

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: Virtus Lone Pine 34-11-5 #5

API Well Number: 43021500020000

Lease Number: UTU84126 Surface Owner: FEDERAL Approval Date: 8/31/2015

Issued to:

VIRTUS OIL & GAS CORP, 1517 San Jacinto St, Houston, TX 77002

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of R649-3-3. The expected producing formation or pool is the NAVAJO Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

This proposed well is located in an area for which drilling units (well spacing patterns) have not been established through an order of the Board of Oil, Gas and Mining (the "Board"). In order to avoid the possibility of waste or injury to correlative rights, the operator is requested, once the well has been drilled, completed, and has produced, to analyze geological and engineering data generated therefrom, as well as any similar data from surrounding areas if available. As soon as is practicable after completion of its analysis, the operator is requested to seek an appropriate order from the Board establishing drilling and spacing units in

conformance with such analysis by filing a Request for Agency Action with the Board.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at http://oilgas.ogm.utah.gov

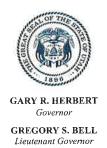
Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
 - Requests to Change Plans (Form 9) due prior to implementation
 - Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
- Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER Executive Director

Division of Oil, Gas and Mining JOHN R. BAZA

Division Director

October 30, 2012

Notice to Oil and Gas Operators

Re: New Hydraulic Fracturing Rule R649-3-39

The process of hydraulic fracturing has been a commonly used method for obtaining production from oil and gas wells for many years in Utah and worldwide. This process has become an increasingly controversial issue with the public. Currently there are no conclusive studies that show examples of ground water contamination or public health issues resulting from hydraulic fracturing in Utah. However, there is still a great amount of public debate concerning the subject. The Utah Division of Oil, Gas and Mining believes that in order to alleviate some of the public's concerns, it was beneficial to create a rule to adresss the hydraulic fracturing process.

The Board of the Division of Oil, Gas and Mining on October 24, 2012, unanimously passed a rule to regulate the hydraulic fracturing process utilized in the production of oil and gas in Utah. The rule will be effective as of November 1, 2012. The rule can be found at the Division's website http://oilgas.ogm.utah.gov/. The rule in summary, addresses the following:

- The public disclosure of the chemicals used in the hydraulic fracturing process by individual well. This information must be reported to FracFocus http://fracfocus.org. FracFocus is a national chemical registry that is available for the public's use and analysis. By rule, each well that is hydraulically fractured must be reported to FracFocus within 60 days after the completion of the hydraulic fracturing process.
- The rule defines proper methods for production of oil and gas emphasizing well bore integrity, casing design, pressures, drilling, completions and protection of ground water.
- The proper methods for the protection of surface waters from flowback. In addition, the proper disposal methods of managing flowback and produced water.

The Division believes that the FracFocus website is a powerful tool for both the industry and public. Please make yourself familiar with FracFocus. In addition, the other sections of the rules are procedures that have been utilized for many years by the Division for oil and gas operations in Utah. If you have any questions concerning this new rule, please contact John Rogers at the Division of Oil, Gas and Mining at 801-538-5349.

