



west virginia department of environmental protection

Office of Oil and Gas
601 57th Street SE
Charleston, WV 25304
(304) 926-0450
(304) 926-0452 fax

Earl Ray Tomblin, Governor
Randy C. Huffman, Cabinet Secretary
www.dep.wv.gov

November 12, 2015

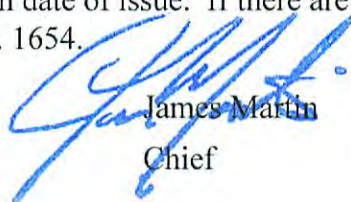
WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-10301670, issued to PERKINS OIL & GAS INC, 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 all 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.

Upon completion of the plugging well work, the above named operator will reclaim the site according to the provisions of WV Code 22-6-30. The above named operator will also file, as required in WV Code 22-6-23, an affidavit on form WR-38 by two experienced persons in the operator's employment and the Oil and Gas inspector that the work authorized under this permit was performed and a description given. Failure to abide by all statutory and regulatory provisions governing all duties and operations here under may result in suspensions or revocation of this permit and in addition may result in civil and/or criminal penalties being imposed upon the operator.

This permit will expire in two (2) years from date of issue. If there are any questions, please free to contact me at (304) 926-0499 ext. 1654.



James Martin
Chief

Operator's Well No: 0
Farm Name: KERNAN, WILLIAM
API Well Number: 47-10301670
Permit Type: Plugging
Date Issued: 11/12/2015

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.
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.
4. This well is under a consent order and must be plugged under the terms of that agreement.

CK# 14302
\$100.00

1) Date September 5, 2015
2) Operator's
Well No. William Kernan #1
3) API Well No. 47-103 - 1670N

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

APPLICATION FOR A PERMIT TO PLUG AND ABANDON

4) Well Type: Oil ___ / Gas X / Liquid injection ___ / Waste disposal ___ /
(If "Gas, Production ___ or Underground storage ___) Deep ___ / Shallow X

5) Location: Elevation 1095 ft Watershed Crows Run
District Green County Wetzel Quadrangle Pine Grove

6) Well Operator Perkins Oil and Gas, Inc 7) Designated Agent Clint Perkins
Address P.O. Box 547 Address Same
Pennsboro, WV 26415

8) Oil and Gas Inspector to be notified 9) Plugging Contractor
Name Derrick Haught Name Perkins Oil and Gas, Inc
Address 304-206-7613 Address same
(304) 659-2136

10) Work Order: The work order for the manner of plugging this well is as follows:
SPOT 4% GEL.
Pull 3" csg, IF CASING WON'T PULL, FREE POINT & CUT 1/2 TRIP CASING OUT OF HOLE. SET 100' CLASS A CEMENT PLUG ACROSS CASING CUT.
Set 100ft Class A cmt plug at Gordon sand 2840' to 2740'. Gel to 2660'
Set 100ft Class A cmt plug at 50ft sand 2660' to 2560'. Gel to 2035'
Pull 6 5/8" csg. If csg cut set 100' Class A plug across bottom csg and 100' class A at cut.
Set 100 ft Class A cmt plug at Big Lime/Injun sand 2035' to 1935'. Gel to 1750'
Set 100 ft Class A cmt plug at Maxon Sand 1750' to 1650'. Gel to ~~800'~~ ^{800'}
Set 100ft class A cmt plug at 1150' to 1050'.
Set 100 ft Class A cmt plug at Pittsburg coal 730' to 630'. Gel to 410'
SET CLASS A CMT. PLUG FROM 420' - 270'. GEL TO 100'.
Set 100 ft Class A cmt plug at top of hole 100' to 0' Erect proper monument

DH
10-14-15

RECEIVED
Office of Oil and Gas

NOV 04 2015

Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.

WV Department of
Environmental Protection

Work order approved by inspector [Signature] Date 10-14-15

11/13/2015

10301670R

35

Pulled from Microfiche 11/05/15

RECEIVED
WV Division of
Environmental Protection

18-Apr-95
API # 47-103-01670 N

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas

SEP 18 1997

Well Operator's Report of Well Work

Farm name: PERKINS GREEN, JOSEPH (KERNAN) Operator Well No.: 1-2285

LOCATION: Elevation: 1021.00 Quadrangle: PINE GROVE

District: GREEN County: WETZEL
Latitude: _____ Feet South of _____ Deg. Min. Sec.
Longitude: _____ Feet West of _____ Deg. Min. Sec.

Company: PERKINS OIL & GAS, INC.
P. O. BOX 547
PENNSBORO, WV 26415-0547

Agent: DERYL L. PERKINS

Inspector: RANDAL MICK
Permit Issued: 04/18/95
Well work Commenced: Aug 29, 1918
Well work Completed: Oct 29, 1918
Verbal Plugging _____
Permission granted on: _____
Rotary Cable _____ Rig _____
Total Depth (feet) 2953'
Fresh water depths (ft) _____

Casing & Tubing	Used in Drilling	Left in Well	Cement Fill Up Cu. Ft.
8"	1228'	1228'	
7"	2255'	2255'	
3"	2953'	2953'	

RECEIVED
WV Division of
Environmental Protection
SEP 18 1997

Salt water depths (ft) _____
Is coal being mined in area (Y/N)? N
Coal Depths (ft): 730-733
780-778'

OPEN FLOW DATA
645 - 692'
400 - 398'

Permitting
Office of Oil & Gas

Producing formation Gordon Pay zone depth (ft) _____
Gas: Initial open flow N/A MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours
Second producing formation _____ Pay zone depth (ft) _____
Gas: Initial open flow _____ MCF/d Oil: Initial open flow _____ Bbl/d
Final open flow _____ MCF/d Final open flow _____ Bbl/d
Time of open flow between initial and final tests _____ Hours
Static rock Pressure _____ psig (surface pressure) after _____ Hours

NOTE: ON BACK OF THIS FORM PUT THE FOLLOWING: 1). DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANGE, ETC. 2). THE WELL LOG WHICH IS A SYSTEMATIC DETAILED GEOLOGICAL RECORD OF ALL PERFORATIONS, INCLUDING COAL ENCOUNTERED BY THE WELLBORE.

Office of Oil and Gas

RECEIVED
Office of Oil and Gas

NOV 05 2015

For: PERKINS OIL & GAS, INC.

