COLARIESIA

RESUBMITTAL

Form 3160-3 (April 2004)	RECEIV	ED	ORM APPROVED OMB No 1004-0137 pires March 31, 2007
UNITED STA	1 140 1 0		
TOTAL A DATA ADALITY OF THE	TE DITEDIAN		
BUREAU OF LAND M	IANAGEMEN <mark>TNMOCD ARTI</mark>	SIA 6 If Indian, Allot	ee or Tribe Name
APPLICATION FOR PERMIT TO		SIA	
1a. Type of Work: DRILL REE	ENTER	7. If Unit or CA	Agreement, Name and No.
· .	<u> </u>	8 Lease Name an	d Well No.
1b. Type of Well: Oil Well Gas Well Other	Single ZoneMultiple Zone	Penny Pincher F	ederal Com No. 1
2. Name of Operator		9. API Well No.	
Cimarex Energy Co. of Colorado		30-015- 37 (99
3a. Address	3b. Phone No. (include area code)	10. Field and Poo	l, or Exploratory
600 N. Marienfeld St., Ste. 600; Midland, TX 79701	432-571-7800	; Bone Sprin	
4. Location of Well (Report location clearly and in accordance w	ith any State requirements.*)	11. Sec., T. R. M. or	Blk, and Survey or Area
At Surface 660 FNL & 990 FWL			
At proposed prod. Zone		21-19S-31E	
14. Distance in miles and direction from nearest town or post offi	ce*	12. County or Par	ish 13. State
		Eddy	NM
15 Distance from proposed*	16. No of acres in lease 17.	Spacing Unit dedicated to th	is well
location to nearest			
property or lease line, ft. (Also to nearest drig. unit line if	NM-34657 - 160 acres		
any) 330'			0 acres
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19 Proposed Depth 20.	BLM/BIA Bond No. on File	
N/A	9100'	NM-:	2575
21. Elevations (Show whether DF, KDB, RT, GL, etc.)	22. Approximate date work will start*	23. Estimated duration	n
3480' GR	12.15.09	25	-30 days
	24. Attachments		
The following, completed in accordance with the requirements of Or 1 Well plat certified by a registered surveyor 2. A Drilling Plan 3. A Surface Use Plan (if the location is on National Forest System SUPO shall be filed with the appropriate Forest Service Office).	4. Bond to cover the op Item 20 above) Lands, the 5. Operator Certification	perations unless covered by an	·
25. Signature our Family	Name (Printed/Typed)		Date
	Zeno Farris		02.10.10
Title			
Manager Operations Administration			
Approved By (Signature) /s/ Don Peterson	Name (Printed/Typed)		DateMAR 1 3 200
Title	Office		
FIELD MANAGER		AD FIELD OFFICE	
Application approval does not warrant or certify that the applicant holds legal conduct operations thereon. Conditions of approval, if any, are attached.	or equitable title to those rights in the subject lease		OR TWO YEARS
Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a crim States any false, fictitious, or fraudulent statements or representations as to an		any department or agency of the	United
* (Instructions on page 2)	y maner within its juristiction		

Capitan Controlled Water Basin

SEE ATTACHED FOR CONDITIONS OF APPROVAL

Approval Subject to General Requirements & Special Stipulations Attached

State of New Mexico

DISTRICT I -1625 N. PŘENCH DŘ., HOBBS, NN 60240

Energy, Minerals and Notural Resources Department

Form C-102

Revised October 12, 2005

DISTRICT: II 1301. W. GRAND AVENUE, ARTESIA, NW. 88210

DISTRICT IV

Dedicated Acres

40

Joint, or Infill

OIL CONSERVATION DIVISION 1220 SOUTH ST. FRANCIS DR.

