

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

UCD-HOBBS

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

5. Lease Serial No.
NMNM33955

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

HOBBS OGD
FEB 16 2016
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8. Well Name and No.
HALFWAY SWD 1

9. API Well No.
30-025-42545-00-X1

1. Type of Well
 Oil Well Gas Well Other: UNKNOWN OTH

2. Name of Operator
R360 PERMIAN BASIN LLC

Contact: CHRIS RUANE
E-Mail: chrisr@wasteconnections.com

3a. Address
3 WATERWAY SQUARE PLACE SUITE 110
THE WOODLANDS, TX 77380

3b. Phone No. (include area code)
Ph: 832.442.2204

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 22 T20S R32E SWSW 845FSL 1030FWL

10. Field and Pool, or Exploratory SWD

11. County or Parish, and State
LEA COUNTY, NM

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

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Production Start-up
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

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

R360 would like to give notice of first injection for the SWD.

**SUBJECT TO LIKE
APPROVAL BY STATE**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #326774 verified by the BLM Well Information System
For R360 PERMIAN BASIN LLC, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/05/2016 (16PP0089SE)**

Name (Printed/Typed) JEREMY CANNADY Title ENGINEERING

Signature (Electronic Submission) Date 12/18/2015

ACCEPTED FOR RECORD

JAN 25 2016

PK Ruane

**BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE**

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____

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

Office _____

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

FOR RECORD ONLY

B&L OGD 2/18/16

FEB 18 2016

jm

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DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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OCD-HOBBS

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OMB NO. 1004-0135
Expires: July 31, 2010

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SUBMIT IN TRIPLICATE - Other instructions on reverse side.

HOBBS OCD

8. Well Name and No.
HALFWAY SWD 1

9. API Well No.
30-025-42545

10. Field and Pool, or Exploratory
BLUE BIRD DRILL ISLAND

11. County or Parish, and State
LEA COUNTY, NM

1. Type of Well
 Oil Well Gas Well Other: INJECTION

2. Name of Operator
R360 PERMIAN BASIN

Contact: CHRIS RUANE
E-Mail: chrisr@wasteconnections.com

3a. Address
3 WATERWAY SQUARE PLACE, SUITE 110
THE WOODLANDS, TX 77380

3b. Phone No. (include area code)
Ph: 832-442-2200

FEB 16 2016

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	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
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Subsequent sundry for the hydrocarbon producing test and lab results.

I have attached the petrophysical log and the lab report of the hydrocarbon test.

Test was ran on 10/29/2015.

**SUBJECT TO LIKE
APPROVAL BY STATE**

14. I hereby certify that the foregoing is true and correct.

**Electronic Submission #326776 verified by the BLM Well Information System
For R360 PERMIAN BASIN, sent to the Hobbs
Committed to AFMSS for processing by PRISCILLA PEREZ on 01/11/2016 ()**

Name (Printed/Typed) JEREMY CANNADY Title ENGINEERING

Signature (Electronic Submission) Date 12/18/2015

ACCEPTED FOR RECORD

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date FEB 2 2016

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**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

FOR RECORD ONLY

BLOD 2/17/16

am

R360 PERMIAN BASIN, LLC
PETROPHYSICAL ANALYSIS REPORT

R360 PERMAIN BASIN, LLC

HALFWAY SWD FEDERAL #1

LEA COUNTY, NEW MEXICO

BY

David Farmer

Geologist

DAVID FARMER EXPLORATION, LLC

FOR RECORD ONLY

INTRODUCTION

The R360 Permian Basin, LLC Halfway SWD Federal #1 (30025425450000) was drilled in Lea County New Mexico to a driller's total depth of 14,634' and was logged by Halliburton on 9/16/2015. Casing was set at 14,627' and the well was drilled out to a driller's TD of 16,000' and was logged by Schlumberger on 10/23/2015. The following table represents the logs run and the intervals logged by each of the two logging companies. The well was also mud logged by Morco Geological Services Inc. from 2,900' to 16,009'.

Halliburton	LOG	Log Top	Log Base	Schlumberger	LOG	Log Top	Log Base
KB: 3558' 9 5/8" CSG @ 4992'	Dual	4,981'	14,612'	KB: 3558 7" CSG @ 14627'	High Resolution	14,209'	15,983'
	Laterolog				Laterolog Array		
	Micro-Guard				Micro-CFL		
	Dual	200'	14,631'		Compensated	14,610'	16,005'
	Spaced			Neutron Three			
	Neutron			Detector Litho-			
	Density			Density			
	Spectral						
	Gamma						
	Ray						
	Wave	4,981'	14,573'	PEX-HRLA ELAN	14,600'	16,028'	
	Sonic					(15,983')	

GEOLOGY & PETROPHYSICS

The Devonian Formation was encountered at a MD of 14,620' (SS -11,062') with 1,388' of the formation being drilled to a TD of 16,009' in the SiluroDevonian. The lithology is comprised primarily of dolomite, siliceous limestone and chert. The log below is a Prizm (GeoGraphix Log Analysis Program) compilation of the log curves run with the mud log information and calculated curves displayed in a single template.



R360 PERMIAN BASIN SWD FED 1.bmp

The log displays all of the standard log curves plus the mudlog lithology, oil and gas shows, a calculated curve for R_{wa} ($R_{wa} = RT * \phi^2$) and a calculated SW curve (Archie Water Saturation \ $Sw = \sqrt{Rw/(RT*\phi^2)}$) using a Rw value of .34 (derived from the R_{wa} value from the porous and wet interval at 15,357'). The water saturation curve has been color filled to

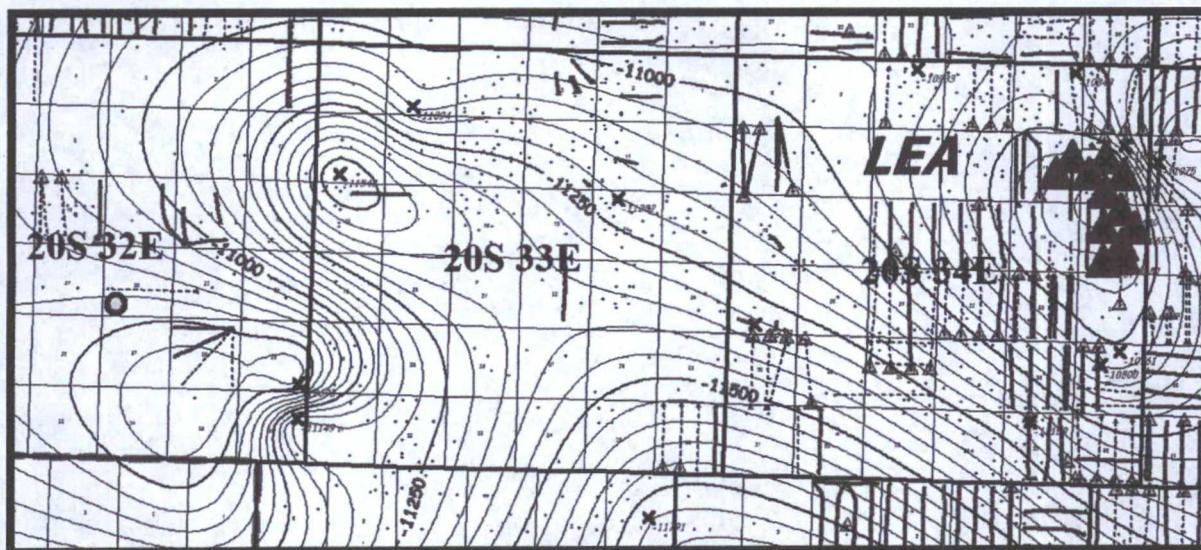
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visually differentiate the various cutoffs. The colors represent the ranges as follows: 100% SW in blue, SW<50% in a green hatch and SW<35% being red. The red and green color fills in the Resistivity Tract represent an RT greater than 100 and 30 ohm-m respectively. X-plot porosity greater than 6% is also color filled with a green hatch. A hydrocarbon pay flag is posted on the right side of the depth tract in green and represents intervals that have a porosity value greater than .06 and a SW value less than 35%. Any discrepancy between the Prizm log calculations and the Schlumberger ELAN log are due to the variances between the log parameters used for cutoffs and calculations. Schlumberger used a RW of .25 vs. .34, an m value of 2.5 vs. 2.0 and a much more liberal pay flag cutoff of 75% for SW vs. 35%,

The vast majority of the SiluroDevonian section which exhibits reservoir quality rocks calculates wet with a few minor log shows displayed on the depth tract in the Devonian starting at 14,852' through 15,784'. None of these extremely thin, (1') calculated shows have any mudlog show support to indicate that any hydrocarbons are present. At @ 15,786', an unusually high resistivity zone (off scale to TD, possibly due to a Laterolog being run in fresher mud) generates a thicker pay flag due to the thicker porosity in a cherty zone. Part of the porosity might also be questionable due to the washout indicated by the caliper in the bottom part of the porous interval (see bitmap above). The thinner porosity streak at the top of the interval has what appears to be a slight gas show but is identified as trip gas on the mudlog with the remaining, thicker part of the porosity showing only background gas from there to TD.

CONCLUSION

The closest Devonian production (brown triangles below) is from the Lea Devonian Field, a structural trap 15 miles to the east in 20S 34E. The R 360 Halfway SWD Federal, located in 20S 32E (yellow centered black circle), is well below any structural closure on the Devonian and therefore has no commercial hydrocarbon producing potential in the Siluro-Devonian section.



DISCLAIMER

All interpretations are opinions based on inferences from electrical or other measurements (logs) and I cannot, and do not guarantee the accuracy or correctness of interpretation and shall not, except in case of gross or willful negligence on my part, be liable or responsible for any loss, costs, damage or expense incurred or sustained by anyone resulting from my interpretations.



