Hydrogen Sulfide Drilling Operations Plan

Franklin 18 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit C, Section 18

T15S-R31E, Chaves County, NM

30-005-29138

- 1 All Company and Contract personnel admitted on location must be trained by a qualified H₂S safety instructor to the following:
 - A. Characteristics of H₂S
 - B. Physical effects and hazards
 - C. Proper use of safety equipment and life support systems.
 - D. Principle and operation of H₂S detectors, warning system and briefing areas.
 - E. Evacuation procedure, routes and first aid.
 - F. Proper use of 30 minute pressure demand air pack.

2 H₂S Detection and Alarm Systems:

A. H₂S detectors and audio alarm system to be located at bell nipple, end of flow line (mud pit) and on derrick floor or doghouse.

3 Windsock and/or wind streamers:

- A. Windsock at mudpit area should be high enough to be visible.
- B. Windsock at briefing area should be high enough to be visible.

4 Condition Flags and Signs:

- A. Warning sign on access road to location.
- B. Flags to be displayed on sign at entrance to location. Green flag indicates normal safe condition. Yellow flag indicates potential pressure and danger. Red flag indicates danger (H₂S present in dangerous concentration). Only emergency personnel admitted to location.

5 Well control equipment:

A. See exhibit "E"

6 Communication:

- A. While working under masks chalkboards will be used for communication.
- B. Hand signals will be used where chalk board is inappropriate.
- C. Two way radio will be used to communicate off location in case of emergency help is required. In most cases cellular telephones will be available at most drilling foreman's trailer or living quarters.

7 <u>Drillstem Testing:</u>

No DSTs or cores are planned at this time.

- 8 Drilling contractor supervisor will be required to be familiar with the effects H₂S has on tubular goods and other mechanical equipment.
- 9 If H₂S is encountered, mud system will be altered if necessary to maintain control of formation. A mud gas seperator will be brought into service along with H₂S scavengers if necessary.

H₂S Contingency Plan Franklin 18 Federal Com No. 2 Cimarex Energy Co. of Colorado Unit C, Section 18 T15S-R31E, Chaves County, NM

Emergency Procedures

In the event of a release of gas containing H₂S, the first responder(s) must:

- ★ Isolate the area and prevent entry by other persons into the 100 ppm ROE.
- ★ Evacuate any public places encompassed by the 100 ppm ROE.
- ★ Be equipped with H₂S monitors and air packs in order to control the release.
- ★ Use the "buddy system" to ensure no injuries occur during the response.
- ★ Take precautions to avoid personal injury during this operation.
- ★ Contact operator and/or local officials to aid in operation. See list of phone numbers attached.
- ★ Have received training in the:
 - ♦ Detection of H₂S, and
 - Measures for protection against the gas,
 - Equipment used for protection and emergency response.

Ignition of Gas Source

Should control of the well be considered lost and ignition considered, take care to protect against exposure to Sulfur Dioxide (SO₂). Intentional ignition must be coordinated with the NMOCD and local officials. Additionally, the NM State Police may become involved. NM State Police shall be the Incident Command on scene of any major release. Take care to protect downwind whenever there is an ignition of the gas.

Characteristics of H₂S and SO₂

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Common	Chemical	Specific	Threshold	Hazardous	Lethal	
Name	Formula	Gravity	Limit	Limit	Concentration	
Hydrogen Sulfide	H₂S	1.189 Air=1	10 ppm	100 ppm/hr	600 ppm	
Sulfur Dioxide	SO ₂	2.21 Air=1	2 ppm	N/A	1000 ppm	

Contacting Authorities

Cimarex Energy Co. of Colorado's personnel must liaise with local and state agencies to ensure a proper response to a major release. Additionally, the OCD must be notified of the release as soon as possible but no later than 4 hours. Agencies will ask for information such as type and volume of release, wind direction, location of release, etc. Be prepared with all information available including directions to site. The following call list of essential and potential responders has been prepared for use during a release. Cimarex Energy Co. of Colorado's response must be in coordination with the State of New Mexico's "Hazardous Materials Emergency Response Plan" (HMER).

