

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

May 12, 2016

WELL WORK PLUGGING PERMIT

Plugging

This permit, API Well Number: 47-9900588, issued to CABOT OIL & GAS CORPORATION, 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 penalities 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.

Operator's Well No: 2-917

Farm Name: SMITH, WILLIAM & POLLY

James Martin

API Well Number: 47-9900588

Permit Type: Plugging Date Issued: 05/12/2016

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. <u>Failure to adhere to the specified permit conditions may result in enforcement action.</u>

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.

WW-4B Rev. 2/01

			20 16	
2) Ope:	rator	5		
Wel!	L No.	Polly	Smith #2	
3)API	Well	No.	47-099	- 00588

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

See Attached Sheet Sotification must be given to the district oil and gas inspector 24 hours before permitted fork can commence.		APPLICATION FOR A PER	MIT TO PLUG AND ABANDON
Shallow X or Underground storage Deep Shallow X Location: Elevation 1,154,30'	4)	Well Type: Oil/ Gas _X_/ Liqui	d injection / Waste disposal /
District Lincoln County Wayne Quadrangle Wilsondale County Wayne Quadrangle Wilsondale County Wayne Quadrangle Wilsondale 7) Designated Agent Philip Hill - Cabet Oil & Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 8) Oil and Gas Inspector to be notified Name Allen Flowers Address 165 Grassy Lick Lane Liberty, WV 25124 Divided the work order for the manner of plugging this well is as follows: See Attached Sheet Designated Agent Philip Hill - Cabet Oil & Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 9) Plugging Contractor Name Contractor Services, Inc. Address 929 Charleston Road Spencer, WV 25276 10) Work Order: The work order for the manner of plugging this well is as follows: See Attached Sheet		(If "Gas, Production X or Un	derground storage) Deep/ Shallow X
District Lincoln County Wayne Quadrangle Wilsondale County Wayne Quadrangle Wilsondale One of the manner of plugging this well is as follows: See Attached Sheet Output Wayne Quadrangle Wilsondale One of the capture of the manner of plugging thin wild capture for the manner of plugging thin well is as follows: See Attached Sheet Output Wayne Quadrangle Wilsondale 7) Designated Agent Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 Philip Hill - Cabot Oils Gas Corporation Name Contractor Name Contr	5)	Location: Elevation 1,154.30'	Watershed Moses Fork
Address 2000 Park Lane, Ste., 300 Pittsburgh, PA 15275 8) Oil and Gas Inspector to be notified Name Allen Flowers Address 165 Grassy Lick Lane Liberty, WV 25124 Work Order: The work order for the manner of plugging this well is as follows: See Attached Sheet See Attached Sheet Address 900 Lee Street East, Suite 1500 Charleston, WV 25301 9) Plugging Contractor Name Contractor Services, Inc. Address 929 Charleston Road Spencer, WV 25276 10) Work Order: The work order for the manner of plugging this well is as follows: See Attached Sheet		District Lincoln	AA.
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8) Oil and Gas Inspector to be notified Name Allen Flowers Address 165 Grassy Lick Lane Liberty, WV 25124 Work Order: The work order for the manner of plugging this well is as follows: See Attached Sheet Some Contractor Services, Inc. Address 929 Charleston Road Spencer, WV 25276 Spencer, WV 25276 See Attached Sheet			Address 900 Lee Street East, Suite 1500
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Liberty, WV 25124 Spencer, WV 25276 Spencer, WV 2	8)	Name_Allen Flowers	
Work Order: The work order for the manner of plugging this well is as follows: See Attached Sheet Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.			Address 929 Charleston Road
Notification must be given to the district oil and gas inspector 24 hours before permitted work can commence.		Liberty, WV 25124	Spencer, WV 25276
Work can commence.			
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Date 5 5 201	lork	order approved by inspector	Data (-(-70/
		The state of supposed the state of the state	Date 5 2016