PHONE (575) 393-2326 ° 101 E. MARLAND ° HOBBS, NM 88240

October 30, 2015

GREG OGDEN
MARTIN WATER LABORATORIES, INC.
709 W. INDIANA AVE.
MIDLAND, TX 79701

RE: HALFWAY SWD #1

Enclosed are the results of analyses for samples received by the laboratory on 10/29/15 8:55.

Cardinal Laboratories is accredited through Texas NELAP under certificate number T104704398-13-5. Accreditation applies to drinking water, non-potable water and solid and chemical materials. All accredited analytes are denoted by an asterisk (*). For a complete list of accredited analytes and matrices visit the TCEQ website at www.tceq.texas.gov/field/qa/lab_accred_certif.html.

Cardinal Laboratories is accredited through the State of Colorado Department of Public Health and Environment for:

Method EPA 552.2	Haloacetic Acids (HAA-5)
Method EPA 524.2	Total Trihalomethanes (TTHM)
Method EPA 524.4	Regulated VOCs (V1, V2, V3)

Accreditation applies to public drinking water matrices.

This report meets NELAP requirements and is made up of a cover page, analytical results, and a copy of the original chain-of-custody. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Celey D. Keene
Lab Director/Quality Manager

FOR RECORD ONLY

Analytical Results For:

 MARTIN WATER LABORATORIES, INC.
 GREG OGDEN
 709 W. INDIANA AVE.
 MIDLAND TX, 79701
 Fax To: (432) 682-8819

 Received: 10/29/2015
 Reported: 10/30/2015
 Project Name: HALFWAY SWD #1
 Project Number: NONE GIVEN
 Project Location: R360

 Sampling Date: 10/29/2015
 Sampling Type: Water
 Sampling Condition: ** (See Notes)
 Sample Received By: Jodi Henson

Sample ID: WELL HEAD (H502835-01)

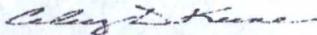
TPH TX1005	mg/L	Analyzed By: MS							
Analyte	Result	Reporting Limit	Analyzed	Method Blank	BS	% Recovery	True Value QC	RPD	Qualifier
GRO C6-C12	<2.50	2.50	10/29/2015	ND	49.7	99.4	50.0	4.11	
DRO >C12-C28	<2.50	2.50	10/29/2015	ND	52.7	105	50.0	3.97	
DRO >C28-C35	<2.50	2.50	10/29/2015	ND					
Total TPH C6-C35*	<2.50	2.50	10/29/2015	ND	103	103	100	4.07	

Surrogate: 1-Chlorooctane 98.9 % 70-130
 Surrogate: 1-Chlorooctadecane 110 % 82.1-120

Cardinal Laboratories

* = Accredited Analyte

PLEASE NOTE: Liability and Damages. Cardinal's liability and client's exclusive remedy for any claim arising, whether based in contract or tort, shall be limited to the amount paid by client for analyses. All claims, including those for negligence and any other cause whatsoever shall be deemed waived unless made in writing and received by Cardinal within thirty (30) days after completion of the applicable service. In no event shall Cardinal be liable for incidental or consequential damages, including, without limitation, business interruptions, loss of use, or loss of profits incurred by client, its subsidiaries, affiliates or successors arising out of or related to the performance of the services hereunder by Cardinal, regardless of whether such claim is based upon any of the above stated reasons or otherwise. Results relate only to the samples identified above. This report shall not be reproduced except in full with written approval of Cardinal Laboratories.



Celey D. Keene, Lab Director/Quality Manager

RECORD ONLY

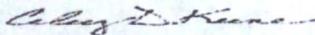
Notes and Definitions

- ND Analyte NOT DETECTED at or above the reporting limit
- RPD Relative Percent Difference
- ** Samples not received at proper temperature of 6°C or below.
- *** Insufficient time to reach temperature.
- Chloride by SM4500Cl-B does not require samples be received at or below 6°C
Samples reported on an as received basis (wet) unless otherwise noted on report

Cardinal Laboratories

*=Accredited Analyte

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Celey D. Keene, Lab Director/Quality Manager

FOR RECORD ONLY



PRIZM

PERFS

API WELL NO. 30025425450000

CLIENT: R360 PERMIAN BASIN
 COMPANY: HALFWAY SWD FEDERAL 1
 WELL: SWD
 FIELD: LEA
 COUNTY: LEA
 STATE: NEW M

LOCATION: TWP: 20 S - Range: 32 E - Sec: 22
 845 FSL AND 10307 FWL

OTHER COMPUTATIONS
 RW= .035
 PHID

PERMANENT DATUM: GL ELEV. -999.25
 LOG MEASURED FROM: KB ABOVE PERM DATUM
 RILLING MEASURED FROM: KB

ELEV. K.B. 3558
 D.F. 3598.1
 G.L. 3593

TE	N NO.	16 - SEP - 2015	16 - SEP - 2015
PTH - DRILLER	14635	ONE	ONE
PTH - LOGGER	14634	14634	14634
TOTAL LOGGED INTERVAL	14646	14646	14646
LOGGED INTERVAL	200	200	200
SING. DRILLER	4992	4992	4992
SING. LOGGER	4981	4981	4981
SIZE	8.5	8.5	8.5
PE FLUID IN HOLE	Brine	Brine	Brine
CASING WEIGHT	9.625	9.625	9.625
DENSITY	11.2	11.2	11.2
VISCOSITY	49	49	49
PH	9	9	9
SOURCE OF SAMPLE	FLOWLINE	FLOWLINE	FLOWLINE
R _u @ MEASURED TEMP.	0.056 @ 95	0.056 @ 95	@
R _{sp} @ MEASURED TEMP.	0.05 @ 95	0.05 @ 95	@
R _{ic} @ MEASURED TEMP.	0.063 @ 95	0.063 @ 95	@
SOURCE: R _u R _{sp} R _{ic}	MEAS	MEAS	@
R _u @ BIT	0.03 @ 187	0.03 @ 187	@
ISOLATION STOP DATE			
X REC TEMP	187	187	
LOCATION	Halliburton	Halliburton	
THROTTLED BY	JEFF BRYDEN	JEFF BRYDEN	

FOLD HERE

Interpretations are opinions based upon inferences from electrical or other measurements and algorithms, empirical relationships, and assumptions which are not infallible and with respect to which log analysts may differ. Accordingly, <Company Name> cannot and does not guarantee the accuracy or correctness of any interpretation and shall not be liable or responsible for any losses, costs, damages, or expenses incurred or sustained by anyone resulting from any interpretation made by any of our officers, agents, or employees.

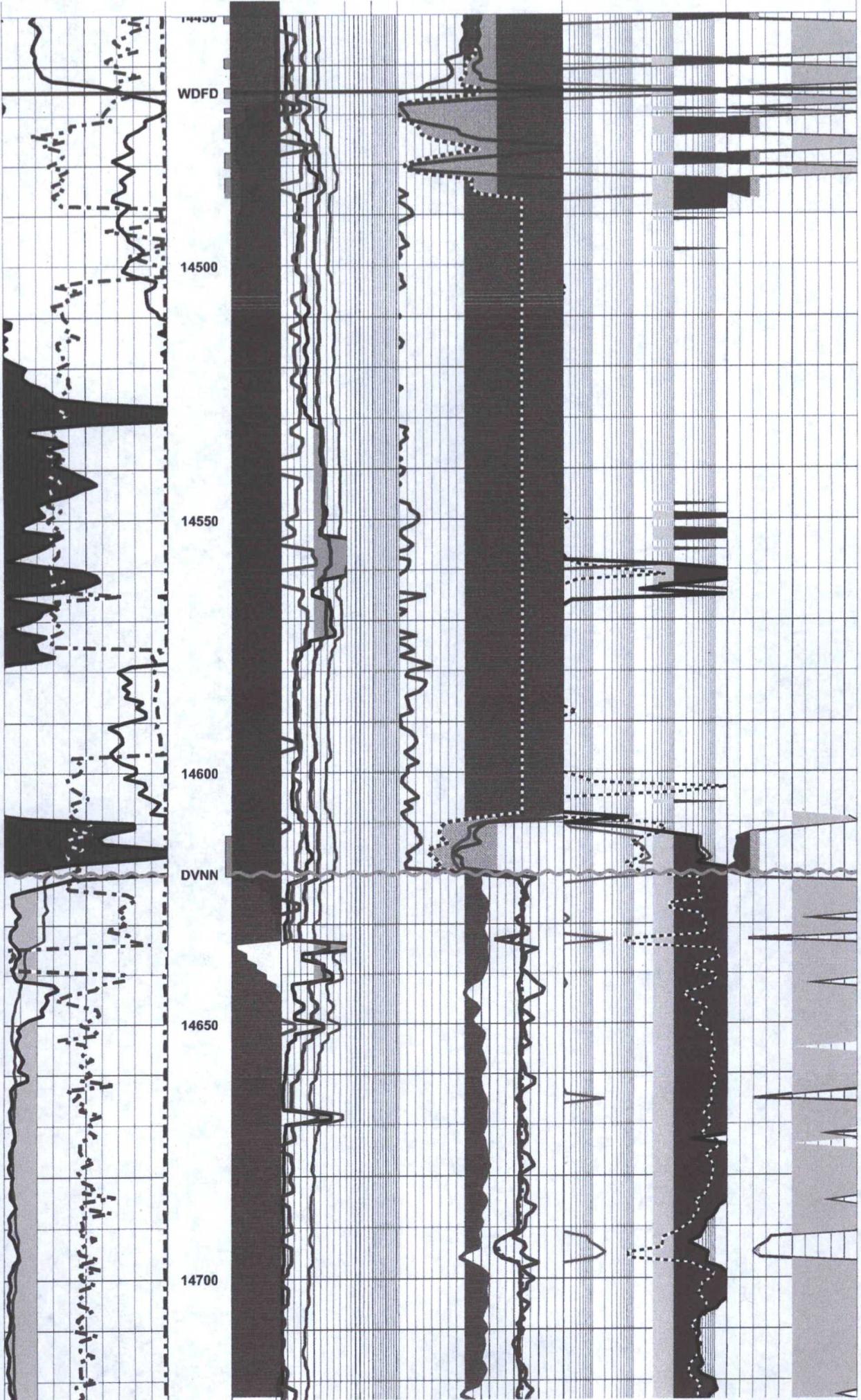
COMPUTATION	LOGS USED:	PROGRAM: PRIZM
	CENTER:	DATE: 1/3/2014
	LOG ANALYST: David Farmer	
	REFERENCE NUMBER: []	