By: Deryl L. Perkins
Date: Sept 10, 1997

NOV 05 1997

WV Department of
Environmental Protection
1929

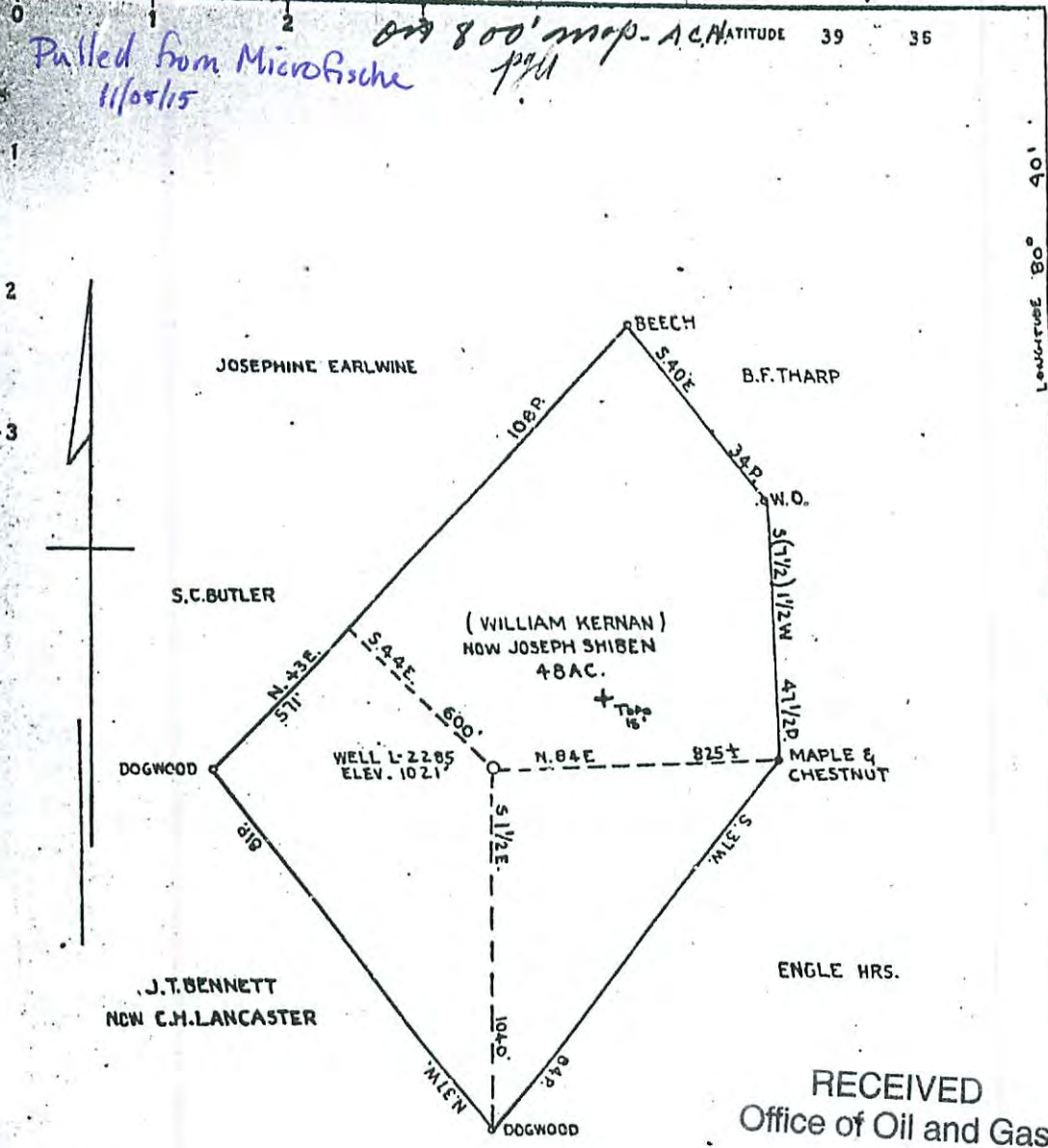
WV Department of
Environmental Protection

11/13/2015

N5W6

in wall map

N-57



Pulled from Microfiche 11/05/15

800' map - A.C.H. ALTITUDE 39 35

20497

RECEIVED
Office of Oil and Gas
NOV 05 2015

WV Department of
Environmental Protection

OWNED BY C.H. LANCASTER, REEDER W.V.A.

- WELL LOCATION
- WELL DEEPER
- WELL ABANDONMENT

COMPANY THE MANUFACTURERS LIGHT AND HEAT CO.
 ADDRESS 800 UNION TRUST BLD'G PITTSBURGH PA.
 NAME WILLIAM KERNAN NOW JOSEPH SHIBLEN
 ACREAGE 4.8 ACRES LEASE NO. 5151
 WELL (FARM) NO. 1 SERIAL NO. 2285
 ELEVATION (SPIRIT LEVEL) 1021'
 QUADRANGLE LITTLETON / Pine Grove 7.5
 COUNTY WETZEL DIST. GREEN
 ENGINEER J. Kernan
 ENGINEER'S REGISTRATION NO.
 FILE NO. DRAWING NO. Y-11-93
 DATE NOVEMBER 20-44 SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. WET-488-A (Copy)
 103-1670-N

THIS IS A LOCATION OF WELL IN UNITED STATES TOPOG.
 GRAPHIC MAPS. SCALE 1" TO 400'. LATITUDE AND LONGITUDE
 LINES BEING REPRESENTED BY BORDER LINES AS SHOWN

NOTES ONE INCH SPACES ON BORDER LINES REPRESENT ONE MILE

10301670P

000216

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

WELL REGISTER ASSIGNMENT

This API Number 47-103-01670, issued to PERKINS OIL & GAS, INC. is evidence of permission to operate the well that is referenced at the location described on the attached plat, subject to the provisions of Chapters 22 and 22B of the West Virginia Code of 1931, as amended, and all rules and regulations promulgated thereunder. The name and telephone number of the Oil and Gas Inspector for this well is RANDAL MICK 304-986-3324.

Spills or emergency discharges must be reported to 1-800-654-3312. Failure to abide by all statutory and regulatory provisions governing all duties and operations hereunder may result in suspension or revocation of your permits and in addition may result in civil and/or criminal penalties.

The enclosed WR-35 must be completed by you and returned to this office. In addition annual production reports must be submitted on this well and failure to do so may require you to plug the well.

Theodore M. Streit
Chief

By: T.M. Streit

Title: _____

Operator's Well No: 1-2285

Farm Name: SHIBEN, JOSEPH

API Well Number : 47-103-01670 N

Date Issued : 04/18/95

11/13/2015

000212

WR-34
Page 1 of 3

State of West Virginia
Division of Environmental Protection
Section of Oil and Gas
Discharge Monitoring Report
Oil and Gas General Permit

RECEIVED
WV Division of
Environmental Protection
SEP 18 1997
Permitting
Office of Oil & Gas
GREEN

Company Name: PERKINS OIL & GAS, INC.
API 47-103-01670 N County: WETZEL
Farm Name: WILLIAM KERNAN Well NO: KERNAN #1 District: GREEN

Discharge Dates/s From: (MMDDYY) Pre-1929 TO: (MMDDYY) Pre-1929
Discharge Times : From Pre-1929 TO Pre-1929

Disposal Option Utilized: UIC (2): Permit No. _____
Centralized Facility (5): Permit No. _____
Reuse (4): Alternate Permit Number: _____
Offsite Disposal(3): Site Location: _____
Land Application(1): (Include a topographical map of the Area.)
Other method(6): (Include an explanation)

Follow Instructions below to determine your treatment category.

