



**Top Hat 19 State Well No. 1**

AFE # \_\_\_\_\_

**Objective** – Re-entry Multiple Completions in the Legg; Atoka-Morrow.

API# 30-025-36595  
 GL – 3789.5’  
 TD – 14,681’ / TVD –

Location - Lea Co. - Sec 19(K) - T21S - R33E  
 KB - 3810.5’  
 PBSD - 13559’

Casing	OD	WT/FT	Grade	Top	Bottom	TOC	80% Collapse (psi)	80% Burst (psi)
Surface	13-38"	54.5#	J-55	0	1373'	Surface		
Intermediate	9-5/8"	40#	J-55	0	5245'	Surface		
Production	7"	28#	N-80 & P-110	4730'	12,082'	4800'		

Volume Calculations: 7" 28# casing (0.0382 bbl/ft), 2-7/8 6.5# tubing (0.00579 bbl/ft), 2-7/8 x 5-1/2 (0.0152 bbl/ft)

Marker Joints: TBD

OFFSET WELLS WITHIN ¼ MILE- NONE

Operator:	Well Name:	Sec-T-R:	Surf Loc:	Distance:	Frac Stg Proximity	Well Status



**Completion Procedure**

- 1) Reconnect to wellhead and install new wellheads.
- 2) Pick up 6-1/8" drill bit and drill out cement plugs inside the 7" casing thru the surface plug.
- 3) Drill through cement @ 1630'.
- 4) Drill through cement @ 5079'.
- 5) Drill through cement @ 7000'.
- 6) Drill through cement plugs to original TD @ 14681'.