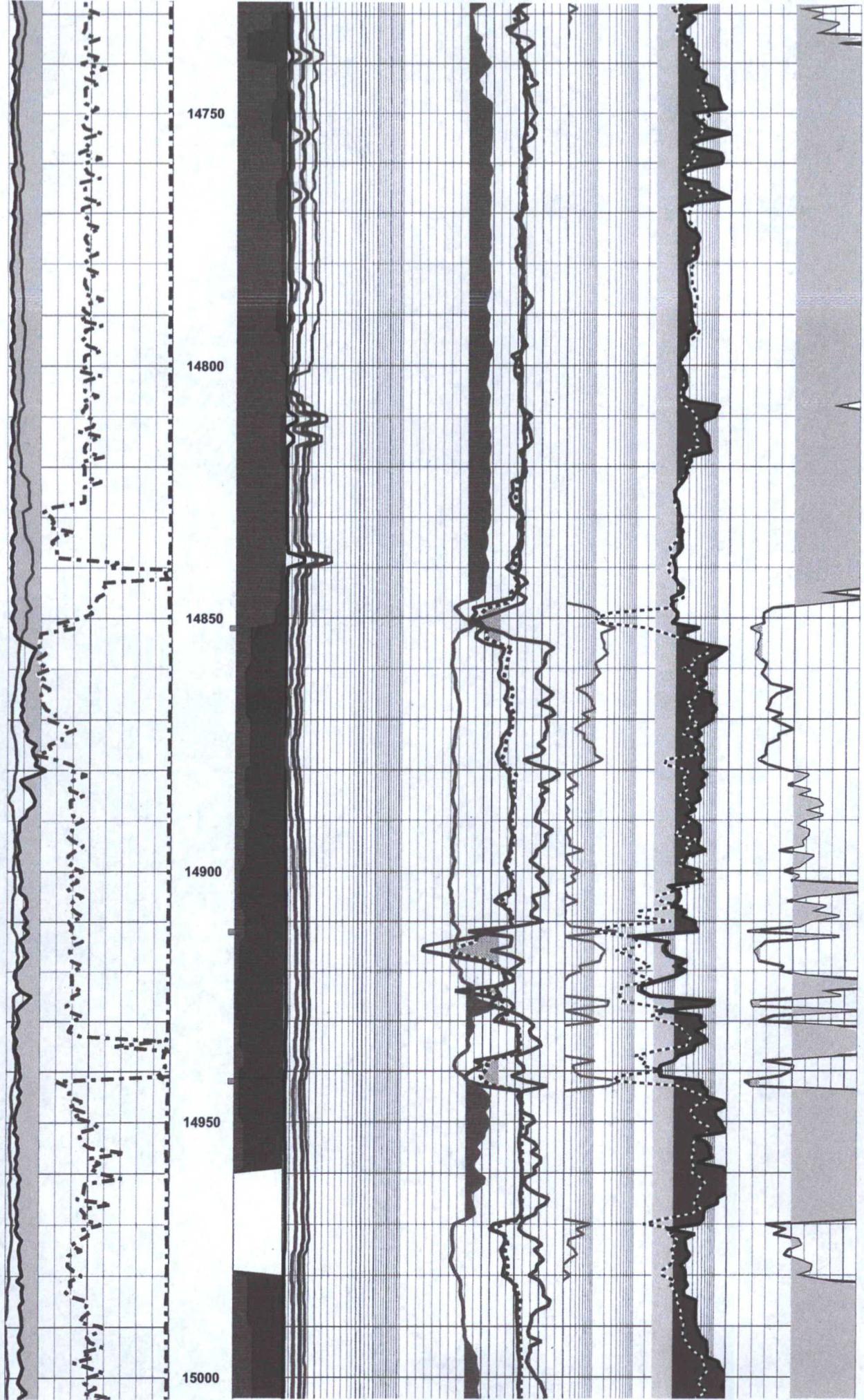
REMARKS: RW=.035 PHID

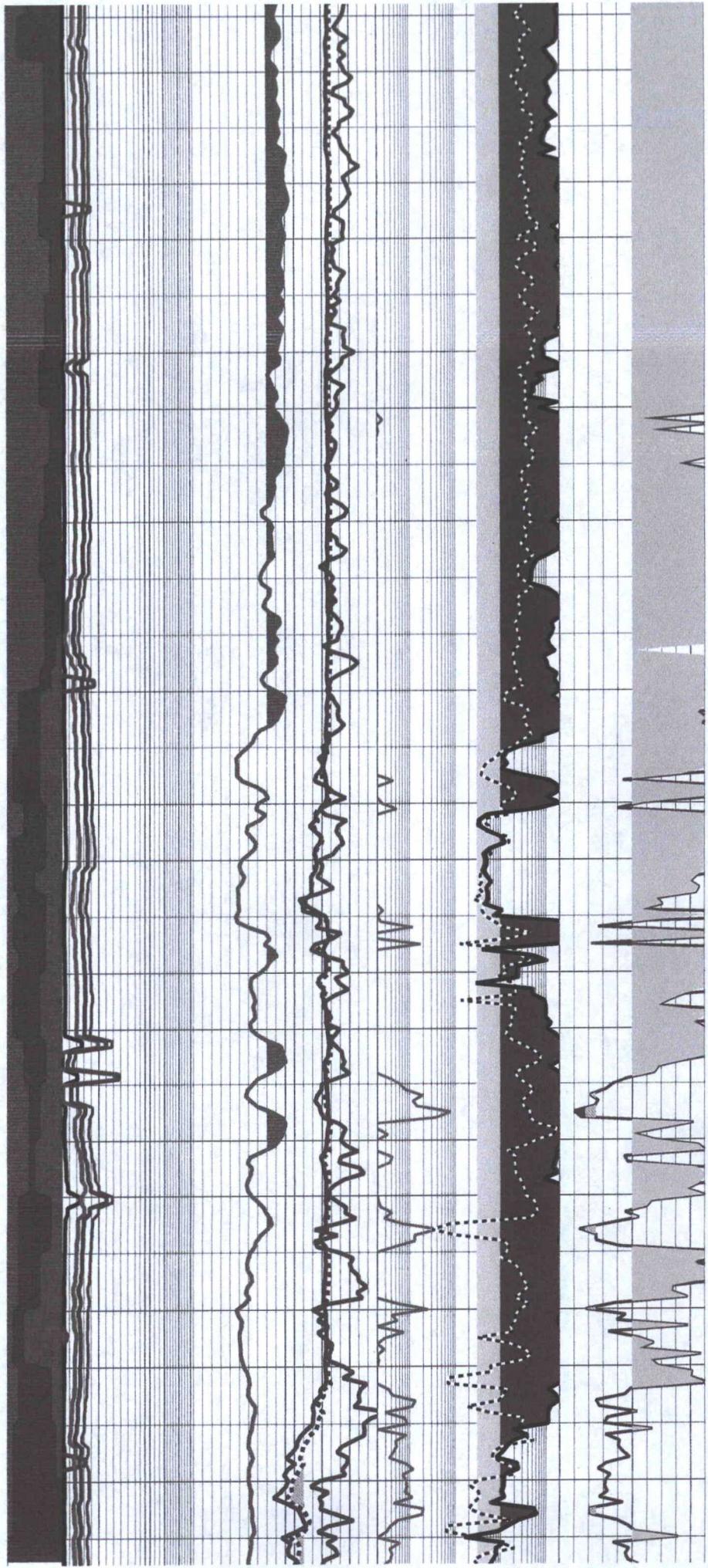
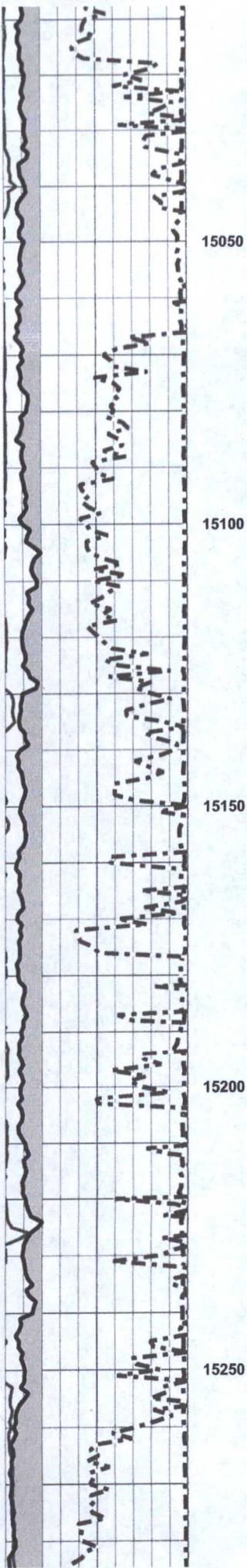
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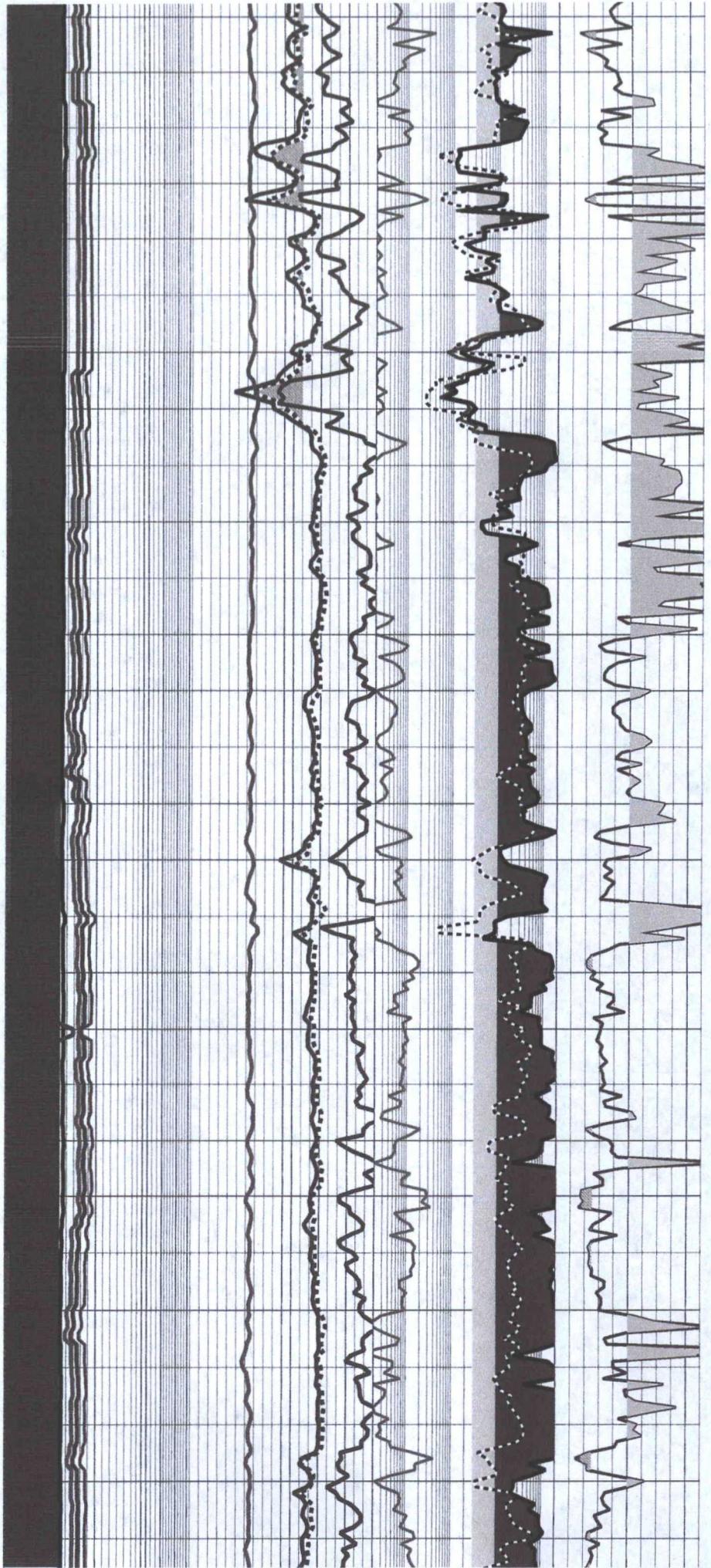
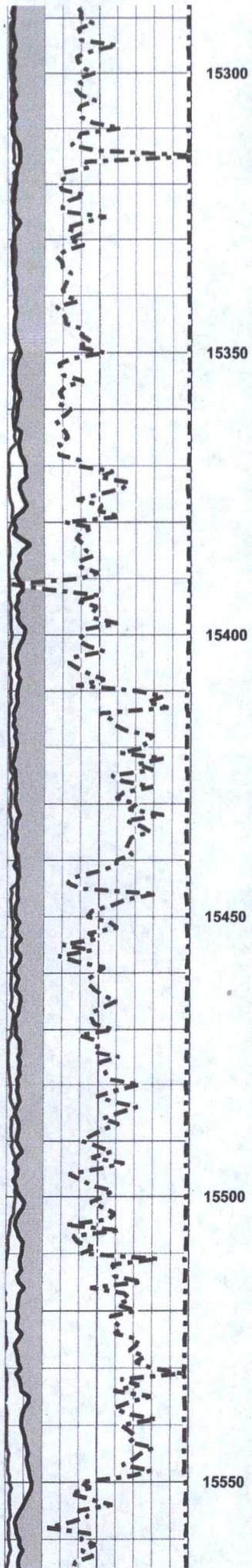
Correlation	Depth	Minerals	SAS CURVES	IL CL/FLO	Porosity	Resistivity	SW
GR	MD		C1	UT(NDR)	DPHI(DPHZ)	ResD(RLA5)	SW<35%
GAPI	150		1 UNIT:500	0.30	CFCF -0.100	OHMM 2000	
SP(N/A)	PAYDVNNCM	Anhydrite	C2	CU/FLO	PEF(PEFZ)	ResM(RLA4)	SW<50%
	5010		1 UNIT:500	0	100.2	OHMM 2000	
CALI(HCAL)	PAY FLAG	Salt	C3	UT(C)	NPHI	ResS(RXO)	SW>100%