- Optional Pretreatment test: _____ Cl- mg/l _____ DO Mg/l _____
1. Do you have permission to use expedited treatment from the Director or his representative? (Y/N) If yes not go to line 2, and place a four (4) on line 7. If no go to line 2
 2. Was Frac Fluid or flowback put into the pit? (Y/N) If yes go to line 5 if not go to line 3
 3. Do you have a chloride value pretreatment (see above)? (Y/N) If yes go to line 4 if not go to line 5
 4. Is that chloride level less than 5000 mg/l? (Y/N) If yes then enter a one (1) on line 7
 5. Do you have a pretreatment value for DO? (See above) (Y/N) If yes then go to line 6 if not enter a three (3) in line 7.
 6. Is that DO greater than 2.5 mg/l? (Y/N) If yes then enter a two (2) on line 7 If not enter a three (3) on line 7.
 7. _____ is the category of your pit. Use the Appropriate section.

Name of Principle Exec. Officer Deryl L. Perkins
Title of Officer V. Pres
Date Completed: Sept. 10, 1997

I certify under penalty of law that I have personally examined and am familiar with the information submitted on this document and all the attachments 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 and imprisonment.

Signature of a Principle Exec. Officer or Authorized agent
Deryl L. Perkins
Signature

000213

2/3

24-Apr-96

Category 1
Sampling Results
API NO 47- 103-01670 N

Parameter	Predischarge		Discharge		Units
	Limit	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	5	_____	N/A	_____	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	.5	_____	.5	_____	mg/l
Oil	5000	_____	5000	_____	mg/l
TOC	Trace	_____	Trace	_____	mg/l
Oil and Grease		_____	Trace	_____	mg/l
Al***		_____	Monitor	_____	Obs.
TSS		_____	Monitor	_____	mg/l
Mn		_____	Monitor	_____	mg/l
Volume	Monitor	_____	Monitor	_____	mg/l
Flow		_____	Monitor	_____	mg/l
Disposal Area		_____	Monitor	_____	Gals.
		_____	Monitor	_____	Gals.
		_____	Monitor	_____	Acres

*** Al is only reported if the pH is above 9.0

Category 2
Sampling Results
API NO 47- 103-01670 N

Parameter	Limit	Predischarge Reported	Limits	Discharge Reported	Units
Settling Time	10	_____	N/A	_____	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	.5	_____	.5	_____	mg/l
Oil	12,500	_____	12500	_____	mg/l
TOC**	Trace	_____	Trace	_____	mg/l
Oil and Grease		_____	Trace	_____	mg/l
Al***		_____	Monitor	_____	Obs.
TSS		_____	Monitor	_____	mg/l
Mn		_____	Monitor	_____	mg/l
Volume	Monitor	_____	Monitor	_____	mg/l
Flow		_____	Monitor	_____	mg/l
Disposal Area		_____	Monitor	_____	Gals.
		_____	Monitor	_____	Gals.
		_____	Monitor	_____	Acres

* Can Be 25,000 with inspectors approval,
(Inspector): _____ Date: _____
** Include a description of your aeration technique.
*** Al is only reported if the pH is above 9.0

000211

3 of 3

24-Apr-96

Category 3
Sampling Results
API NO 47- 103-01670 N

Parameter	Predischarge		Discharge		Units
	Limit	Reported	Limits	Reported	
pH	6-10	_____	6-10	_____	S.U
Settling Time	20	_____	N/A	N/A	Days
Fe	6	_____	6	_____	mg/l
D.O.	2.5	_____	2.5	_____	mg/l
Settleable Sol.	.5	_____	.5	_____	mg/l
Cl*	12,500	_____	12,500	_____	mg/l
Oil	Trace	_____	Trace	_____	mg/l
TOC**	_____	_____	Trace	_____	mg/l
Al***	_____	_____	Monitor	_____	Obs.
TSS	_____	_____	Monitor	_____	mg/l
Mn	_____	_____	Monitor	_____	mg/l
Volume	_____	_____	Monitor	_____	mg/l
Flow	Monitor	_____	Monitor	_____	mg/l
Grease and Oil	_____	_____	Monitor	_____	Gals.
Disposal Area	_____	_____	Monitor	_____	Gals.
			Monitor	_____	mg/l
			Monitor	_____	Acres

* Can Be 25,000 with inspectors approval, (Inspector) _____ Date: _____
 ** Include a description of your aeration technique.
 *** Al is only reported if the pH is above 9.0

Category 4
Sampling Results
API NO 47- 103-01670 N

Parameter	Limit	Predischarge		Limits	Discharge	Units
		Reported	Reported			
pH	6-10	_____	_____	6-10	_____	S.U
Settling Time	1	_____	_____	N/A	N/A	Days
Fe	Monitor	_____	_____	Monitor	_____	mg/l
D.O.	Monitor	_____	_____	Monitor	_____	mg/l
Settleable Sol.	Monitor	_____	_____	Monitor	_____	mg/l
Cl*	12,500	_____	_____	12,500	_____	mg/l
Oil	Trace	_____	_____	Trace	_____	mg/l
TOC	_____	_____	_____	Trace	_____	mg/l
TSS	_____	_____	_____	Monitor	_____	Obs.
Oil and Grease	_____	_____	_____	Monitor	_____	mg/l
Mn	_____	_____	_____	Monitor	_____	mg/l
Volume	Monitor	_____	_____	Monitor	_____	mg/l
Flow	_____	_____	_____	Monitor	_____	mg/l
Activated Carbon	.175	_____	_____	Monitor	_____	mg/l
Date Site Reclaimed	N/A	_____	_____	Monitor	_____	Gals.
Disposal Area	_____	_____	N/A	Monitor	_____	Gals.
				Monitor	10 Days from Dis.	lb./bl
				Monitor	_____	Acres

* Can Be 25,000 with inspectors approval, (Inspector) _____ Date: _____

000215

IR-26-N
OBVERSE

INSPECTOR'S WELL INSPECTION SUMMARY FORM

WELL TYPE Gas
ELEVATION: 1,021.00

API# 47-103-01670 N DIVISION OF OIL AND GAS
OPERATOR: PERKINS OIL & GAS, INC.
TELEPHONE: (304)684-9584
FARM: SHIBEN, JOSEPH Environmental Protection
WELL NO.: 1-2285

DISTRICT: GREEN
QUADRANGLE: PINE GROVE
COUNTY: WETZEL

SURFACE OWNER Shiben

COMMENTS (Y/N) _____ TELEPHONE _____

TARGET FORMATION _____
DATE PERMIT ISSUED: 04/18/95

DATE APPLICATION RECEIVED 04/03/95

DATE VISITED 8/25/97

Inspector report

Well not producing.
Well site has junk out it
Well has No TD. Tag.

off Lyman camp Run approx 1 1/2 miles or left
Well to be evaluated by Mike Kamp.

