

west virginia department of environmental protection

Office of Oil and Gas 601 57th Street, S.E. Charleston, WV 25304 (304) 926-0450 fax: (304) 926-0452 Jim Justice , Governor Austin Caperton , Cabinet Secretary www.dep.wv.gov

Monday, December 04, 2017 WELL WORK PERMIT Vertical / Plugging

NYTIS EXPLORATION COMPANY, LLC 2480 FORTUNE DRIVE, SUITE 300

LEXINGTON, KY 40509

Re: Permit approval for KEM 527 47-035-02048-00-00

This well work permit is evidence of permission granted to perform the specified well work at the location described on the attached pages and located on the attached plat, subject to the provisions of Chapter 22 of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder, and to any additional specific conditions and provisions outlined in the pages attached hereto. Notification shall be given by the operator to the Oil and Gas Inspector at least 24 hours prior to the construction of roads, locations, and/or pits for any permitted work. In addition, the well operator shall notify the same inspector 24 hours before any actual well work is commenced and prior to running and cementing casing. Spills or emergency discharges must be promptly reported by the operator to 1-800-642-3074 and to the Oil and Gas Inspector.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days of completion of permitted well work, as should form WR-34 Discharge Monitoring Report within 30 days of discharge of pits, if applicable. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of this permit and, in addition, may result in civil and/or criminal penalties being imposed upon the operators.

Per 35 CSR 4-5.2.g this permit will expire in two (2) years from the issue date unless permitted well work is commenced. If there are any questions, please feel free to contact me at (304) 926-0450.

James A Chief

Operator's Well Number: KEM 527 Farm Name: CRANE, JAMES C. U.S. WELL NUMBER: 47-035-02048-00-00 Vertical / Plugging Date Issued: 12/4/2017

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. Failure to adhere to the specified permit conditions may result in enforcement action.

CONDITIONS

1. All pits must be lined with a minimum of 20 mil thickness synthetic liner.

1/

- 2. In the event of an accident or explosion causing loss of life or serious personal injury in or about the well or while working on the well, the well operator or its contractor shall give notice, stating the particulars of the accident or explosion, to the oil and gas inspector and the Chief within twenty-four (24) hours.
- 3. Well work activities shall not constitute a hazard to the safety of persons.

WW-4 Rev.	B 2/01	47-035-02048P 1) Date <u>11/28</u> ,2017_ 2) Operator's Well No. <u>KEM #527</u> 3) API Well No. <u>47-035</u> 02048_P
	ENVIRONMENTAL PR	VIRGINIA DEPARTMENT OF ROTECTION OFFICE OF OIL AND GAS
	APPLICATION FOR A F	PERMIT TO PLUG AND ABANDON
4)		quid injection/ Waste disposal/ Underground storage) Deep/ Shallow <u>x</u> //
5)	Location: Elevation 908	Watershed_Grass Lick RunMa. P.
	District <u>Ripley</u>	County_Jackson Quad Ravenswood 1.5
6)	Well Operator NYTIS Exploration	7)Designate Agent Sharon Barth
	Company, LLC.,2480 Fortune	Address 707 Virginia St. East
	Drive,Suite300, Lexington Ky	Charleston, WV 25301
8)	Dil and Gas Inspector to bee notified: Jamie Stevens 105 Kentuck Rd. Kenna WV 25248 Phone 304 290 7775	9)Plugging Contractor Name <u>R&R Well Service</u>
	10) Work Order: The work order for	

manner of plugging this well is as follows: Remove all Equipment used in production

See Attached Sheet: 🛠

RECEIVED Office of Oil and Gas

DEC 4 2017

WV Department of Environmental Protection

Notification must be given to	the district oil and gas inspecto	r 24 hours before permitted
work can commence.		
Work order approved by inspec	1 bis trance	Date 11/29/2017
Work order approved by inspec	tor amus who	Date Manal
	T	/ '