Sincerely,

ohn Rogers

Associate Director, Oil and Gas



STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES

AMENDED REPORT

						, GAS AND M				AMENDED R	EPORT	
APPLICATION FOR PERMIT TO DRILL							1. V	1. WELL NAME and NUMBER Virtus Lone Pine 34-11-5 #5				
2. TYPE OF WORK DRILL NEW WELL REENTER P&A WELL DEEPEN WELL DEEPEN WELL						3. F	3. FIELD OR WILDCAT WILDCAT					
4. TYPE OF WELL Oil Well Coalbed Methane Well: NO						5. U	5. UNIT or COMMUNITIZATION AGREEMENT NAME					
6. NAME OF OPERATOR VIRTUS OIL & GAS CORP							7. 0	7. OPERATOR PHONE 281 806-5000				
8. ADDRESS OF OPERATOR 1517 San Jacinto St, Houston, TX, 77002							9. 0	9. OPERATOR E-MAIL brett@virtusoilandgas.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU84126 11. MINERAL OWNERSHIP FEDERAL INDIAN					12. SURFACE OWNERSHIP STATE FEE FEDERAL INDIAN STATE FEE							
13. NAME OF SURFACE OWNER (if box 12 = 'fee')								14.	14. SURFACE OWNER PHONE (if box 12 = 'fee')			
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')							16.	16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
(if box 12 = 'INDIAN')					ATIONS	19. SLANT IONS t Commingling Application) NO VERTICAL DIRECTIONAL HORIZONTAL				NTAL 🔵		
20. LOCATI	ION OF WELL		F	OOTAGES	Q	TR-QTR	SECTIO	N	TOWNSHIP	RANGE		MERIDIAN
LOCATION AT SURFACE 224			2249 F	NL 976 FWL		SWNW	5		34.0 S	11.0 W		S
Top of Uppermost Producing Zone 2249 FI			NL 976 FWL		SWNW	5		34.0 S	11.0 W		S	
At Total Depth 2249 FN			NL 976 FWL		SWNW	5		34.0 S	0 S 11.0 W		S	
21. COUNTY IRON				22. DISTANCE TO NEAREST LEASE LINE (Feet) 348			23.	23. NUMBER OF ACRES IN DRILLING UNIT 1991				
				25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 5280				26.	26. PROPOSED DEPTH MD: 7000 TVD: 7000			
27. ELEVATION - GROUND LEVEL 5367				28. BOND NUMBER UTB000670					29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE City of Enoch			
				Hole, Ca	sing, and	Cement Info	ormation					
String	Hole Size	Casing Size				& Thread		Mud Wt.	Cement	Sacks	Yield	Weight
SURF	12.25	16 9.625	0 - 40			nknown 55 ST&C		0.0 8.6	Unknown	115	0.0 2.273	12.5
									Varocem	85	1.81	13.5
PROD	8.75	5.5	0 - 700	17.0	N-8	8.8 B0 LT&C		8.8	Varocem	700	1.479	13.5
					ATTAC	HMENTS						
	VERIFY	THE FOLLOWIN	NG ARE ATTA	CHED IN ACCOR	DANCE W	ITH THE UT	AH OIL AND	GAS CO	INSERVATION G	ENERAL RU	LES	
W EL	WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					COMPLETE DRILLING PLAN						
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURF				NT (IF FEE SURFAC	E) FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER							
DIRE	CTIONAL SURVEY	PLAN (IF DIRECT	ΓΙΟΝΑLLY OR Η	ORIZONTALLY DRI	LLED)	торо	OGRAPHICAL I	МАР				
NAME Brett A Murray				TITLE Chief Operating Office PH			PHONE	IONE 281 806-5000				
SIGNATURE			DATE 08/25/2015 EM			EMAIL b	MAIL brett@virtusoilandgas.com					
API NUMBER ASSIGNED 43021500020000			APPROVAL Perm			hold Permit 1	mit Manager					
								i Cillill I	irianagei			

VIRTUS OIL & GAS VIRTUS LONE PINE 34-11-5 #5 SEC 5, T34S, R11W, S.L.B.&.M.