POLLY SMITH #2 API # 47 - 099 - 00588 PLUGGING PROCEDURE

Current Configuration

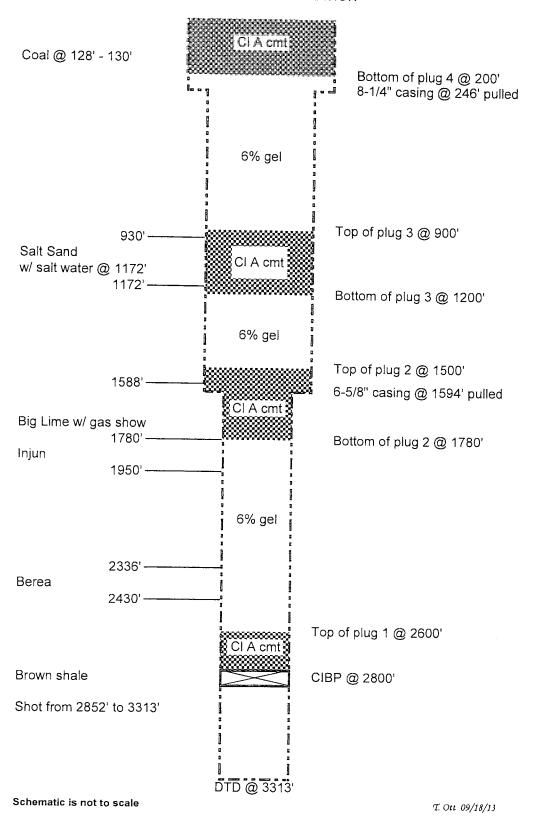
DTD @ 3313'
8-1/4" casing @ 246'
6-5/8" casing @ 1594'
Salt water @ 1172'
Coal @ 128' - 130'
Brown Shale @ 2430' - 3313' shot from 2852' to 3313'
Big Lime @ 1588' - 1780' w/ gas show
Salt Sand @ 930' - 1172'

PROCEDURE

- 1. Contact Danville District Office a minimum of 48 hours prior to starting work
- 2. Contact state inspector a minimum of 24 hours prior to starting work.
- 3. Lay 2" line from wellhead to pit/tank and stake down securely. Vent 6-5/8" X 8-1/4" annulus.
- 4. MIRU service rig and blow down well. Have vacuum truck available to catch any fluids circulated from well.
- 5. Unpack wellhead.
- 6. Run rig tools to determine well TD and note any fluid level.
- 7. MIRU Wireline unit.
- 8 TIH w/ CIBP and set at 2800
- 9 TOOH w/ Wireline.
- 10. MIRU Cementing Company.
- 11. TIH with 2-3/8" work string to CIBP
- 12. Pump 40 bbls of 6% Gel followed by 35 sacks of Class A cement for cement plug 1 from 2800' to 2600'.
- 13. Displace with 10 bbls of 6% Gel.
- 14. POOH with work string and let cement plug set for a minimum of 4 hours.
- 15. Pull 6-5/8" and 8-1/4" casing strings.
- 16. TIH with 2-3/8" work string to 1780' and pump 40 bbls 6% gel followed by 60 sacks of Class A cement for cement plug 2 from 1780' to 1500'.
- 17. Displace with 5 3/4 bbls of 6% Gel
- 18. Pull work string to 1200' and pump 85 sks of Class A cement for plug 3 from 1200' to 900'.
- 19. Displace w/ 3 1/2 bbls of 6% Gel.
- 20. Pull work string up to 200' and pump 100 sks of Class A cement for plug 4 from 200' to surface.
- 21. TOOH with work string and lay down
- 22. RDMO Cement company
- 23. Erect Monument according to Law.
- 24 RDMO

I Spoke WAL ML 05/13/2016
about allows on 54-2016 at 11:30 Am.