Surface Owner: James Grane TRANS CANAda

KEM 527

Permit 47-035-02048

TD 4442"

Set 10 ¾ "Casing Surface 470' Cement 255ks to Surface 6470' Cement 255 ks to Surface 6470 ks to Su

Set 7" Casing 2354' Cement 600sks to Surface 💋

Set 4 ½ "Casing 4419' Cement 250 SKS 50/50 poz 💋

Procedure:

Run tubing to TD +/- 4442' Cement 9 58' +/- 4442' to 3484' over shale + Bottom 4 1/2 / Freepoint and pull 4 ½ casing at +/- 2900' on above . at Freefount Gel 3484' to 2950' ACROSS CASING GUT. 1 MM Cement +/- 2950' to 2850' Gel 2850' to 2632' . PERFS. 2mm BERRA 2579 +0 2479 TO COUEA Cement +/- 2632 to 2532 over seat of 7" casing \$ 2979' 2900' to just below 74 CASING. Gel 2532' to 2050' to bottom of Salt Sand 100' 2400' to 2300' to cover casing scat. gam Cement 393' 2050' to 1657 over Salt Sand-El. 908' Gel 1657' to 908' elevation RECEIVED Office of Oil and Gas Cement 905' to 808' over elevation 🗸 4 2017 DEC WV Department of Environmental Protection Gel 808' to 520' Cement 520' to 420' over water well depth 🖌 Gel 420' to 100' Cement 100' to surface apply for offset due to construct e Aluging Jamie Set Monument ON Reclaim road and well site

12/08/2017

35020488



IV-35 (Rev 8-81)

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Date 10	<u>/21/86</u>					
Operator's						
Well No	• <u> </u>	<u>M #52</u>	7			
Farm	•					
API No.	47 -	035	-	2048		

WELL OPERATOR'S REPORT OF

DRILLING, FRACTURING AND/OR STIMULATING, OR PHYSICAL CHANGE

WELL TYPE: Oil / Gas X / Liquid Injection / Waste Disposal / (If "Gas," Production X / Underground Storage / Deep / Shallow /)

 IOCATION:
 Elevation:
 908
 Watershed
 Grasslick Run

 District:
 Ripley
 County
 Jackson
 Quadrangle
 Kenna

COMPANY KAISER EXPLORATION AND MINING COMPANY				- <u></u>	
ADDRESS P.O. Box 8, Ravenswood, WV 26164	Casing	Used in	Teft	Cement	
DESIGNATED AGENT R. A. Pryce	Tubing	Drilling		fill up Cu. ft.	
ADDRESS Same	Size	000000	THE WETT	<u>Cu. IC.</u>	
SURFACE OWNER James Crane	20-16 Cord.				
ADDRESS Rt. 3 Box 244. Riplev. WV 25271	13-10*	470 KB	170 KB	225 skis	
MINERAL RIGHIS OWNER same	9 5/8	470 KP		<u></u>	
ADDRESS	8 5/8	1			
OIL AND GAS INSPECTOR FOR THIS WORK Jerry	7		0054 40	600 sks Class A6%	
Tephabock ADDRESS Rt. 1. Ripley, WV 25271 PERMIT ISSUED	, 5 1/2	2354_KB	2354 KB	Class A6%	
DRILLING COMMENCED 09/17/86	4 1/2	4419 KB	4419 KB	50/50 pozr	
DRILLING COMPLETED 09/22/86	3			· · ·	
IF APPLICABLE: PLUGGING OF DRY HOLE ON	. 2				
CONTINUOUS PROGRESSION FROM DRILLING OR	Liners				
REWORKING. VERBAL PERMISSION OBTAINED ON	used				
	L	·			
GEOLOGICAL TARGET FORMATION Devonian Brown Shal	е	Dept	h 3534 - 4	<u>4382</u> feet	
Depth of completed well 4442 feet R	otary <u>X</u>	/ Cable	Tools		
Water strata depth: Freshfeet;	Salt	feet			
Coal seam depths:	Is coal	being mine	d in the	area? No	
OPEN FLOW DATA					
Producing formation <u>Devonian Brown Shale</u>	Pay	zone dept	h _3534 -	4382 feet	
Gas: Initial open flow Mcf/d	Dil: Ini	tial open	flow	Bbl/d	
Final open flow *660 Mcf/d					
Time of open flow between initia					
Static rock pressure 950psig(surface	measurem	ent) after	72 hour	s shut in	
(If applicable due to multiple completion-			12/08	3/2017	
Second producing formation_Berea Sandstone		zone dept	h 2575 _	2579 feet	
Gas: Initial open flowMcf/d (Dil: Ini	tial open	flow	Bb1/d	
Final open flow *660 Mcf/d (Dil: Fin	al open fl	 cw	Bbl/d	
Time of open flow between initia					
Static rock pressure 950 psig (surface n	neasureme	nt) after	<u>72</u> hour	s shut in	
* Open flows are commingled. (Continue on reverse side)					