Spencer Mick
INSPECTOR'S SIGNATURE

-----RECORD ALL VISITS TO THIS WELL ON BACK-----

Provided BY 0026

10301670 P



STATE OF WEST VIRGINIA
DEPARTMENT OF MINES
OIL AND GAS DIVISION

103-1670

WELL RECORD

Permit No. Drilled in 1918

Oil or Gas Well Gas
(KIND)

Company The Manufacturers Light & Heat Company
 Address 800 Union Trust Bldg., Pittsburgh, Pa.
 Farm William Kernan (now Shiban) Acres... 48
 Location (waters).....
 Well No. 1 - 2285 Elev. 1021 ft.
 District Green County Wetzel
 The surface of tract is owned in fee by Joseph Shiban
 Address New Martinsville, W.Va.
 Mineral rights are owned by The M L & H Co.
 Address Pittsburgh, Pa.
 Drilling commenced 8/29/18
 Drilling completed 10/29/18
 Date Shot From To
 With
 Open Flow /10ths Water in Inch
 /10ths Merc. in Inch
 Volume Cu. Ft.
 Rock Pressure lbs hrs.
 Oil bbls, 1st 24 hrs.
 Fresh water feet feet
 Salt water feet feet

Casing and Tubing	Used in Drilling	Left in Well	Packers
Size			Kind of Packer
10			
13			
10	213'	213'	Size of
8 1/4	1228' 9"	-	Depth set
6 3/4	2255' 5"	-	
5 3/16			Perf. top
3			Perf. bottom
2			Perf. top
Liners Used			Perf. bottom

CASING CEMENTED SIZE No. Ft. Date

COAL WAS ENCOUNTERED AT 300 FEET 48 INCHES
 400 FEET 24 INCHES 695 FEET 36 INCHES
 730 FEET 36 INCHES 780 FEET 24 INCHES

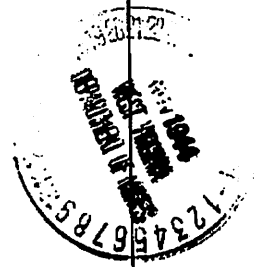
Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
Clay			0	14			
Red Rock			14	60			
Lime			60	100			
Slate			100	150			
Sand			150	180			
Red Rock			180	200			
Slate			200	230			
Sand			230	260			
Lime			260	300			
Native Coal			300	304			
Slate & Lime			304	400			
Coal (soft)			400	402			
Lime			402	442			
Sand			442	460			
Red Rock			460	480			
Slate			480	520			
Lime			520	600			
Red Rock			600	620			
Lime			620	670			
Sand			670	695			
Coal			695	698			
Lime			698	730	730		
Pittsburgh Coal			730	733			
Slate & Lime			733	780			
Coal			780	782			
Slate & Lime			782	850			
Murphy Sand			850	880			
Red Rock			880	885			
Lime Shells			885	994			
Red Rock			994	1055			
Slate & Lime			1055	1126			
Little Dunkard			1126	1156			
Red Rock			1156	1166			
Shale & Slate			1166	1195			
Big Dunkard			1195	1266			
Slate			1266	1290			
Gas Sand			1290	1334			
Slate & Lime			1334	1380			

JAN 29 1945

(Over) JUN 10 1945

11/13/2015

Formation	Color	Hard or Soft	Top	Bottom	Oil, Gas or Water	Depth Found	Remarks
1st Salt Sand			1380	1420			
Slate & Lime			1420	1515			
2nd Salt Sand			1515	1555			
Slate & Lime			1555	1610			
3rd Salt Sand			1610	1728			
Slate			1728	1753			
Maxon Sand			1753	1830			
Slate			1830	1876			
Red Rock			1876	1882			
Slate			1882	1904			
Red Rock			1904	1962			
Little Lime			1962	1975			
Pencil Cave			1975	1987			
Blue Monday			1987	2006			
Big Lime			2006	2040			
Big Injun Sand			2040	2266			
Slate & Lime Shells			2266	2320			
Squaw Sand			2320	2340			
Slate & Lime Shells			2340	2370			
Sandy Lime			2370	2520			
Slate & Lime Shells			2520	2660			
50-Foot			2660	2675			
Slate & Lime Shells			2675	2700			
Red Rock			2700	2750			
Slate & Shells			2750	2841			
Gordon Sand			2841		Gas at 2842-2848		
Total depth				2865			