IN	16.000		1 UNIT:500	0.30	CFCF -0.100	OHMM 2000	
GR_BU	150	Limestone	C4(NC4)	V CU	XPHI(PXND_HILT)	RT>100	Sw_XPHI
	300		1 UNIT:500	0.30	CFCF -0.10		0.0 2.0
DRILLRATE	0.000	Dolomite	C5(N/A)		CNLS(N/A)	RT>30	
min/ft	5.0		1 500	30	-10		
GR>150		Sandstone	IC4		XPHI>=6%	Rwa_XPHI	
			1 UNIT:500		0.2	2000	
GR1(N/A)	0	Shale	TOT		PEF>4		
	150		1 UNIT:500				
ROP(DRILLRATE)	200.0	Siltstone	TOT>250				
min/ft	0.0						
gr<30 API		Light Cher					
		REDSH					
		Mudstone					

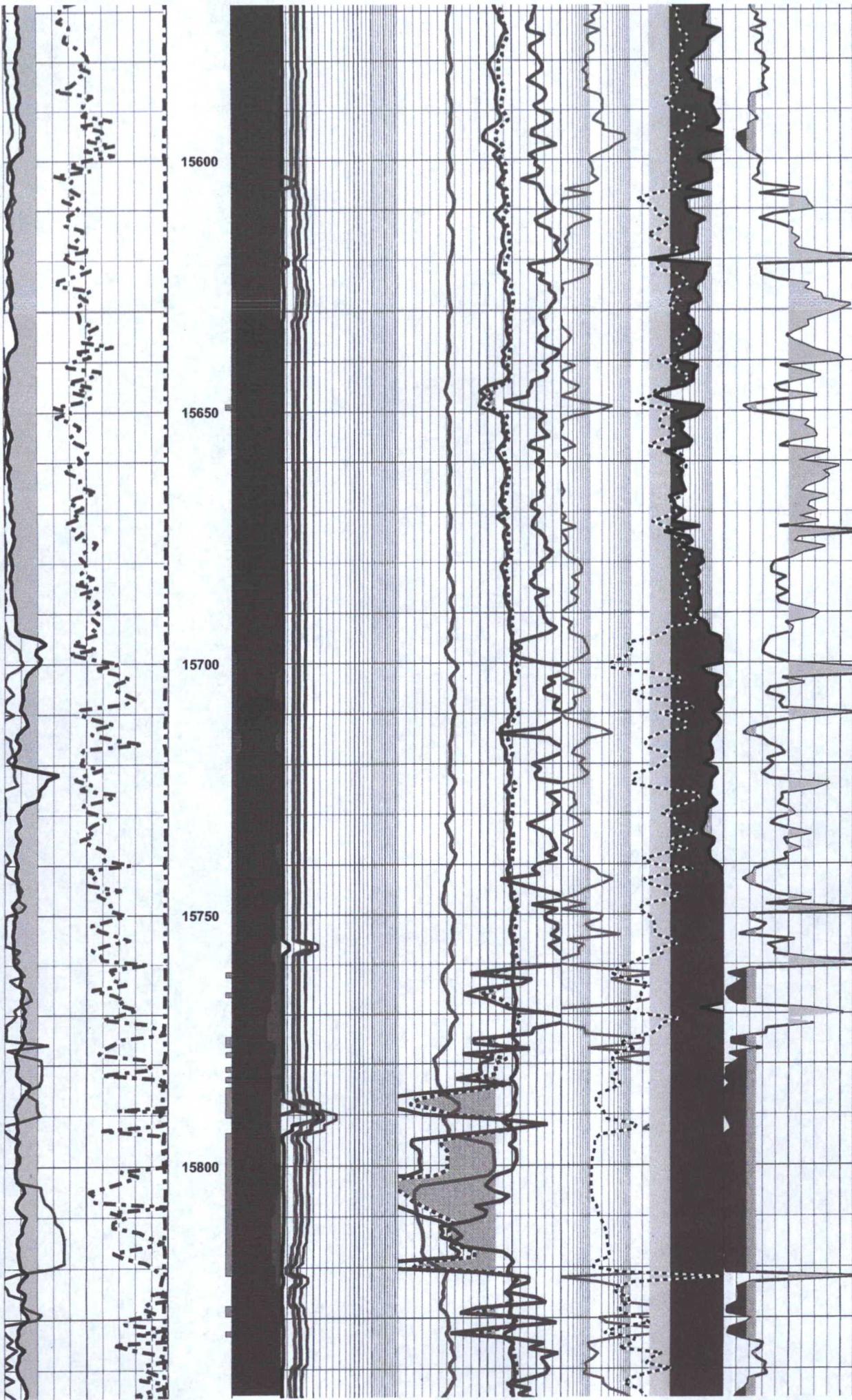
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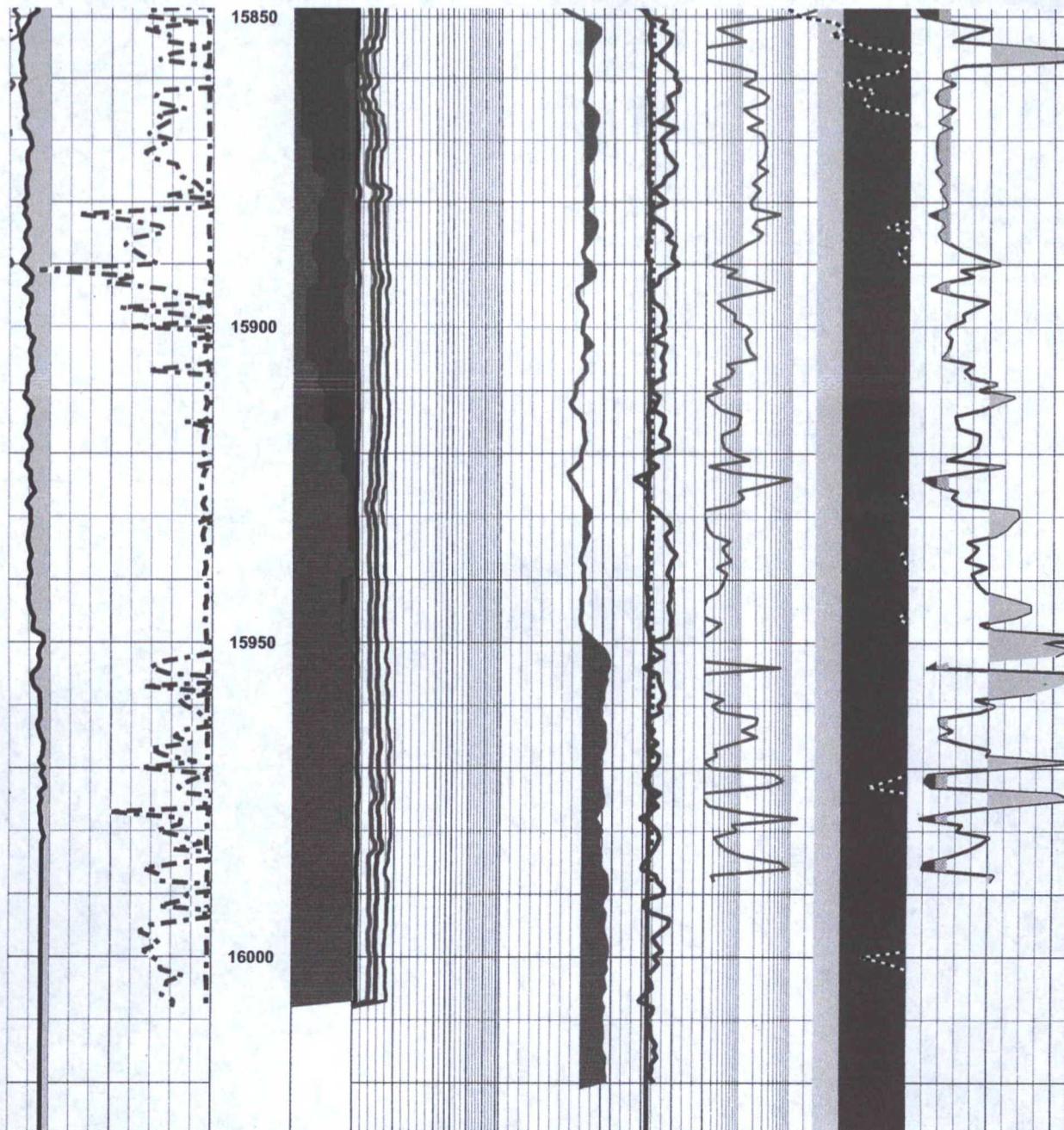