Submit to Appropriate District Office State Lease - 4 Copies Pee Lease - 3 Coples

DISTRICT III. 1000 Rio Bruzon Rd., Aztec, NM 67410 Santa Fc, New Mexico 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

1220 S. ST. FRANCIS DR. SANTA PE, NR 87505			LI REENDED REPORT
API Number	Póol Code	Pool Name	-
30-015-37699	97020	Hack berry Bone Spring	, NW
Property Code	Property N		Well Number
37988	PENNY PINCHER	FEDERAL COM	:1
OGRID /No.	Operator N	ame	Elevation:
162683	CIMAREX ENERGY CO.	OF COLORADO	3480'

Surface Location

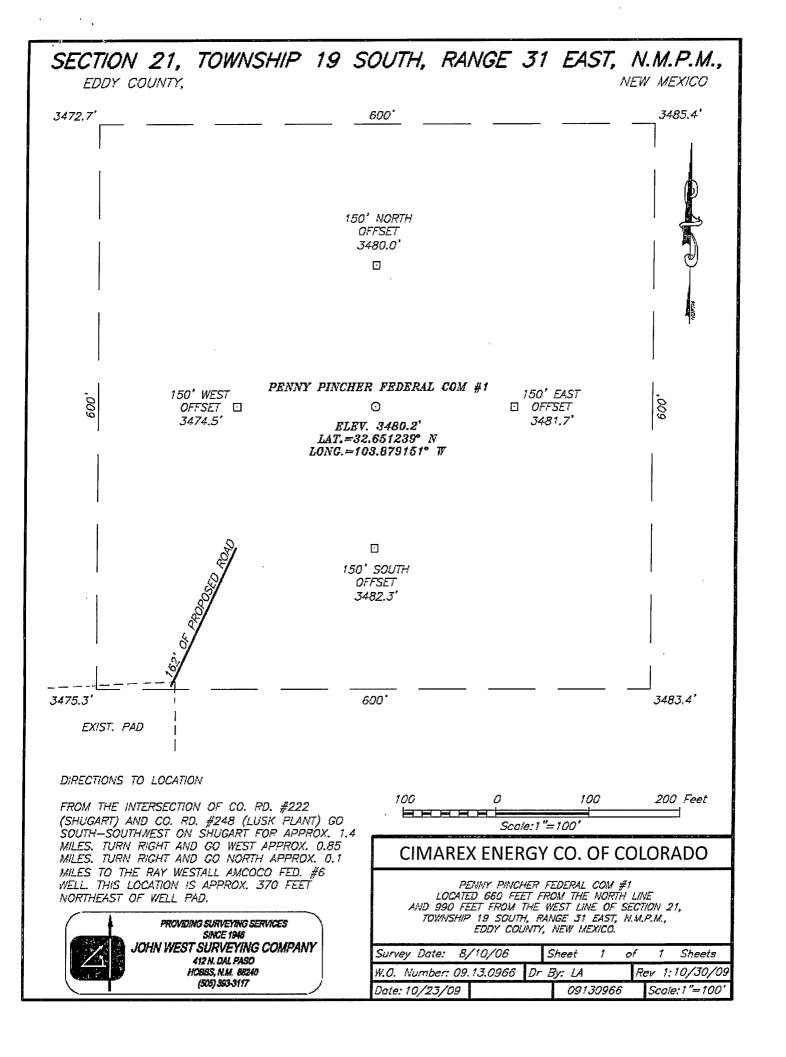
UL or lot No.	Section 2.1	Township 19-S	Range 31-E	Lot Idn	660	NORTH	990	WEST.	EDDY	
∵UL, ôr Joté Noi∴	Section	Township:	Bottom Range	Hole: Loc	- 1 ·	rent From Sur		East/West line	County	
1			,							

