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State of West Virginia
Department of Environmental Protection - Office of Oil and Gas
Well Operator's Report of Well Work

API 47-95-02192 County Tyler District McElroy
Quad Center Point 7.5 Pad Name McIntyre Field/Pool Name _____
Farm name L. McIntyre Well Number 1
Operator (as registered with the OOG) Commonwealth Energy, Inc.
Address 28 Magnolia Plaza City Weston State WV Zip 26452

As Drilled location NAD 83/UTM Attach an as-drilled plat, profile view, and deviation survey
Top hole Northing _____ Easting _____
Landing Point of Curve Northing _____ Easting _____
Bottom Hole Northing _____ Easting _____

Elevation (ft) 1192 GL Type of Well New Existing Type of Report Interim Final
Permit Type Deviated Horizontal Horizontal 6A Vertical Depth Type Deep Shallow
Type of Operation Convert Deepen Drill Plug Back Redrilling Rework Stimulate
Well Type Brine Disposal CBM Gas Oil Secondary Recovery Solution Mining Storage Other _____
Type of Completion Single Multiple Fluids Produced Brine Gas NGL Oil Other _____
Drilled with Cable Rotary

RECEIVED
Office of Oil and Gas

Drilling Media Surface hole Air Mud Fresh Water Intermediate hole Air Mud Fresh Water Brine
Production hole Air Mud Fresh Water Brine
Mud Type(s) and Additive(s)
None

WV Department of
Environmental Protection

Date permit issued 06/27/2014 Date drilling commenced 07/09/2014 Date drilling ceased 07/16/2014
Date completion activities began 08/25/2014 Date completion activities ceased 08/30/2014
Verbal plugging (Y/N) N Date permission granted _____ Granted by _____

Please note: Operator is required to submit a plugging application within 5 days of verbal permission to plug

Freshwater depth(s) ft _____ Open mine(s) (Y/N) depths _____
Salt water depth(s) ft _____ Void(s) encountered (Y/N) depths _____
Coal depth(s) ft _____ Cavern(s) encountered (Y/N) depths _____
Is coal being mined in area (Y/N) _____

Reviewed by:

10/31/2014

API 47-95 - 02192 Farm name L. McIntyre Well number 1

CASING STRINGS	Hole Size	Casing Size	Depth	New or Used	Grade wt/ft	Basket Depth(s)	Did cement circulate (Y/ N) * Provide details below*
Conductor	15	13 3/8	30	Used	42 lb	None	Yes
Surface	12 1/4	9 5/8	168.35	New	27 lb	None	Yes
Coal	None						
Intermediate 1	8 3/4	7	2270.70	New	17 lb	84	Yes
Intermediate 2							
Intermediate 3							
Production	6 1/4	4 1/2	3184	New	10.5 lb	2807/2675	No
Tubing						-	
Packer type and depth set							

Comment Details Circulated approximately 5 BBLs cement on 9 5/8 and 7" cement jobs Est. cmt top 1738

CEMENT DATA	Class/Type of Cement	Number of Sacks	Slurry wt (ppg)	Yield (ft ³ /sks)	Volume (ft ³)	Cement Top (MD)	WOC (hrs)
Conductor	A	10	15.6	1.18		Surface	12
Surface	A	70	15.6	1.18		Surface	12
Coal							
Intermediate 1	A	320	14.7	1.18		Surface	12
Intermediate 2							
Intermediate 3							
Production	A	150	14.7	1.36		1738	
Tubing							

Drillers TD (ft) 3284 Loggers TD (ft) 3278

Deepest formation penetrated Gordon Plug back to (ft) none

Plug back procedure None

Kick off depth (ft) None

Check all wireline logs run caliper density deviated/directional induction
 neutron resistivity gamma ray temperature sonic

Well cored Yes No Conventional Sidewall Were cuttings collected Yes No

DESCRIBE THE CENTRALIZER PLACEMENT USED FOR EACH CASING STRING one centralizer on 7 inch csg at 127 foot.
7 centralizers on 4 1/2 csg at 3160 foot, 3118 foot, 3071 foot, 3028 foot, 2984 foot, 2939 foot, 2894 foot

WAS WELL COMPLETED AS SHOT HOLE Yes No DETAILS _____

WAS WELL COMPLETED OPEN HOLE? Yes No DETAILS _____

WERE TRACERS USED Yes No TYPE OF TRACER(S) USED _____

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<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>	
<u>Gordon</u>	<u>3058</u> TVD	<u>3066</u> MD
<u>Gordon</u>	<u>3071</u>	<u>3081</u>

Please insert additional pages as applicable.

