

west virginia department of environmental protection

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

Wednesday, April 19, 2017 WELL WORK PERMIT Vertical / Plugging

ROSS AND WHARTON GAS COMPANY, INC. (A) RT. 5, BOX 29

BUCKHANNON, WV 262010000

Re: Permit approval for 47-007-01348-00-00

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

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

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

James A. Martin Chief

Operator's Well Number: Farm Name: FRAME, CHARLES J. & MARY L. U.S. WELL NUMBER: 47-007-01348-00-00 Vertical / Plugging Date Issued: 4/19/2017

Promoting a healthy environment.

PERMIT CONDITIONS

West Virginia Code §22-6-11 allows the Office of Oil and Gas to place specific conditions upon this permit. Permit conditions have the same effect as law. <u>Failure to adhere to the specified permit</u> 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.

701348P

701348 P

WW-4B Rev. 2/01		1)Date February 16 , 2017 2)Operator's
		Well No. Engel, Dana #2 3) API Well No. 47-007 - 01348
		5/ATT WEIT NO. 4/-00-0000
	DEPARTMENT OF ENVI	VEST VIRGINIA IRONMENTAL PROTECTION OIL AND GAS
	APPLICATION FOR A PER	RMIT TO PLUG AND ABANDON
4) Well Type:	Oil / Gas X / Liqui	d injection / Waste disposal /
		nderground storage) Deep/ Shallow_X
5) Location: E		Watershed Left Fork Steer Creek
D	istrict Otter	County Braxton Quadrangle Gassaway (7.5')
() Mall Operato	r Ross & Wharton	7)Designated Agent Mike Ross
6) Well Operato Addres		Address PO Box 219
Tiddi CD	Buckhannon, WV 26201	Coalton, WV 26257
	지수 것이 같아요. 이번 바이 가지 않는 것이 나라 나라 나라 나라 가지 않는 것이 많이 나라 나라.	9)Plugging Contractor
Name Dann		Name_Unknown
Carl Max - Share Dag	20 Jack Acres Road	Address
	11-1-1- 1AA/ 00004	
	uckhannon, WV 26201 The work order for the mar	mer of plugging this well is as follows:
 Work Order: 4889 - TD 4889 - 4740 S 3250 - 3150 2850 - 2750 2250 - 2150 1850 - 1750 	The work order for the mar Run 6 Set Cement Plug Set Cement Plug Set Cement Plug Set Cement Plug Set Cement Plug	6% Gel between each plug <u>Sw@ 910'950'</u> four 85%, cut + POOH. (~ 2000') 100' CEMENT PLUC ACROSS THE CASING CUT.
 Work Order: 4889 - TD 4889 - 4740 S 3250 - 3150 2850 - 2750 2250 - 2150 1850 - 1750 	The work order for the mar Run 6 Set Cement Plug Set Cement Plug	6% Gel between each plug four 8 ⁵ /6", cut + POOH. (~ 2000') 100' CEMENT PLUC ACROSS THE CASING CUT. - 682. SEPARATE SU ZONE FROM FRESH WATER ZO Install Monument with API Number
10) Work Order: 4889 - TD 4889 - 4740 S 3250 - 3150 2850 - 2750 2250 - 2150 1850 - 1750 1150 - 1050 Sec 150 Class A C 100 - 0 Set Ce	The work order for the mar Run 6 Set Cement Plug Set Cement Plug	6% Gel between each plug four 85%, cut + POOH. (~ 2000') 100' CEMENT PLUC ACROSS THE CASING CUT. - 682. SEPARATE SU ZONE FROM FRESH WATTER ZO Install Monument with API Number Office of OH ED
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04/21/2017

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[08-7	8					ELL OPERATOR		ADT BAN	
		DRI	LLIN.,	FRACT	:R1N3	AND/OR STIM	'LATINO, CR EN	MEL TAL CHANGE	CELVED-1
WELL TYPE:	011	/	Gas X	1	Linu	d Intention	2 112-01	Disposal /	FEB 2 1979
								Disposal/	
LOCATION:	Eleva	tion:	1103.0	00	-	Watershed -	Left Fork Si	Deep	. OF MINES
									saway (7.5')
UFIL OPPOIN									
WELL OPENAT	OR Texa	is Inte	rnatio	nal P	etro	leum Corp.	DESIGNATED /	AGENT James M.	Blanton
Addres	s Suit	e 300	- 3535	N.W.	58t.	h Street	Address	<u>Suite 740 -</u>	One Valley Square
	Okla	homa C	1ty, 0	klaho	ma	73112		Charleston,	West Virginia 2530)
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	5	lug of	f old f	ormati	lon	/ Perfor	rate new forma	ation /	- server grandine
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IF APPLICA	BLE:	PLUGGIN	G OF DR	Y HOL	E ON			N3PECTOR FOR TH: Robert Bates	
CONTIN	UOUS PI	ROGRESS	ION FRO	M DRII	LLING	OR			Virginia 26452
			. 19			197 A.	Address	west V	11g101a 26452
EOLOGICAL '					Bens	on		Denth A5	30 tee.
Depth a	of comp	leted	well, _	5440		feet R	otary X /	Cable Tools	
						et; salt			
Work we	as comm	enced	August			Is coal t	being mined in	the area? <u>No</u>	¹⁹ .78
Work we Casing and 1 Casing or	as comm FUBING	PROGRAM	August M IFICATI	22 ONS		Is coal t , 19 <u>78</u>	peing mined in , and complete INTERVALS	d September 2	
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FORM IV-35 (Reverse)

