

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

July 16, 2014

WELL WORK PERMIT

Horizontal Well

This permit, API Well Number: 47-1502901, issued to CUNNINGHAM ENERGY, LLC, 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.

Please be advised that form WR-35, Well Operators Report of Well Work is to be submitted to this office within 90 days 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.

In addition to the applicable requirements of this permit, and the statutes and rules governing oil and gas activity in WV, this permit may contain specific conditions which must be followed. Permit conditions are attached to this cover letter.

Per 35CSR-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) 926-0499 ext. 1654.

James Martin

Chief

Operator's Well No: J.S. COCHRAN #6H-A

Farm Name: CUNNINGHAM ENERGY, LLC

API Well Number: 47-1502901

Permit Type: Horizontal Well

Date Issued: 07/16/2014

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</u> conditions may result in enforcement action.

CONDITIONS

- 1. If the operator encounters an unanticipated void, or an anticipated void at an unanticipated depth, the operator shall notify the inspector within 24 hours. Modifications to the casing program may be necessary to comply with W. Va. Code §22-6-20, which requires drilling to a minimum depth of thirty feet below the bottom of the void, and installing a minimum of twenty (20) feet of casing. Under no circumstance should the operator drill more than fifty (50) feet below the bottom of the void or install less than twenty (20) feet of casing below the bottom of the void.
- 2. Pursuant to 35 CSR 4-19.1.a, at the request of the surface owner all water wells or springs within 1000 feet of the proposed well that are actually utilized for human consumption, domestic animals or other general use shall be sampled and analyzed.
- 3. Pursuant to 35 CSR 4-19.1.c, if the operator is unable to sample and analyze any water well or spring with one thousand (1,000) feet of the permitted well location, the Office of Oil and Gas requires the operator to sample, at a minimum, one water well or spring located between one thousand (1,000) feet and two thousand (2,000) feet of the permitted well location.
- 4. All pits must be lined with a minimum of 20 mil thickness synthetic liner.
- 5. 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.
- 6. During the surface casing and cementing process, in the event cement does not return to the surface, or any other casing string that is permitted to circulate cement to the surface and does not return to the surface, the oil and gas inspector shall be notified within twenty-four (24) hours
- 7. Well work activities shall not constitute a hazard to the safety of persons.
- 8. Operator shall provide the Office of Oil & Gas notification of the date that drilling commenced on this well. Such notice shall be provided by sending an email to DEPOOGNotify@wv.gov within 30 days of commencement of drilling.

WW - 2B (Rev. 8/10) 1502901H Checket 9395

07/18/2014

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS WELL WORK PERMIT APPLICATION

4) 141 11 0			A Committee of the Comm				334
1) Well Opera	tor: CUN	ININGHA	AM ENERGY, LLC	C ASSESSED	CLAY - 15	UNION-05	ELKHURST 7.5
	-		A-10-1	Operator ID	County	District	Quadrangle
2) Operator's	Well Num	ber: J.S.	COCHRAN 6H-A		3) Elevation:	1,215	
4) Well Type:	(a) Oil_X	or G	as_X				
	(b) If Gas:	Prod	uction X / Unde	erground Sto	orage		
			p/ Sh				
) Proposed T	arget For	mation(s): BIG INJUN		Proposed Ta	rget Depth: 2	2100'
) Proposed T			Feet For a depths: 200'	ormation at	Proposed Tot	al Depth: INJI	JN
) Approximate							
) Approximate	e coal soc	am donth	s: NO COAL LIS	TED ON TIT	TE:		
				LG1.32.1	LL		
)) Approxima	ate void de	epths,(co	al, Karst, other): _	NONE			_
1) Does land	contain c	oal seam	ns tributary to activ	e mine? N	IONE		
							-
2) Describe pr	oposed we	ell work a	nd fracturing method	ds in detail (a	ittach additiona	al sheets if nee	eded)
E PLAN TO F	RUN THE	PACKE	LOW HORIZONT	HOWEVER	IF THE LATE	FRAC PLAN	ATTACHED
IS, WE WILL RI	UN CEMEN	T TO SUE	REACE LISING THE W	EATHERFOR	D WET SHOES	SYSTEM AND P	ERFORATE
3)	1/	118 14	Land to the same of the same o				
11011111	SPECIFIC		WITH THE PARTY OF	<u>NG PROGR</u> FOOTAGE	<u>IAM</u> INTERVALS	S CEMEN	IT
	Size	Grade	AND REAL PROPERTY OF THE PARTY	or Drilling	Left in Well	Fill -up (Cu.	
Conductor	13"	LS	43.6 LBS	30	30	CTS	1 1.1
resh Water	9 5/8"	LS	26 LBS	400'	400'	CTS	
Coal					,,,,,		
ntermediate	7"	J-55	20 LBS	1775'	1775'	CTS	eived
Production			1			200	3617
Гubing	4 1/2"	N-80	11.6 LBS	5143'	5143'		Control of the Control
iners					-,,,,	J. Off GOND	Office at Dil and Gas Office at Dil and Gas
Packers: Kind	4.						Office of Oil amental
Size	-					3 1/10	pept. of Ell
	ths Set					A.	