APR 23 2014

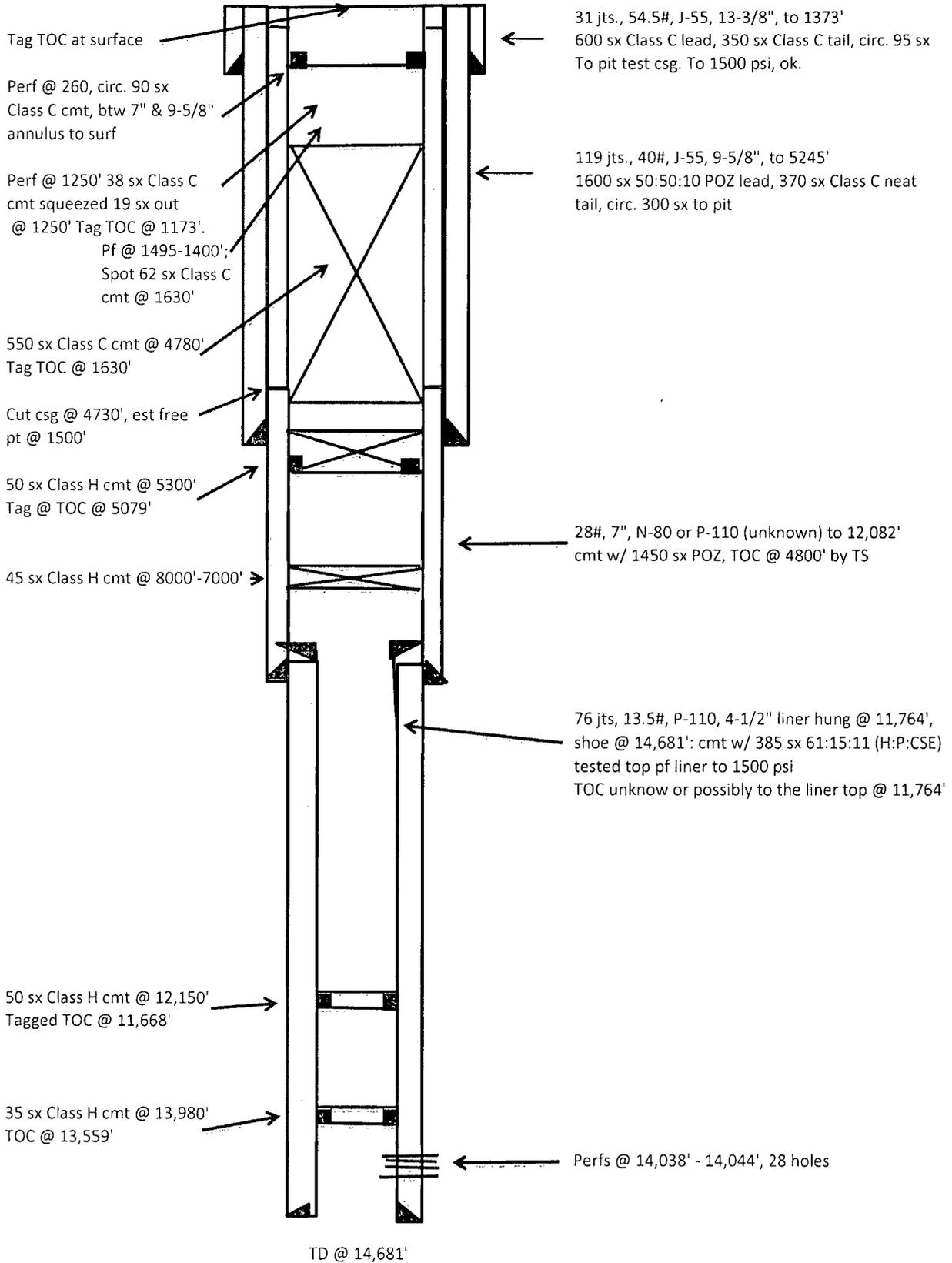
## Re-entry Multiple Completions

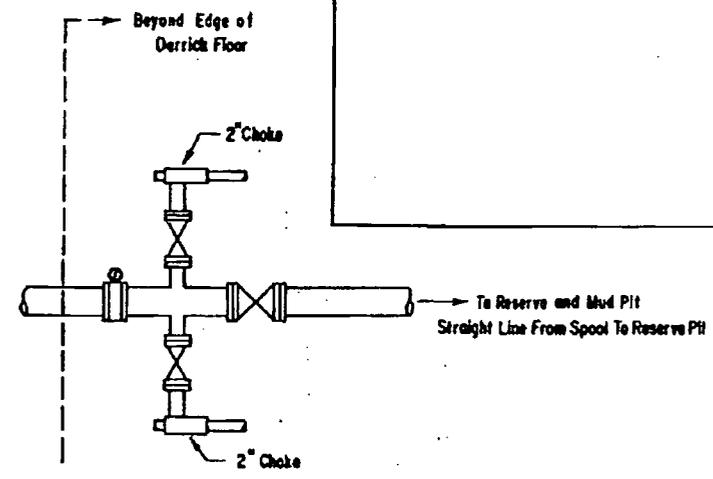
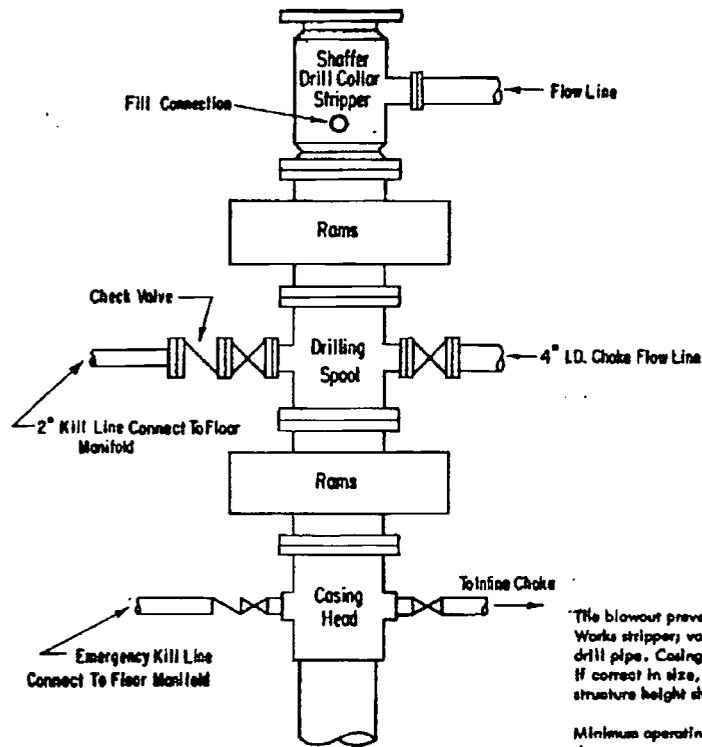