[08-78]

11.

DETAILS OF PERFORATED INTERVALS, FRACTURING OR STIMULATING, PHYSICAL CHANOE, ETC. Perforated Benson @ 4777-4782 w/21 shots. Spotted 500 gallons 15% HCl. Loaded hole, broke Benson w/700 PSI. Fraced w/887 bbls. gelled water, 20,000# 80/100, 50,000# 20/40 sand. AIP -1100 PSI, AIR - 30 BPM, ISIP - 400 PSI. Set frac plug @ '3323'. Perforated Balltown @ 3230-32, 55 shots; 3239-41, 5 shots; 3246-48, 5 shots; 3264-66, 5 shots; 3294-97, 7 shots. Spotted 500 gallons 15% HCl. Broke Balltown w/650 PSI. Balled out w/35 ballś in 1000 gallons 15%. Knocked balls off w/bailer. Fraced w/805 bbls. gelled water, 20,000# 80/100 sand, 50,000# 20/40 sand. AIP - 750 PSI, AIR - 24 BPM, ISIP - 500 PSI. Set frac plug @ 2850'. Perforated Bayard @ 2819-27, 17 shots. Spotted 500 gallons 15% HCl. Broke Bayard w/900 PSI. fraced w/625 bbls. gelled water, 20,000# 80/100 and 50,000# 20/40 sand. AIR - 30 BPM, AIP -1600 PSI, ISIP - 800 PSI. Perforated Squaw @ 2242-51, 19 shots; 2255-61, 13 shots. Set frac plug. Spotted 500 gallons 15% HCl. Broke Squaw w/1000 PSI. Fraced w/700 bbls. gelled water, 10,000# 80/100 and 60,000# 20/40 sand. AIP - 31 BPM, ISIP - 800 PSI. WELL LOG

FORMATION	Color	llard or Soft	3 Top Feet	Bottom Feet	Agaarks Including indication of all fresh and salt water, coal, oil and ja
Fill			0	5	2" Stream
Sand & Shale			5	40	2 Stream
Sand - white		1	40	60	
Sand & Shale			60	90	
Sand - white			90	120	
Sand & Shale		1	120	130	
Red Rock	S		130	141	
and - white			141	150	
Red Rock			150	160	
Sand & Shale	1 1 1	1	160	184	
led Rock		1. S	184		
and & Shale			190	190	
led Rock	4		235	235	
and & Shale	1	1 I I I I I I I I I I I I I I I I I I I	240	240	1
and			384	384	
and & Shale			414	414	
and	31	1.1	414	474	
and & Shael				516	
and			516	539	
and & Shale			539	566	
and			566	585	
and - white			585	680	
and & Shale	1	l.	680	735	
hale		6UL 13	735	890	
and & Shale			890	904	
and	1 1	(I	904	910	the second s
and & Shale			910	950	12" Salt water @ 926.
lack Shale			950	1083	
and			1083	1086	
ale	1 1		1086	1221	
and			1221	1259	
nale	1		1259	1311	
and & Shale	1 1		1311	1332	
ind d Share			1332	1402	
and & Shale		1	1402	1472	
nd a share			1472	1503	
nd & Shale	1 1		1503	1518	
and a suare			1518	1823	

REG International Petroleum Corporation ames M Blantm. De Oil and Gas Operator Division Manager Franking Department of By Its Environmental Protection

<u>NOTE</u>: Regulation 2.02(i) provides as follows:

"The tern 'log' or 'well log' shall mean a systematic, detailed geologial record of all formations, including coal, encountered in the drilling of a well."