Cochran #6H-A Frac Design

- 15 Stages (every 200' in the lateral)
- 300 bbl Water/Stage
- 25,000 lbs Sand/Stage
- 30 bbl/Minute Downhole Rate
- Frac Pressure will be limited to 3500 psi

Areas adjacent to existing wells will not be fracked to avoid well-to-well communication.

RECEIVED
Office of Oil and Gas

JUL 8 2014

Environmental Protection



LEGEND

_	King 6A, OH, OH V
_	King A5, OH, OH V
_	#6, OH, OH V0
	UD OTO4 OTO4 1/0

#6, ST01, ST01 V0

#5, OH, OH V0
#4, OH, OH V0

- Plan #3

Well	API
Cochran #4	47-1502897
Cochran #5	47-1502896
Cochran #6	47-1502895
King #5	47-01502882
King #6	47-01502881

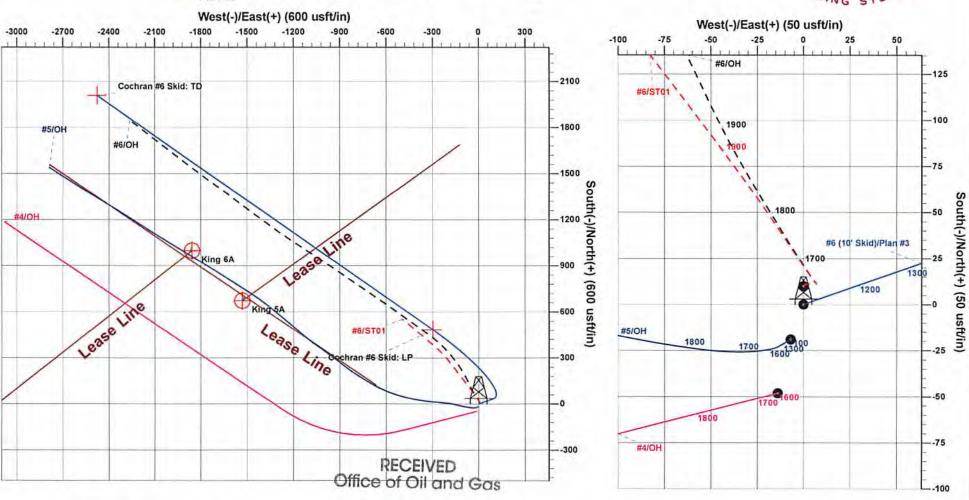
Company: Cunningham Energy, LLC 2

Project: Clay County, WV Site: Cochran Pad

Well: #6 (10' Skid)

Wellbore: OH Design: Plan #3





PROJECT DETAILS: Clay County, WV

Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS)

Ellipsoid: Clarke 1866

Zone: West Virginia South 4702 System Datum: Mean Sea Level JUL 1 5 2014

WV Department of Environmental Protection

Plan: Plan #3 (#6 (10' Skid)/OH)