47-035-02048P.r

DEC

4 2017

FORM IV-35 (REVERSE)

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC.

09/25/86 Young's perf lower Brown Shale from 4190 to 4382 with 20 holes.

09/26/86 Halliburton 75 Quality foam frac lower Shale with 60,000 # 20/40 sand. 649 MSCF of N₂; 267 bbls of total fluid; ISIP: 1850 psig. Young's perf upper Brown Shale from 3534-4060 with 20 holes. Halliburton 75 Quality foam frac upper shale with 60,000# 20/40 sand.

^{10/10/86} Young's perf Berea from 2575 - 2579 with 16 holes. Halliburton Cross-link Berea with 45,000# 20/40 sand; 185 MSCF of N 484 bbls of fluid; ISIP: 1600 psig. Office of Oil and Gas

	•	1	
	W	ELL LOG	WV Department of Environmental Protection
FORMATION COLOR HARD OR SOFT	TOP FEET	BOTTOM FEET	<u>REMARKS</u> Including indication of all f: and salt water, coal, oil and
Siltstone & Shale Sand Shale Sand Siltstone & Shale Dunkard Sands Shale Salt Sands Big Lime (Greenbrier) Big Injun Sand Shale Coffee Shale (Sunbury) Berea Sand Shale Total Depth	0 250 270 312 357 698 752 1205 1608 1757 2000 2080 2195 2550 2572 2582 4390 4452	250 270 312 357 698 752 1205 1608 1757 2000 2080 2195 2550 2572 2582 3816 4452	\$/g \$/g @ 4195',4250',4316'

(Attach separate sheets as necessary)

KAISER EXPLORATION AND MININ	G_COMPANY
Well Operator	12/08/2017
By: Z.A.Py-	
Date:0ctober 21, 1986	

•	Regulation 2.02(i) provides as follows: "The term 'log' or 'well log' shall mean a systematic detailed geological record of all formations, including that, encountered in the drilling of a well."
	of a well, "