H₂S Contingency Plan Emergency Contacts

Franklin 18 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit C, Section 18

T15S-R31E, Chaves County, NM

Company Office Cimarex Energy Co. of Colorado	800-969-4789			
Co. Office and After-Hours Menu	1			
Key Personnel				
Name	Title	Office		Mobile
Doug Park	Drilling Manager	972-443-6463		972-333-1407
Dee Smith	Drilling Super	972-443-6491		972-882-1010
lim Evans	Drilling Super	972-443-6451		972-465-6564
Roy Shirley	Field Super			432-634-2136
<u>Artesia</u>				
Ambulance		911		
State Police		575-746-2703		
City Police		575-746-2703		
Sheriff's Office		575-746-9888		
Fire Department		575-746-2701		
Local Emergency Planning Co	mmittee	575-746-2122		
New Mexico Oil Conservation		575-748-1283		
Carlsbad				
Ambulance Ambulance		911		
State Police		575-885-3137		
City Police		575-885-2111		
Sheriff's Office		575-887-7551		
Fire Department		575-887-3798		
Local Emergency Planning Co	mmittee	575-887-6544		
US Bureau of Land Managem		575-887-6544		
Santa Fe				
New Mexico Emergency Resp	onse Commission (Santa Fe)	505-476-9600		
	oonse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emergence		505-476-9635	_	
	, ,			
National				
National Emergency Respons	e Center (Washington, D.C.)	800-424-8802		
Medical				
Flight for Life - 4000 24th St.;	Lubbock, TX	806-743-9911		
Aerocare - R3, Box 49F; Lubb		806-747-8923		
	ile Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
	rk Carr Loop S.E.; Albuquerque, NM	505-842-4949	-	
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
			or	
Cudd Pressure Control		432-699-0139	OI	432-563-3356
Cudd Pressure Control Halliburton		432-699-0139 575-746-2757		432-303-3330

Surface Use Plan

Franklin 18 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit C, Section 18

T15S-R31E, Chaves County, NM

- 1 <u>Existing Roads:</u> Area maps, Exhibit "B" is a reproduction of Eddy Co. General Highway Map. Exhibit "C" is a reproduction of a USGS Topographic Map, showing existing roads and proposed roads. All existing roads will be maintained in a condition equal to or better than current conditions. Any new roads will be constructed to BLM specifications.
 - A. Exhibit "A" shows the proposed well site as staked.
 - B. From mile marker 30 of Hwy 249, go West 0.25 miles to gate and trail road. Follow trail road North for 0.5 miles to proposed lease road.
- 2 Planned Access Roads: 119.8' of on-lease access road will be constructed.
- 3 Location of Existing Wells in a One-Mile Radius Exhibit A
 - A. Water wells None known
 - B. Disposal wells None known
 - C. Drilling wells None known
 - D. Producing wells As shown on Exhibit "A"
 - E. Abandoned wells As shown on Exhibit "A"
- 4 If on completion this well is a producer, Cimarex Energy Co. of Colorado will furnish maps and/or plats showing on site facilities or off site facilities if needed. This will be accompanied by a Sundry Notice.
- 5 Location and Type of Water Supply:

Water will be purchased locally from a commercial source and trucked over the access roads or piped in flexible lines laid on top of the ground.

6 Source of Construction Material:

If possible, construction will be obtained from the excavation of drill site. If additional material is needed, it will be purchased from a local source and transported over the access route as shown on Exhibit "C".

Surface Use Plan Franklin 18 Federal Com No. 2

Cimarex Energy Co. of Colorado Unit C, Section 18

T15S-R31E, Chaves County, NM

7 Methods of Handling Waste Material:

- A. Drill cuttings will be seperated by a series of solids removal equipment and stored in steel containment pits and then hauled to a state-approved disposal facility.
- B. All trash, junk and other waste material will be contained in trash cages or bins to prevent scattering. When the job is completed all contents will be removed and disposed of in an approved sanitary land fill.
- C. Salts remaining after completion of well will be picked up by supplier including broken sacks.
- D. Sewage from living quarters will drain into holding tanks and be cleaned out periodically. A Porta-John will be provided for the rig crews. This equipment will be properly maintained during the drilling operations and removed upon completion of the well.
- E. Drilling fluids will be contained in steel pits in a closed circulating system. Fluids will be cleaned and reused. Water produced during testing will be contained in the steel pits and disposed of at a state approved disposal facility. Any oil or condensate produced will be stored in test tanks until sold and hauled from the site.