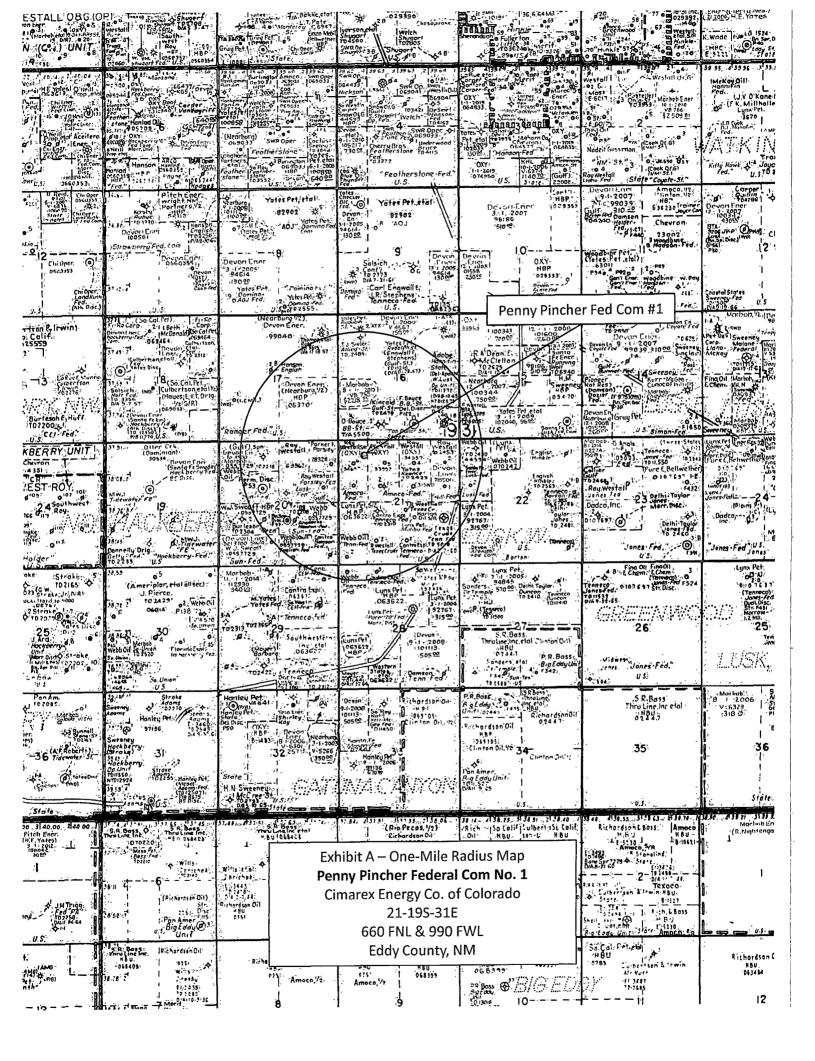
NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION

Order No.

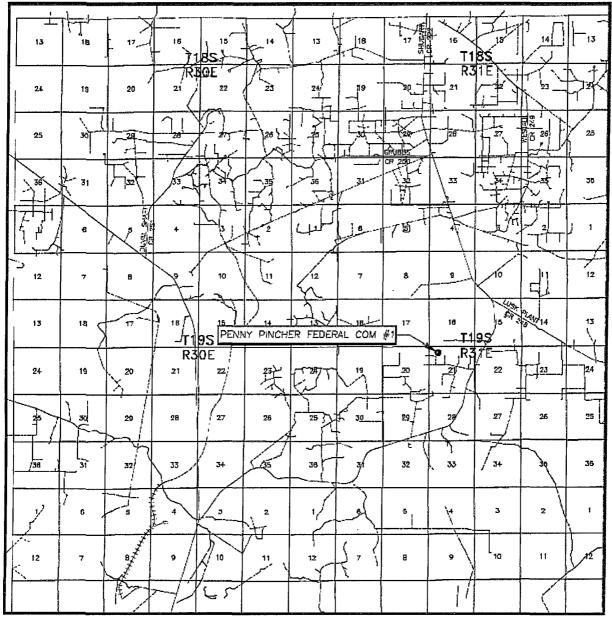
Consolidation Code

		T. I. OAVONA AFROME	
3472:7'			OPERATOR CERTIFICATION Thereby certify that the toformetion herein, is true and complete to the best of my knowledge and belief, and that this or unlessed mineral loterest 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 mineral roworking interest, or to a voluntary pooling agreement or a compulsory pooling order heretofare entered by the division.
	GEODÉTIC: COORDINATES NAD: 27 NME: SURFACÉ L'OCATION Y=600930:8*N X=639790:6 E LAT:=32:65:1239* N LONG:=103:879151* W BOTTOM: HOLE: LOCATION Y=596637:4 N X=639163:8 E		Zeno Farris Zeno Farris Printed Name SURVEYOR CERTIFICATION I hereby centify 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. BUSUS 10 2006 Date Surveyed 10 REV 30/30/09 Signature & Scal of Professional Surveyor 10/30/09 Certificate No. GARY EIDSON 8239