Date November 25th,

APPROVED THE MANUFACTURERS LIGHT & HEAT COMPANY

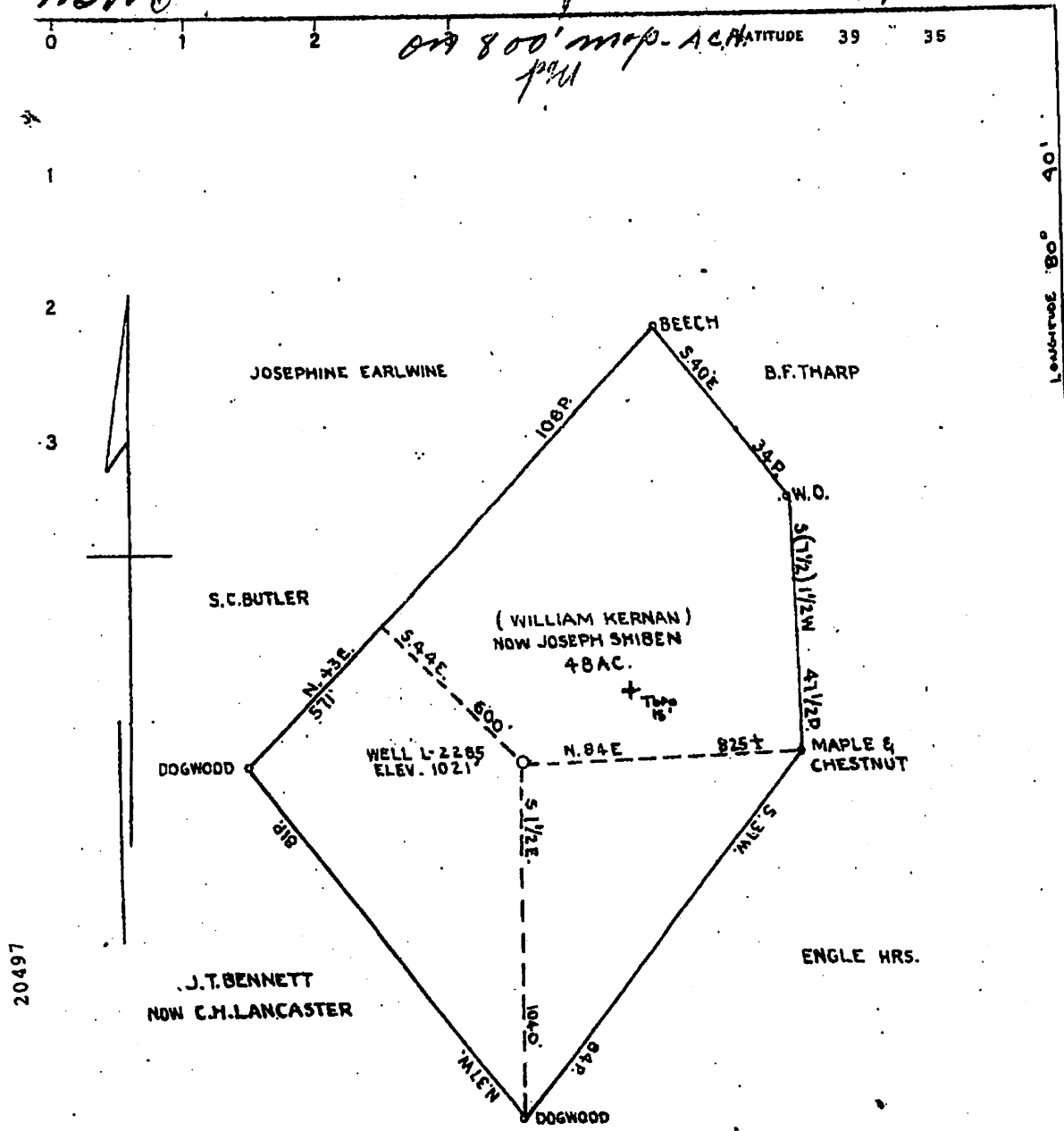
By J. H. Fowler
 Land Dept. (Title) Office Manager

11/13/2015

PROVIDED BY 0086
N5W6

in well map

N-57 10301670P



20497

LOCAL OWNED BY C.H. LANCASTER, REEBER W.VA.

- WELL LOCATION
- WELL DEEPER
- ABANDONMENT

COMPANY THE MANUFACTURERS LIGHT AND HEAT CO.
 ADDRESS 800 UNION TRUST BLD'G PITTSBURGH PA.
 NAME WILLIAM KERNAN NOW JOSEPH SHIBEN
 TRACT ACRES 48 LEASE NO. 5151
 WELL (FARM) NO. 1 SERIAL NO. 2285
 ELEVATION (SPIRIT LEVEL) 1021'
 QUADRANGLE LITTLETON / Pine Grove 75
 COUNTY WETZEL DIST. GREEN
 ENGINEER *Joseph Shiben*
 ENGINEER'S REGISTRATION NO.
 FILE NO. DRAWING NO. Y-11-93
 DATE NOVEMBER 20-44 SCALE 1" = 400'

STATE OF WEST VIRGINIA
 DEPARTMENT OF MINES
 OIL AND GAS DIVISION
 CHARLESTON

WELL LOCATION MAP

FILE NO. WET-488-A (copy)
 103-1670-N

LOCATION OF WELL ON UNITED STATES TOPOGRAPHIC MAPS SCALE 1:50000 ELEVATION AND LONGITUDE LINES BEING REPRESENTED BY BORDER LINES AS SHOWN

INDICATES ONE INCH SPACES ON BORDER LINES

11/13/2015

1) Date: September 5, 2015
2) Operator's Well Number William Kernan #1

10301670P
CK 14302
100

3) API Well No.: 47 - 103 - 01670N

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

4) Surface Owner(s) to be served:	5) (a) Coal Operator
(a) Name <u>Tony and Marion Crabtree WV</u>	Name <u>NA</u>
Address <u>Peoria Loop</u>	Address _____
<u>Raymond, Ohio 43067</u>	_____
(b) Name _____	(b) Coal Owner(s) with Declaration
Address _____	Name _____
_____	Address _____
(c) Name _____	Name _____
Address _____	Address _____
_____	_____
6) Inspector _____	(c) Coal Lessee with Declaration
Address _____	Name _____
_____	Address _____
Telephone _____	_____

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

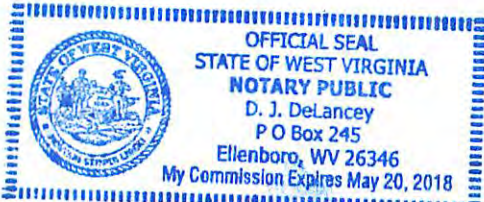
- (1) The application to Plug and Abandon a Well on Form WW-4B, which sets out the parties involved in the work and describes the well its and the plugging work order; and
- (2) The plat (surveyor's map) showing the well location on Form WW-6.

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 Perkins Oil and Gas, Inc
 By: [Signature]
 Its: Designated Agent Vice President Finance
 Address P.O. Box 547
Pennsboro, WV 26415
 Telephone (304) 659-3570

RECEIVED
Office of Oil and Gas



Subscribed and sworn before me this 23 day of October 2015
D. J. DeLancey Notary Public
 My Commission Expires May 20, 2018
 WV Department of Environmental Protection

Oil and Gas Privacy Notice

The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a part of our 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 contact DEP's Chief Privacy Officer at depprivacyoffier@wv.gov.

11/13/2015

SURFACE OWNER WAIVER

Operator's Well
Number

William Kernan #1

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. (Note: 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

Time Limits and methods for filing comments. 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.

Comments must be in writing. 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.

Tom Kubler
Signature

Date 10-28-15 Name _____
By _____
Its _____

RECEIVED
FOR EXECUTION BY A CORPORATION,
Office of Oil and Gas

NOV 04 2015

WV Department of _____ Date _____
Environmental Protection _____
Signature _____ Date **11/13/2015**

API No.	<u>47-103-01670N</u>
Farm Name	<u>William Kernan</u>
Well No.	<u>#1</u>

**INSTRUCTIONS TO COAL OPERATORS
OWNERS AND LESSEE**

The well operator named on the obverse side of WW-4 (B) is about to abandon the well described in the enclosed materials and will commence the work of plugging and abandoning said well on the date the inspector is notified. Which date shall not be less than five days after the day on which this notice and application so mailed is received, or in due course should be received by the Department of Environmental Protection Office of Oil & Gas.

This notice and application is given to you in order that your respective representatives may be present at the plugging and filling of said well. You are further notified that whether you are represented or not the operator will proceed to plug and fill said well in the manner required by Section 24, Article 6, Chapter 22 of the Code and given in detail on obverse side of this application.