8 Ancillary Facilities:

A. No camps or airstrips to be constructed.

9 Well Site Layout:

- A. Exhibit "D" shows location and rig layout.
- C. Mud pits in the closed circulating system will be steel pits and the cuttings will be stored in steel containment pits.
- D. Cuttings will be stored in steel pits until they are hauled to a state-approved disposal facility.
- E. If the well is a producer, those areas of the location not essential to production facilities will be reclaimed and seeded per BLM requirements.

10 Plans for Restoration of Surface:

Rehabilitation of the location will start in a timely manner after all drilling operations cease. The type of reclamation will depend on whether the well is a producer or a dry hole.

Drainage systems, if any, will be reshaped to the original configuration with provisions made to alleviate erosion. These may need to be modified in certain circumstances to prevent inundation of the location's pad and surface facilities. After the area has been shaped and contoured, topsoil from the spoil pile will be placed over the disturbed area to the extent possible. Revegetation procedures will comply with BLM standards.

If the well is a dry hole, the pad and road area will be recountoured to match the existing terrain. Topsoil will be spread to the extent possible. Revegetation will comply with BLM standards.

Should the well be a producer, the previously noted procedures will apply to those areas which are not required for production facilities.

Surface Use Plan
Franklin 18 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit C, Section 18
T15S-R31E, Chaves County, NM

11 Other Information

- A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin oak.
- B. The wellsite is on surface owned by Department of the Interior, Bureau of Land Management. The land is used mainly for farming, cattle ranching, recreational use, and oil and gas production.
- C. An Archaeological survey will be conducted on the location and proposed roads, and this report will be filed with the Bureau of Land Management in the Roswell BLM office.
- D. There are no know dwellings within 1½ miles of this location.

Operator Certification Statement
Franklin 18 Federal Com No. 2
Cimarex Energy Co. of Colorado
Unit C, Section 18
T15S-R31E, Chaves County, NM

Operator's Representative

Cimarex Energy Co. of Colorado 600 N. Marienfeld St., Ste. 600 Midland, TX 79701

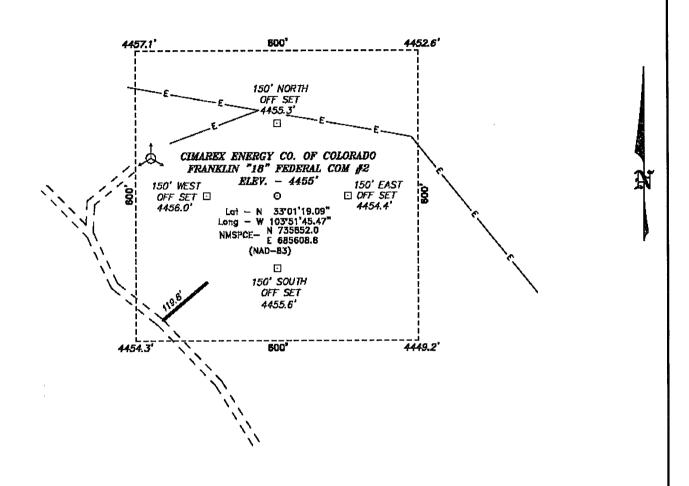
Office Phone: 432-571-7800

Natalie Krueger

CERTIFICATION: I hereby certify that the statements and plans made in this APD are, to the best of my knowledge, true and correct; and that the work associated with the operations proposed herein will be performed by Cimarex Energy Co. of Colorado and/or its contractors/subcontractors and is in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provision of U.S.C. 1001 for the filing of a false statement.

NAME:\	ataly thuse	
<u> </u>	Natalie Krueger	
DATE:	February 5, 2010	
TITLE:	Regulatory	

SECTION 18, TOWNSHIP 15 SOUTH, RANGE 31 EAST, N.M.P.M., CHAVES COUNTY. NEW MEXICO.