DATE:	DESCRIPTION:
6/15/2015	DESCRIPTION: MOVED PIT AND ADDED FLARE PIT



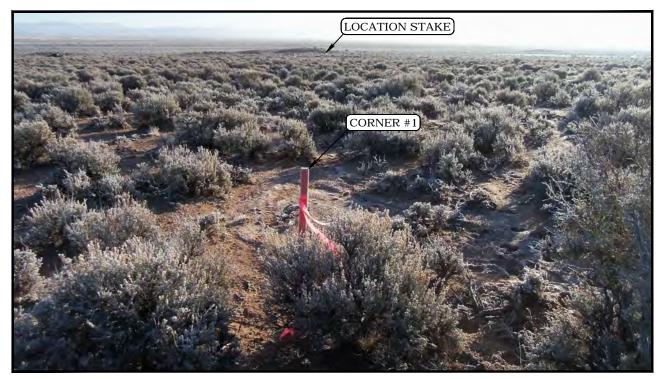


PHOTO: VIEW FROM CORNER #1 TO LOCATION STAKE

CAMERA ANGLE: WESTERLY

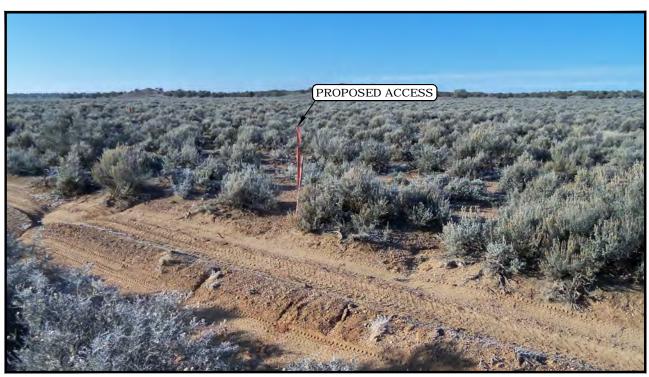


PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHERLY

VIRTUS OIL & GAS

VIRTUS LONE PINE 34-11-5 #5 SECTION 5, T34S, R11W, S.L.B.&M. 2249' FNL 976' FWL



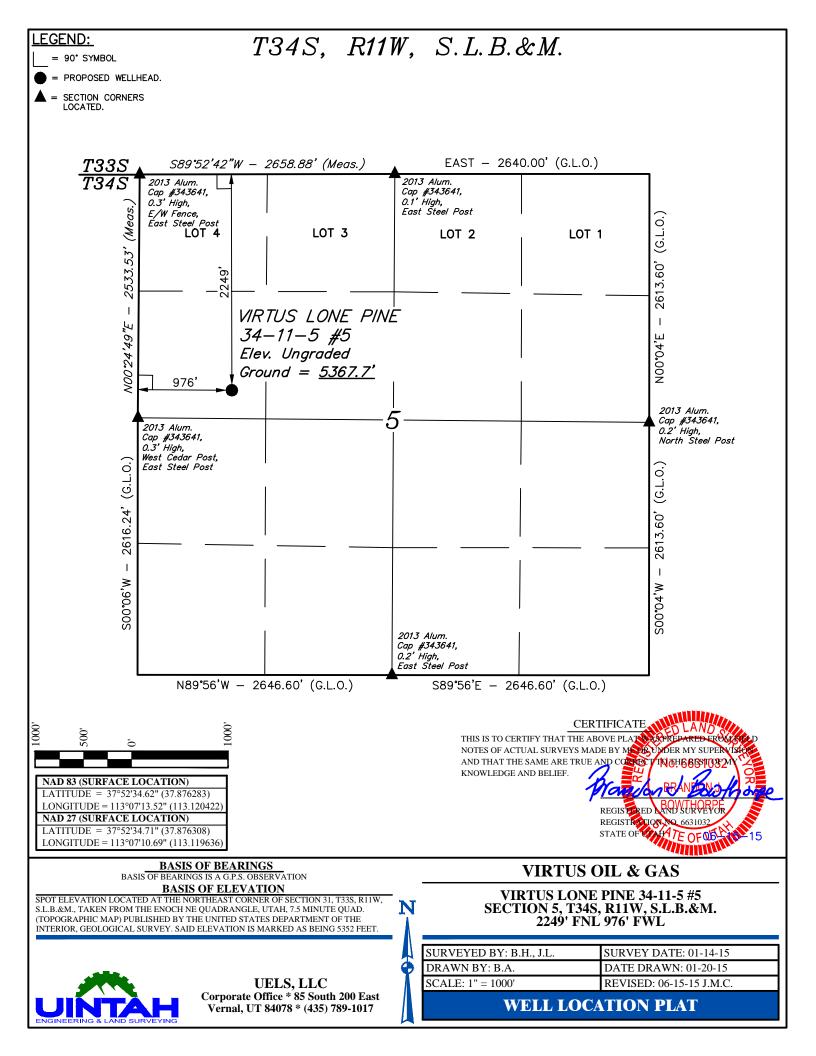
DRAWN BY: C.B.