GAS TEST Build up Drawdown Open Flow OIL TEST Flow Pump

SHUT-IN PRESSURE Surface 500 psi Bottom Hole 500 psi DURATION OF TEST 48 hrs

OPEN FLOW Gas 50 mcfpd Oil 5 bpd NGL n/a bpd Water n/a bpd GAS MEASURED BY Estimated Orifice Pilot

LITHOLOGY/ FORMATION	TOP	BOTTOM	TOP	BOTTOM	DESCRIBE ROCK TYPE AND RECORD QUANTITY AND TYPE OF FLUID (FRESHWATER, BRINE, OIL, GAS, H ₂ S, ETC)
	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
KB-GL	0	10	0	10	KB-GL
Fill	10	12	10	12	Fill
Red Rock	12	24	12	24	Red Rock
Shale	24	42	24	42	Shale
Red Rock	42	68	42	68	Red Rock
Shale	68	123	68	123	Shale
Red Rock	123	155	123	155	Red Rock
Shale	155	215	155	215	Shale
Sand	215	285	215	285	Sand
Sand & Shale	285	310	285	310	Sand & Shale
Red Rock	310	365	310	365	Red Rock
Sand & Shale	365	875	365	875	Sand & Shale
Red Rock & Shale	875	900	875	900	Red Rock & Shale
Shale	900	960	900	960	Shale

Please insert additional pages as applicable.

Drilling Contractor Mitchell Drilling, Inc.
Address 2529 Sycamore Road City Clarksburg State WV Zip 26301

Logging Company Nabors Completion and Production Services, Co
Address PO Box 975682 City Dallas State TX Zip 75397

Cementing Company Formation Cementing, Inc
Address PO Box 2667 City Zanesville State OH Zip 43702

Stimulating Company Universal Well Services
Address 5 Hall Road City Buckhannon State WV Zip 26201

Please insert additional pages as applicable.

Completed by Roy T McKisic Telephone 304-932-1468
Signature _____ Title Completion Supervisor Date 10/03/2014

Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

API 47- 95 - 02192 Farm name L. McIntyre Well number 1

<u>PRODUCING FORMATION(S)</u>	<u>DEPTHS</u>		
<u>Gordon</u>	<u>3058</u>	<u>TVD</u>	<u>3066</u> <u>MD</u>
<u>Gordon</u>	<u>3071</u>		<u>3081</u>

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	<u>0</u>		<u>0</u>		
<u>Sand</u>	<u>960</u>	<u>1147</u>	<u>960</u>	<u>1147</u>	<u>Sand</u>
<u>Sand & Shale</u>	<u>1147</u>	<u>1179</u>	<u>1147</u>	<u>1179</u>	<u>Sand & Shale</u>
<u>Red Rock</u>	<u>1179</u>	<u>1239</u>	<u>1179</u>	<u>1239</u>	<u>Red Rock</u>
<u>Sand & Shale</u>	<u>1239</u>	<u>1310</u>	<u>1239</u>	<u>1310</u>	<u>Sand & Shale</u>
<u>Red Rock & Shale</u>	<u>1310</u>	<u>1341</u>	<u>1310</u>	<u>1341</u>	<u>Red Rock & Shale</u>
<u>Shale</u>	<u>1341</u>	<u>1428</u>	<u>1341</u>	<u>1428</u>	<u>Shale</u>
<u>Red Rock & Shale</u>	<u>1428</u>	<u>1445</u>	<u>1428</u>	<u>1445</u>	<u>Red Rock & Shale</u>
<u>Shale</u>	<u>1445</u>	<u>1500</u>	<u>1445</u>	<u>1500</u>	<u>Shale</u>
<u>Shale & Red Rock</u>	<u>1500</u>	<u>1545</u>	<u>1500</u>	<u>1545</u>	<u>Shale & Red Rock</u>
<u>Shale</u>	<u>1545</u>	<u>1595</u>	<u>1545</u>	<u>1595</u>	<u>Shale</u>
<u>Sand & Shale</u>	<u>1595</u>	<u>1630</u>	<u>1595</u>	<u>1630</u>	<u>Sand & Shale</u>
<u>Salt Sand & Shale</u>	<u>1630</u>	<u>1662</u>	<u>1630</u>	<u>1662</u>	<u>Salt Sand & Shale</u>
<u>Sand & Shale</u>	<u>1662</u>	<u>1855</u>	<u>1662</u>	<u>1855</u>	<u>Sand & Shale</u>

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<u>Gordon</u>	<u>3058</u>	<u>TVD</u>	<u>3066</u> <u>MD</u>
<u>Gordon</u>	<u>3071</u>		<u>3081</u>