Directions to Location:

FROM MILE MARKER 30 OF HWY 249, GO WEST 0.25 MILES TO GATE AND TRAIL ROAD, FOLLOW TRAIL ROAD NORTH FOR 0.5 MILES TO PROPOSED LEASE ROAD.

BASIN SURVEYS P.O. BOX 1786-HOBBS, NEW MEXICO

W.O. Number: 21961 Drawn By: J. SMALL

Date: 11-17-2009 Disk: JMS 21961

200 0 200 400 FEET

SCALE: 1* = 200'

CIMAREX ENERGY CO. OF COLORADO

REF: FRANKLIN "18" FEDERAL COM #2 / WELL PAD TOPO

THE FRANKLIN "18" FEDERAL COM #2 LOCATED 430'

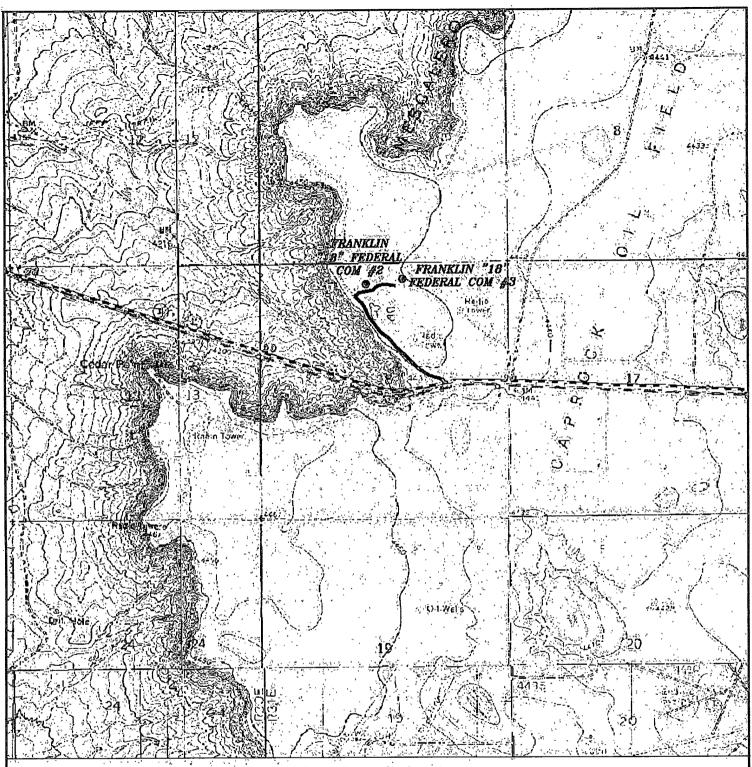
FROM THE NORTH LINE AND 2200' FROM THE WEST LINE OF

SECTION 18, TOWNSHIP 15 SOUTH, RANGE 31 EAST,

N.M.P.M., CHAVES COUNTY, NEW MEXICO.

Survey Date: 11-16-2009 Sheet 1 of 1 Sheets

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FRANKLIN "18" FEDERAL COM #2

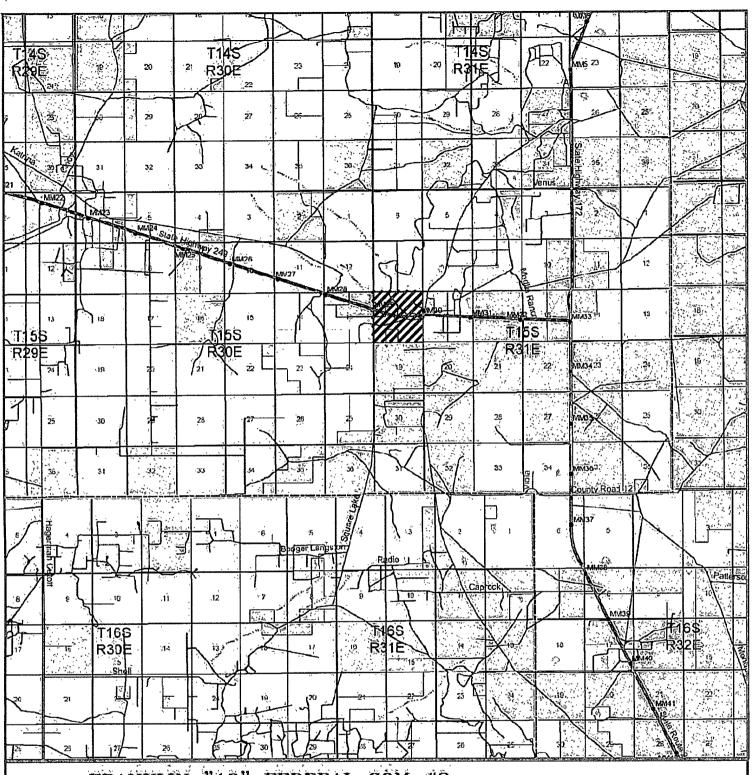
Section 18, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 - Office (575) 392-2206 - Fax basinsurveys.com