AMTEX ENERGY, INC.  
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- 7) Circulate old drill mud out, displace the hole and clean up open hole in preparation to run 4-1/2" casing liner.
  - 8) Run 4-1/2" 13.5# P-110 casing liner and set at 11764' and tie to the existing liner.
  - 9) Set 4-1/2" external casing packer (ECP).
  - 10) Cut off 4-1/2" casing and set slips in wellhead.
  - 11) Rig down and move out. Prepare to complete well.

OPERATOR : AMTEX ENERGY, INC.	Name of Lease: Top Hat 19 State	Date: Revised- 03/21/14
API: 30-025-36595	Well: 1	By: CD
LOCATION: Unit K, 1902' FSL & 1405' FWL, Sec. 19, T-21-S, R-33-E, Lea County, New Mexico		
KB: 3810.5'	GL: 3789.5'	





ADDITIONS - DELETIONS - CHANGES SPECIFY

**3000 PSI WORKING PRESSURE BLOWOUT PREVENTER HOOK-UP**

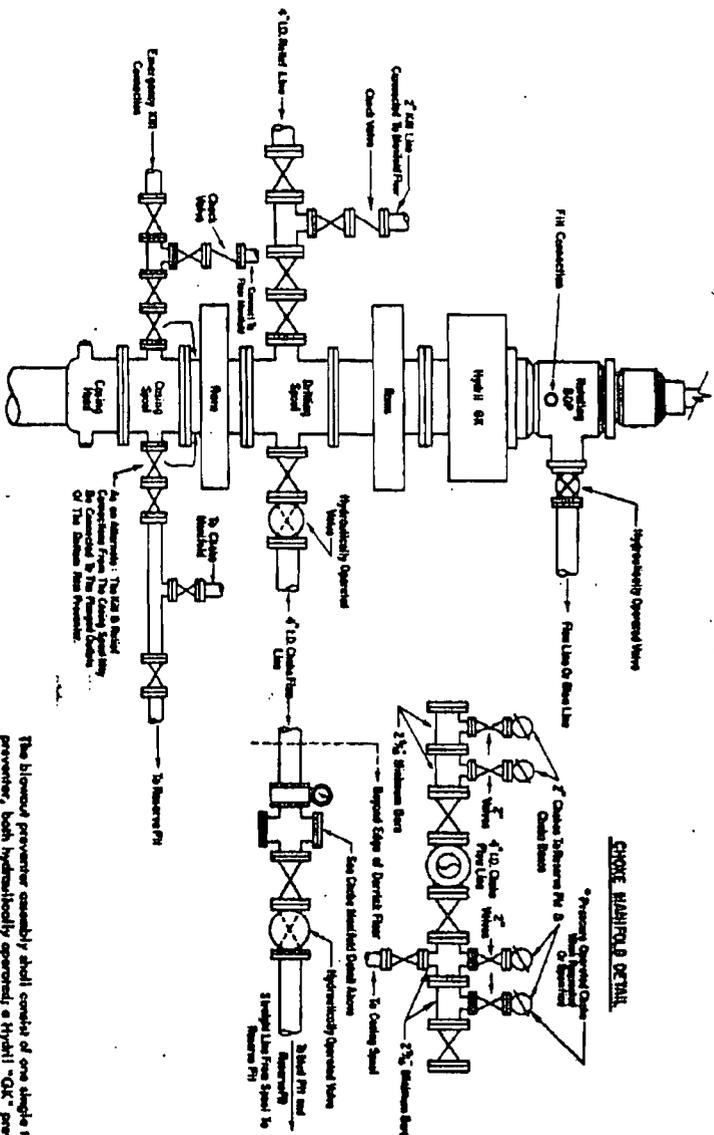
The blowout preventer assembly shall consist of one blind ram preventer and one pipe ram preventer, both hydraulically operated; a Shaffer Tool Works stripper; valves; chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing rams to fit the preventers are to be available as needed. The ram preventers may be two singles or a double type. If correct in size, the flanged outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and kill line. The substructure height shall be sufficient to install a rotating blowout preventer.