VICINITY MAP



SCALE: 1" = 2 MILES

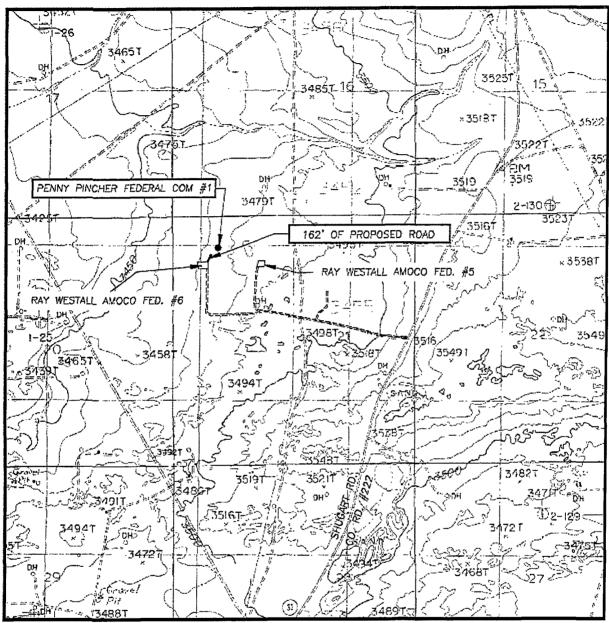
SEC. 21	_TWP19	<u>9-s</u> i	RGE3	1-E
SURVEY		<u>N.M.P.</u>	.M	
COUNTY	EDDY	_STAT	E <u>NEW</u>	MEXICO
DESCRIPTION	ON <u>.660'</u>	FNL	& 9 <u>9</u>	0' FWL
ELEVAT!ON		34	80'	· · · · · · · · · · · · · · · · · · ·
OPERATOR	CIMARE	Y ENER	GV CO	OF COLORA

OPERATOR CIMAREX ENERGY CO. OF COLORADO
LEASE PENNY PINCHER FEDERAL COM



PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

SEC. 21 TWP. 19-S RGE. 31-E

SURVEY_____N.M.P.M.

COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 660' FNL & 990' FWL

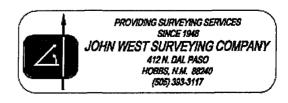
ELEVATION____ <u>3480'</u>

OPERATOI CIMAREX ENERGY CO. OF COLORADO

LEASE PENNY PINCHER FEDERAL COM

U.S.G.S. TOPOGRAPHIC MAP HACKBERRY LAKE, N.M.







Application to Drill

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy County, NM

In response to questions asked under Section II B of Bulletin NTL-6, the following information is provided for your consideration:

1 Location:

SHL

660 FNL & 990 FWL

2 Elevation above sea level:

3,480 GR

3 Geologic name of surface formation:

Quaternery Alluvium Deposits

4 Drilling tools and associated equipment:

Conventional rotary drilling rig using fluid as a circulating

medium for solids removal.

5 Proposed drilling depth:

91001

6 Estimated tops of geological markers:

Salado	680'	Capitan Dolomite	4188'
Top Salt	930'	Bell Canyon	4290'
Tansill	2335'	Bone Spring	6872'
Yates	2346'	FBSS	7755'
7 Rivers	2590'	SBSS	8640'

7 Possible mineral bearing formation:

Bone Spring

Oil

8 Proposed Mud Circulating System:

Dee
COA
CO ,

ĺ		Dept	h	Mud Wt	Visc	Fluid Loss	Type Mud	
-	0'	to	565'	8.4 - 8.6	28	NC	FW spud mud	
	565'	to	2600'	10.0	30-32	NC	Brine	
ļ	565'	to	4200'	8.4 - 8.8	28	NC	FW -	
	4200'	to	9100'	8.4 - 9.5	30-32	NC	FW, brine	

Sufficient mud materials will be kept on location at all times in order to combat lost circulation or unexpected kicks. In order to run DSTs, open hole logs, and casing, the viscosity and water loss may have to be adjusted in order to meet these needs.