NOTE: If you wish this well to be plugged according to 22-6-24(d) then as per Regulation 35CSR4-13.9 you must complete and return to this office on form OB-16 "Request by Coal Operator, Owner, or Lessee for plugging" prior to the issuance of this plugging permit.

WAIVER

The undersigned coal operator _____ / owner _____ / lessee _____ / of the coal under this well location has examined this proposed plugging work order. The undersigned has no objection to the work proposed to be done at this location, provided, the well operator has complied with all applicable requirements of the West Virginia Code and the governing regulations.

Date: _____

NA _____

By: _____

Its _____

**RECEIVED
Office of Oil and Gas**

NOV 04 2015

WV Department of
Environmental Protection **11/18/2015**

10301670P

WW-9
(2/15)

API Number 47 - 103 - 01670N

Operator's Well No. William Kernan #1

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Perkins Oil and Gas, Inc OP Code 308124

Watershed (HUC 10) Crows Run Quadrangle Pine Grove

Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No

Will a pit be used? Yes No

If so, please describe anticipated pit waste: Cement, fresh water, gel water if any fluid at all

Will a synthetic liner be used in the pit? Yes No If so, what ml.? All pits must be lined with a

Proposed Disposal Method For Treated Pit Wastes:

- Land Application
- Underground Injection (UIC Permit Number _____)
- Reuse (at API Number _____)
- Off Site Disposal (Supply form WW-9 for disposal location)
- Other (Explain _____)

*minimum of 20mil thickness
synthetic liner. JPW*

*DMH
10-14-15*

Will closed loop system be used? If so, describe: NA

Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil based, etc. NA

-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? _____

Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttings or associated waste rejected at any West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection and the permittee shall also disclose where it was properly disposed.

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 *Clint Perkins*

Company Official (Typed Name) Clint Perkins

Company Official Title Vice President Finance

RECEIVED
Office of Oil and Gas

NOV 04 2015

Subscribed and sworn before me this 23 day of October, 2015

D. J. DeLancey

Notary Public

My commission expires May 20, 2018

WV Department of Environmental Protection



OFFICIAL SEAL
STATE OF WEST VIRGINIA
NOTARY PUBLIC
D. J. DeLancey
P. O. Box 445
Ellenboro, WV 26346
11/13/2015
My Commission Expires May 20, 2018

Perkins Oil and Gas, Inc

Proposed Revegetation Treatment: Acres Disturbed 1.0 Prevegetation pH 5.5

Lime 2 Tons/acre or to correct to pH 6.5

Fertilizer type _____

Fertilizer amount 500 lbs/acre

Mulch 2 Tons/acre

Seed Mixtures

Temporary

Permanent

Seed Type	lbs/acre
KY 31 Fescue	50
_____	_____
_____	_____

Seed Type	lbs/acre
KY 31 Fescue	50
_____	_____
_____	_____

Attach:

Drawing(s) of road, location, pit and proposed area for land application (unless engineered plans including this info have been provided)

Photocopied section of involved 7.5' topographic sheet.

Plan Approved by: 