04/21/2017

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WELL LOG (Continued)	í V		PECEIVED
Formation	Top Feet3	Bottom Feet	FEB 8 1 1979
Sand	1823	1892	
Sand & Shale	1892	1928	OIL & GAS DIVISION
Little Lime	1928	1955	. OF MINES
Shale	1955	1958	
Sand	1958	1964	
P. Cave	1964	1972	
Big Lime	1972	2172	
Injun	2172	2207	
Shale	2207	2236	
Sand	223 6	2273	
Sand & Shale	2273	2311	
Shale	2311	2401	
Sand & Shale	2401	2906	
Sand	2906	2948	
Shale & Sand	2948	3189	
Sand	3189	3266	
Sand & Shale	3266	3904	
Shale	3904	4343	
Sand & Shale	4343	5440 1	F.D.

22 47.002 , 54,8

REGEIVED Office of Oil and Gas MAR 0 6 2017 W/Department of Environinental Protection

04/21/2017

701348 P

DECEIVE

AUG 2 > 1978

CH. E GAS DIVISION

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

Permis No. 1914 x - 1348			Oil of	Gas Well
Company Texas Inturn Patroleum Corp	CASING AND TUBING	USED IN DRILLING	LEFT IN WELL	PACKERS
AddressCharleston W.V	Sizu			
Farm_ Dana S Engel.	16			Kind of Packer
Well No	13			Size of
Districe_OtterCounty_Braxton	su			
Deilling commenced <u>8-21-78</u>	G‡ <u>.</u>	1		Depth set
Drilling completedTotal depth	5 3/16	((
Date shotDepth of -ho*	3 2			Perf. top Pesf. bottom
initial open flow/19ths Water inInch	Liners Uzed			Perf. top
Open flow after tubing/10ths Mcrc. inInch				Perf. bottom
VolumeCu. Ft.	CASING CEME	NTED 88		1' No. FT 8- 22-78
lock pressurelbshrs.	NAME OF SER		. 1	liburton
Dilbbls., 1st 2; hrs.	COAL WAS EN	COUNTERED	۸T	_FEETINCHES
Fresh waterfeetfeet	FEET.	INCF	IES	_FEETINCHES
Sult water 926 feet feet	FEET.	INCF	IES	_FEETINCHES
Drillers' NamesGYDVES4	Iterman		McVi	i. car
	act: Rig #	1	- -	
Remarks: Depth 950'; will the salt wat	1*		CO.MAR -	