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	Date: 11-17-2009	

CIMAREX ENERGY CO. OF COLORADO



FRANKLIN "18" FEDERAL COM #2 Located 430' FNL and 2200' FWL Section 18, Township 15 South, Range 31 East, N.M.P.M., Chaves County, New Mexico.



P.O. Box 1786 1120 N. West County Rd. Hobbs, New Mexico 88241 (575) 393-7316 — Office (575) 392-2206 — Fax basinsurveys.com

1	W.O. Number: JMS 21961	ا
	Survey Date: 11-16-2009	3
	Scale: 1" = 2 Miles	4
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CIMAREX ENERGY CO. OF COLORADO

Patriot Rig 4

Cimarex Energy Co. of Colorado

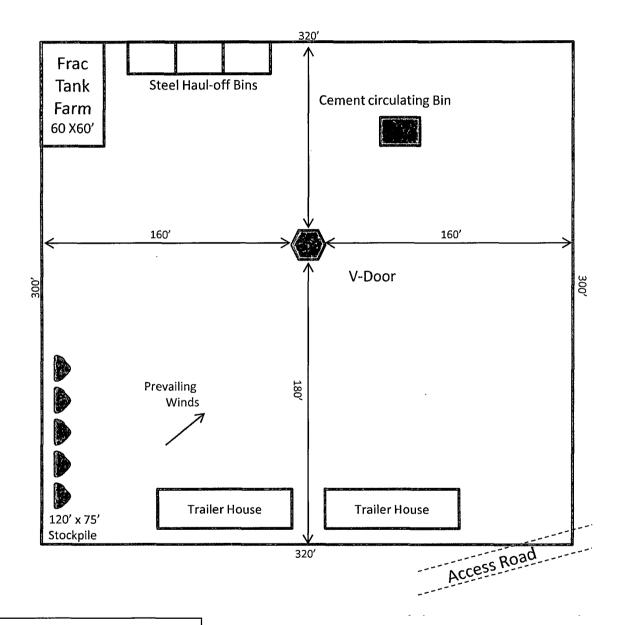
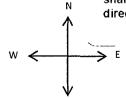
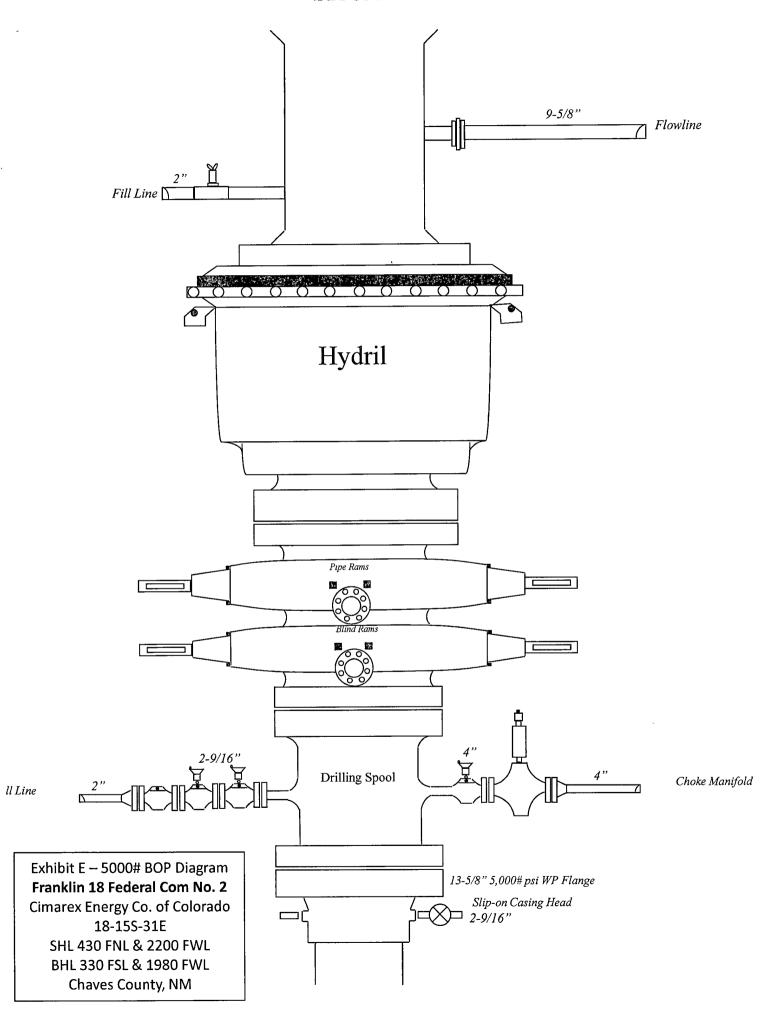