Comments: _____

Title: Oil + Gas Inspector

Date: 10-14-15

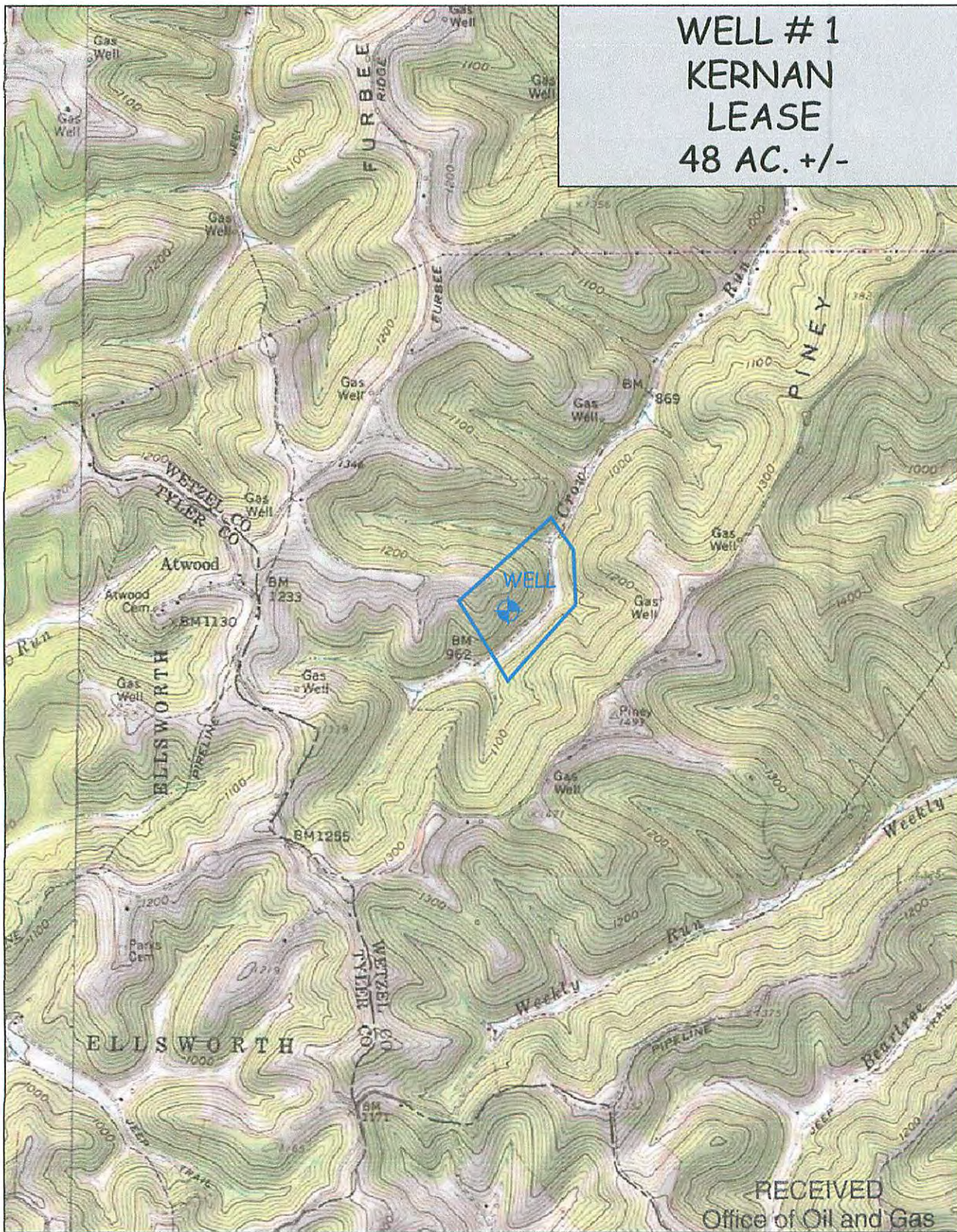
Field Reviewed? Yes No

RECEIVED
Office of Oil and Gas

NOV 04 2015

WV Department of
Environmental Protection
11/13/2015

WELL # 1
KERNAN
LEASE
48 AC. +/-



RECEIVED
Office of Oil and Gas

DmH
10-14-15

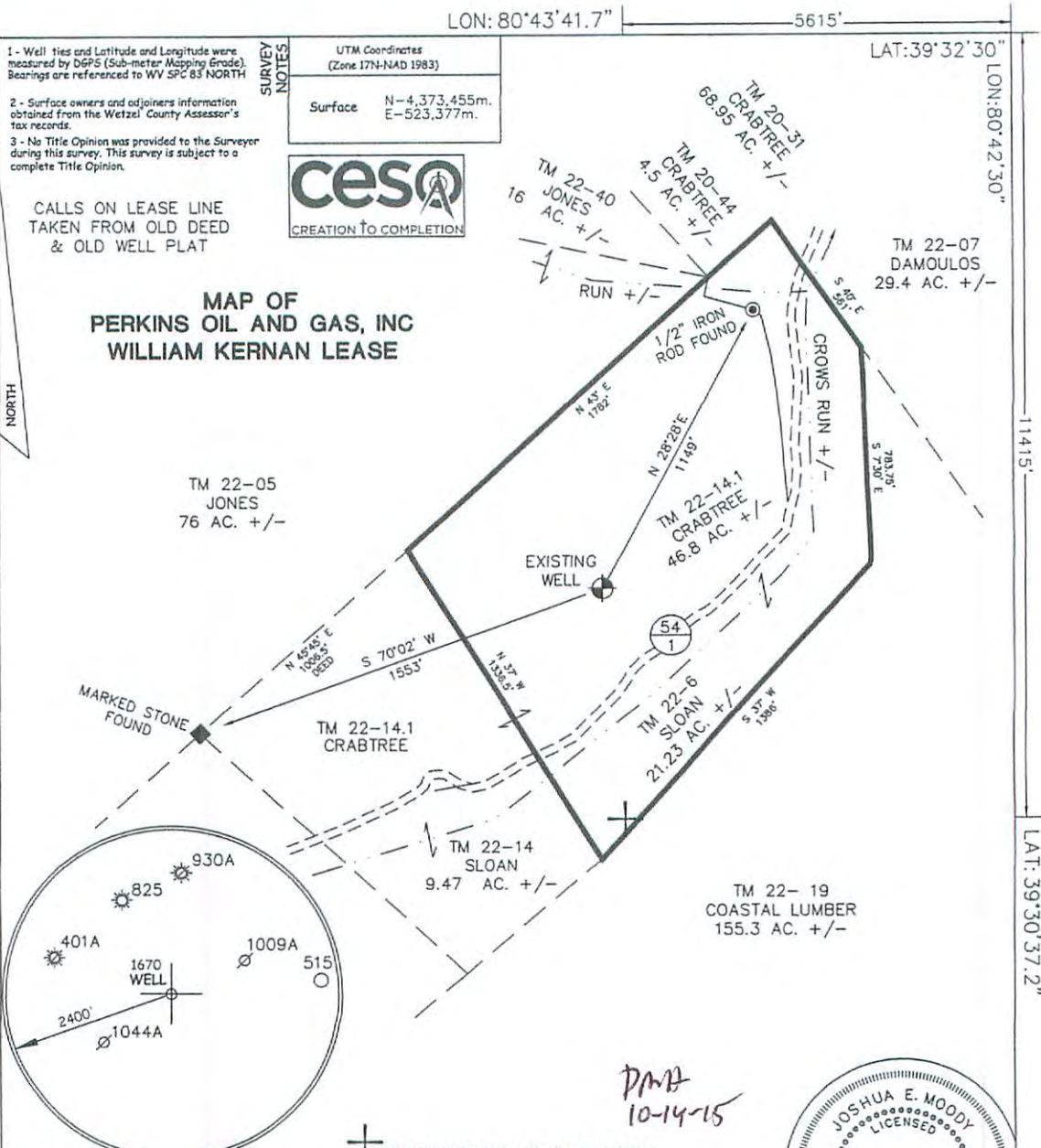
NOV 04 2015

CESO, INC.
211 WASHINGTON ST. ST. MARYS, WV 26170
(304) 684-7773

TOPO SECTION OF PINE GROVE 7.5'
JOB # 751708 WV Department of Energy

Environmental Protection

11/13/2015



SURVEY NOTES

- Well ties and Latitude and Longitude were measured by DGPS (Sub-meter Mapping Grade). Bearings are referenced to WV SFC 85 NORTH.
- Surface owners and adjoining information obtained from the Wetzel County Assessor's tax records.
- No Title Opinion was provided to the Surveyor during this survey. This survey is subject to a complete Title Opinion.

UTM Coordinates
(Zone 17N-NAD 1983)

Surface N-4,373,455m.
E-523,377m.



CALLS ON LEASE LINE
TAKEN FROM OLD DEED
& OLD WELL PLAT

**MAP OF
PERKINS OIL AND GAS, INC
WILLIAM KERNAN LEASE**

NORTH

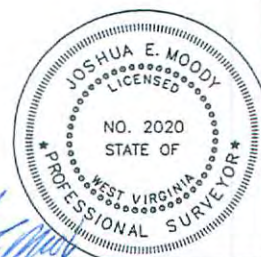


JOB # 751708
DRAWING # 751708 KERNAN
SCALE 1" = 500'
MINIMUM DEGREE OF
ACCURACY SUB-METER
PROVEN SOURCE OF ELEV.
MAPPING GRADE GPS

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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



CESO, INC
211 WASHINGTON STREET
ST. MARYS, WV 26170



WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

JOSHUA E. MOODY, P.S. 2020

DATE 8/25/15
OPERATOR'S WELL
WILLIAM KERNAN # 1

WELL TYPE: OIL GAS LIQUID INJECTION WASTE DISPOSAL HORIZONTAL
 (IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
 LOCATION: ELEVATION 1095' WATERSHED CROWS RUN API WELL # 47-103-01670
 DISTRICT GREEN COUNTY WETZEL STATE COUNTY PERMIT
 QUADRANGLE PINE GROVE 7.5'
 SURFACE OWNER TONY CRABTREE ETAL ACREAGE 41.8 ACRES +/-
 OIL & GAS ROYALTY OWNER Joseph & Minnie Shiben Est., or heirs/assigns LEASE ACREAGE 48 ACRES +/-
 PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
 STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION
 OTHER PHYSICAL CHANGE IN WELL (SPECIFY)
 PLUG & ABANDON CLEAN OUT & REPLUG
 TARGET FORMATION GORDON ESTIMATED DEPTH 2953' +/-
 WELL OPERATOR PERKINS OIL & GAS INC. DESIGNATED AGENT CLINTON PERKINS
 ADDRESS P.O. BOX 547 ADDRESS P.O. BOX 547
 PENNSBORO, WV 26415 PENNSBORO, WV 26415

RECEIVED
Office of Oil and Gas

NOV 0 2015

LON: 80°43'41.7"

5615'

LAT: 39°32'30"

LON: 80°42'30"

11415'

LAT: 39°30'37.2"

- SURVEY NOTES**
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(Zone 17N-NAD 1983)

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E-523,377m.