Created By: Matthew May

Date: 13:23, July 11 2014



Company: Cunningham Energy, LLC 2

Project: Clay County, WV

Site: Cochran Pad Well: #6 (10' Skid)

Wellbore: OH Design: Plan #3



2000

South(-)/North(+) (800 usft/in)

400

S

C

290

West(-)/East(+) (800 usft/in)

-1200

-2400

#6/OH

#4/OH

-2000

Cochran #6 Skid: TD

-1600

King 6A

King 5A

WELL DETAILS: #6 (10' Skid)

	Rig Name:	Cunning	ham #8 RKB	= 12' @ 1227.00usft (Cunni	ingham #8)
+N/-S 0.00	+E/-W 0.00	Northing 519888.00	Ground Level: Easting 1936713.98	1215.00 Latittude 38° 25' 39.173 N	Longitude 81* 13' 15.298 W

SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	Mossi	
1	0.00	0.00	0.00	0.00	0.00	0.00				Target
2	1000.00	0.00	0.00	1000.00	0.00	0.00	0.00	0.00	0.00	
3	1166.67	15.00	70.55	1164.77	7.22	20.46	9.00	0.00	0.00	
4	1464.12	15.00	70.55	1452.09	32.86	93.05	0.00	70.55	-11.34	
5	2463.64	91,33	305.00	2095.27	482.89	-299.15	10.00	-124.33	-51.59	0 1 10 00000
6	5125.00	91.33	305.00	2033.57	2009.03	-2478.58	0.00	0.00	536.46 3190.54	Cochran #6 Skid: LP
							0.00	0.00	3130.34	

DESIGN TARGET DETAILS

Name Cochran #6 Skid: TD Cochran #6 Skid: LP	TVD 2033.57 2095.27	+N/-S 2009.03 482.89	+E/-W -2478.58 -299.15	Northing 521902.93 520371.60	Easting 1934240.19	Latitude 38° 25' 59.033 N	Longitude Shape 81* 13' 46.448 W Point
- same in a single set	2000.21	402,00	-200.10	520371.00	1936415.98	38° 25′ 43.947 N	81" 13' 19.057 W Point



#6/ST01

Cochran #6 Skid: LP

Azimuths to True North Magnetic North: -7.98°

Magnetic Field Strength: 51898.3snT Dip Angle: 66.19° Date: 6/8/2014 Model: IGRF2010

1112000

Plan: Plan #3 (#6 (10' Skid)/OH)

Created By: Matthew May

Date: 9:08, June 09 2014

PROJECT DETAILS: Clay County, WV LEGEND Geodetic System: US State Plane 1927 (Exact solution)
Datum: NAD 1927 (NADCON CONUS) Ellipsoid: Clarke 1866 Zone: West Virginia South 4702 King 6A, OH, OH VO System Datum: Mean Sea Level King A5, OH, OH VO 1000 Start Bulld 9.00 - #6, OH, OH VO - #6, ST01, ST01 V0 - #4, OH, OH VO Start 297.45 hold at 1166.67 MD 1250 - Plan #3 True Vertical Depth (500 usft/in) Start DLS 10.00 TFO -124.33 Start 2661.36 hold at 2463.64 MD Cochran #6 Skid: TD #6/OH TD at 5125.00 #6/ST01 2000 Cochran #6 Skid: LP 1500 1750 2250 2750 2500 3000 3250 Vertical Section at 309.03° (500 usft/in)

WW-	2A
(Rev.	6-07)

Date: JUNE 13, 2014

2.) Operator's Well Number JS COCHRAN 6H-A

State County Permit

15

3.) API Well No .:

47-

Zunty Fermi

STATE OF WEST VIRGINIA DEPARTMENT OF ENVIRONMENTAL PROTECTION, OFFICE OF OIL AND GAS NOTICE AND APPLICATION FOR A WELL WORK PERMIT

	wner(s) to be served:		5) (a) Coal Oper	ator		
(a) Name	CUNNINGHAM ENERGY	LLC IN FEE	W Name	2774		
Address	1412 SATTES CIRCLE		Address			
	NITRO, WV 25143					
(b) Name			(b) Coal Ow	ner(s) with Decla	ration	
Address			Name	ner(s) with Decia	iation	
			Address			
			Address			
(c) Name			Name			
Address	•		Address			
71001033			Address			
6) Inspector	ED GAINER		- /-/ 0//	Acres No. Borney		
Address	P.O. BOX 821			see with Declara	tion	
Address			Name			
Talanhana	SPENCER, WV 25276		Address			
Telephone	304-389-7582					
1. 3.7.7.35	TO THE PE	ERSONS NA	MED ABOVE TAK	KE NOTICE THA	T:	
OR Included is I	he lease or leases or ot	her continuing	contract or contract	s by which I hold t	he right to	extract oil and gas
1 certify	he information required that as required under cation plat, and accompa Personal Service	Chapter 22-6 anying docum	of the West Virginia	a Code I have se	ved conie	s of this notice on
I certify application, a local application, a local application is sued under this application to the infection obtaining the infection is am aways.	that as required under cation plat, and accompany Personal Service X Certified Mail (Po Publication (Notice and understand Characters)	Chapter 22-6 anying docum (Affidavit atta stmarked pos ce of Publicatio apter 22-6 and at I have pers s, and that ba he information	of the West Virginiants pages 1 through the ched) stal receipt attached) on attached) d 35 CSR 4, and I assed on my inquiry on is true, accurate an	a Code I have seen on the above agree to the terms d am familiar with of those individual d complete.	e named positions and concerns immedia	s of this notice an arties by: ditions of any perm nation submitted o tely responsible fo
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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

185		DMAIL™ RI	e Coverage Provided)	
75	For delivery informa	ation visit our webs	Ite at www.usps.com	
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7012	or PO Box No. 1484	Shalton	Pd	./
	City, State, ZIP+4 BOA	ont. W	25D3D	V
	PS Form 3800, August 2	006	See Reverse for Instructions	

Received

JUN 18 2014

Office of Oil and Gas
WV Dept. of Environmental Protection
07/18/2014

		SURFACE OWNER WAIVER	
County	CLAY		CUNNINGHAM ENERY, LLC
		Operator well number	JS COCHRAN 6H-A

INSTRUCTIONS TO SURFACE OWNERS NAMED ON PAGE WW2-A

The well operator named on page WW2A is applying for a permit from the State to do oil or gas well work. (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 FIFTEEN (15) 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 a dequate 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.

<u>List of Water Testing Laboratories.</u> The Office maintains a list of water testing laboratories which you can hire to test your water to establish water quality prior to and after drilling. Contact the Chief to obtain a copy.

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 Well Work Permit on Form WW2-A, and attachments consisting of pages 1 through ____ including a work order on F orm WW2-B, a s urvey plat, and a s oil and erosion plan, all for proposed well work on my surface land as described therein.

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 NATUR	AL PERSON	FOR EXECUTION BY A CORPORATION, ETC.			
Signature	Date	Company Name By Its	JBN 18 2014 JBN 18 2014 JBN 18 2014 Confice of Dates And Projection Chapter Projection		
Print Name		Signature	N Schriftingheum Date		

INFORMATION SUPPLIED UNDER WEST VIRGINIA CODE Chapter 22, Article 6, Section 8(d) IN LIEU OF FILING LEASE(S) AND OTHER CONTINUING CONTRACT(S)

Under the oath required to make the verification on page 1 of this Notice and Application, I depose and say that I am the person who signed the Notice and Application for the Applicant, and that –

- (1) the tract of land is the same tract described in this Application, partly or wholly depicted in the accompanying plat, and described in the Construction and Reclamation Plan;
- (2) the parties and recordation data (if recorded) for lease(s) or other continuing contract(s) by which the Applicant claims the right to extract, produce or market the oil or gas are as follows:

Grantor, Lessor, etc.	Grantee, Lessee, etc.	Royalty	Book/Page
ALVIN ENGELKE, AGENT	CUNNINGHAM ENERGY	1/8	21/1065; 21/1189

See attached.