Correlation	Depth	Minerals	GAS CURVES	CL	CUF	POR	Porosity	Resistivity	SW	
GR	MD		C1	UT(NR)	F		DPHI(DPHZ)	ResD(RLA5)	SW<35%	
GAPI	150		1	UNITS	5000.80	0.30	CFCF	-0.1000.2	OHMM	2000
SP(N/A)	PAYDVNNCM		C2				PEF(PEFZ)	ResM(RLA4)	SW<50%	
	5010	Anhydrite	1	UNITS	500	0		100.2	OHMM	2000
CALI(HCAL)	PAY FLAG	Salt	C3	UT(C			NPHI	ResS(RXO)	SW>100%	
IN	16.000		1	UNITS	500	0.30	CFCF	-0.100.2	OHMM	2000
GR_BU		Limestone	C4(NC4)	V	CU		XPHI(PXND_HILT)	RT>100	Sw_XPHI	
	150		1	UNITS	500	0.30	CFCF	-0.10	0.0	2.0
DRILLRATE		Dolomite	C5(N/A)				CNLS(N/A)	RT>30		
	0.000		1	500		30		-10		
GR>150		Sandstone	IC4				XPHI>=6%	Rwa_XPHI		
			1	UNITS	500			0.2	2000	
GR1(N/A)		Shale	TOT				PEF>4			
	0		1	UNITS	500					
ROP(DRILLRATE)		Siltstone	TOT>250							
	200.0									
gr<30 API		Light Char								

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BUREAU OF LAND MANAGEMENT

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2. Name of Operator R360 PERMIAN BASIN LLC		Contact: CHRIS RUANE E-Mail: chrisr@wasteconnections.com	9. API Well No. 30-025-42545-00-X1
3a. Address 3 WATERWAY SQUARE PLACE SUITE 110 THE WOODLANDS, TX 77380	3b. Phone No. (include area code) Ph: 832.442.2204		10. Field and Pool, or Exploratory SWD
4. Location of Well (Footage, Sec., T., R., M., or Survey Description) Sec 22 T20S R32E SWSW 845FSL 1030FWL			11. County or Parish, and State LEA COUNTY, NM

HOBBS UCD
FEB 16 2016
RECEIVED

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

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

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

MIT test was run on 11/11/2015.
Paul Swartz from BLM was on site to witness.
550 psi for 30 mins. Surface and inter. csgs. open during test.
Please see attached log.

**SUBJECT TO LIKE
APPROVAL BY STATE**

14. I hereby certify that the foregoing is true and correct.		Electronic Submission #326773 verified by the BLM Well Information System For R360 PERMIAN BASIN LLC, sent to the Hobbs Committed to AFMSS for processing by PRISCILLA PEREZ on 01/04/2016 (16PP0087SE)	ACCEPTED FOR RECORD JAN 19 2016 [Signature] BUREAU OF LAND MANAGEMENT CARLSBAD FIELD OFFICE
Name (Printed/Typed) JEREMY CANNADY	Title ENGINEERING		
Signature (Electronic Submission)	Date 12/18/2015		

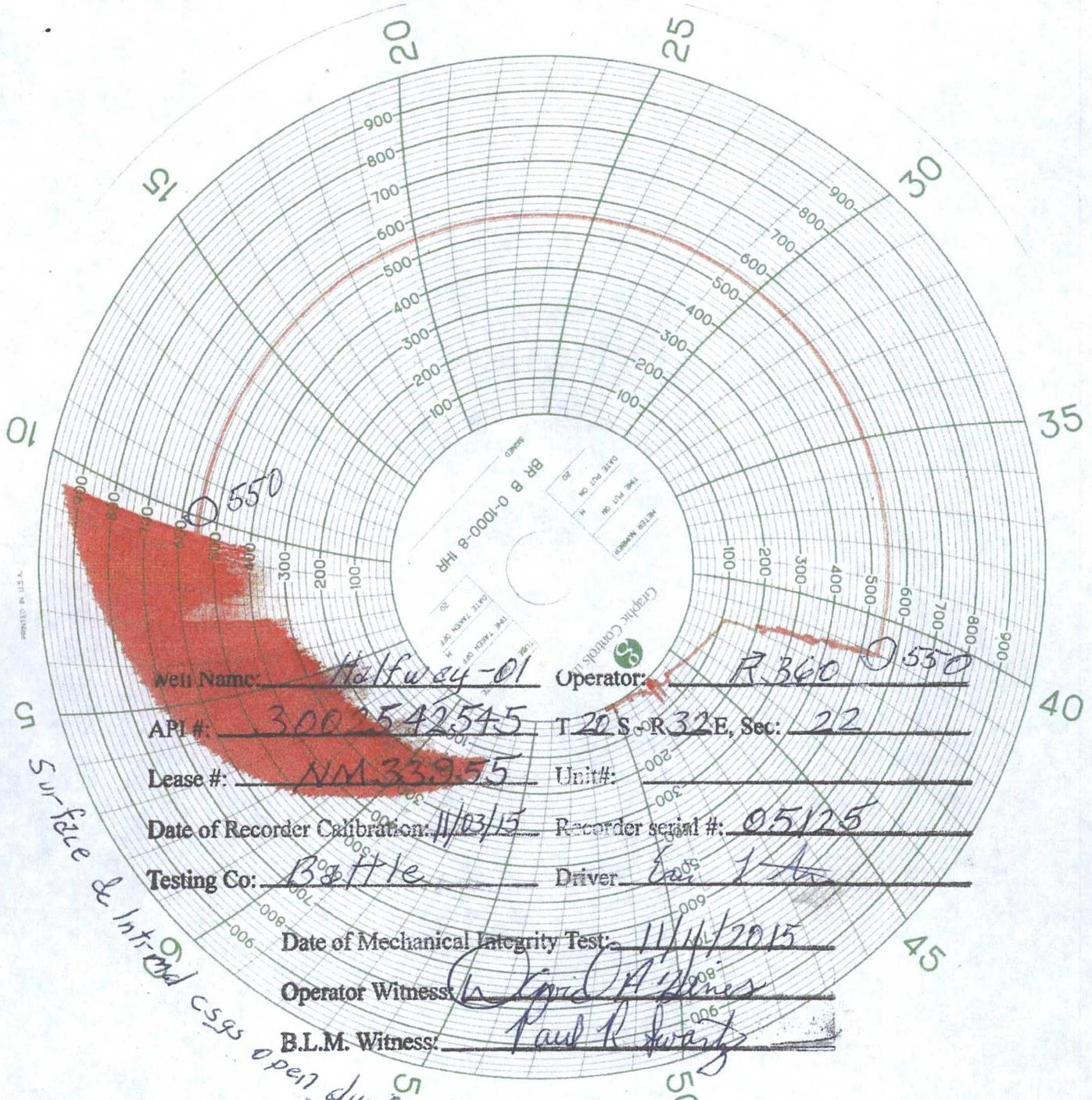
THIS SPACE FOR FEDERAL OR STATE OFFICE USE