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	<u>0</u>		<u>0</u>		
<u>Sand</u>	<u>1855</u>	<u>1906</u>	<u>1855</u>	<u>1906</u>	<u>Sand</u>
<u>Sand & Shale</u>	<u>1906</u>	<u>2195</u>	<u>1906</u>	<u>2195</u>	<u>Sand & Shale</u>
<u>Little Lime</u>	<u>2195</u>	<u>2228</u>	<u>2195</u>	<u>2228</u>	<u>Little Lime</u>
<u>Big Lime</u>	<u>2228</u>	<u>2382</u>	<u>2228</u>	<u>2382</u>	<u>Big Lime</u>
<u>Sand & Shale</u>	<u>2382</u>	<u>2400</u>	<u>2382</u>	<u>2400</u>	<u>Sand & Shale</u>
<u>Big Injun</u>	<u>2400</u>	<u>2478</u>	<u>2400</u>	<u>2478</u>	<u>Big Injun</u>
<u>Sand & Shale</u>	<u>2478</u>	<u>2605</u>	<u>2478</u>	<u>2605</u>	<u>Sand & Shale</u>
<u>Sand</u>	<u>2605</u>	<u>2650</u>	<u>2605</u>	<u>2650</u>	<u>Sand</u>
<u>Shale</u>	<u>2650</u>	<u>2800</u>	<u>2650</u>	<u>2800</u>	<u>Shale</u>
<u>Sand</u>	<u>2800</u>	<u>2850</u>	<u>2800</u>	<u>2850</u>	<u>Sand</u>
<u>Sand & Shale</u>	<u>2850</u>	<u>3000</u>	<u>2850</u>	<u>3000</u>	<u>Sand & Shale</u>
<u>Gordon Stray</u>	<u>3000</u>	<u>3028</u>	<u>3000</u>	<u>3028</u>	<u>Gordon Stray</u>
<u>Gordon Sand</u>	<u>3028</u>	<u>3060</u>	<u>3208</u>	<u>3060</u>	<u>Gordon Sand</u>

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WR-35
Rev. 8/23/13

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Gordon	3058	TVD 3066 MD
Gordon	3071	3081

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	DEPTH IN FT NAME TVD	DEPTH IN FT TVD	DEPTH IN FT MD	DEPTH IN FT MD	
	0		0		
Sand & Shale	3060	3278	3060	3278	Sand & Shale

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Signature *Roy T McKisic* Title Completion Supervisor Date 10/03/2014

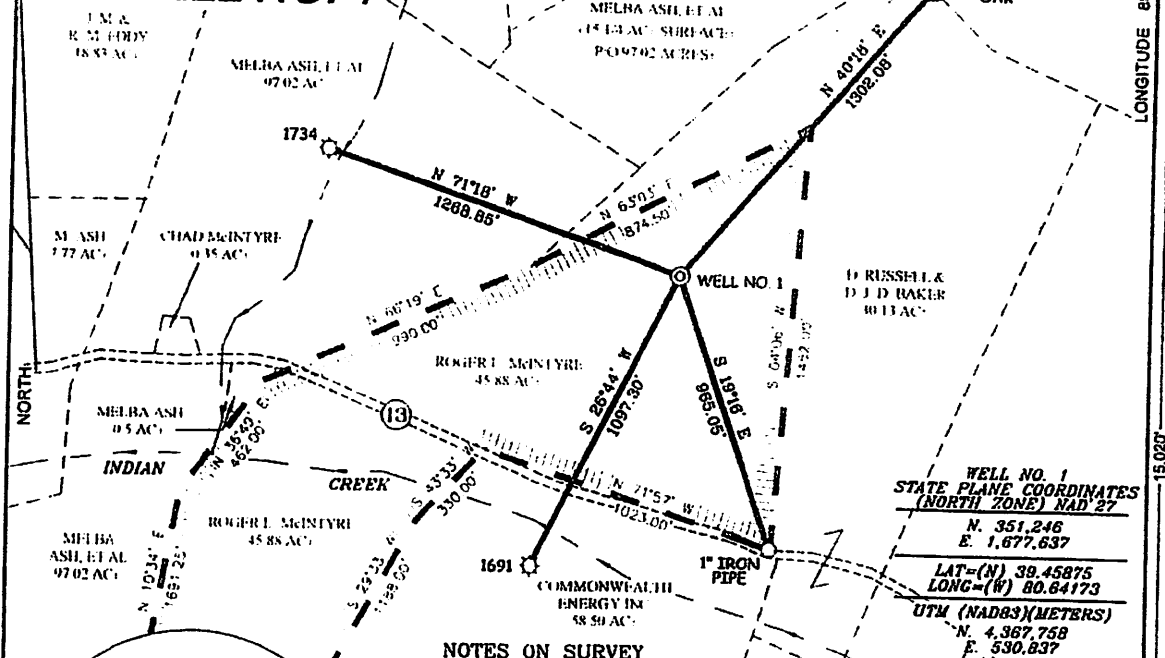
Submittal of Hydraulic Fracturing Chemical Disclosure Information Attach copy of FRACFOCUS Registry