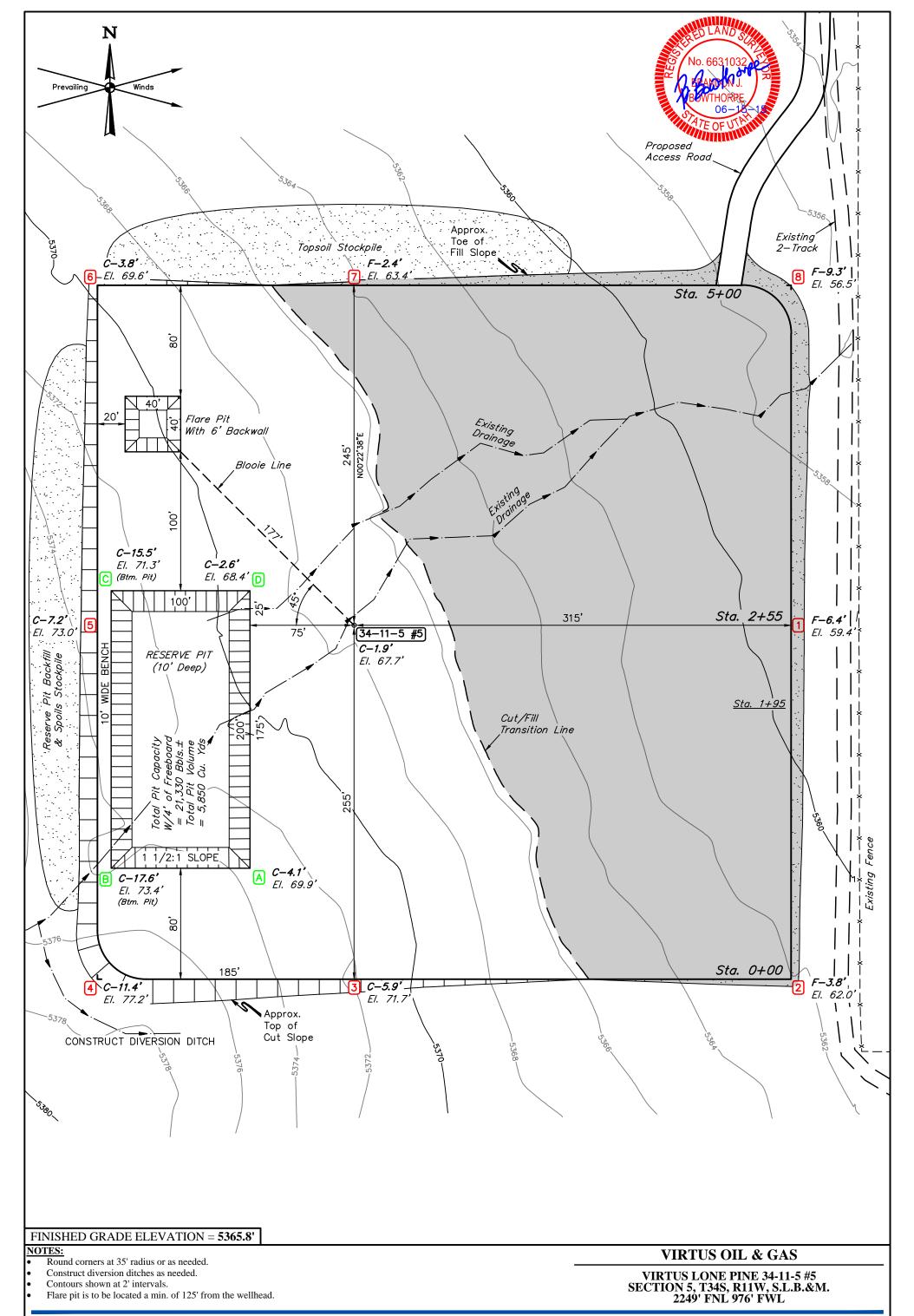
DATE DRAWN: 01-22-15
TAKEN BY: B.H.

REVISED: 06-15-15 J.M.C.