	multing		47-035,002	048 P
	REFERENCE POINTS:	LATITUDE 3		TA
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	En line line	AEEK	4	
	M.E. SMITH			
	EL U. J. CRANE IS. 14 AN.			
-	7 10.2 Ac.		RECEIVED Office of Oil and Gas	-
			Office of Unit	
	RUN	<i>S</i> ²	DEC 4 2011	
	ARMENTROUT	\	WV Department of Environmental Protecti	on
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	(+) DENOTES LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS			_
	FILE NO. 8-28 I THE UNDERSIGNED, HEREBY CE		- NT R	
	DRAWING NO THIS PLAT IS CORRECT TO THE BI		15 person	00
	MINIMUM DEGREE OF INFORMATION REQUIRED BY LAW AND		1 1 0 424 STATE OF	1
	ACCURACY /: 200 LATIONS ISSUED AND PRESCRIBED BY T PROVEN SOURCE OF MENT OF MINES.	THE DEPART-		1.
	ELEVATION MIGH POINT ELEV. 911 (SIGNED) Vincent 2. 2000	1	742	5
	80'S.E. OF LOCATION R.P.E. L.L.S.	664	PLACE SEAL HER	Ē
	STATE OF WEST VIRGINIA	MARCH 2	6	
	DEPARTMENT OF MINES	ATOR'S WELL NO	<u>KEM 527</u>	
	OIL AND GAS DIVISION	ELL NO.	2040 D	
	WELL TYPE: OILGAS_X_LIQUID INJECTIONWASTE DISPOSALSTA	TE COUNTY	_ <u>2048</u> PERMIT	. 1
	(IF "GAS,") PRODUCTION X_STORAGEDEEPSHALLOW X_ LOCATION: ELEVATION 908 WATER SHED GRASSLICK RJ	M		8
(6	DISTRICT RIPLEY COUNTY JA			COUNTY
FORM IV-6 (8-78)	QUADRANGLE <u>KENNA</u> SURFACE OWNER <u>JAMES</u> CAMDEN CRAKE	ACREACE	2 \$2/08/201	
1/-6	OIL & GAS ROYALTY OWNER _J. C. CRAAE, ET. ALLEASE ACREAGE	6 8. 955 A		AME
ORM	LEASE NO. 86-03-3377	E OP]
ŭ	PROPOSED WORK: DRILL <u>&</u> CONVERTDRILL DEEPERREDRILLFRACTUR STIMULATE_ <u>X</u> PLUG OFF OLD FORMATIONPERFORATE N	EW		-
	FORMATIONOTHER PHYSICAL CHANGE IN WELL (SPECIFY)	Appendix and participation of the Abbra and the Abbra a		PERMIT
ALL	PLUG AND ABANDONCLEAN OUT AND REPLUG	an a	alian and a state of the state	VIT
H.T. HALL	TARGET FORMATION DEVONIAN BROWN SHALE ESTIMATED DEPTH 4443	0 A 00		
-	WELL OPERATOR KAISER EXPLORATION & MINING CO. DESIGNATED AGENT ADDRESS P.O. BOX & RAVENS WOOD, W.V. 26/64 ADDRESS P.O. BOX &	R. M. PRYCE B RAVEASWOO	P. W. V. 26164	
-				

5 02048 P

WW-4A	
Revised	6-07

1) Date: 11/28/17

2) Operator's Well Number

KEM #527

3) API Well No.: 47 -

2048

035

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE OF APPLICATION TO PLUG AND ABANDON A WELL

4)		wner(s) to be served: Travs - Carada		oal Operator None	and
	Address	Address 1700	Marcon	He que,	Southeest 0445,25214
	(b) Name			(b) Coal Owned	er(s) with Declaration
	Address			Name	
				Address	
	(c) Name				
	Address			Address	
01					
	nspector	JAMIE STEVENS		•	e with Declaration
	Address	105 Kentuck Rd.		Name	
		Kenna WV 25248		Address	
	Telephone	304 206 7775			

TO THE PERSONS NAMED ABOVE: You should have received this Form and the following documents:

- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; andu im.µ
- The plat (surveyor's map) showing the well location on Form WW-6. (2)

The reason you received these documents is that you have rights regarding the application which are summarized in the instructions on the reverses side. However, you are not required to take any action at all.

Take notice that under Chapter 22-6 of the West Virginia Code, the undersigned well operator proposes to file or has filed this Notice and Application and accompanying documents for a permit to plug and abandon a well with the Chief of the Office of Oil and Gas, West Virginia Department of Environmental Protection, with respect to the well at the location described on the attached Application and depicted on the attached Form WW-6. Copies of this Notice, the Application, and the plat have been mailed by registered or certified mail or delivered by hand to the person(s) named above (or by publication in certain circumstances) on or before the day of mailing or delivery to the Chief.

