

N/A  
SMA: TCBal  
BOND: RL30007886  
CAPA: N/AUNITED STATES  
DEPARTMENT OF THE INTERIOR  
BUREAU OF LAND MANAGEMENT

## APPLICATION FOR PERMIT TO DRILL OR REENTER

RECEIVED

JAN 02 2013

FORM APPROVED  
OMB NO. 1004-0137  
Expires: March 31, 2007

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No.	
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input type="checkbox"/> Multiple Zone		Jicarilla Contract 110	
2. Name of Operator EnerVest Operating, L.L.C.		6. If Indian, Allottee or Tribe Name Jicarilla Apache	
3a. Address 1001 Fannin St. Suite 800, Houston, Tx 77034		7. If Unit or CA Agreement, Name and No. Jicarilla A #7F	
3b. Phone No. (Include area code) 713-495-3355		8. Lease Name and Well No. Jicarilla A #7F	
4. Location of well (Report location clearly and in accordance with any State requirements.) At surface 660' FNL, 2053' FWL (Unit C) Sec 17 T26N R05W At proposed prod. zone		9. API Well No. 30-039-31171	
10. Field and Pool, or Exploratory Blanco Mesa Verde/Basin Dakota		11. Sec., T., R., M., or Blk. And Survey or Area Sec. 17 T26N R05W	
12. County or Parish Rio Arriba		13. State NM	
14. Distance in miles and direction from the nearest town or post office 30 miles from Lindrieth, NM		17. Spacing Unit dedicated to this well MV - W/320 DK - W/320	
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any) 660'		RCVD APR 9 '13 OIL CONS. DIV.	
16. No. of acres in lease 2558.36		20. BLM/ BIA Bond No. on file NMB000503	
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 1051'		DIST. 3 RLB0007886	
19. Proposed Depth 7619'		23. Estimated duration 5 weeks	
21. Elevations (Show whether DF, RT, GR, etc.) 6640' GL		24. Attachments	
22. Aproximate date work will start* 4/1/2013			

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1 shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by existing bond on file (see item 20 above).
- Operator certification.
- Such other site specific information and/ or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/ Typed) Bart Trevino	Date 12/31/2012
Title Regulatory Analyst		
Approved By (Signature) 	Name (Printed/ Typed) AFM	Date 4/4/13
Title Office FFU		

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

\* (Instructions on page 2)

This action is subject to technical and procedural review pursuant to 43 CFR 3165.4 and appeal pursuant to 43 CFR 3165.4

A COMPLETE C-144 MUST BE SUBMITTED TO AND APPROVED BY THE NMOC FOR: A PIT, CLOSED LOOP SYSTEM, BELOW GRADE TANK, OR PROPOSED ALTERNATIVE METHOD, PURSUANT TO NMOC PART 19.15.17, PRIOR TO THE USE OR CONSTRUCTION OF THE ABOVE APPLICATIONS.

DRILLING OPERATIONS AUTHORIZED ARE SUBJECT TO COMPLIANCE WITH ATTACHED "GENERAL REQUIREMENTS".

HOLD COPY FOR NSE

NOTIFY AZTEC OCD 24 HRS.  
PRIOR TO CASING & CEMENT

APR 19 2013 ca

NMOC

District I  
1625 N. French Dr., Hobbs, NM 88240  
Phone: (575) 393-6161 Fax: (575) 393-0720  
District II  
811 S. First St., Artesia, NM 88210  
Phone: (575) 748-1283 Fax: (575) 748-9720  
District III  
1000 Rio Brazos Road, Aztec, NM 87410  
Phone: (505) 334-6178 Fax: (505) 334-6170  
District IV  
1220 S. St. Francis Dr., Santa Fe, NM 87505  
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico  
Energy, Minerals & Natural Resources Department  
OIL CONSERVATION DIVISION  
1220 South St. Francis Dr.  
Santa Fe, NM 87505

RECEIVED  
Form C-102  
Revised August 1, 2011  
Submit one copy to  
appropriate  
District Office  
Farmington Field Office  
Bureau of Land Management  
AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

<sup>1</sup> API Number 30-039- 31171	<sup>2</sup> Pool Code 72319/71599	<sup>3</sup> Pool Name Blanco Mesaverde/Basin Dakota
<sup>4</sup> Property Code 306750	<sup>5</sup> Property Name JICARILLA A	<sup>6</sup> Well Number 7F
<sup>7</sup> OGRID No. 143199	<sup>8</sup> Operator Name ENERVEST OPERATING, LLC.	<sup>9</sup> Elevation 6640'