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

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****
FOR RECORD ONLY

BB
UCD 2/17/16
KZ
BM



Well Name: Halfway-01 Operator: R.360 0550

API #: 3002542545 T 22 S & R 32 E, Sec: 22

Lease #: NM 33955 Unit#: _____

Date of Recorder Calibration: 11/03/15 Recorder serial #: 05125

Testing Co: Bottle Driver: Car 1A

Date of Mechanical Integrity Test: 11/11/2015

Operator Witness: [Signature]

B.L.M. Witness: Paul R. Swartz

Surface & Int-rod csgs open during test, no blow

OR RECORD ONLY

BB ocd
2/17/16

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

HOBBS OCD
OCD-HOBBS

FEB 16 2016

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

RECEIVED

5. Lease Serial No.
NMNM33955

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
HALFWAY SWD 1

9. API Well No.
30-025-42545

10. Field and Pool, or Exploratory
DEVONIAN

11. Sec., T., R., M., or Block and Survey
or Area Sec 22 T20S R32E Mer

12. County or Parish
LEA

13. State
NM

17. Elevations (DF, KB, RT, GL)*
3533 GL

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

1a. Type of Well Oil Well Gas Well Dry Other: INJ

b. Type of Completion New Well Work Over Deepen Plug Back Diff. Reserv.
Other _____

2. Name of Operator
R360 PERMIAN BASIN, LLC Contact: CHRIS RUANE
E-Mail: chrisr@wasteconnections.com

3. Address 3 WATERWAY SQUARE PLACE, SUITE 110
THE WOODLANDS, TX 77380 3a. Phone No. (include area code)
Ph: 832-442-2200

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface 845FSL 1030FWL 32.554615 N Lat, 103.754308 W Lon
At top prod interval reported below 845FSL 1030FWL 32.554615 N Lat, 103.754308 W Lon
At total depth 845FSL 1030FWL 32.554615 N Lat, 103.754308 W Lon

14. Date Spudded
07/01/2015 15. Date T.D. Reached
10/04/2015 16. Date Completed
 D & A Ready to Prod.
11/11/2015

18. Total Depth: MD 16009 TVD 16007 19. Plug Back T.D.: MD TVD 20. Depth Bridge Plug Set: MD TVD

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

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cements Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
36.000	30.000		0	120					
26.000	20.000 J-55	106.4	0	1076		2475	586	0	0
17.500	13.375 J-55	68.0	0	2902	1802	2242	428	0	0
12.250	9.625 L-80	47.0	0	4992	3284	806	362	0	0
8.500	7.000 HCL-80	35.0	0	14627	10456	1764	383	0	0

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
4.500	14635	14543						

25. Producing Intervals

26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) DEVONIAN OPEN HOLE	14627	16009				
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			▶						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶						

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			▶						
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
			▶						

ACCEPTED FOR RECORD

FEB 2 2016

CHRIS RUANE

BUREAU OF LAND MANAGEMENT
CARLSBAD FIELD OFFICE

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

ELECTRONIC SUBMISSION #329575 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

FOR RECORD ONLY

BS OCD 2/17/16

KAG

dm

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

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

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
SALADO	356	2969		ATOKA	12216
YATES	2969	2800		MORROW	12793
TANSIL	2800	3300		BARNETT	13752
CAPITAN	3300	5129		MISS	13884
DELAWARE	5129	7738		WOODFORD SHALE	14409
BONESPRINGS	7738	10754		DEVONIAN	14623
WOLFCAMP	10754	11714		MONTOKA	15870
STRAWN	11714	12216		SIMPSON	15950

32. Additional remarks (include plugging procedure):

Logs:
Dual Laterlog Micro-Guard
Dual Spaced Neutron Density Spectral Gamma Ray
Wave Sonic
Confidential
High Resolution Laterlog Array Micro-CFL
Compensated Neutron Three Detector Litho-Density
PEX-HRLA A ELAN

33. Circle enclosed attachments:

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

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #329575 Verified by the BLM Well Information System.
For R360 PERMIAN BASIN, LLC, sent to the Hobbs**

Name (please print) JEREMY CANNADY Title STAFF PROFESSIONAL

Signature (Electronic Submission) Date 01/22/2016

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

FOR RECORD ONLY

Additional data for transaction #329575 that would not fit on the form

32. Additional remarks, continued

LOGS WILL BE SENT BY MAIL(DVD) WITH COVER LETTER.

Formation Tops:
Section 30 and 31 represent the Formation Marks as there was not enough space to fit more than 8 formations in the WIS system.

Open hole completion.

See attached Well Bore Diagram.

FOR RECORD ONLY

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
NMNM33955

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.

8. Lease Name and Well No.
HALFWAY SWD 1

1a. Type of Well Oil Well Gas Well Dry Other: INJ
b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
Other _____

2. Name of Operator R360 PERMIAN BASIN, LLC Contact: CHRIS RUANE
E-Mail: chrisr@wasteconnections.com

3. Address 3 WATERWAY SQUARE PLACE, SUITE 110 3a. Phone No. (include area code)
THE WOODLANDS, TX 77380

FOR RECORD ONLY

Survey Report: Survey (0)

Operator	R360 Environmental Solutions	Northing	565676.200	Date	3-Dec-15
Dir. Co.	M3P Directional	Easting	718199.160	System	2 - St. Plane
Well Name	Survey (0)	Elevation	3560.00	Datum	1983 - NAD83
Location	Lea Co. NM.	Latitude	32.553790	Zone	3001 - New Mexico East
Rig	Precision #593	Longitude	103.759317	Scale Fac.	
Job	2015019	Units	Feet	Converg.	

MD	INC	AZI	TVD	+N/S-	+E/W-	VS@0°	BR	TR	DLS	
1897.8	1.14	36.99	1897.73	-6.1	3.49	-6.1	0	0	0	
1897.8: Tie-in From Gyro										
1981	1.1	28.2	1980.91	-4.74	4.37	-4.74	-0.05	-10.57	0.21	
2002	0.5	29	2001.91	-4.48	4.51	-4.48	-2.86	3.81	2.86	
2037	0.2	265.6	2036.91	-4.35	4.52	-4.35	-0.86	676	1.81	
2082	0.4	146.9	2081.91	-4.49	4.53	-4.49	0.44	-263.78	1.17	
2171	0.6	92.1	2170.91	-4.76	5.16	-4.76	0.22	-61.57	0.55	
2260	0.9	68.5	2259.9	-4.52	6.28	-4.52	0.34	-26.52	0.48	
2350	1	78.6	2349.89	-4.11	7.7	-4.11	0.11	11.22	0.22	
2439	0.8	85.9	2438.88	-3.91	9.09	-3.91	-0.22	8.2	0.26	
2529	1	90	2528.87	-3.87	10.5	-3.87	0.22	4.56	0.23	
2618	1.1	81.8	2617.85	-3.75	12.12	-3.75	0.11	-9.21	0.2	
2708	0.9	77.5	2707.84	-3.47	13.67	-3.47	-0.22	-4.78	0.24	
2797	0.7	85.4	2796.83	-3.27	14.89	-3.27	-0.22	8.88	0.26	
2847	0.3	84.1	2846.83	-3.24	15.32	-3.24	-0.8	-2.6	0.8	
2963	0.1	78	2962.83	-3.18	15.73	-3.18	-0.17	-5.26	0.17	
3063	0.2	353.8	3062.83	-2.99	15.79	-2.99	0.1	-84.2	0.21	
3152	0.2	321.8	3151.83	-2.72	15.68	-2.72	0	-35.96	0.12	
3241	0.3	9.4	3240.82	-2.36	15.62	-2.36	0.11	53.48	0.25	
3331	0.3	16.7	3330.82	-1.91	15.73	-1.91	0	8.11	0.04	
3420	0.1	74.7	3419.82	-1.66	15.87	-1.66	-0.22	65.17	0.29	
3510	0.4	86.8	3509.82	-1.62	16.26	-1.62	0.33	13.44	0.34	
3599	0.4	123.4	3598.82	-1.78	16.83	-1.78	0	41.12	0.28	
3688	0.5	73.3	3687.82	-1.84	17.46	-1.84	0.11	-56.29	0.44	
3778	0.2	48.3	3777.82	-1.62	17.95	-1.62	-0.33	-27.78	0.37	
3868	0.3	46.7	3867.81	-1.35	18.24	-1.35	0.11	-1.78	0.11	
3957	0.1	92.1	3956.81	-1.2	18.49	-1.2	-0.22	51.01	0.27	
4046	0.1	134.1	4045.81	-1.25	18.62	-1.25	0	47.19	0.08	
4136	0	147.2	4135.81	-1.31	18.68	-1.31	-0.11	14.56	0.11	
4225	0.1	20.2	4224.81	-1.23	18.71	-1.23	0.11	-142.7	0.11	
4315	0.2	10.1	4314.81	-1.01	18.76	-1.01	0.11	-11.22	0.11	
4404	0.3	5.2	4403.81	-0.62	18.81	-0.62	0.11	-5.51	0.11	
4493	0.4	30.7	4492.81	-0.12	18.99	-0.12	0.11	28.65	0.21	
4583	0.3	39.2	4582.81	0.33	19.3	0.33	-0.11	9.44	0.13	
4672	0.2	330	4671.81	0.65	19.37	0.65	-0.11	-77.75	0.33	
4761	0.3	13.7	4760.81	1.01	19.35	1.01	0.11	49.1	0.23	
4851	0.1	332.4	4850.81	1.31	19.37	1.31	-0.22	-45.89	0.26	
4929	0.2	275	4928.81	1.38	19.2	1.38	0.13	-73.59	0.22	
5019	0.3	334.3	5018.81	1.6	18.94	1.6	0.11	65.89	0.29	
5108	0.4	314.2	5107.8	2.03	18.62	2.03	0.11	-22.58	0.18	
5198	0.4	291	5197.8	2.36	18.1	2.36	0	-25.78	0.18	
5288	0.5	349.7	5287.8	2.86	17.73	2.86	0.11	65.22	0.5	
5377	0.6	348.1	5376.8	3.7	17.57	3.7	0.11	-1.8	0.11	
5466	0.4	358	5465.79	4.47	17.46	4.47	-0.22	11.12	0.24	
5555	0.8	324.9	5554.79	5.28	17.09	5.28	0.45	-37.19	0.58	
5645	0.8	348.6	5644.78	6.41	16.61	6.41	0	26.33	0.37	
5734	0.8	315.4	5733.77	7.47	16.05	7.47	0	-37.3	0.51	
5823	0.3	346.8	5822.77	8.14	15.56	8.14	-0.56	35.28	0.64	
5913	0.4	307.9	5912.77	8.56	15.26	8.56	0.11	-43.22	0.28	
6002	0.8	318.5	6001.76	9.21	14.6	9.21	0.45	11.91	0.46	
6092	0.7	291.5	6091.75	9.89	13.67	9.89	-0.11	-30	0.4	
6181	0.7	285.6	6180.75	10.23	12.64	10.23	0	-6.63	0.08	
6271	0.4	315.2	6270.74	10.6	11.89	10.6	-0.33	32.89	0.45	