Application to Drill

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado

Unit D, Section 21 T19S-R31E, Eddy County, NM

9 Casing & Cementing Program:

					599	ว์				
	String	Hole Size		Dept	h /	Casir	ng OD	Weight	Collar	Grade
Sel /	Surface 1	26"	0'	to	<i>5</i> /65'	New	20"	94#	BTC	J/K-55
COA	Surface 2	17½"	0'	to	2600'	New	13¾"	61#	BTC	J-55
(,,,	Intermediate	12¼"	0'	to	4200'	New	95/8"	40#	LTC	J/K-55
	Production	8¾"	0'	to	8690'	New	7"	26#	LTC	P-110
	Production	8¾"	8690'	to	9100'	New	2%"	2.18#	0	IJ

10 Cementing:

Surface 1

1963 sx Premium Plus + 2% CaCl₂ (wt 14.8, yld 1.35)

TOC Surface

Surface 2

Lead: 1354 sx Econocem + 3% Salt + 2% CaCl₂ + 3# Gilsonite (wt 11.7, yld 2.06)

Tail: 610 sx Premium Plus + 1% CaCl₂ (wt 14.8, yld 1.34)

TOC Surface

Intermediate

Lead: 708 sx Econocem + 3% Salt + 5 lbm/sk Gilsonite (wt 13.0, yld 1.71)

Tail: 210 sks Halcem (wt 14.8, yld 1.34)

TOC Surface - See COA

Production

Lead: 240 sx EconoCem + 3% Salt + 5 lbm/sk gilsonite (wt 13.0, yld 1.71)

Tail: 485 sx HalCem (wt 14.8, yld 1.34)

TOC 3800' - Sec COA

Fresh water zones will be protected by setting 20" casing at 565' and 13%" casing at 2600' and cementing both to surface. Hydrocarbon zones will be protected by setting 9%" casing at 4200' and cementing to surface, and by setting 7" casing at 8690' and fiberglass to 9100' and cementing to 3800.'

Collapse Factor	<u>Burst Factor</u>	Tension Factor
1.125	1.125	1.6

11 Pressure control Equipment:

A 13%" 5000 PSI working pressure BOP tested to 3000 psi consisting of one set of blind rams and one set of pipe rams and a 5000# annular type preventer. A choke manifold and 120 gallon accumulator with floor and remote operating stations and auxiliary power system. Rotating head as needed. A kelly cock will be installed and maintained in operable condition and a drill string safety valve in the open position will be available on the rig floor.

BOP unit will be hydraulically operated. BOP will be nippled up and operated at least once a day while drilling and the blind rams will be operated when out of hole during trips. No abnormal pressure or temperature is expected while drilling. From the base of the 26° surface pipe, the well will be equipped with a 2M diverter system with rotating head (see exhibit E-1). From the base of the 13%" casing through the running of production casing, the well will be equipped with a 5000 psi BOP system tested to 3000 psi.

BOPs will be tested by an independent service company to 250 psi low and 3000 psi high. Hydril will be tested to 250 psi low and 1500 psi high.

Application to Drill Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy County, NM

12 Testing, Logging and Coring Program:

A. Mud logging program: 2 man unit from 4000' to TD

→ B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR

C. No DSTs or cores are planned at this time.

13 Potential Hazards:

See COA

No abnormal pressures or temperatures are expected. In accordance with Onshore Order 6, Cimarex does not anticipate that there will be enough H₂S from the surface to the Bone Spring formations to meet the BLM's minimum requirements for the submission of an "H₂S Drilling Operation Plan" or "Public Protection Plan" for the drilling and completion of this well. Since we have an H₂S Safety package on all wells, attached is an "H₂S Drilling Operations Plan." Adequate flare lines will be installed off the mud / gas separator where gas may be flared safely. All personnel will be familiar with all aspects of safe operation of equipment being used.