LOCATION PHOTOS

PHOTO

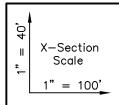




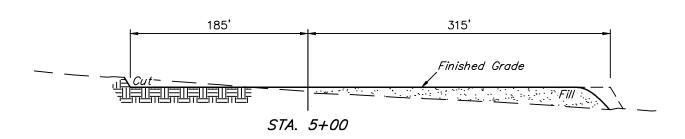
DRAWN BY: B.A. DATE DRAWN: 01-20-15 SCALE: 1" = 60' REVISED: 06-15-15 J.M.C.

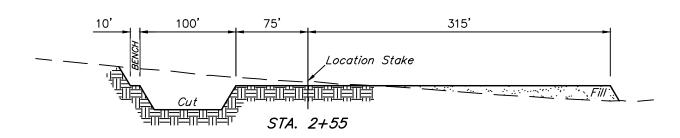
LOCATION LAYOUT

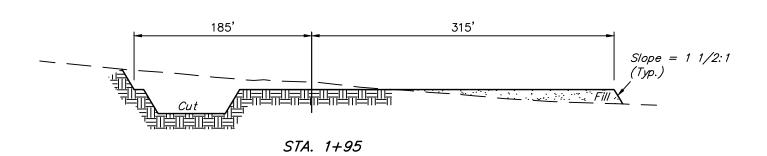
FIGURE #1

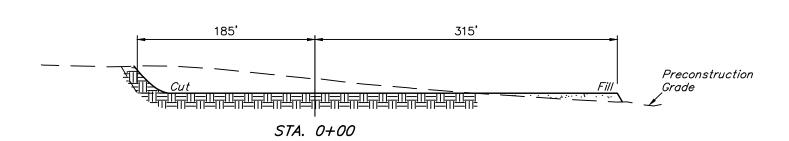












APPROXIMATE EARTHV	VORK QUANTITIES
(6") TOPSOIL STRIPPING	4,950 Cu. Yds.
REMAINING LOCATION	23,940 Cu. Yds.
TOTAL CUT	28,890 Cu. Yds.
FILL	21,010 Cu. Yds.
EXCESS MATERIAL	7,880 Cu. Yds.
TOPSOIL & PIT BACKFILL (1/2 Pit Vol.)	7,880 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	0 Cu. Yds.

APPROXIMATE SURFACE DISTURBANCE AREAS						
	DISTANCE	ACRES				
WELL SITE DISTURBANCE	NA	±6.806				
30' WIDE ACCESS ROAD R-O-W DISTURBANCE	±5783'	±3.983				
TOTAL SURFACE USE AREA						

NOTES:

- Fill quantity includes 5% for compaction.
- Calculations based on 6" of topsoil stripping.