Polly Smith #2 API 47-099-00588 PROPOSED CONFIGURATION



WEST VIRGINIA DEPARTMENT OF MINES CIL & GAS DIVISION WELLRECORD

Permit No. Way 588 Naugtauck Quad. Company Address Farm Location Well No. District Surface Mineral Commensed Completed Date Shot Open flow Volume Rock Fressure Salt Water	McKinley Trent, Trustee 1400 5th Avec, Huntingt Wmc and Polly Smith A Turkey Fork, Twelve Pol Trent #4 Elev. 950° Lincoln Wayne County Several People Wmc and Polly Smith, Et July 23,1948 Sept. 11,1948 Sept. 11,1948 Sept. 13, 2852 to 3313 with 5,000 CoF. 33,000 CoF. 330° 1172°	con, 1, W.Va. 81 246 246 cres 225 6 5/8 1594 6 Same ce Cr. Coal at 128 130
Surface Sand Slate Coal Slate Sand Slate Lime Shells Slate Sand Slate & Shells Salt Sand Black Lime Sand Slate Maxon Sand Slate Sand Red Rock Slate & Shells Sand Little Lime Big Lime Injun Sand Slate & Shells Sand Slate & Shells Sand Slate & Shells Sand Slate & Shells Coffee Shale Berea Sand Brown Shale White Slate Brown Shale Gray Shale Brown Shale White Slate Total Depth	0 60 105 105 128 128 130 130 157 157 390 390 410 410 450 450 655 655 675 675 930 930 1172 1172 1210 1210 1273 1273 1258 1358 1366 1366 1418 1418 1430 1452 1452 1515 1515 1560 1560 1588 1780 1950 1950 2173 2173 2183 2173 2183 2173 2183 2173 2183 2173 2183 2183 2310 2310 2336 2436 2436 2436 2436 2436 2436 2436	RECEIVED Office of Oil and Gas MAY 0 2 2016 WV Department of Environmental Protection

WW-4A Revised 6-07

1) Date:	April 25, 2016	
2) Operator	's Well Number	
Polly Smith #	2	

3) API Well No.: 47 -

099

00588

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

	er(s) to be served:	(5)	(a) Coal Operato		
(a) Name	See Exhibit "A"	V	Name	See Exhibit "C"	
Address			Address	-	
(b) Name			(b) Coal O	wner(s) with Declaration	i
Address			Name	See Exhibit "B"	
	3 404		Address		
(c) Name			Name	}2	
Address	,		Address		
		/			
6) Inspector	Allen Flowers	-		ssee with Declaration	/
Address	165 Grassy Lick I		Name	Don L. Mahanes	
445.000000000	Liberty, WV 2512	24	Address	1611 Story Road	
Telephone	(304) 552-8308		_	Louisville, KY 40206	
well its (2) The pla The reason yellowever, you Take notice t	are not required to take hat under Chapter 22-6 o	nowing the well locate the sets is that you have reany action at all.	tion on Form WW-6. rights regarding the appliance.	operator proposes to file or has f	he instructions on the reverses side
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The Office of Oil and Gas processes your personal information, such as name, address and phone number, as a pair of Pour 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.



SURFACE OWNERS POLLY SMITH #2 API #47-099-00588

Oscar Marcum / 271 Upper Stone Branch Rd. Fort Gay, WV 25514

Woodrow Marcum P.O. Box 253 Crum, WV 25669

Florene Damron-Stoltz / 368 Stanton Avenue Columbus, Ohio 43214

Mildred F. Parsley 887 Salisbury Rd. Columbus, Ohio 43204

Dorothy Perry 4517 Elder Court Hilliard, Ohio 43026

Willie Marcum
67 North Eureka Avenue
Columbus, Ohio 43204

Lacy Carter Marcum 1907 County Road 146 Ashley, Ohio 43003

Linda M. Ison 236 Overholt Drive Virginia Beach, VA 23462

Rhoda Marcum Brock / 705 Corapeake Drive Chesapeake, VA 23322

Kimberly Esposito
7837 Oak River Drive
Grosse Ile, Michigan 48138

John & Sandra Arnold P.O. Box 124 Sturgis, KY 42459

Eugene P. Husarick & Norma B. Gillman P.O. Box 1 Wilsondale, WV 25669

Raymond Charles Messer & / William Alan Messer HC 84 Box 49A Wilsondale, WV 25699

COAL OWNERSHIP POLLY SMITH #2

API #47-099-00588

EXHIBIT "B"

April 25, 2016

Lois Damron 136 Bethesda Dr. Ona, WV 25545

Charles Larry Smith c/o Lois Damron 136 Bethesda Dr. Ona, WV 25545

Lisa Smith c/o Lois Damron 136 Bethesda Dr. Ona, WV 25545

Michael Smith c/o Lois Damron 136 Bethesda Dr. Ona, WV 25545

Tonya Smith c/o Lois Damron 136 Bethesda Dr. Ona, WV 25545

> Office of Oil and Gas MAY 0 2 2016

WV Department of Environmental Protection





EXHIBIT "C"

COAL OPERATORS POLLY SMITH #2 API #47-099-00588

Appalachian Mining & Rec 1316 Porter Road
Cattlesburg, KY 41129

Argus Energy WV, LLC P.O. Box 190 Lovely, KY 41231

Arch Reclamation Services, Inc.