<u>9-24-78</u>

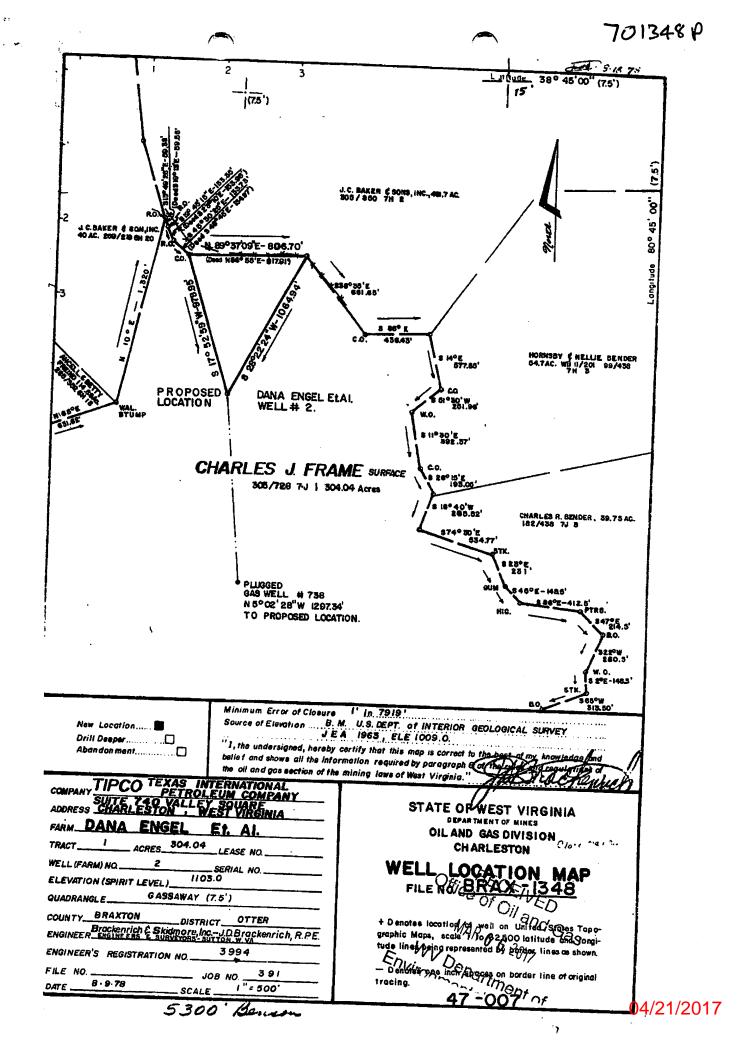
Bbert Bates 501 DISTRICT WELL INSPECTOR

04/21/2017

06-11

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701348P

WW-4A	
Revised	6-07

Date: February 16, 2017
 Operator's Well Number
 Engel, Dana #2

3) API Well No.: 47 - 007 - 01348

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

4)	Surface Own	er(s) to be served:	5) (a) Coal Operator	
	(a) Name	Charles J. Frame Jr. &/or Mary L.	Name	N/A
	Address	123 Ferry Road	Address	
		Fredericksburg, VA 22405		
	(b) Name		(b) Coal Owr	ner(s) with Declaration
	Address		Name	N/A
			Address	
			N.	
	(c) Name		Name	
	Address		Address	
6)]	Inspector	Danny Mullind	(c) Coal Less	see with Declaration
	Address	220 Jack Acres Road	Name	N/A
		Buckhannon, WV 26201	Address	
	Telephone	304-932-6844		

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	Ross & Deater (Mike Agess Inc.)
By:	Muke noss
Its:	President
Address	PO Box 219
	Coalton, WV 26257
Telephone	304-472-4289
	Office of Office
Subscribed and sworn before me this 16h da	y of February, 2017
My Commission Expires September 27, 2020	6 2BRENDA K BUSH
Oil and Gas Privacy Notice	Environment September 27, 2020

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 permal 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 <u>depprivacyoffier@wv.gov</u>.

Mike Ross Inc.

(304) 472-4289 (Office) Box 219 Coalton, WV 26257 (304) 472-7405 (Fax)

February 16, 2017

Charles &/or Mary Frame 123 Ferry Road Fredericksburg, VA 22405

Re: Engel, Dana #2 Plugging Permit

Dear Charles &/or Mary:

Mike Ross Inc. is in the process of applying for a permit to plug the above referenced well. Enclosed are copies of the Notice and Application for well plugging permits and the location plats.

Please note the instructions on the surface owner waiver. If you have no objection to the plugging being done, please sign the waiver and return it to our office.

If you have any questions, please do not hesitate to contact this office.

Thank you,

ke has

Mike Ross Inc.

	For delivery information, visit our website at www.usps.com*.
	OFFICIAL USE
1 9	Certified Mail Fee
	The services & Fees (check box, add fee as appropriate) fice of Oil and Gas
	Return Receipt (electronic) \$ Postmark
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2	Charles &/or Mary Frame
ļ,	123 Ferry Road
1°	Fredericksburg, VA 22405 04/21/20

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WW-9		Page	of
Rev. 5/08		API Number 47 - 007	_ 01348
		Operator's Well No. Engel, Da	ina #2
	STATE OF WEST VI DEPARTMENT OF ENVIRONME OFFICE OF OIL AI	INTAL PROTECTION	
	AND RECLAMATION PLAN AND SI ENERAL PERMIT FOR OIL AND GAS		ION FORM
Operator Name Ross & Wha	rton (Mike Ross Inc.)	OP Code _ 305680	
Watershed Left Fork Steer C	reek Quadr	angle Gassaway (7.5')	
Elevation 1103	County Braxton	District Otter	
Description of anticipated Pit W	aste: Plugging Fluid		
Will a synthetic liner be used in	the pit? Yes	NO PIT	STEEL TANKS
		EFFLUENT WI	ED. ANY WELL LL BE DISPOSED OFFSITE. gave
Off S	ite Dispposal (Supply form WW-9 for di (Explain	isposal location)	
Proposed Work For Which Pit V			
Drilli		Swabbing	
Work	over X	Plugging	
	· (Explain		

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.