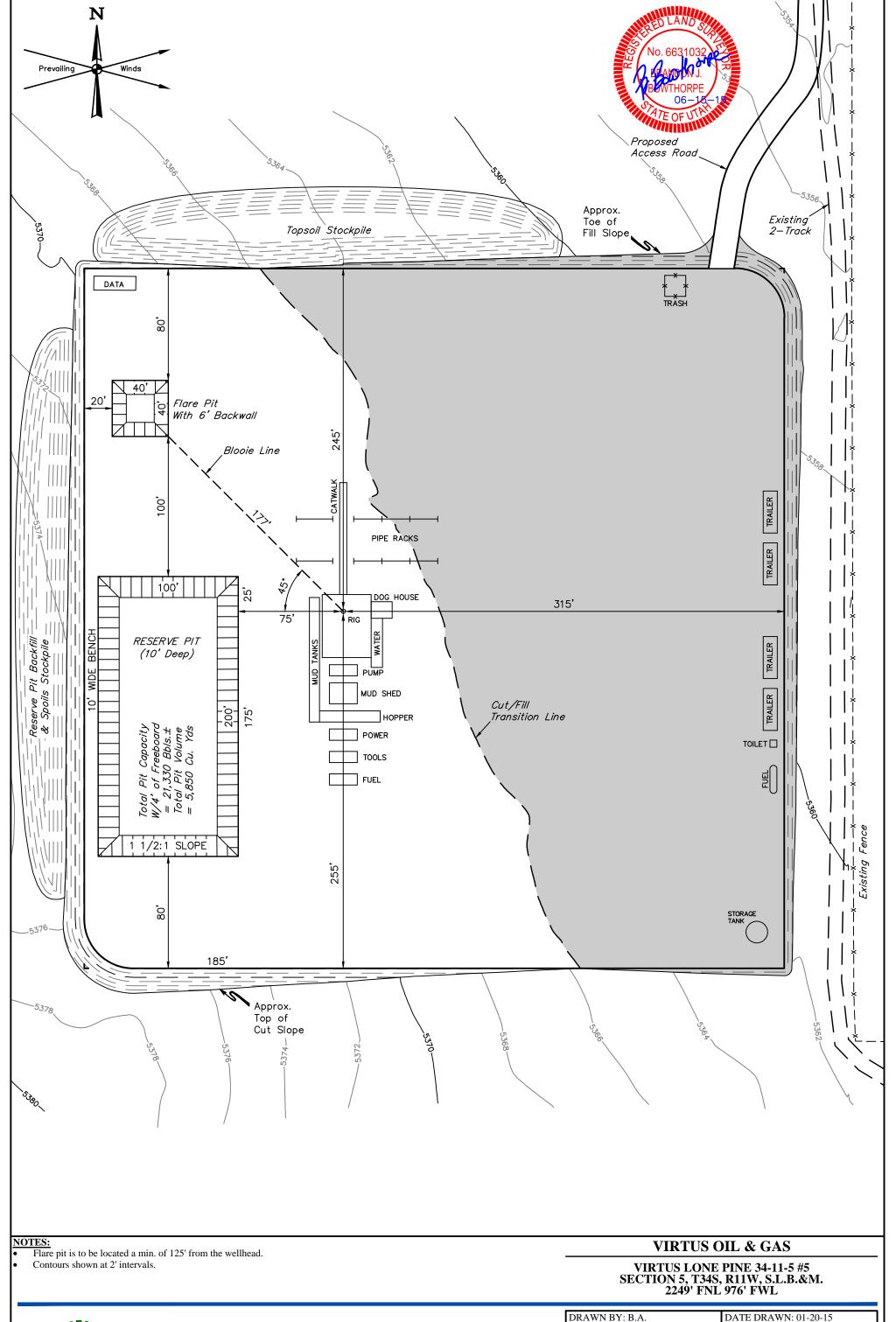
 Topsoil should not be stripped below finished grade on substructure area.

VIRTUS OIL & GAS

VIRTUS LONE PINE 34-11-5 #5 SECTION 5, T34S, R11W, S.L.B.&M. 2249' FNL 976' FWL



<u> </u>	
DRAWN BY: B.A. DATE DRAWN: 01-20-15	
SCALE: AS SHOWN REVISED: 06-15-15 J.M.C.	



UELS, LLC Corporate Office * 85 South 200 East Vernal, UT 84078 * (435) 789-1017
 DRAWN BY: B.A.
 DATE DRAWN: 01-20-15

 SCALE: 1" = 60'
 REVISED: 06-15-15 J.M.C.

PROCEED IN A NORTHERLY DIRECTION FROM CEDER CITY, UTAH ALONG I-15 FOR APPROXIMATELY 3.4 MILES TO EXIT 62, EXIT RIGHT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE JUNCTION OF THIS ROAD AND HIGHWAY 130 TO THE NORTH; TURN LEFT AND PROCEED IN A NORTHERLY, THEN NORTHEASTERLY, THEN THEN NORTHERLY DIRECTION APPROXIMATELY 12.7 MILES TO THE JUNCTION OF THIS ROAD AND HORSE HOLLOW ROAD TO THE SOUTHWEST; TURN LEFT AND PROCEED IN A SOUTHWESTERLY DIRECTION APPROXIMATELY 5.2 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE SOUTH: FOLLOW ROAD FLAGS IN A SOUTHERLY DIRECTION APPROXIMATELY 5783' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM CEDAR CITY, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 22.7 MILES.

VIRTUS OIL & GAS

VIRTUS LONE PINE 34-11-5 #5 SECTION 5, T34S, R11W, S.L.B.&M. 2249' FNL 976' FWL



DRAWN BY: C.B. DATE DRAWN: 01-22-15 REVISED: 06-15-15 J.M.C.