City Place One, Suite 300

St. Louis, MO 63141

WW-9 (2/15)

API Number 47 -	099	- 00588
Operator's	Well No.	Polly Smith #2

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name Cabot Oil & Gas Corporation OP Co.	de 08145
Watershed (HUC 10) Moses Fork of the West Fk. of Twelvepole Creek Quadrangle Wilsondal	le
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 V	
If so, please describe anticipated pit waste:	
Will a synthetic liner be used in the pit? Yes No If so, what	
Land Application Underground Injection (UIC Permit Number	OUTAWED IN TANKS & DISPOSED OF PROPERTY. GATH
Will closed loop system be used? If so, describe: N/A	
Drilling medium anticipated for this well (vertical and horizontal)? Air, freshwater, oil bas	sed, etc. no drilling proposed
-If oil based, what type? Synthetic, petroleum, etc.	
Additives to be used in drilling medium? N/A	
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. No cuttings produced in pit, landfill, removed offsite, etc.	duced during plugging operation
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawd	ust)
-Landfill or offsite name/permit number?	
Permittee shall provide written notice to the Office of Oil and Gas of any load of drill cuttin West Virginia solid waste facility. The notice shall be provided within 24 hours of rejection where it was properly disposed.	
I certify that I understand and agree to the terms and conditions of the GENERAL on August 1, 2005, by the Office of Oil and Gas of the West Virginia Department of Environce provisions of the permit are enforceable by law. Violations of any term or condition of the law or regulation can lead to enforcement action. I certify under penalty of law that I have personally examined and am familia application form and all attachments thereto and that, based on my inquiry of those obtaining the information, I believe that the information is true, accurate, and complet penalties for submitting false information, including the possibility of fine or imprisonment.	onmental Protection. I understand that the the general permit and/or other applicable ar with the information submitted on this individuals immediately responsible for e. I am aware that there are significant
Company Official Signature Konnoth I. Maroum	
Company Official (Typed Name) Kenneth L. Marcum	RECEIVED
Company Official Title Regulatory Supervisor	Office of Oil and Gas
Subscribed and sworn before me this 25th day of april	MAY 0 2 2016 , 20 16 WV Department of
My commission expires 11/16/2017	COMMONWEALTH OF PENNSYLVANIA Notarial Seal Coll FOLOCTION Notarial Seal Coll FOLOCTION Constance C. Carden, Notary Public McDonald Boro, Washington County My Commission Expires Nov. 05.2013/2016 MEMBER, PENNSYLVANIA ASSOCIATION OF NOTARIES

Proposed Revegetation Treatment: Acres Disturbed 3.0	Prevegetation pH 6.5
Lime 2 Tons/acre or to correct to p	
Fertilizer type 10-20/20 or equivalent	
Fertilizer amount 500	lbs/acre
Mulch Pulp Fiber at 1000 to 1500 lbs. Tons	/acre
	1 100
Temporary	ed Mixtures
	Permanent
Seed Type Ibs/acre (Grain Rye - 100) (Red Clover - 5) (Fescue - 40)	Seed Type Ibs/acre (Grain Rye - 100) (Red Clover - 5) (Fescue - 40
(Annual Rye - 20) (White Clover - 5)	(Annual Rye - 20) (White Clover - 5)
(Perennial Rye - 10) (Alta Sweet Clover - 5)	(Perennial Rye - 10) (Alta Sweet Clover - 5)
N ()	
rovided)	
Attach: Drawing(s) of road, location, pit and proposed area for land ap	
Attach: Drawing(s) of road, location, pit and proposed area for land approvided) Photocopied section of involved 7.5' topographic sheet.	(Yellow Clover - 5) (Birdsfoot Trefoil - 10)
Attach: Drawing(s) of road, location, pit and proposed area for land approvided) Photocopied section of involved 7.5' topographic sheet.	
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GENERAL NOTES:

THIS DRAWING REPRESENTS A SCHEMATIC REPRESENTATION OF THE PROPOSED WELL SITE AND ACCESS ROAD.
PROPOSED STRUCTURES SUCH AS THE DRILLING PIT, ROADWAY, CULVERTS, SEDIMENT BARRIERS, ETC. ARE SHOWN IN
THEIR APPROXIMATE PREPLANNING CONFIGURATION. GIVEN UNFORESEEN CIRCUMSTANCES, THE AS—BUILT LOCATION OF
THESE STRUCTURES MAY VARY SLIGHTLY FROM THE LOCATION SHOWN ON THE ATTACHED DRAWINGS.