Estimated BHP 3000 psi Estimated BHT 130°

14 Road and location construction will begin after BLM approval of APD. Anticipated spud date as soon as approved.

Drilling expected to take 30-35 days

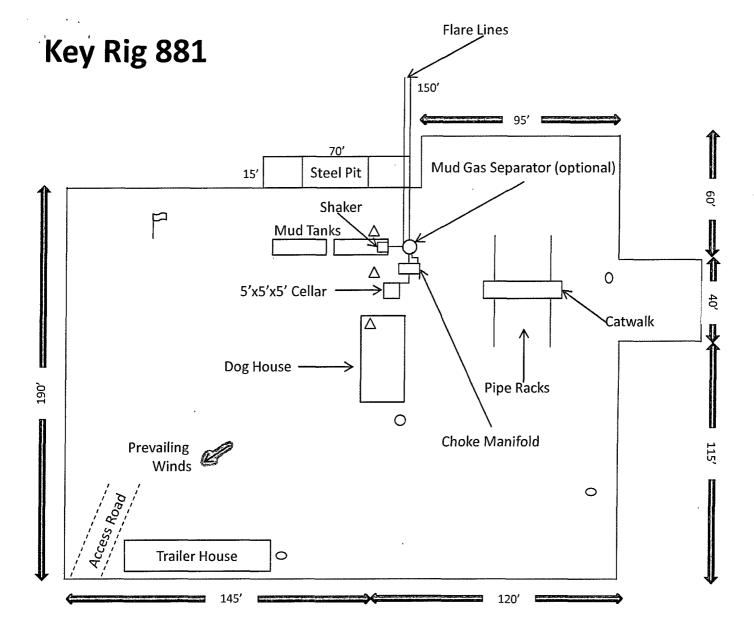
If production casing is run an additional 30 days will be required to complete and construct surface facilities.

15 Other Facets of Operations:

After running casing, cased hole gamma ray neutron collar logs will be run from total depth over possible pay intervals.

Bone Spring pay will be perforated and stimulated.

The proposed well will be tested and potentialed as an oil well.



- Wind Direction Indicators (wind sock or streamers)
- △ H2S Monitors (alarms at bell nipple and shale shaker)
- O Briefing Areas
- O Remote BOP Closing Unit