<sup>10</sup> Surface Location

UL or lot no. C	Section 17	Township 26-N	Range 5-W	Lot Idn	Feet from the 660	North/South line NORTH	Feet from the 2053	East/West line WEST	County RIO ARriba
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<sup>11</sup> Bottom Hole Location If Different From Surface

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
<sup>12</sup> Dedicated Acres MV - W/320 DK - W/320			<sup>13</sup> Joint or Infill		<sup>14</sup> Consolidation Code		<sup>15</sup> Order No.		

No allowable will be assigned to this completion until all interest have been consolidated or a non-standard unit has been approved by the division.

CALC'D. CORNER BY DBL. PROP. MV/DAL

660'

2053'

S 89°59'35" E 5331.95' (C)

SURFACE:  
LAT: 36.49262° N. (NAD 83)  
LONG: 107.38499° W. (NAD 83)  
LAT: 36°29'33.38410" N. (NAD 27)  
LONG: 107°23'03.80363" W. (NAD 27)

17

S 00°00'48" E 5314.45' (C)

CALC'D. CORNER BY DBL. PROP. MV/DAL

17 OPERATOR CERTIFICATION

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this well at this location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Bart Trevino 12/27/12  
Signature Date

Bart Trevino  
Printed Name

btrevino@enervest.net  
E-mail Address

18 SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief.

APR 2 2005  
Date of Survey  
Signature and Seal of Professional Surveyor:  
ROY A. RUSH  
8892  
07-12  
PROFESSIONAL LAND SURVEYOR  
Certificate Number

## **EnerVest Operating, LLC**

**Jicarilla A # 7F**

660' FNL, 2053' FWL Unit C Sec. 17, T26N R05W Rio Arriba County, NM  
GL Elev: 6640'

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### **Drilling Plan**

All Lease and /or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, BLM Onshore orders and EnerVest's approved Further Development Project Plan. The operator is fully responsible for the actions of its subcontractors. A copy of the APD and Conditions of Approval will be available to the field representatives to ensure compliance.

#### **4.1, 4.2      ESTIMATED FORMATION TOPS (KB) and NOTABLE ZONES:**

The following formation depths and proposed casing depths are estimates only and may be modified as determined by well conditions while drilling.

<u>Formation Name</u>	<u>Depth</u>	<u>Rock Type</u>	<u>Comments</u>
San Jose	Surface	Sandstone	
Ojo Alamo	2282'	Sandstone	Possible Gas, Water
Kirtland	2655'	Shale	
Fruitland	2875'	Coal, Shale, Sandstone	Possible Lost Circ, Gas, Water
Pictured Cliffs	3104'	Sandstone	Possible Lost Circ, Gas, water
Lewis	3174'	Shale	Sloughing Shale
Mesa Verde (Cliffhouse)	4797'	Sandstone	Possible Lost Circ, Gas, Water
Mesa Verde (Menefee)	4878'	Coal, Sandstone, Shale	Possible Lost Circ, Gas, Water
Mesa Verde (Point Lookout)	5357'	Sandstone	Possible Lost Circ, Gas, Water
Mancos	5526'	Shale	Sloughing Shale
Gallup	6511'	Siltstone, Shale	Gas, Oil
Greenhorn	7246'	Limestone	Gas, Oil
Graneros	7304'	Shale	Gas, Oil, Water
Dakota	7329'	Sandstone	Gas, Oil, Water
Proposed Total Depth	7619'		

Fresh water zones will be adequately protected by setting and cementing the surface casing.  
All zones containing commercial quantities of oil or gas will be cased and cemented.

## EnerVest Operating, LLC

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### 4.3 PRESSURE CONTROL:

Maximum expected pressure is ~1676(.22 pressure gradient) psi. The drilling contract has not yet been awarded, thus the exact BOP and Choke Manifold model to be used is not yet known. A typical 11" 2000 psi model is pictured in Exhibits A & B.

A remote accumulator will be used, the pressures, capacities location of the remote and manual controls will be identified at the time of the BLM supervised BOP test.