Acknowledgement of Possible Permitting/Approval In Addition to the Office of Oil and Gas

The permit applicant for the proposed well work addressed in this application he reby a cknowledges the possibility of the need for permits and/or approvals from local, state, or federal entities in addition to the DEP, Office of Oil and Gas, including but not limited to the following:

- WV Division of Water and Waste Management
- WV Division of Natural Resources
- WV Division of Highways
- U.S. Army Corps of Engineers
- U.S. Fish and Wildlife Service
- County Floodplain Coordinator

The applicant further acknowledges that any Office of Oil and Gas permit in no way overrides, replaces, or nullifies the need for other permits/approvals that may be necessary and further affirme that all needed permits/approvals should be ac quired from the appropriate aut hority before the affected activity is initiated.

Well Operator: By:Its:

MENTSER

07/18/2014

Unnivery in the guill

Grantor, Lessor, Etc	Grantee, Lessee, etc	Royalty	Book/Page
Alvin Engelke, Agent	Cunningham Energy, LLC	3/24	21/1065;21/1189
Scott Howie Thompson	Cunningham Energy, LLC	3/24	27/83;1/221;16/205;19/382;21/870;21/1065;21/1189
Chessie Conor, heirs	Cunningham Energy, LLC	3/4	213/71; 213/98; 213/100

WW-2B1 (5-12)

Well No. JS COCHRAN 6H-A

West Virginia Department of Environmental Protection Office of Oil and Gas

NOTICE TO SURFACE OWNERS

The well operator named below is preparing to file for a permit from the state to drill a new well. Before a well work permit can be filed with the Chief of the Office of Oil and Gas, the well operator is required to have given notice of the right to request water well or spring analytical testing. This notice shall be given to the owners or occupants of land which have a water well or spring being utilized for human consumption, domestic animals, or other general use and which is located within 1000 feet of the proposed well site.

With this form, the operator is giving you notice of your right to request analytical testing. The operator is required to sample and analyze the water wells or springs of all owners or occupants who request it. Therefore, if you wish to have your water well or spring tested, contact the operator named below.

All sampling shall be completed prior to drilling. Within thirty (30) days of the receipt of such sample analyses the operator shall submit the results to the Chief of the Office of Oil and Gas and to the owners or occupants who may have requested them.

Be advised, you have the right to sample and analyze any water supply at your own expense.

Listed below is the laboratory chosen by operator to perform analysis, and contactor chosen to collect sample.

Certified Laboratory Name STURM ENVIRONMENTAL

Sampling Contractor

HUPP SURVEYING

Well Operator CUNNINGHAM ENERGY, LLC

Address

3230 PENNSYLVANIA AVENUE

CHARLESTON, WV 25302

Telephone

304-344-9291

FOR OPERATOR'S USE ONLY: Below, or on an attached page, list those persons which were given this notice. Place an asterisk beside the one(s) that contacted you and requested sampling and analyses. If there were no requests made, indicate by underling which one you have selected to sample and analyze. If there are no water wells or springs within 1000 feet of the proposed site, the Chief may require the operator to test wells up to 2000 feet from the proposed site.

1 - See attachment

Received Office of CN and take 07/18/2014

HUPP Surveying & Mapping P.O. BOX 647

GRANTSVILLE, WV 26147

(304) 354-7035 hupp@frontiernet.net FAX: (304) 354-6548

June 17, 2014

RE: Water Samples for J.S. Cochran #6H-A

There appears to be one (1) potable water sources within 1,500' of J.S. Cochran #6H-A, therefore tests should be offered and samples taken as required.