CALLS ON LEASE LINE
TAKEN FROM OLD DEED
& OLD WELL PLAT

**MAP OF
PERKINS OIL AND GAS, INC
WILLIAM KERNAN LEASE**

NORTH

TM 22-05
JONES
76 AC. +/-

TM 20-31
CRABTREE
68.95 AC. +/-

TM 20-44
CRABTREE
4.5 AC. +/-

TM 22-40
JONES
16 AC. +/-

TM 22-07
DAMOULOS
29.4 AC. +/-

MARKED STONE
FOUND

TM 22-14.1
CRABTREE

EXISTING
WELL

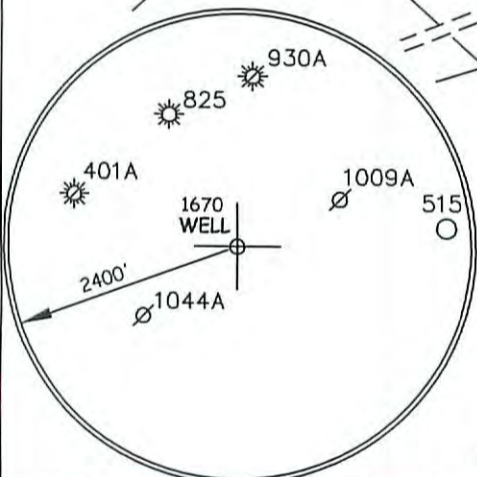
TM 22-14.1
CRABTREE
46.8 AC. +/-

54
1

TM 22-6
SLOAN
21.23 AC. +/-

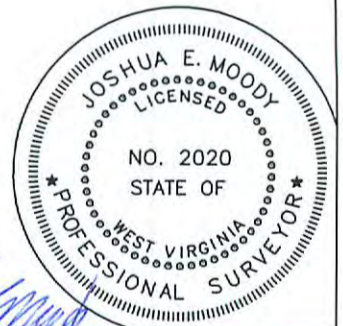
TM 22-14
SLOAN
9.47 AC. +/-

TM 22- 19
COASTAL LUMBER
155.3 AC. +/-



+ DENOTES LOCATION OF WELL ON U.S. TOPO MAPS.

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 PERSCRIBED BY THE DEPARTMENT OF ENVIRONMENTAL PROTECTION.



JOB # 751708
DRAWING # 751708 KERNAN
SCALE 1" = 500'
MINIMUM DEGREE OF ACCURACY SUB-METER
PROVEN SOURCE OF ELEV. MAPPING GRADE GPS



CESO, INC
211 WASHINGTON STREET
ST. MARYS, WV 26170

JOSHUA E. MOODY, P.S. 2020

WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS

DATE 8/25/15
OPERATOR'S WELL
WILLIAM KERNAN # 1

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(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1095' WATERSHED CROWS RUN API WELL # 47-103-01670P
DISTRICT GREEN COUNTY WETZEL STATE 47 COUNTY 103 PERMIT 01670P
QUADRANGLE PINE GROVE 7.5'

SURFACE OWNER TONY CRABTREE ETAL ACREAGE 41.8 ACRES +/-
OIL & GAS ROYALTY OWNER Joseph & Minnie Shiben Est., or heirs/assigns LEASE ACREAGE 48 ACRES +/-
PROPOSED WORK: DRILL CONVERT DRILL DEEPER REDRILL FRACTURE OR
STIMULATE PLUG OFF OLD FORMATION PERFORATE NEW FORMATION

OTHER PHYSICAL CHANGE IN WELL (SPECIFY) _____
PLUG & ABANDON CLEAN OUT & REPLUG
TARGET FORMATION GORDON
WELL OPERATOR PERKINS OIL & GAS INC.
ADDRESS P.O. BOX 547
PENNSBORO, WV 26415

ESTIMATED DEPTH 2953' +/-
DESIGNATED AGENT CLINTON PERKINS
ADDRESS P.O. BOX 547
PENNSBORO, WV 26415

RECEIVED
Office of Oil and Gas
NOV 04 2015
WV Department of
Environmental Protection

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PERKINS OIL AND GAS, INC
WILLIAM KERNAN LEASE**

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76 AC. +/-

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JONES
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68.95 AC. +/-

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29.4 AC. +/-

MARKED STONE
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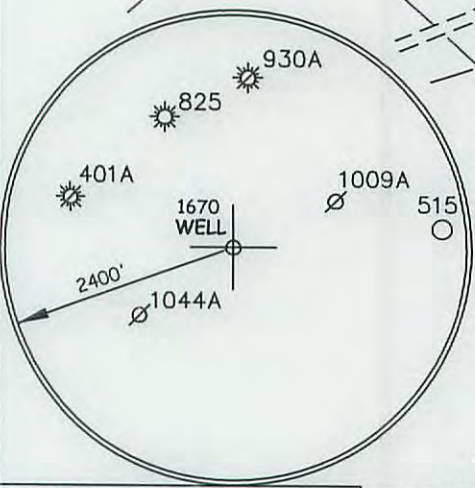
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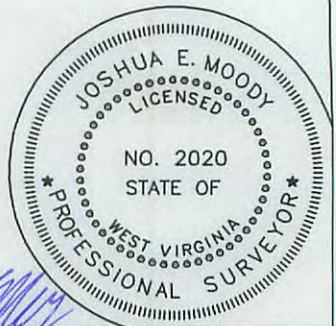
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CESO, INC
211 WASHINGTON STREET
ST. MARYS, WV 26170

JOSHUA E. MOODY, P.S. 2020

DATE 8/25/15
OPERATOR'S WELL
WILLIAM KERNAN # 1

JOB # 751708
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SCALE 1" = 500'
MINIMUM DEGREE OF
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WEST VIRGINIA DEPARTMENT
OF ENVIRONMENTAL PROTECTION
OFFICE OF OIL AND GAS



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(IF "GAS") PRODUCTION STORAGE DEEP SHALLOW
LOCATION: ELEVATION 1095' WATERSHED CROWS RUN API WELL # _____
DISTRICT GREEN COUNTY WETZEL 47 - 103 - 01670? COUNTY NAME PERMIT
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