	Well Operator By:	NYTIS Exploration Comp. Randall Sheets	any, LLC	Office of Olivard G DEC 4 2017
	Its:	Supervisor		<u></u>
	Address	POBox 8, Ravenswood W	V 26164	W Departi Protection
	Telephone	304 273 5371	15	FUALO
Subscribed and sworn before me th	is_ <u>47</u> 2 d		Notary Public P	OFFICIAL SEAL NOTARY PUBLIC
My Commission Expires $le (1)$	118 Jerm	3. Toph lah		JERRY M. TEPHABOCK
Oil and Gas Privacy Notice	0 7	/ gutorr	A state state of the My	RT. 1, BOX 101A RIPLEY, WV 25271 commission expires June 11, 2018
The Office of Oil and Gas processes you	r personal inform	ation, such as name, address a		

regulatory duties. Your personal information may be disclosed to other State agencies or third parties in the normal course of business or as needed to comply with statutory or regulatory requirements, including Freedom of Information Act requests. Our office will appropriately secure your personal information. If you have any questions about our use of your personal information, please contac DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

Operator's Well Number

47-035-02048 📍

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW4-A

The well operator named on page WW-4A is applying for a permit from the State to plug and abandon a well. (<u>Note:</u> If the surface tract is owned by more than three persons, then these materials were served on you because your name appeared on the Sheriff's tax ticket on the land or because you actually occupy the surface tract. In either case, you may be the only owner who will actually receive these materials.) See Chapter 22 of the West Virginia Code. Well work permits are valid for 24 months. If you do not own any interest in the surface tract, please forward these materials to the true owner immediately if you know who it is. Also, please notify the well operator and the Office of Oil and Gas.

NOTE: YOU ARE NOT REQUIRED TO FILE ANY COMMENT. WHERE TO FILE COMMENTS AND OBTAIN ADDITIONAL INFORMATION:

Chief, Office of Oil and Gas Department of Environmental Protection 601 57th St. SE Charleston, WV 25304 (304) 926-0450

<u>Time Limits and methods for filing comments.</u> The law requires these materials to be served on or before the date the operator files his Application. You have **FIVE (5) DAYS** after the filing date to file your comments. Comments must be filed in person or received in the mail by the Chief's office by the time stated above. You may call the Chief's office to be sure of the date. Check with your postmaster to ensure adequate delivery time or to arrange special expedited handling. If you have been contacted by the well operator and you have signed a "voluntary statement of no objection" to the planned work described in these materials, then the permit may be issued at any time.

<u>Comments must be in writing.</u> Your comments must include your name, address and telephone number, the well operator's name and well number and the approximate location of the proposed well site including district and county from the application. You may add other documents, such as sketches, maps or photographs to support your comments.

The Chief has the power to deny or condition a well work permit based on comments on the following grounds:

- 1) The proposed well work will constitute a hazard to the safety of persons.
- 2) The soil erosion and sediment control plan is not adequate or effective;
- 3) Damage would occur to publicly owned lands or resources;
- 4) The proposed well work fails to protect fresh water sources or supplies;
- 5) The applicant has committed a substantial violation of a previous permit or a substantial violation of one or more of the rules promulgated under Chapter 22, and has failed to abate or seek review of the violation...".

If you want a copy of the permit as it is issued or a copy of the order denying the permit, you should request a copy from the Chief.

VOLUNTARY STATEMENT OF NO OBJECTION

I hereby state that I have read the instructions to surface owners and that I have received copies of a Notice and Application For A Permit To Plug And Abandon on Forms WW-4A and WW-4B, and a survey plat.

I further state that I have no objection to the planned work described in these materials, and I have no objection to a permit being issued on those materials.

FOR EXECUTION BY A NATURAL PERSON ETC.