 Thomas Rickmers 1484 Shelton Rd. Bomont, WV 25030 Tax Map 18 Parcel 4

Received

JUN 12 2014

Office of Oil and Gas
WV Dept. of Environmental Profestion
07/18/2014

Form W-9

CUNNINGHAM ENERGY J.S. Cochran #6H-A Water

Page 1 of 1



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH:(304)354-7035 E-MAIL: hupp@frontiernet.net 1" = 1000' Elkhurst Quad Cunningham Energy, LLC.

3230 Pennsylvania date.
Charleston of Environmental Protection

Wy Dept. of Environmental 2014

WW-9
(5/13)

	Page	of	
API Number 47 - <u>15</u>			
Operator's Well No). JS COCHRAN 6	+ A	

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

FLUIDS/ CUTTINGS DISPOSAL & RECLAMATION PLAN

Operator Name_ CUNNINGHAM ENERGY, LLC OP Code 494508594
Watershed (HUC 10) TRIBUTARY OF WADE FORK Quadrangle ELKHURST 7.5'
Elevation 1,215' County CLAY District UNION
Do you anticipate using more than 5,000 bbls of water to complete the proposed well work? Yes No Will a pit be used for drill cuttings? Yes _ X No If so, please describe anticipated pit waste: DRILL CUTTING, FLUIDS FROM DRILLING AND FRACTURING Will a synthetic liner be used in the pit? Yes _ X No If so, what ml.? 30 MIL. Proposed Disposal Method For Treated Pit Wastes: Land Application Underground Injection (UIC Permit Number 2D0392210 - IF NEEDED Reuse (at API Number Off Site Disposal (Supply form WW-9 for disposal location)
Will closed loop system be used? NO
Drilling medium anticipated for this well? Air, freshwater, oil based, etc. AIR; FRESHWATER
-If oil based, what type? Synthetic, petroleum, etc
Additives to be used in drilling medium? SOAP; KCL and/or CLAY STABILIZER
Drill cuttings disposal method? Leave in pit, landfill, removed offsite, etc. LEAVE IN PIT/HAUL IF NEEDED
-If left in pit and plan to solidify what medium will be used? (cement, lime, sawdust) CEMENT & LIME
-Landfill or offsite name/permit number? CITY OF CHARLESTON LANDFILL
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 Company Official (Typed Name) RANE. M. CUNNINGHAM
Company Official (Typed Name) REAN E. M. CUNNINGHAM
Company Official Title PRESIDENT Office of Oil and Gas Office of Oil and Oil a
Subscribed and sworn before me this 13th day of JUNE , 20 14
My commission expires 06/13/2014 Notary Public No

Operator's Well No. J.S. COCHRAN 6H-A

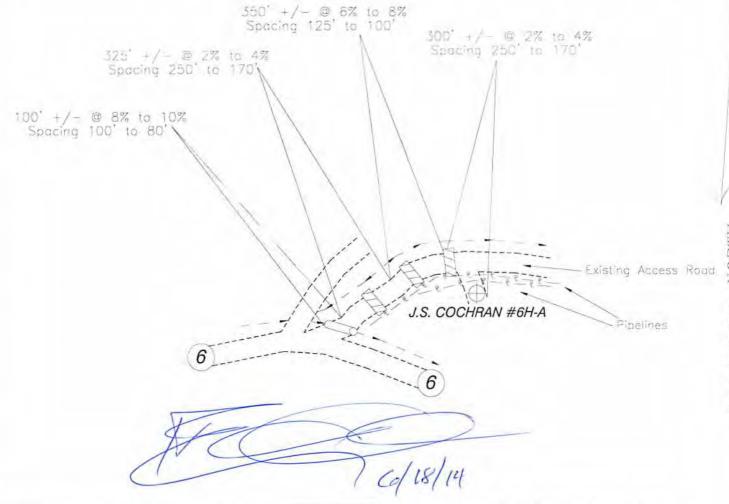
Proposed Revegetation Treatment: Acres Disturbed	2.8	Prevegetation	n nH
Lime 3 Tons/acre or to correct to pH	6.5	i revegetation	
1/2 TON	acre (500 lbs m	inimum)	
Seed	Mixtures		
Seed Type Area I KY-31 40	ORCHIE	Seed Type O GRASS	Area II lbs/acre 15
ALSIKE CLOVER 5	ALSIKE	CLOVER	5
ANNUAL RYE 15			
Attach: Drawing(s) of road, location,pit and proposed area for land appli Photocopied section of involved 7.5' topographic sheet. Plan Approved by:	ication.	T/	
Drawing(s) of road, location,pit and proposed area for land application of involved 7.5' topographic sheet.		Alace	at all
Drawing(s) of road, location,pit and proposed area for land application of involved 7.5' topographic sheet. Plan Approved by: Sedment control		Alace	at all
Drawing(s) of road, location,pit and proposed area for land application of involved 7.5' topographic sheet. Plan Approved by: Sedment control	ol in	6/18/14	at all