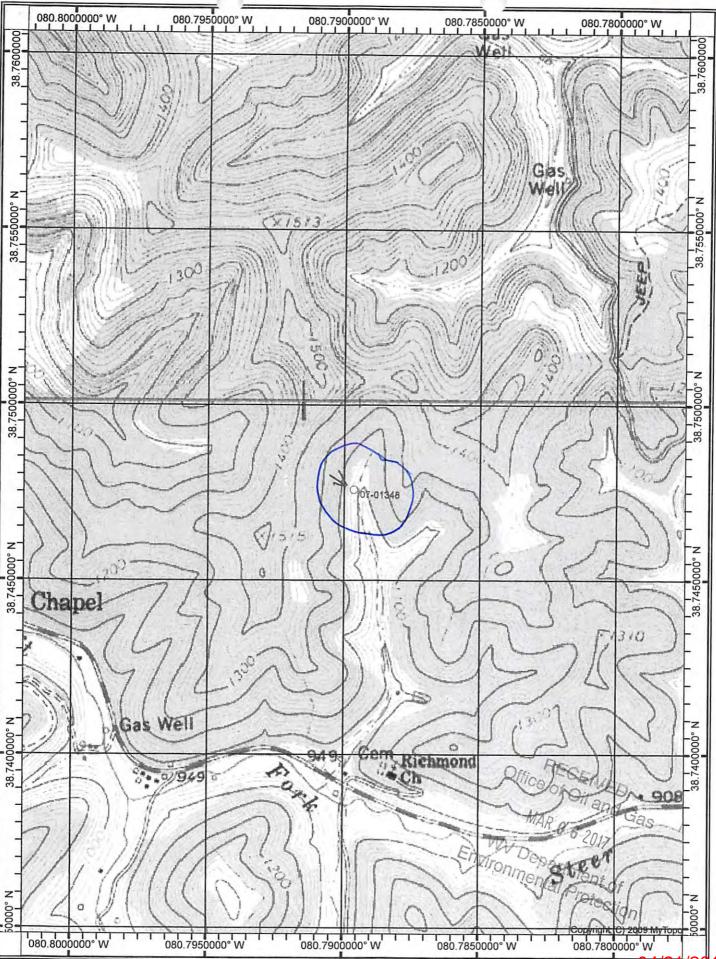
Company Official Signature Marker Ross	
Company Official (Typed Name) Mike Ross	Circu.
Company Official Title President	Office of OWED
401 5 1	MAR Q.G.
Subscribed and sworn before me this 16th day of February	N2p 17 0 2017
Brendak Bush	Environmental Proto
My commission expires September 27, 2020	Environment of Notory Publical Protection of Notory Publical Protection of State of West Virginia BRENDA K BUSH 20 GUM STREET BUCKHANNON, WV 26201 My Commission Expires September 27, 2020
	04/21/2017

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Operator's Well No. Engel, Dana #2

LEGEND	
Property Boundary	Diversion
Road = = _ = = = = = = = = = = = = = = = =	Spring O
Existing Fence — X — X — X —	Wet Spot 🖒
Planned Fence / / /	Drain Pipe with size in inches (2)
Stream	$W_{aterway} \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow \longleftrightarrow$
Open Ditch	Cross Drain 777777777777777777777777777777777777
Rock	Artificial Filter Strip
North N	Pit: cut walls
Buildings	Pit: compacted fill walls
Water wells	Area for Land Application of Pit Waste
Drill site	
Proposed Revegetation Treatment: Acres Disturbed 1 Acre	Prevegetation pH 6.5
Lime 2 Tons/acre or to correct to pH _	6.5
Fertilizer (10-20-20 or equivalent) Ibs/acre (500 lbs minimum)	
MulchTons/acr	e
Seed Mixtures	
5000	
Area I Seed Type Ibs/acre	Area II Seed Type lbs/acre
	Seed Type Ibs/acre
Fescue	
Contractors Mix	
Attach: Drawing(s) of road, location, pit and proposed area for land applic	ation
Drawing(s) of road, location, pit and proposed area for rand appric	
Photocopied section of involved 7.5' topographic sheet.	
Plan Approved by:	
	Office
Comments:	
	MAR a "''' Gas
–	AECEIVED Office of Oil and Gas MAR 0 6 2017 Date: February 16,02017
Title: President	Date: February 16,2017
Field Reviewed? () Yes (
	when tal but of
	Date: February 16,22917 Date: February 16,22917



04/21/2017

701348P

The Responsible Party named above has chosen to submit GPS coordinates in lieu of preparing a new well location plat for a plugging permit or assigned API number on the above well. The Office of Oil and Gas will not accept GPS coordinates that do not meet the following requirements:

- 1. Datum: NAD 1983, Zone: 17 North, Coordinate Units: meters, Altitude: height above mean sea level (MSL) - meters.
- Accuracy to Datum 3.05 meters 2.
- 3. Data Collection Method:

Survey grade GPS _____: Post Processed Differential

Real-Time Differential

Mapping Grade GPS : Post Processed Differential

Real-Time Differential

4. Letter size copy of the topography map showing the well location.

I the undersigned, hereby certify this data is correct to the best of my knowledge and belief and shows all the information required by law and the regulations issued and prescribed by the Office of Oil and Gas.

President 12 Signature

April 1, 2014