BOP equipment, accumulator, choke manifold and all accessories will meet or exceed BLM requirements as listed in Onshore Order #2 for the 2M systems. The pressure control equipment considerations include but will not be limited to:

1. BOP will be a double gate ram preventer with a set of blind rams and a set of properly-sized pipe rams.
2. Accumulator will have sufficient capacity to close the BOP rams and retain 200 psi above pre charge.
3. Accumulator fluid volume is to be maintained at manufacturer's recommendations.
4. BOP will also have manual closing handles available.
5. 2" minimum kill line and kill line valves (2).
6. Choke manifold (2" lines) with 2 adjustable chokes with valves and gauge.
7. Manually operated Kelly cocks available.
8. Safety valve and sub(s) with adequate opening for all drill strings used.
9. Fill line and flow line above the upper-most BOP rams.

BOPs will be pressure tested; after initial installation, before drilling out from under all set and cemented casing strings and any time a seal is broken. The BOPs will also be pressure tested a minimum of once every 21 days by a 3<sup>rd</sup> party. Additionally, the BOPs will be operationally checked every 24 hours.

All tests and pressure tests will be recorded on IADC log.

Ram type preventors, choke manifold and related pressure control equipment will be pressure tested to the rated working pressure of 2000 psi (high) and 250 psi (low).

The casing strings will be pressure tested per BLM Onshore Order #2 for 30 min as follows:

- a. Surface casing tested to 600 psi prior to drilling out the shoe.
- b. Intermediate casing tested to 1500 psi prior to drilling out the shoe. **(If intermediate casing is used.)**
- c. Production casing will be tested to 6000 psi (for either 4 ½" 11.6# N-80 or 5 ½" 17# N-80) at the commencement of completion operations.

## EnerVest Operating, LLC

Jicarilla A # 7F

660' FNL, 2053' FWL Unit C Sec. 17, T26N R05W Rio Arriba County, NM

GL Elev: 6640'

### 4.4 PROPOSED CASING PROGRAM (S):

The casings program is designed to use **Option A** below. If while drilling the hole conditions indicate that an intermediate casing may be needed then **Option B** will be used.

#### Casing Option A

Hole/Casing Description	Hole Size	Casing OD	Weight lb/ft	Grade	Age	Connection	Top MD	Bottom MD
Surface	12 1/4"	9 5/8"	36	J-55	New	ST&C	0	500'
Prod Casing (1)	8 3/4"	5 1/2"	17	N-80	New	LT&C	0	3264'
Prod Casing (2)	7 7/8"	5 1/2"	17	N-80	New	LT&C	3264'	7619'

Surface casing is to be cemented to surface. The production casing is to be cemented in 3 stages covering all zones of production potential and the 3<sup>rd</sup> stage is intended to circulate cement to surface.

#### Casing Option B

Hole/Casing Description	Hole Size	Casing OD	Weight lb/ft	Grade	Age	Connection	Top MD	Bottom MD
Surface	12 1/4"	9 5/8"	36	J-55	New	ST&C	0	500'
Intermediate	8 3/4"	7"	23	J-55	New	LT&C	0	3264'
Prod Casing	6 1/4"	4 1/2"	11.6	N-80	New	LT&C	0	7619'

Surface and Intermediate casings are to be cemented to surface, production casing is intended to be cemented with a 200' overlap into the intermediate casing.

### 4.5 CASING CEMENT:

A prototypical cementing program is listed as follows, site-specific cement designs will be produced for each well as the hole conditions warrant. The cement program will be designed to meet the BLM Onshore Order #2 and NMOCD requirements.

**Surface casing** will be cemented to the surface.

Cement and properties; Mix and pump 225 sacks (313 cu ft) Type III cement (or equivalent) cement. Slurry density is to be 14.6 (yield = 1.39 cu ft/sx). Volume will include 100% excess. Cement is to be displaced using a top plug.

**EnerVest Operating, LLC**

**Jicarilla A # 7F**

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Two centralizers will be run on the shoe joint, one centralizer each on the next two joints and then one centralizer on every third joint thereafter.

The surface casing will be pressure tested to 600 psi prior to drilling out the shoe.

**Production casing (for Casing Option A only)** will be cemented in 3 stages covering all zones of production potential and the 3<sup>rd</sup> stage is intended to circulate cement to surface. Volumes based on 50% OH excess cement for stage 1 and 45% for stages 2 and 3.

Stage 1 Lead cement; mix and pump 137 sacks (292 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

Stage 1 Tail cement; mix and pump 418 sacks (840 cu ft) premium lite high strength cement with CaCl<sub>2</sub>, cellophane, gilsonite and fluid loss agent. Slurry density is to be 12.5 (yield = 2.01 cu ft/sx).