Minimum operating equipment for the preventers shall be as follows: (1) Pump (a), driven by a continuous source of power, capable of closing all the pressure-operated devices simultaneously within \_\_\_\_\_ seconds. The pump (a) is to be connected to a closed type hydraulic operating system. (2) When requested, accumulators with a precharge of nitrogen of not less than 750 PSI and connected so as to receive a fluid charge from the above pump (a). With the charging pump (a) shut down, the pressurized fluid volume stored in the accumulators must be sufficient to close all the pressure-operated devices simultaneously within \_\_\_\_\_ seconds; after closure, the remaining accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least \_\_\_\_\_ percent of the original. (3) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pump (a); or there shall be an additional pump (a) operated by separate power and equal in performance capabilities.

The closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles indicating open and closed positions. A pressure reducer and regulator must be provided if a Hydril preventer is used. Gulf Legion No. 38 hydraulic oil, an equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, and choke lines are to be supported by metal stands and adequately anchored. The choke flow line and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valve connected to the drilling spool and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handles.

**ADDITIONS - DELETIONS - CHANGES  
SPECIFY**



**5000# PSI WORKING PRESSURE  
BLOWOUT PREVENTER HOOK-UP**

The blowout preventer assembly shall consist of one single type blind ram preventer and one single type pipe ram preventer, both hydraulically operated, a Hydril "OK" preventer, a working blowout preventer, safety valves, chokes and connections, as illustrated. If a tapered drill string is used, a ram preventer must be provided for each size of drill pipe. Casing and tubing must be fit the preventers as to be available as needed. If normal is also, the tapered outlets of the ram preventer may be used for connecting to the 4-inch I.D. choke flow line and 4-inch I.D. relief line, except when air or gas drilling. All preventer connections are to be open-face flanged.

Minimum operating equipment for the preventer and hydraulically operated valves shall be as follows: (1) Multiple pumps, driven by a continuous source of power, capable of fluid changing the total accumulator volume from the nitrogen precharge pressure to its rated pressure within \_\_\_\_\_ minutes. Also, the pump one to be connected to the hydraulic accumulator pressure shall be not less than 1000 PSI with the remaining accumulator fluid volume at least \_\_\_\_\_ percent of the original. (2) When requested, an additional source of power, remote and equivalent, is to be available to operate the above pumps or there shall be additional pumps operated by separate power and equal in performance capabilities.

The closing manifold and remote closing manifold shall have a separate control for each pressure-operated device. Controls are to be labeled, with control handles tripping open and closed positions. A pressure reducer and regulator must be provided for operating the Hydril preventer. When requested, a second pressure reducer shall be available to limit operating fluid pressure to ram preventer. A fluid Legator No. 38 hydraulic oil, or equivalent or better, is to be used as the fluid to operate the hydraulic equipment.

The choke manifold, choke flow line, relief line, and choke lines are to be supported by steel stands and adequately anchored. The choke flow line, relief line, and choke lines shall be constructed as straight as possible and without sharp bends. Easy and safe access is to be maintained to the choke manifold. If deemed necessary, walkways and sealways shall be erected in and around the choke manifold. All valves are to be selected for operation in the presence of oil, gas, and drilling fluids. The choke flow line valves and relief line valves connected to the drilling stand and all ram type preventers must be equipped with stem extensions, universal joints if needed, and hand wheels which are to extend beyond the edge of the derrick substructure. All other valves are to be equipped with handwheels.