Exhibit D — Rig Layout
Franklin 18 Federal Com No. 2
Cimarex Energy Co. of Colorado
18-15S-31E
SHL 430 FNL & 2200 FWL
BHL 330 FSL & 1980 FWL
Chaves County, NM

Note: The flare line(s) discharge shall be located not less than 100 feet from the wellhead, having straight lines unless turns are targeted with running tees, and shall be positioned downwind from the prevailing wind direction and shall be anchored.





ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE

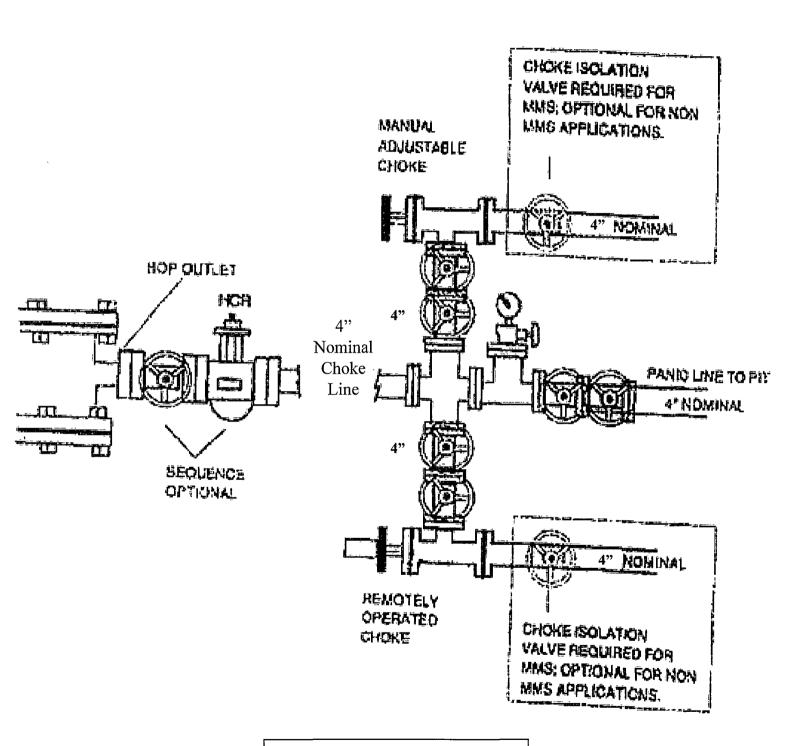


Exhibit E-1 – Choke Manifold Diagram
Franklin 18 Federal Com No. 2
Cimarex Energy Co. of Colorado
18-15S-31E
SHL 430 FNL & 2200 FWL
BHL 330 FSL & 1980 FWL
Chaves County, NM