10/31/2014

L. McINTYRE LEASE

45.88 ACRES ±

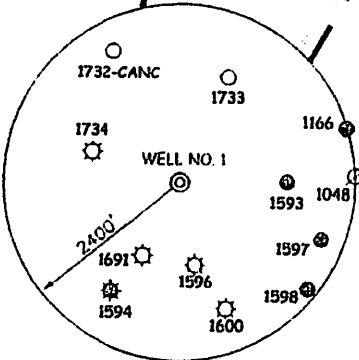
WELL NO. 1



WELL NO. 1 STATE PLANE COORDINATES (NORTH ZONE) NAD 27
 N. 351,246
 E. 1,677,637

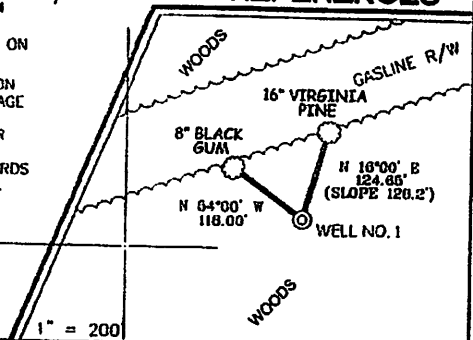
LAT=(N) 39.45875
LONG=(W) 80.64173

UTM (NAD83)(METERS)
 N. 4,367,758
 E. 530,837



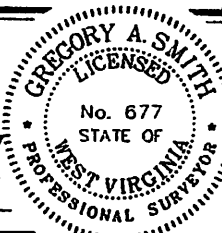
- NOTES ON SURVEY**
1. TIES TO WELLS AND CORNERS ARE BASED ON GRID NORTH FOR THE WV STATE PLANE COORDINATE SYSTEM NORTH ZONE NAD 27.
 2. TIES TO REFERENCES ARE BASED ON MAGNETIC NORTH 01/09/13.
 3. LEASE BOUNDARY SHOWN HEREON TAKEN FROM DEED BOOK 188 AT PAGE 176 AND ADJOINING DEEDS.
 4. SURFACE OWNER AND ADJOINER INFORMATION TAKEN FROM THE ASSESSOR AND COUNTY CLERK RECORDS OF TYLER COUNTY IN JULY, 2012.
 5. WELL LAT./LONG. (NAD'27) ESTABLISHED BY DGPS(SUBMETER MAPPING GRADE).

REFERENCES



I THE UNDERSIGNED, HEREBY CERTIFY THAT THIS PLAT IS CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF AND SHOWS ALL THE INFORMATION REQUIRED BY LAW AND THE REGULATIONS ISSUED AND PRESCRIBED BY THE DIVISION OF ENVIRONMENTAL PROTECTION.


P.S. 677 *Gregory A. Smith*



(*) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS.
 DATE MARCH 21, 20 13
 OPERATORS WELL NO. L. McINTYRE #1
 API WELL NO. 47 - 95 - 02192
 STATE COUNTY PERMIT

MINIMUM DEGREE OF ACCURACY 1/200 FILE NO. 7996PR1(444-59)
 PROVEN SOURCE OF ELEVATION DGPS (SUBMETER MAPPING GRADE) SCALE 1" = 600'

STATE OF WEST VIRGINIA
 DIVISION OF ENVIRONMENTAL PROTECTION
 OFFICE OF OIL AND GAS



WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL IF "GAS" PRODUCTION STORAGE DEEP SHALLOW