Survey Report: Survey (0)

Operator	R360 Environmental Solutions	Northing	565676.200	Date	3-Dec-15
Dir. Co.	M3P Directional	Easting	718199.160	System	2 - St. Plane
Well Name	Survey (0)	Elevation	3560.00	Datum	1983 - NAD83
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Rig	Precision #593	Longitude	103.759317	Scale Fac.	
Job	2015019	Units	Feet	Converg.	

MD	INC	AZI	TVD	+N/S-	+E/W-	VS@0°	BR	TR	DLS
6360	0.5	283.5	6359.74	10.91	11.3	10.91	0.11	-35.62	0.3
6450	0.9	284.1	6449.73	11.18	10.23	11.18	0.44	0.67	0.44
6539	1	284	6538.72	11.54	8.8	11.54	0.11	-0.11	0.11
6629	0.7	304.4	6628.71	12.04	7.58	12.04	-0.33	22.67	0.47
6718	1.2	310.4	6717.7	12.95	6.42	12.95	0.56	6.74	0.57
6807	0.2	215.1	6806.69	13.42	5.62	13.42	-1.12	-107.08	1.39
6897	1	187.1	6896.69	12.52	5.44	12.52	0.89	-31.11	0.92
6986	0.9	205.3	6985.67	11.11	5.04	11.11	-0.11	20.45	0.36
7076	0.6	193.7	7075.67	10.02	4.63	10.02	-0.33	-12.89	0.37
7165	0.6	236.1	7164.66	9.3	4.13	9.3	0	47.64	0.49
7255	0.7	190.8	7254.66	8.5	3.64	8.5	0.11	-50.33	0.57
7344	0.7	215.5	7343.65	7.53	3.22	7.53	0	27.75	0.34
7433	0.3	229.3	7432.65	6.93	2.73	6.93	-0.45	15.51	0.47
7523	0.3	274.3	7522.65	6.79	2.31	6.79	0	50	0.26
7612	0.5	145.1	7611.64	6.49	2.3	6.49	0.22	-145.17	0.82
7702	0.6	156.4	7701.64	5.74	2.72	5.74	0.11	12.56	0.16
7791	0.4	195.9	7790.64	5.01	2.82	5.01	-0.22	44.38	0.43
7878	0.7	165.4	7877.63	4.21	2.87	4.21	0.34	-35.06	0.47
7968	0.4	135.5	7967.63	3.45	3.23	3.45	-0.33	-33.22	0.45
8057	0.6	147.3	8056.63	2.84	3.7	2.84	0.22	13.26	0.25
8147	1	150.5	8146.62	1.76	4.34	1.76	0.44	3.56	0.45
8236	1.2	161.1	8235.6	0.2	5.02	0.2	0.22	11.91	0.32
8325	0.4	191.7	8324.59	-0.99	5.26	-0.99	-0.9	34.38	0.99
8415	0.4	253.3	8414.59	-1.38	4.9	-1.38	0	68.44	0.46
8504	0.9	253.2	8503.58	-1.68	3.93	-1.68	0.56	-0.11	0.56
8593	0.5	256.1	8592.58	-1.97	2.88	-1.97	-0.45	3.26	0.45
8683	0.3	336	8682.57	-1.85	2.41	-1.85	-0.22	88.78	0.6
8772	0.2	136.2	8771.57	-1.75	2.42	-1.75	-0.11	-224.49	0.55
8861	0.3	83.2	8860.57	-1.83	2.76	-1.83	0.11	-59.55	0.27
8951	0.2	357.7	8950.57	-1.65	2.99	-1.65	-0.11	-95	0.39
9040	0.4	7.3	9039.57	-1.19	3.02	-1.19	0.22	10.79	0.23
9130	0.3	35.5	9129.57	-0.68	3.2	-0.68	-0.11	31.33	0.22
9220	0.6	307.2	9219.57	-0.21	2.96	-0.21	0.33	-98.11	0.74
9309	0.6	327.1	9308.56	0.47	2.33	0.47	0	22.36	0.23
9399	0.5	329.2	9398.56	1.2	1.88	1.2	-0.11	2.33	0.11
9488	0.4	359.5	9487.56	1.85	1.67	1.85	-0.11	34.04	0.29
9577	0.4	358.5	9576.55	2.47	1.66	2.47	0	-1.12	0.01
9667	0.4	33.2	9666.55	3.04	1.83	3.04	0	38.56	0.27
9756	0.1	296.2	9755.55	3.34	1.93	3.34	-0.34	-108.99	0.48
9846	0.2	88.5	9845.55	3.38	2.01	3.38	0.11	169.22	0.32
9936	0.5	49.5	9935.55	3.64	2.47	3.64	0.33	-43.33	0.41
10025	0.4	40.8	10024.55	4.12	2.97	4.12	-0.11	-9.78	0.14
10114	0.7	320.7	10113.54	4.78	2.83	4.78	0.34	-90	0.84
10204	0.9	315.2	10203.54	5.71	1.98	5.71	0.22	-6.11	0.24
10293	0.6	299.6	10292.53	6.43	1.08	6.43	-0.34	-17.53	0.4
10383	0.6	292.7	10382.52	6.85	0.24	6.85	0	-7.67	0.08
10472	0.6	235.1	10471.52	6.76	-0.57	6.76	0	-64.72	0.65
10562	0.9	205.2	10561.51	5.85	-1.26	5.85	0.33	-33.22	0.54
10651	1	200.8	10650.5	4.49	-1.83	4.49	0.11	-4.94	0.14
10740	1.1	208.1	10739.48	3.01	-2.51	3.01	0.11	8.2	0.19
10829	1.2	215.2	10828.47	1.5	-3.45	1.5	0.11	7.98	0.2
10919	1.2	209	10918.45	-0.1	-4.45	-0.1	0	-6.89	0.14
11009	1.1	198.7	11008.43	-1.74	-5.19	-1.74	-0.11	-11.44	0.25

RECORD ONLY

Survey Report: Survey (0)

Operator	R360 Environmental Solutions	Northing	565676.200	Date	3-Dec-15
Dir. Co.	M3P Directional	Easting	718199.160	System	2 - St. Plane
Well Name	Survey (0)	Elevation	3560.00	Datum	1983 - NAD83
Location	Lea Co. NM.	Latitude	32.553790	Zone	3001 - New Mexico East
Rig	Precision #593	Longitude	103.759317	Scale Fac.	
Job	2015019	Units	Feet	Converg.	