ALL ROADS SHOWN THEREON ARE EXISTING UNLESS OTHERWISE NOTED AND SHALL BE MAINTAINED IN ACCORDANCE
WITH GUIDELINES AND REQUIREMENTS OF WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL

MANUAL

ALL CULVERTS SHOWN ON THIS DRAWING ARE PROPOSED AND WILL BE A MINIMUM OF 15" IN DIAMETER UNLESS OTHERWISE NOTED.

DITCH LINES AND CULVERTS WILL BE INSTALLED WHENEVER PRACTICAL. HOWEVER PORTIONS OF THE EXISTING/ PROPOSED ROADS WHICH ARE LOCATED IN SOLID ROCK SHALL NOT REQUIRE DITCHES OR CROSS DRAINS, UNLESS OTHERWISE WARRANTED BY FIELD CIRCUMSTANCES.

SUPPLEMENTAL DRAINAGE AND/OR SEDIMENT CONTROL STRUCTURES MEASURES IN ADDITION TO THOSE SHOWN ON THE ATTACHED DRAWINGS WILL BE INSTALLED WHEN AND WHERE DEEMED NECESSARY, SUCH ADDITIONAL MEASURES MAY CONSIST OF EITHER STRAW BALES, SILT FENCES OR OTHER MEASURES OUTLINED IN THE WEST VIRGINIA DEPARTMENT

OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

SEDIMENT BASINS (TRAPS) WILL BE CONSTRUCTED AT ALL CULVERTS AND CROSS DRAINS INLETS AS REQUIRED IN THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL MANUAL. FIELD CONDITIONS SUCH AS ROCK OUTCROPS AND BEDROCK MAY PROHIBIT INLET TRAPS BEING INSTALLED WHEN THESE CONDITIONS EXIST.

ADDITIONAL EROSION CONTROL MEASURES SHALL BE EVALUATED AND UTILIZED AS NEEDED.

A SEDIMENT BARRIERS OF EITHER BRUSH, STRAW BALES, FILTER FENCE, ETC. WILL BE INSTALLED AND MAINTAINED BELOW THE OUT FALL OF ALL PROPOSED CULVERTS AND AT ALL OTHER STORM WATER DRAINAGE POINTS FROM EITHER

THE ROADWAY OR THE LOCATION.

ALL NECESSARY TIMBER OR BRUSH WILL BE REMOVED FROM ROUTE OF THE ROADWAY AND LOCATION BY CLEANING AND GRUBBING ACTIVITIES. ANY SALVAGEABLE TIMBER WILL BE CUT AND STACKED TO THE SIDE OF THE ROADWAY OR REMOVED TO A STOCKPILE AREA. THE REMAINING TIMBER OR BRUSH WILL BE CUTUP AND WIND ROWED BELOW THE OUTSLOPE OF THE CONSTRUCTION AREAS TO BE UTILIZED AS A SEDIMENT BARRIER.

SEPARATE PERMITS WILL BE OBTAINED FROM THE WEST VIRGINIA DEPARTMENT OF TRANSPORTATION FOR ALL POINTS OF INGRESS AND EGRESS FROM COUNTY AND STATE ROADS. THESE INGRESS AND EGRESS POINTS WILL BE MAINTAINED IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS. A STABILIZED CONSTRUCTION ENTRANCE CONSISTING OF 8" OF CRUSHED STONE WILL BE CONSTRUCTED FOR A MINIMUM DISTANCE OF 50' FROM THE INGRESS AND EGRESS POINTS OF ALL PUBLIC ROADWAYS IN ACCORDANCE WITH CURRENT WEST VIRGINIA DEPARTMENT OF TRANSPORTATION REGULATIONS.

DEPARTMENT OF TRANSPORTATION REGULATIONS.

