30	146.30	S	29.48	W	149.24	191.39	0.70	-0.70	-0.14
44	7990.00	4.09	198.98	93.00	7982.12	-153.41	153.41	S	30.95	W	156.50	191.40	1.44	-0.89	14.41
45	8083.00	3.78	201.88	93.00	8074.90	-159.39	159.39	S	33.17	W	162.80	191.75	0.40	-0.33	3.12
46	8176.00	3.60	200.21	93.00	8167.71	-164.97	164.97	S	35.32	W	168.71	192.08	0.23	-0.19	-1.80
47	8269.00	3.52	206.50	93.00	8260.53	-170.27	170.27	S	37.60	W	174.37	192.45	0.43	-0.09	6.76
48	8362.00	2.81	210.67	93.00	8353.39	-174.78	174.78	S	40.04	W	179.31	192.90	0.80	-0.76	4.48
49	8456.00	3.30	193.49	94.00	8447.26	-179.40	179.40	S	41.84	W	184.21	193.13	1.10	0.52	-18.28
50	8549.00	3.30	191.99	93.00	8540.10	-184.62	184.62	S	43.02	W	189.56	193.12	0.09	0.00	-1.61
51	8642.00	2.50	200.87	93.00	8632.98	-189.13	189.13	S	44.30	W	194.25	193.18	0.98	-0.86	9.55
52	8735.00	2.02	215.50	93.00	8725.91	-192.36	192.36	S	45.98	W	197.78	193.44	0.80	-0.52	15.73
53	8797.00	2.11	227.50	62.00	8787.87	-194.02	194.02	S	47.45	W	199.74	193.74	0.71	0.15	19.35
54	8844.00	2.11	227.50	47.00	8834.84	-195.19	195.19	S	48.73	W	201.18	194.02	0.00	0.00	0.00
55	9004.00	2.20	216.30	160.00	8994.73	-199.66	199.66	S	52.72	W	206.50	194.79	0.27	0.06	-7.00
56	9258.00	2.20	207.00	254.00	9248.54	-207.93	207.93	S	57.82	W	215.82	195.54	0.14	0.00	-3.66
57	9410.00	2.10	202.00	152.00	9400.43	-213.11	213.11	S	60.19	W	221.45	195.77	0.14	-0.07	-3.29
58	9545.00	2.10	209.70	135.00	9535.34	-217.55	217.55	S	62.34	W	226.31	195.99	0.21	0.00	5.70
59	9640.00	2.20	202.60	95.00	9630.27	-220.75	220.75	S	63.90	W	229.81	196.14	0.30	0.11	-7.47
60	9735.00	2.20	199.70	95.00	9725.20	-224.15	224.15	S	65.22	W	233.44	196.22	0.12	0.00	-3.05
61	9830.00	2.20	191.80	95.00	9820.14	-227.65	227.65	S	66.20	W	237.08	196.22	0.32	0.00	-8.32
62	9927.00	2.10	196.60	97.00	9917.07	-231.17	231.17	S	67.09	W	240.71	196.18	0.21	-0.10	4.95
63	10022.00	2.10	194.60	95.00	10012.00	-234.53	234.53	S	68.03	W	244.19	196.18	0.08	0.00	-2.11
64	10118.00	2.20	189.90	96.00	10107.94	-238.04	238.04	S	68.79	W	247.78	196.12	0.21	0.10	-4.90
65	10214.00	2.40	191.40	96.00	10203.86	-241.83	241.83	S	69.50	W	251.62	196.03	0.22	0.21	1.56
66	10306.00	2.20	195.50	92.00	10295.78	-245.42	245.42	S	70.36	W	255.31	196.00	0.28	-0.22	4.46
67	10403.00	2.40	189.50	97.00	10392.71	-249.22	249.22	S	71.19	W	259.19	195.94	0.32	0.21	-6.19
68	10500.00	2.20	193.70	97.00	10489.63	-253.03	253.03	S	71.96	W	263.06	195.88	0.27	-0.21	4.33
69	10594.00	2.50	193.80	94.00	10583.55	-256.77	256.77	S	72.88	W	266.92	195.85	0.32	0.32	0.11
70	10690.00	2.50	191.40	96.00	10679.46	-260.86	260.86	S	73.79	W	271.10	195.80	0.11	0.00	-2.50
71	10787.00	2.50	188.60	97.00	10776.36	-265.02	265.02	S	74.53	W	275.30	195.71	0.13	0.00	-2.89
72	10881.00	2.60	185.10	94.00	10870.27	-269.18	269.18	S	75.03	W	279.44	195.57	0.20	0.11	-3.72



Company: El Paso
Well: Alba 1-21C4
Location: Duchesne, UT
Rig: Precision 406
Job Number: _____
Mag Decl.: _____
Dir Driller: _____
MWD Eng: _____

Calculation Method Minimum Curvature
Proposed Azimuth 0.00
Depth Reference KB
Tie Into: Gyro

Survey Number	Survey Depth (ft)	Inclination (deg)	Azimuth (deg)	Course Length (ft)	True Vertical Depth (ft)	Vertical Section (ft)	Coordinates		Closure		Dogleg Severity (d/100')	Build Rate (d/100')	Walk Rate (d/100')		
							N/S (ft)	E/W (ft)	Distance (ft)	Direction Azimuth					
73	10976.00	2.60	1781.00	95.00	10965.24	-269.28	269.28	S	75.92	W	279.78	195.74	5.35	0.00	1679.89
74	11073.00	2.60	180.10	97.00	11062.20	-269.40	269.40	S	76.64	W	280.09	195.88	5.29	0.00	#####
75	11168.00	2.40	184.30	95.00	11157.11	-273.54	273.54	S	76.79	W	284.12	195.68	0.29	-0.21	4.42
76	11263.00	2.50	183.70	95.00	11252.02	-277.59	277.59	S	77.08	W	288.09	195.52	0.11	0.11	-0.63
77	11357.00	2.70	177.50	94.00	11345.93	-281.85	281.85	S	77.11	W	292.21	195.30	0.37	0.21	-6.60
78	11400.00	2.70	177.50	43.00	11388.88	-283.87	283.87	S	77.02	W	294.14	195.18	0.00	0.00	0.00
79															
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