LOCATION: ELEVATION 1,182' WATERSHED INDIAN CREEK
 DISTRICT McELROY COUNTY TYLER QUADRANGLE CENTER POINT 7.5

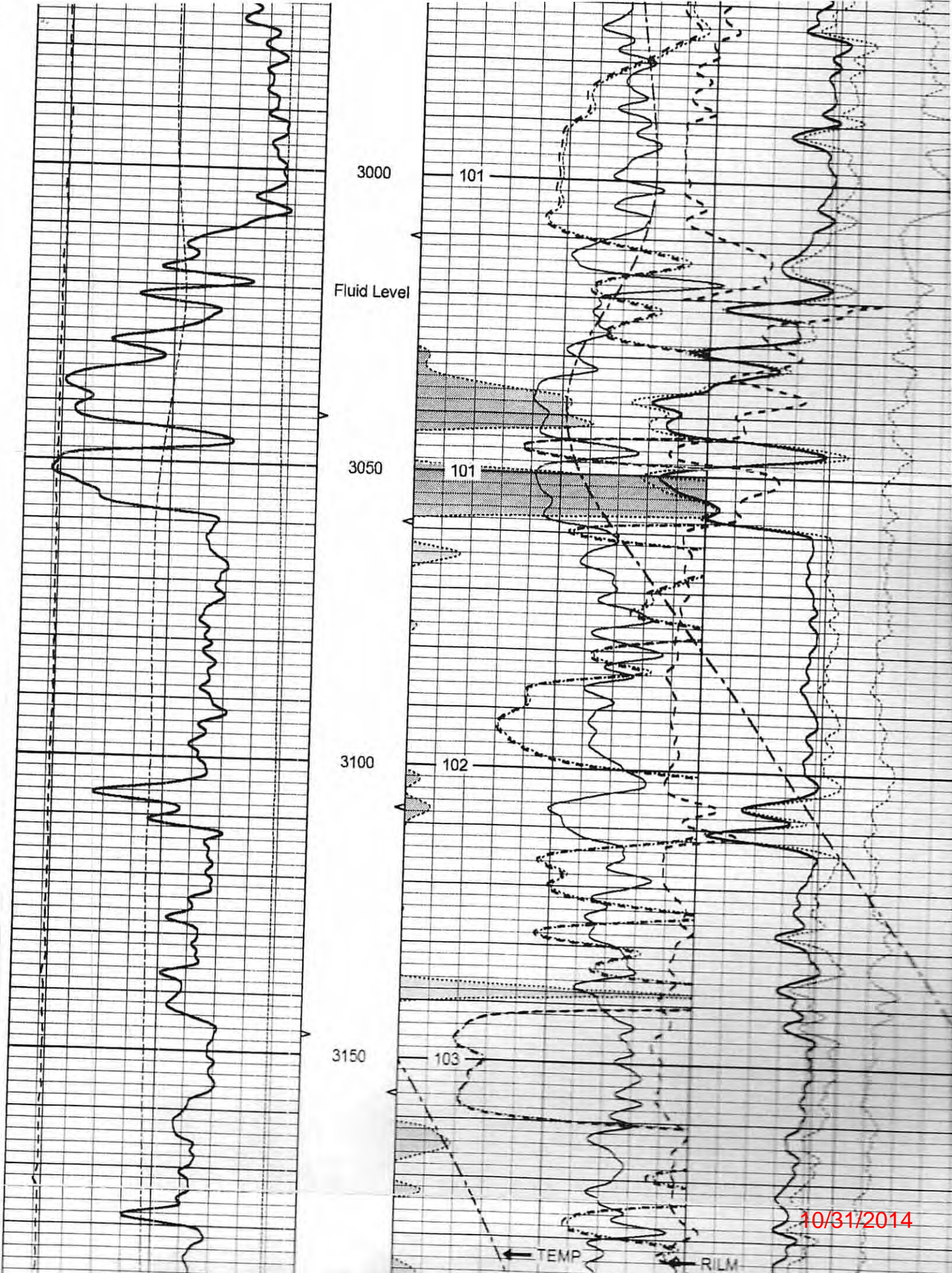
SURFACE OWNER ROGER L. McINTYRE (LESTER T. McINTYRE LIFE) ACREAGE 45.88±
 ROYALTY OWNER MARTHA KELLER, ET AL. LEASE ACREAGE 45.88±

PROPOSED WORK: LEASE NO. _____
 DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR STIMULATE PLUG OFF OLD FORMATION
 PERFORATE NEW FORMATION PLUG AND ABANDON CLEAN OUT AND REPLUG OTHER

PHYSICAL CHANGE IN WELL (SPECIFY) _____ TARGET FORMATION GORDON
 ESTIMATED DEPTH 3,250'

WELL OPERATOR COMMONWEALTH ENERGY, INC. DESIGNATED AGENT ENZO CARDELLI
 ADDRESS P.O. BOX 432 MT. MORRIS, PA 15349 ADDRESS RT. 4 BOX 771 BUCKHANNON, WV 26201

LONGITUDE 80°37'30" (top), 80°37'31.5" (bottom)



3000

101

Fluid Level

3050

101

3100

102

3150

103

← TEMP

→ RILM

10/31/2014