\* To include derrick floor mounted controls.

# **Amtex Energy, Inc.**

## **Operating and Maintenance for a Closed Loop System**

### **19.15.17.12 OPERATIONAL REQUIREMENTS:**

A. General specifications. An operator shall maintain and operate a pit, closed-loop system, below-grade tank or sump in accordance with the following requirements.

(1) The operator shall operate and maintain a pit, closed-loop system, below-grade tank or sump to contain liquids and solids and maintain the integrity of the liner, liner system or secondary containment system, prevent contamination of fresh water and protect public health and the environment.

**Operator shall operate and maintain a Closed Loop System.**

(2) The operator shall recycle, reuse or reclaim or dispose of all drilling fluids in a manner, approved by division rules, that prevents the contamination of fresh water and protects public health and the environment.

**Operator shall recycle, reuse or reclaim all drilling fluids used. Excess or unused fluid shall be disposed of at division approved facilities.**

(3) The operator shall not discharge into or store any hazardous waste in a pit, closed-loop system, below-grade tank or sump.

**Operator shall not knowingly discharge hazardous waste into the closed loop system.**

(4) If any pit liner's integrity is compromised, or if any penetration of the liner occurs above the liquid's surface, then the operator shall notify the appropriate division district office within 48 hours of the discovery and repair the damage or replace the liner.

**No Pit Liner. A Closed Loop System will be used.**

(5) If a pit develops a leak, or if any penetration of the pit liner, below-grade tank liquid's surface, then the operator shall remove all liquid above the damage or leak line within 48 hours and repair the damage or replace the pit liner.

**No Pit Liner. A Closed Loop System will be used. If a leak develops in any of the closed loop tanks, all liquids shall be removed from the effected tank within 48 hours and any damage shall be repaired prior to putting the tank back in service.**

- (6) The operator shall operate and install a level measuring device in a lined pit containing fluids to monitor the level of the fluid surface, so that the operator may recognize unanticipated change in volume of fluids.

**No pit. A Closed Loop System will be used. Excess fluid shall be removed appropriately from the catch tanks.**

- (7) The injection or withdrawal of liquids from a lined pit shall be accomplished through a header, diverter or other hardware that prevents damage to the liner by erosion, fluid jets or impact from installation and removal of hoses or pipes.

**No pit. A Closed Loop System will be used. Excess fluid shall be removed appropriately from the catch tanks using a re-circulating pump or vacuum trucks.**