FOR EXECUTION	N BY A	CORPORATION,
AD D		

Signature

Date _

Anth

Name

By

Its

thony Capp

Huy Ap

Land Project Manager, TransCanada Date 12/1/17

12/08/201

Date

Signature

3502048P **WW-9** Page _ of API Number 47 - 035 - 02048 (5/13)Operator's Well No. Kem #527 STATE OF WEST VIRGINIA DEPARTMENT OF **ENVIRONMENTAL PROTECTION OFFICE OF OIL** AND GAS FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN RECEIVED Office of Oil and Gas Operator Name<u>NYTIS Exploration</u>, Co,LLC OP Code 494473563_ DEC - 4 2017 1 Watershed Grass Lick Run Quadrangle Kenna Elevation 908 County Jackson District Ripley Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes- NO NO WILL USE STEEL TANKS. gum Will a pit be used for drill cuttings? Yes If so, please describe anticipated pit waste: Water, Gel Will a synthetic liner be used in the pit? Yes _____ No _____ If so, what ml.?__ Land Application Underground Injection (UIC Permit Number Reuse (at API Number Proposed Disposal Method For Treated Pit Wastes: Reuse (at API Number_____ Off Site Disposal (Supply form WW-9 for disposal location) OHIO Dispose Other (Explain Will closed loop system be used? Drilling medium anticipated for this well? Air, freshwater, oil based, etc. NO Rolum Cyperter -If oil based, what type? Synthetic, petroleum, etc. Additives to be used in drilling medium? _____ Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. -If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) -Landfill or offsite name/permit number? I certify that I understand and agree to the terms and conditions of the GENERAL WATER POLLUTION PERMIT issued on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environmental Protection. I understand that the provisions of the permit are enforceable by law. Violations of any term or condition of the general permit and/or other applicable law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familiar with the information submitted on this application form and all attachments thereto and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine or imprisonment. Company Official Signature_____O(andrell,] Company Official (Typed Name) Randall Sheets Company Official Title Supervisor 20

474 day of Dec. 2017 Subscribed and sworn before me this

My commission expires 6/11/18



Form	WW-9
ronn	VV VV -9

Operator's Well #kem 527

	Jack2048
Proposed Revegetation Treatment: Acres Disturbed 1.0	Prevegetation pH 6.0
Lime Acre or to correct to 2Ton	o pH 6,5
Fertilizer (10-20-20 or equivalent)lbs/ 500lbs	acre (500 lbs minimum)
MulchTons/a	
Seed	d Mixtures
Area I Seed Type Ibs/acre	Area II Seed Type lbs/acre
Fescue 40	
Alsike 5	
Annual Rye 16	Same
Plan Approved by:	tevens
	truction allover location
With a new Bood for fige	chine construction;
Title: Unspector	Date: 11/29/2017
Field Reviewed? (Yes (_) No RECEIVED Gas
	Office O. DEC 4 2017 Environment of Environment O8/20
	WYTZAO8/20 Environizao8/20



WW-7 8-30-06
West Virginia Department of Environmental Protection
Office of Oil and Gas
WELL LOCATION FORM: GPS
API: 4703502048 WELL NO .: Kem #527
FARM NAME: Cpene
RESPONSIBLE PARTY NAME: Nytis Exploration Co., LLC,
COUNTY: DISTRICT: Ripley
QUADRANGLE:
SURFACE OWNER: TREWS CANADA
ROYALTY OWNER: TRANS CANADA
UTM GPS NORTHING: 4287938
UTM GPS EASTING: 441429 GPS ELEVATION: 908
 The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements: Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) – meters. Accuracy to Datum – 3.05 meters Data Collection Method: Survey grade GPS: Post Processed Differential
Real-Time Differential
Mapping Grade GPS: Post Processed Differential
Real-Time Differential
4. Letter size copy of the topography map showing the well location. I the undersigned, hereby certify this data 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 Office of Oil and Gas. <u>Mandall Mathematical Supervisor</u> $\frac{12/4/17}{Date}$ Signature Title Date

12/08/2017