MD	INC	AZI	TVD	+N/S-	+E/W-	VS@0°	BR	TR	DLS
11099	0.8	166.2	11098.42	-3.17	-5.31	-3.17	-0.33	-36.11	0.67
11190	0.7	170.6	11189.41	-4.33	-5.07	-4.33	-0.11	4.84	0.13
11279	0.7	209.2	11278.4	-5.34	-5.25	-5.34	0	43.37	0.52
11370	0.9	229.5	11369.39	-6.29	-6.06	-6.29	0.22	22.31	0.38
11460	0.1	182.3	11459.39	-6.83	-6.6	-6.83	-0.89	-52.44	0.93
11550	0.3	93.1	11549.39	-6.92	-6.37	-6.92	0.22	-99.11	0.35
11640	0.1	356.1	11639.39	-6.86	-6.14	-6.86	-0.22	292.22	0.36
11730	0.4	346.9	11729.39	-6.47	-6.22	-6.47	0.33	-10.22	0.34
11820	0.5	325.1	11819.39	-5.84	-6.51	-5.84	0.11	-24.22	0.22
11909	0.5	328.6	11908.38	-5.19	-6.94	-5.19	0	3.93	0.03
11999	0.4	321.6	11998.38	-4.61	-7.34	-4.61	-0.11	-7.78	0.13
12088	0.3	342	12087.38	-4.15	-7.6	-4.15	-0.11	22.92	0.18
12178	0	356.5	12177.38	-3.92	-7.68	-3.92	-0.33	16.11	0.33
12267	0.2	20.4	12266.38	-3.78	-7.62	-3.78	0.22	26.85	0.22
12357	0.5	300	12356.38	-3.43	-7.91	-3.43	0.33	-89.33	0.56
12447	0.6	309	12446.37	-2.94	-8.61	-2.94	0.11	10	0.15
12537	0.4	299.7	12536.37	-2.49	-9.25	-2.49	-0.22	-10.33	0.24
12627	0.5	322.7	12626.37	-2.02	-9.76	-2.02	0.11	25.56	0.23
12718	0.4	5.9	12717.36	-1.39	-9.97	-1.39	-0.11	47.47	0.38
12808	0.1	90.6	12807.36	-1.08	-9.86	-1.08	-0.33	94.11	0.45
12898	0.2	33.8	12897.36	-0.95	-9.69	-0.95	0.11	-63.11	0.19
12988	0.6	32.1	12987.36	-0.42	-9.36	-0.42	0.44	-1.89	0.44
13077	0.6	50.3	13076.35	0.27	-8.75	0.27	0	20.45	0.21
13167	0.7	30.8	13166.35	1.05	-8.11	1.05	0.11	-21.67	0.27
13257	0.3	44	13256.34	1.69	-7.66	1.69	-0.44	14.67	0.46
13347	0.7	32.1	13346.34	2.33	-7.2	2.33	0.44	-13.22	0.46
13437	0.7	333.9	13436.34	3.28	-7.15	3.28	0	-64.67	0.76
13527	1.4	344.9	13526.32	4.84	-7.68	4.84	0.78	12.22	0.81
13616	1.1	10.7	13615.3	6.73	-7.81	6.73	-0.34	28.99	0.71
13706	0.6	314.7	13705.29	7.91	-7.98	7.91	-0.56	-62.22	1.01
13796	1.5	292.4	13795.27	8.69	-9.41	8.69	1	-24.78	1.08
13885	1.5	323.9	13884.25	10.08	-11.17	10.08	0	35.39	0.91
13974	0.9	309.1	13973.23	11.46	-12.4	11.46	-0.67	-16.63	0.75
14064	0.5	304.8	14063.22	12.13	-13.27	12.13	-0.44	-4.78	0.45
14151	0.6	292.5	14150.22	12.52	-14	12.52	0.11	-14.14	0.18
14241	0.7	282.7	14240.21	12.82	-14.97	12.82	0.11	-10.89	0.17
14332	0.6	275.7	14331.2	12.99	-15.99	12.99	-0.11	-7.69	0.14
14423	0.8	292.2	14422.2	13.28	-17.05	13.28	0.22	18.13	0.31
14512	1.3	294.5	14511.18	13.93	-18.55	13.93	0.56	2.58	0.56
14692	1.1	156.6	14691.16	13.19	-19.72	13.19	-0.11	-76.61	1.25
14790	0.8	178.2	14789.15	11.64	-19.32	11.64	-0.31	22.04	0.47
14885	2.1	128.6	14884.12	9.89	-17.94	9.89	1.37	-52.21	1.78
14980	2.2	127.3	14979.06	7.7	-15.13	7.7	0.11	-1.37	0.12
15074	1.3	173.4	15073.01	5.55	-13.57	5.55	-0.96	49.04	1.7
15169	0.9	185	15168	3.74	-13.51	3.74	-0.42	12.21	0.48
15264	0.6	159.6	15262.99	2.53	-13.41	2.53	-0.32	-26.74	0.46
15359	0.7	161.1	15357.98	1.51	-13.04	1.51	0.11	1.58	0.11
15454	0.4	198.1	15452.98	0.65	-12.96	0.65	-0.32	38.95	0.47
15549	0.8	205.3	15547.97	-0.27	-13.35	-0.27	0.42	7.58	0.43
15643	0.1	243.6	15641.97	-0.9	-13.7	-0.9	-0.74	40.74	0.77
15738	0.4	46	15736.97	-0.7	-13.54	-0.7	0.32	-208	0.52
15833	2.5	30.6	15831.93	1.31	-12.24	1.31	2.21	-16.21	2.23
15927	2.8	32.2	15925.83	5.02	-9.98	5.02	0.32	1.7	0.33

RECORD ONLY

Survey Report: Survey (0)

Operator	R360 Environmental Solutions	Northing	565676.200	Date	3-Dec-15				
Dir. Co.	M3P Directional	Easting	718199.160	System	2 - St. Plane				
Well Name	Survey (0)	Elevation	3560.00	Datum	1983 - NAD83				
Location	Lea Co. NM.	Latitude	32.553790	Zone	3001 - New Mexico East				
Rig	Precision #593	Longitude	103.759317	Scale Fac.					
Job	2015019	Units	Feet	Converg.					
MD	INC	AZI	TVD	+N/S-	+E/W-	VS@0°	BR	TR	DLS
16009	2.8	32.2	16007.74	8.41	-7.84	8.41	0	0	0

16009: PTB

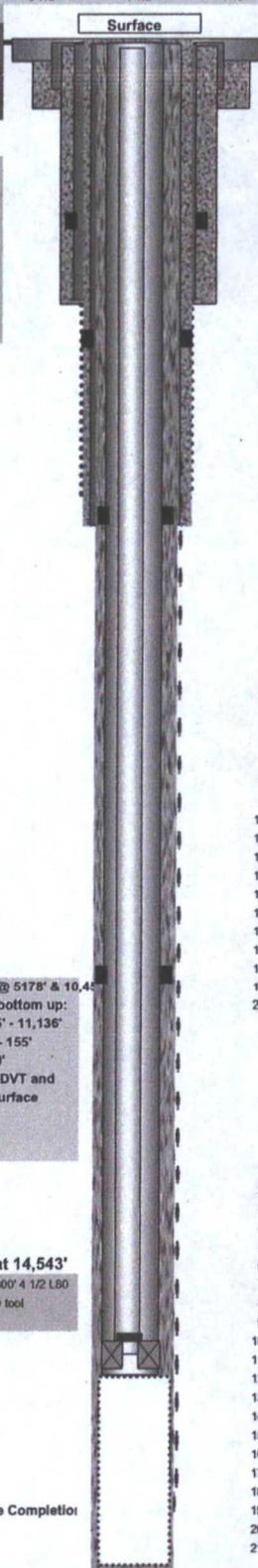
FOR RECORD ONLY

Cambrian Management EXECUTIVE SUMMARY WELLBORE DIAGRAM

WELL NAME:	R 360 Halfway SWD #1	STATE:	New Mexico	Permit #		Job #					
LOCATION:	806 FSL 1007 FWL Unit M (SW/4, SW/4)	COUNTY:	Lea	Spud	TD	Rtg Release	rig Days				
LOCATION:	Seal 22, T 205, R32E 32.533889 - 103.759444	DATE	Drill	JULY 1 2015	Oct 4 2015	Oct 7 2015					
ELEVATION:		GL 3533	Complete								
API#				TVD	16000	PSTD					
Drill Contractor	Precision Drilling Rig 593	PREPARED	A Rickard	Total Depth	16000						
	DEPTH	HOLE SIZE	CASING SIZE	WEIGHT	GRADE	THREAD	CMT	CMT VOL	TOC	centralizers	DV Depth
Conductor CASING:	120	36"	30"				See cement slurries below		surface		none
Surf CASING:	1080	24"	20"	106.4 ppf	J55	LTC	See cement lab on bottom		surface	TBD	none
1st Int CASING:	2902	17 1/2"	13 3/8"	68 ppf	J-55	LTC			surface	TBD	1802
2nd Int CASING:	4992	12 1/4"	9 5/8"	47	L-80	LTC			surface	TBD	3284
Prod Casing	14,635	8 1/2"	7"	35/29 ppf	HCL80/HCP-114	LTC			surface	Temp Survey	5178/10455
Tubing	14635	5 7/8"	4 1/2"	11.6	L80/CLS100	8rnd LTC					

Water Board Depth 1060'
Last updated
Regulator Mark Larson
Drilling Dallas 10732219
Complete Andy 13152619
Workover

Date
Initial Potential Oil (BOPD)
Gas (MCFD)
Water (BPD)
GOR
Flowing/Pumping Choke
Flowing Tbg psi
Csg Pressure
Oil Gravity



Vendor	Type	Rating
C		
B		
A		

20" Surface casing @ 1080'
circulated cmt to surface

13 3/8" 1st Intermediate set @ 2902' with a DV set @ 1802' circulated cement to surface

9 5/8" 2nd Intermediate set @ 4992' with ECP set @ 4992' with DVT set @ 3284' circulated cement to surface

Geology	ACTUAL	Depth (top)
1 Triassic		
2 Salado		350
3 Tansil		2800
4 Yates		2696
5 Capitan		3300
6 Delaware Mountain		5129
7 Bone Spring		7738
8 Wolfcamp		10,754
9 Strawn		11,714
10 Aloka		12,216
11 Morrow		12,793
12 Barnett		13,752
13 Mississippian Lime		13,884
14 Woodford Shale		14,409
15 Devonian		14,623
16 Monloya		15,870
17 Simpson		15,950
18 Ellenberger		16,300
19 Granite		

7" set @ 14,635' with DVT @ 5178' & 10,400'
7" casing set as follows f/ bottom up:
7" HCL-80 35# LTC/ 14,635' - 11,136'
7" P-110 29# LTC / 11,136' - 155'
7" HCL-80 35# LTC/ 155' - 0'
circulated cement off both DVT and and circulated cement to surface

injection packer set at 14,543'
CLS100 5000' 4 1/2 p110 9300' 4 1/2 L80
Arrowset 1X w/ O/O tool
F nipple R nipple

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Production Equip			
Type of Ill	Depth		
Items	Length	ID	OD
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FOR RECORD ONLY

5 7/8" Open Hole Completion

5 7/8" >> TD 16,000 +/-