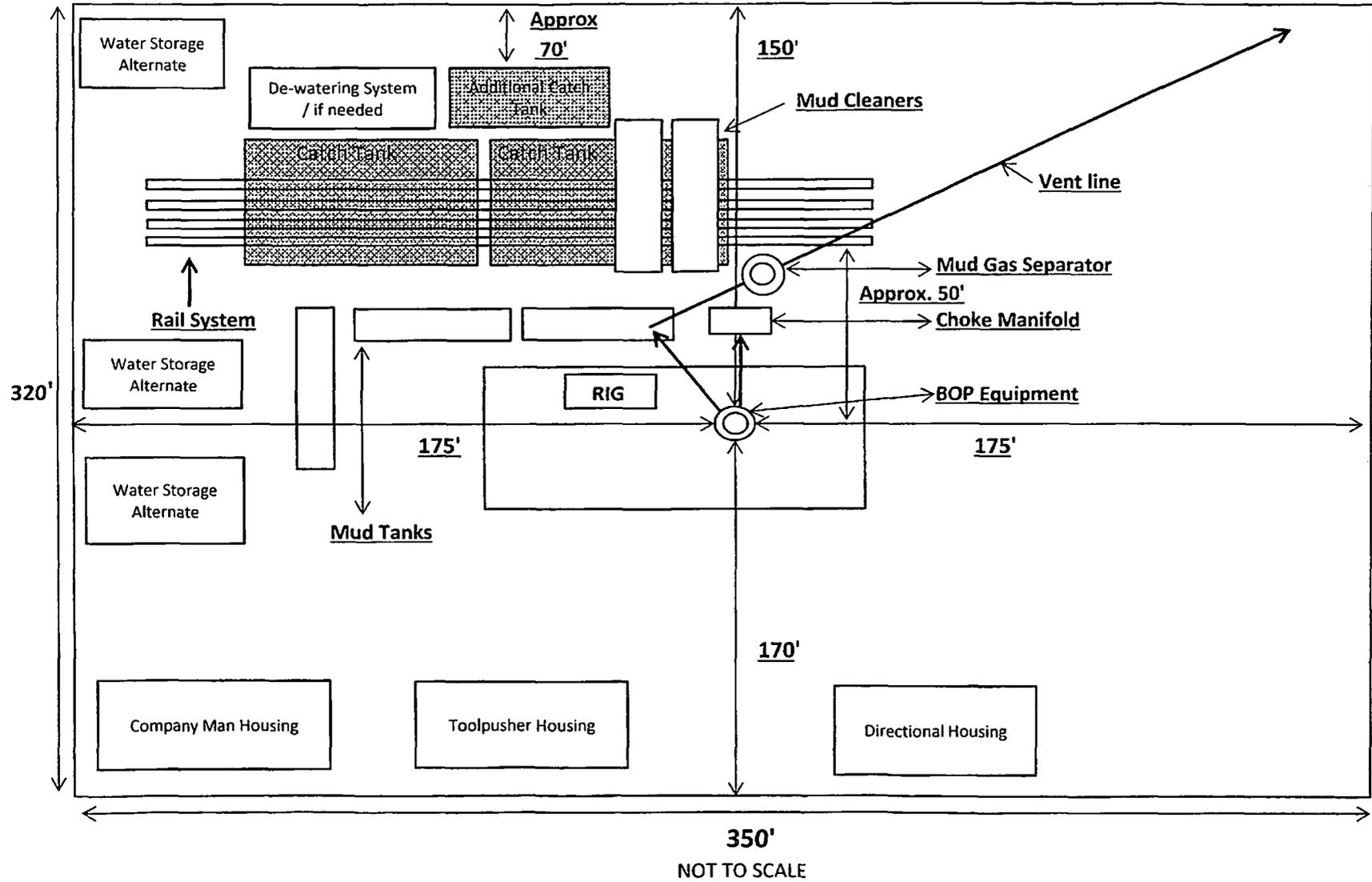
- (8) The operator shall operate and install a pit, below-grade tank or sump to prevent the collection of surface water run-on.

**Operator shall berm or collect surface water run-on and dispose of it at a division approved facility.**

- (9) The operator shall install, or maintain on site, an oil absorbent boom or other device to contain and remove oil from a pit's surface.

**Operator shall install a skimmer system on catch tanks, circulating tanks and over-flow tanks as need to collect oil.**

Amtex Energy, Inc.  
Closed Loop Location Design Plan



# **Amtex Energy, Inc.**

## **Closure Plan for Closed Loop Drilling System**

### **1. METHODS OF HANDLING WASTE MATERIALS**

- A. Drill cuttings shall be disposed of in steel cuttings bins (catch tanks) on the drilling pad (behind the steel mud tanks). The bin and cuttings shall be hauled to a division approved facility by an approved transporter. At the facility, the cuttings shall be removed from the bin and the bin shall be returned to the drilling site for reuse, moved to the next drilling site or returned to the provider.
  
- B. Remaining drilling fluids shall be hauled off by approved transports to a division approved disposal facility. Water produced during completion shall be put in storage tanks and disposed of at a division approved facility. Oil and condensate produced shall be put in a storage tank and sold or put in a sales pipeline.

### **2. RECLAMATION**

- A. Within 120 days after the drilling and completion of the well, the location area shall be reduced as determined by operator to minimum area necessary to safely and effectively operate the well. The reclaimed location area shall be restored to the condition that existed prior to oil and gas operations.