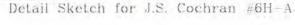
JUN 1 2014
Office of Oil and Gas

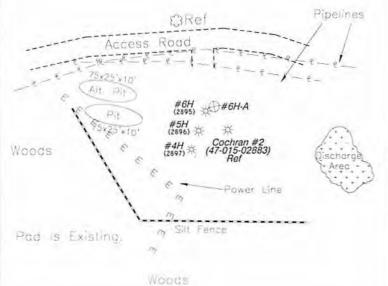
Office of Oil and Gas ANY Dept. of 07/18/2014 Form W-9

CUNNINGHAM ENERGY, LLC. J.S. COCHRAN #6H-A

Page 1 of 1







Rada is Ar Existing Access Road. Ungrade Ordinage Devices Where Needed. Pad is Existing.

Install Minimum 12' Culvert

THE AND STACK ALL THESE AND IN ISSUES AND STANDING THE CONTRACTOR

STACK DRUCK BLOOK LOCATION FOR SECUMENT CONTROL

WV Dept. of Environmental Protection
Job Number: Office of Oil and Gas HUPP Surveying & Mapping Drafted BY: Date Drafted: P.O. BOX 647 GRANTSVILLE, WV 26147 06/17/14 DB PH:(304)354-7035 E-MAIL; hupp@frontiernet.net W20122136

Form W-9

CUNNINGHAM ENERGY J.S. Cochran #6H-A

Page 1 of 1



HUPP Surveying & Mapping

P.O. BOX 647 GRANTSVILLE, WV 26147 PH:(304)354-7035 E-MAIL: hupp@frontiernet.net 1" = 1000' Elkhurst Quad Cunningham Energy of Oil Land Gas
3230 Pennsylvanide Environmental Protection
Charleston, WV 25302

07/18/2014



Mr. Jeffrey McLaughlin WV DEP Office of Oil and Gas

> Addendum to J.S. Cochran 6H-A API: 47-01502901

Mr. McLaughlin:

WELLS WITH *

OF SUBJECT WELLBOAR

The following wells were identified for plugging and at this point have been plugged.

King #1 - 47-01502886.

*King #4 - 47-01502894.

The following wells are producing wells at the same elevation that we have removed all surface equipment from and replaced with valves which we will monitor during both drilling and fracking:

Harshbarger 1A - 47-01502884

J.S. Cochran #1 - 47-0150684

J.S. Cochran #2 - 47-01502883

*J.S. Cochran #3 - 47-01502888

King #5 - 47-01502882

*King #6 - 47-01502881

King #14 - 47-01502890

*Young #2 - 47-0150688

*Connell Heirs #18 – 47-0150708 – We are working with Rouzer on this monitoring.

*King #1 – 47-01500704 – We have sent notice to Charles Young via Certified Mail on 5/12/2014 and are working with him to proceed with this monitoring this well.

In the opinion of Jim Rose, Petroleum engineer with Producers Service Corp, the treating pressures will be around 3500 psi. They will be using small stages at low rates.

All other third party wells were identified and producers were previously contacted.

RECEIVED
Office of Oil and Gas

JUL 1 5 2014

WV Department of Environmental Protection Sincerely,

Danielle Boggs

Cunningham Energy, LLC