ALL CULVERTS SHOWN ON THE ATTACHED DRAWINGS ARE TO BE CONSIDERED PERMANENT AND WILL REMAIN IN PLACE AFTER COMPLETION OF CONSTRUCTION ACTIVITIES UNLESS NOTED OTHERWISE. A STABILIZED OUTLET CONTROL DEVICE SUCH AS RIP RAP, NATURAL STONE, BRUSH, ETC. WILL BE INSTALLED BELOW THE OUT FALL OF ANY ROADWAY CULVERT(S) WHICH ARE NOT LOCATED IN A STREAM OR CREEK.

PERMANENT CROSS DRAINS OR WATER BARS WILL BE INSTALLED AS AN INTEGRAL PART OF THE RECLAMATION PROCESS AND SHALL BE SPACED IN ACCORDANCE WITH AS—BUILT ROADWAY SLOPES AND TABLE 11—4 OF THE WEST VIRGINIA DEPARTMENT OF OIL AND GAS EROSION AND SEDIMENT CONTROL FIELD MANUAL.

TEMPORARY SEEDING AND MULCHING WILL BE UTILIZED TO PROVIDE A VEGETATIVE COVER ON ALL DISTURBED AREAS I.E. ROADWAYS, LOCATION, ROAD/LOCATION SLOPES AND ANY OTHER AREAS THAT ARE DISTURBED BY CONSTRUCTION ACTIVITIES

ACTIVITIES.

THE LOCATION OF DRILLING PIT(S) MAY BE ADJUSTED TO THE MOST ENVIRONMENTAL SAFE SITE TO MEET THE REQUIREMENTS OF THE WYDEP.

CONTRACTORS NOTE:

IT IS THE RESPONSIBILITY OF THE CONSTRUCTION CONTRACTOR TO FIELD VERIFY THE EXACT LOCATION AND CONDITION OF ALL UNDERGROUND UTILITIES, SANITARY SEWERS, STORM SEWERS, ETC. PRIOR TO THE COMMENCEMENT OF ANY/OR CONSTRUCTION ACTIVITIES. DIG WITH C.A.R.E. CALL MISS UTILITY 1-800-245-4848.

TABLE 11-4 SPACIN	G OF CROSS DRAINS
ROAD GRADE (%)	DISTANCE (FT)
1	400
2	250
5	135
10	80
15	60
20	45

TABLE 11-7 SPAC	ING OF CULVERTS
ROAD GRADE (%)	DISTANCE (FT)
2-5	500-300
6-10	300-200
11-15	200-100
16-20	100



1-800-245-4848

DRAWING LEGEND

PROPOSED ROAD -----EXISTING ROAD STRAW BALES SILT FENCE BRUSH BARRIER Beassed? m TREE LINE ROCK RIP RAP CROSS DRAIN CULVERT DRILLING PRECEIVE ROAD CHECE of Oil and Gas FENCE LINE
ROCK OUTCROR 0 2 2016
WATER WELMAY 0 2 2016
HOUSE/STRUCTURE
UTILITY POLE
SPRINGNV Department of WEE SPOT IN THE NEAR Protection

DRIVING DIRECTIONS FOR POLLY SMITH

FROM WAYNE, WY DRIVE SOUTH ON RT. 152 FOR APPROXIMATELY 26± MILES TO THE INTERSECTION OF SECONDARY ROUTE 35, (MISSOURI BRANCH), IN DUNLOW, LOCATED ON THE LEFT-HAND SIDE OF THE ROAD.

TURN LEFT ONTO SECONDARY ROUTE 35 AND GO APPROXIMATELY 1.9± MILES TO SECONDARY ROUTE 35/5 (TICK 2.) RIDGE ROAD).

TURN RIGHT ONTO SECONDARY ROUTE 35/5 AND GO APPROXIMATELY 6.5± MILES TO THE END OF SECONDARY 3.) ROUTE 35/5 AND THE BEGINNING OF THE ACCESS ROAD.

CONTINUE ON THE EXISTING ACCESS ROAD APPROXIMATELY 0.8± MILES TO THE EXISTING WELL SITE AS SHOWN 4.) ON THE "CONSTRUCTION AND RECLAMATION PLAN".

05/13/2016

AF 5-5-16