DV tool at +/- 3264 ft.

Stage 2 Lead cement; mix and pump 90 sacks (191 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

Stage 2 Tail cement; mix and pump 50 sacks (69 cu ft) Type III cement (or equivalent) cement. Slurry density is to be 14.6 (yield = 1.39 cu ft/sx). or equivalent cement.

DV tool at +/- 2554 ft.

Stage 3 Lead cement; mix and pump 384 sacks (818 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

Stage 3 Tail cement; mix and pump 50 sacks (69 cu ft) Type III cement (or equivalent) cement. Slurry density is to be 14.6 (yield = 1.39 cu ft/sx). or equivalent cement.

Two centralizers will be run on the shoe joint, one centralizer on every third joint into the surface casing.

**Intermediate casing (for Casing Option B only)** will be cemented to surface in 2 stages, stage tool to be set at +/- 2554'. Cement will be designed to circulate to surface. Volumes will be based on 45% excess in OH.

Stage 1 Lead cement; mix and pump 40 sacks (85 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

## **EnerVest Operating, LLC**

**Jicarilla A # 7F**

660' FNL, 2053' FWL Unit C Sec. 17, T26N R05W Rio Arriba County, NM  
GL Elev: 6640'

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Stage 1 Tail cement; mix and pump 50 sacks (70 cu ft) Type III cement (or equivalent) cement. Slurry density is to be 14.6 (yield = 1.39 cu ft/sx). or equivalent cement.

DV tool @ +/- 2554 ft.

Stage 2 Lead cement; mix and pump 201 sacks (429 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

Stage 2 Tail cement; mix and pump 50 sacks (70 cu ft) Type III cement (or equivalent) cement. Slurry density is to be 14.6 (yield = 1.39 cu ft/sx). or equivalent cement.

Two centralizers will be run on the shoe joint, one centralizer on every other joint for 14 joints and then one centralizer on every third joint thereafter.

The Intermediate casing will be pressure tested to 1500 psi prior to drilling out the shoe.

**Production casing (for Casing Option B only)** will be cemented into the intermediate casing with a minimum of 200 ft overlap. Volumes based on 45% excess in OH.

Lead cement; mix and pump 79 sacks (167 cu ft) premium lite slurry with CaCl<sub>2</sub>, cello flake and gilsonite. Estimated slurry density is to be 12.1 (yield = 2.13 cu ft/sx).

Tail cement; mix and pump 239 sacks (481 cu ft) premium lite high strength cement with CaCl<sub>2</sub>, cellophane, gilsonite and fluid loss agent. Slurry density is to be 12.5 (yield = 2.01 cu ft/sx).

Two centralizers will be run on the shoe joint, one centralizer on every other joint into the intermediate casing, then every 3<sup>rd</sup> joint to surface.

**The production casing will be pressure tested for 30 minutes at the commencement of completion operations as outlined above**

Where cement has not been circulated to surface (or to planned depth) a CBL or temperature survey will be run to determine the TOC for that casing string. A CBL log will be run in the production casing prior to the commencement of completion operations.

Cement specifications may vary slightly due to cement type and cement contractor availability.

## EnerVest Operating, LLC

Jicarilla A # 7F

660' FNL, 2053' FWL Unit C Sec. 17, T26N R05W Rio Arriba County, NM  
GL Elev: 6640'

### 4.6 MUD PROGRAM

Depth	Type	Wt / pp	Visc	Fluid Loss
0-500'	FW gel/Lime Spud Mud	8.4-9.0	30-40	N/C
500'-3264'	LSND/Gel sweeps, LCM as needed	8.5-9.4	40-60	20-40 cc
3264'- 7619'	LSND/Gel sweeps, LCM as needed	8.5-9.4	20-40	6-10 cc

The well will be drilled utilizing a closed loop mud handling system. The closed loop system will comply with the NMOCD pit rules pertaining to the use of the system and disposal of the drill cuttings and waste. Drilling mud will be moved for re-use to drill subsequent wells whenever possible.

Viscosity, mud weight and other physical and chemical characteristics of the drilling mud will be varied as required to keep the hole clean, circulate drill cuttings, prevent caving, prevent lost circulation and maximize penetration rate.

Sufficient mud and materials will be kept on site to maintain mud properties and meet lost circulation or mud weight requirements at all times.

Mud design may change depending on well conditions, LCM, fluid loss and viscosity will be determined by the EnerVest representative and the mud engineer on site.

### 4.7 CORING, TESTING, & LOGGING

No cores or drill stem tests are planned. Well logs to be run are:

#### Casing Option A

**500' to TD;** GR/ Cement Bond Log, at the commencement of completion operations.

**1000' to TD;** GR/Induction/Density Neutron. (Cased hole GR/Neutron will be run if the hole conditions do not allow the use of the open hole logs)

#### Casing Option B

**500' to 3264';** GR/ Cement Bond Log, if cement is not circulated to surface in intermediate casing.

**3264' to TD;** GR/Induction/Density Neutron. (Cased hole GR/Neutron will be run if the hole conditions do not allow the use of the open hole logs)

Deviation surveys will be run at 500 ft intervals and at the base of each hole section prior to setting casing.



## **EnerVest Operating, LLC**

**Jicarilla A # 7F**

660' FNL, 2053' FWL Unit C Sec. 17, T26N R05W Rio Arriba County, NM  
GL Elev: 6640'

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### **4.8 ANTICIPATED PRESSURES AND TEMPERATURES:**

- |    |   |            |
|----|---|------------|
| a. | Expected bottom hole pressure:                | < 1676 psi |
| b. | Anticipated abnormal pressure:                | None       |
| c. | Anticipated abnormal temperatures:            | None       |
| d. | Anticipated hazardous gas (H <sub>2</sub> S): | None       |

If any of the foregoing conditions are unexpectedly encountered, suitable steps will be taken to mitigate according to accepted industry best practices.

### **4.9 OTHER INFORMATION:**

The anticipated spud date is spring 2013. The spud date will be dependent on the weather conditions, road conditions and the Conditions of Approval.

The dirt work for road and well pad construction will commence upon approval of the APD and will be dependent on weather conditions.

The well will be spud after well pad construction is complete and a suitable rig becomes available. The duration of drilling operations is expected to be from two to three weeks. The drilling rig and associated equipment will be removed and preparations will be made for the completion of the well.

Completion will start about one to four weeks after the finish of the drilling operations. A completion rig will be moved in for the completion phase. The completion phase of the well is expected to +/- two weeks. The completion phase will include; perforating, acidizing, fracture stimulation and well testing.

Some events/situations may arise that could potentially change the starting date or project duration that are out of EnerVest's control. If such events/situations arise, the proper officials will be promptly notified.

**EnerVest Operating, LLC**  
**Jicarilla A #7F**  
660' FNL, 2053' FWL Unit C Sec 17, T26N, R05W Rio Arriba, NM

**Surface Use Plan**

1. **DIRECTIONS & EXISTING ROADS** (See attached Vicinity map)

The location is approximately 32 miles NW of the intersection of US Hwy 550 and NM Hwy 537

Latitude: N 36.49262

Latitude: W 107.38499

From Intersection of US Hwy 550 and NM State Hwy 537: Turn north on Hwy 537 for 28 miles, turn left on J-6 for 8.0 mi, turn right on J-63, go 5.3 mi, turn right, go 0.2 mi, stay left, go 0.4 mi, stay right, go 0.2 mi to location on left.

2. **ROAD TO BE BUILT OR UPGRADED**

- A. Drilling of this well will require the construction of 37' of new access road from the existing access road as shown on the Access Plat. After the well is completed as a commercial producer, the need for a pipeline is ascertained, it is proposed to construct a tie-in at the South side of the location to an existing Williams pipeline which runs adjacent to the location and the existing access road.
- B. Width: 20 ft running surface; 40 ft total ROW with is applied for to accommodate access and drainage installation along the road.
- C. Maximum grade: 0-1%.
- D. Turnouts: No turnouts are planned for this access road.
- E. Drainage design: The drainage design for the proposed new access road will be in conformance with Jicarilla Apache Tribal and BIA standards – with the agreement of the of the Jicarilla Apache Tribe. It is proposed to build a drainage holding and diversion pond near location if needed to prevent location erosion and divert drainage around the location. Any area used in this fashion will have been reviewed and given clearance for the possible archaeological and environmental impact.
- F. Location and size of culverts: None are required.
- G. Surface Materials: No gates, cattle guards or fences to be installed along the access road or the location. Road base material may be used as necessary during the drilling and completion phases of this project.

3. **SURFACE OWNERSHIP**

The surface ownership of the well site location and access roads are all on Jicarilla Apache Nation land.

4. **EXISTING WELLS** (See the Vicinity map)

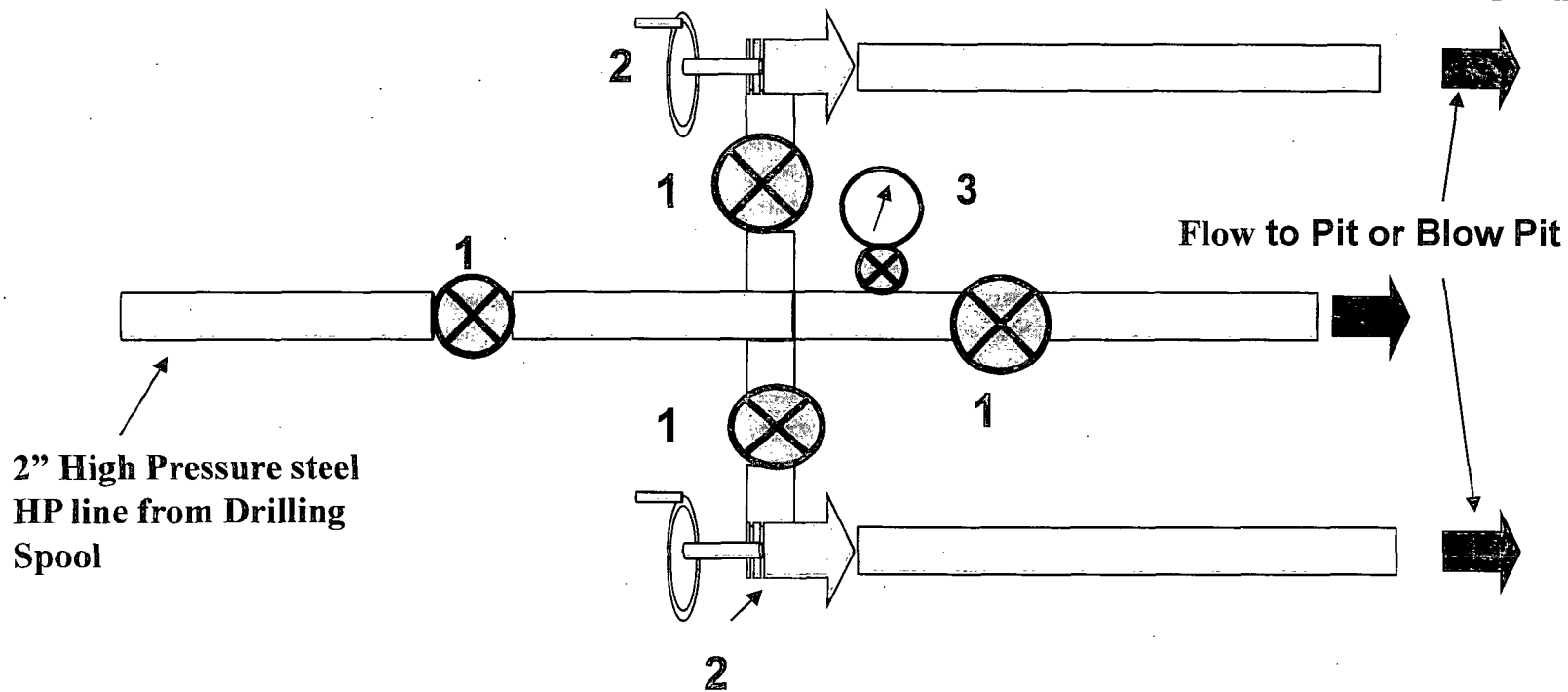
This is a development location. There are twenty-six existing wells within a one-mile radius of the proposed location as shown on the Vicinity map.

## Exhibit B

**EnerVest  
Jicarilla 2013 Drilling  
Program  
2000 psi Choke Manifold**

### Components

1. 2" Valves (2M)
2. Adjustable Chokes
3. Gauge



**EnerVest  
Jicarilla 2013  
Drilling Program  
Blowout Preventer  
2000 psi**

**Exhibit A**

**Components**

1. Wellhead 9 5/8"
2. Drilling Spool
3. Pipe Rams
4. Blind Rams
5. Spool
6. 2" Check Valve
7. 2" Manual Valves