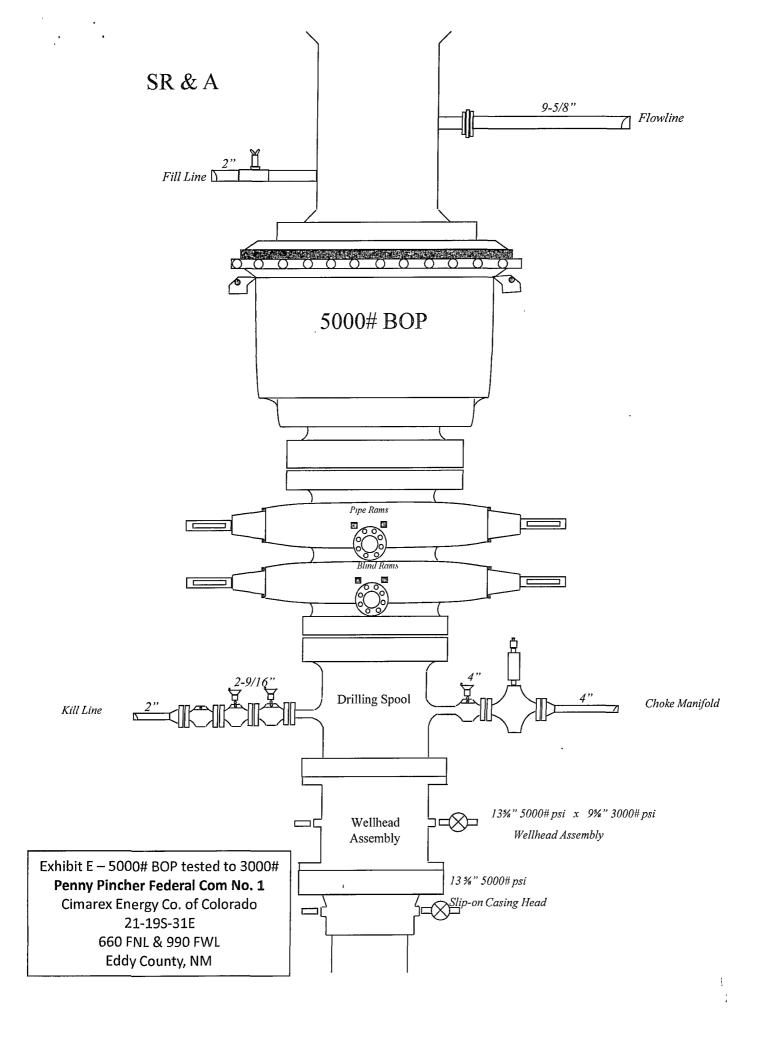
Exhibit D – Rig Diagram

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado
21-19S-31E

660 FNL & 990 FWL

Eddy County, NM



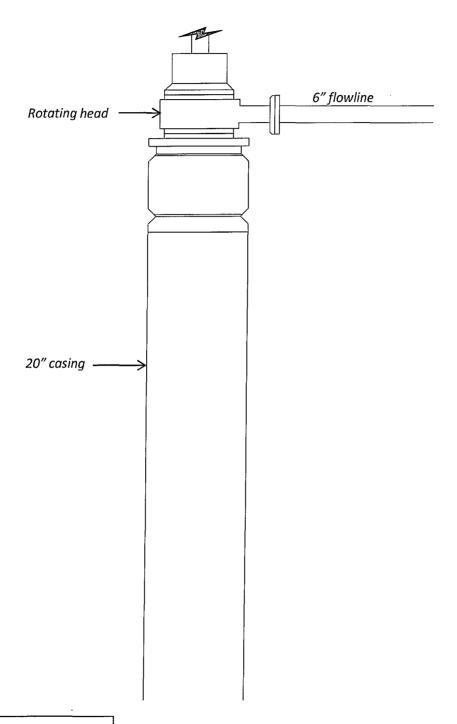


Exhibit E-1 – 20" Diverter System

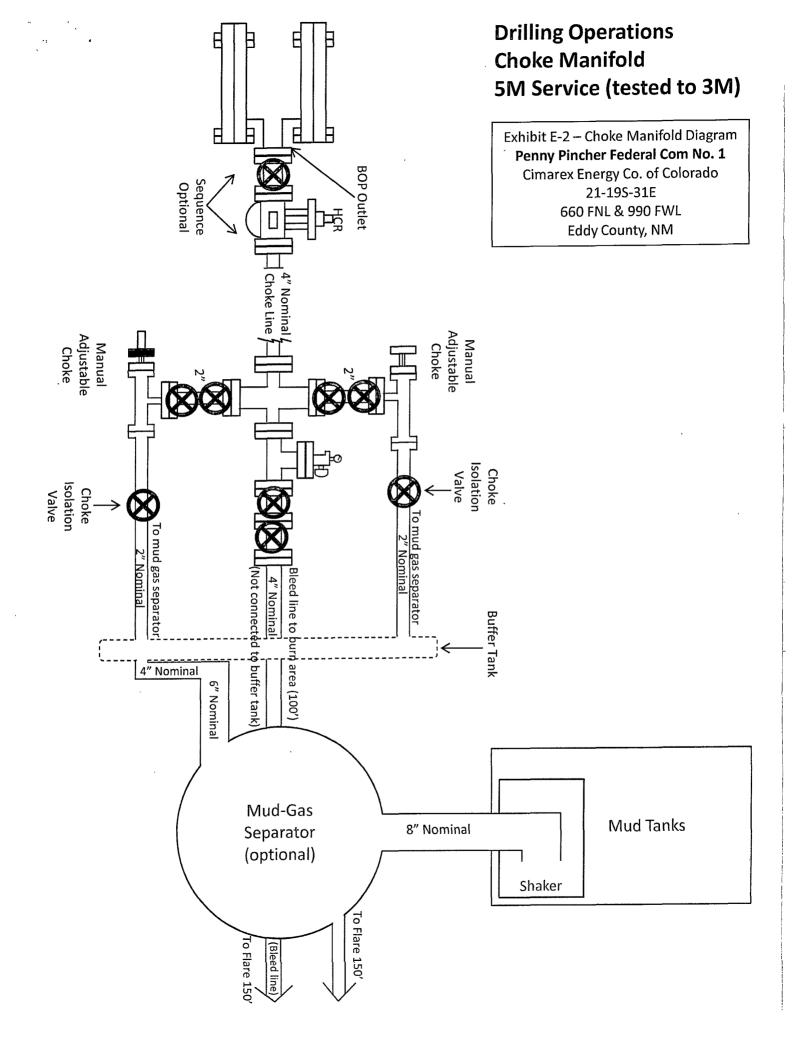
Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado

21-19S-31E

660 FNL & 990 FWL

Eddy County, NM



Hydrogen Sulfide Drilling Operations Plan

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy County, NM

- 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 Drillstem Testing:

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 Penny Pincher Federal Com No. 1 Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy 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

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

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy County, NM

Company Office	2 ADDR 10 THAN 2 ENGS 10 HOUSE 2 ADDR 20 HOUSE 10 CANCE 10 MANUAL 10 LODGE 10 MANUAL 10 LODGE 10	NI CONSTRUCTION DE CONTRA ES PESSOS ES ESTADO AS ACUASA	H E227 17 1	
Cimarex Energy Co. of Color	rado	800-969-4789		
Co. Office and After-Hours I	Menu	, vaa		
Key Personnel				
Name	Title	Office		<u> Mobile</u>
Doug Park	Drilling Manager	432-620-1934		972-333-1407
Dee Smith	Drilling Super	432-620-1933		972-882-1010
Jim Evans	Drilling Super	432-620-1929		972-465-0564
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	Committee	575-746-2122		
New Mexico Oil Conserva		575-748-1283		
<u>Carlsbad</u>				
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	Committee	575-887-6544		
US Bureau of Land Manag		575-887-6544		
Santa Fe				
New Mexico Emergency R	esponse Commission (Santa Fe)	505-476-9600		
New Mexico Emergency R	esponse Commission (Santa Fe) 24 Hrs	505-827-9126		
New Mexico State Emerge	ncy Operations Center	505-476-9635		
•				
<u>National</u>				
National Emergency Respo	onse Center (Washington, D.C.)	800-424-8802		
<u>Medical</u>				
Flight for Life - 4000 24th S	The state of the s	806-743-9911		
Aerocare - R3, Box 49F; Lu		806-747-8923		
	Yale Blvd S.E., #D3; Albuquerque, NM	505-842-4433		
SB Air Med Service - 2505	Clark Carr Loop S.E.; Albuquerque, NM	505-842-4949		-
_				
<u>Other</u>				
Boots & Coots IWC		800-256-9688	or	281-931-8884
Cudd Pressure Control		432-699-0139	or	432-563-3356
lalliburton		575-746-2757		
3.J. Services		575-746-3569		

Surface Use Plan

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy 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 the intersection of CR 222 (Shugart) and Co Rd 248 (Lusk Plant), go South/Southwest on Shugart for approx 1.4 miles. Turn right and go West approx 0.85 miles. Turn right and go North approx 0.1 miles to the Ray Westall Amoco Fed #6 well. This location is approx 370' NE of well pad.
- 2 Planned Access Roads: 162' of new access road is proposed (on lease).
- 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

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado Unit D, Section 21 T19S-R31E, Eddy 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

Penny Pincher Federal Com No. 1

Cimarex Energy Co. of Colorado

Unit D, Section 21

T19S-R31E, Eddy 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. This wellsite has been previously arched, as the original permit was procured by Marbob on 10-23-06
- D. There are no know dwellings within 1½ miles of this location.

Operator Certification Statement
Penny Pincher Federal Com No. 1
Cimarex Energy Co. of Colorado
Unit D, Section 21
T19S-R31E, Eddy County, NM

Operator's Representative

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

Office Phone: (432) 571-7800

Zeno Farris

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:	Zeno Faris		
	Zeno Farris		
DATE:	February 10, 2010		
ritle:	Manager Operations Administration		

PECOS DISTRICT CONDITIONS OF APPROVAL

OPERATOR'S NAME:

LEASE NO.:

WELL NAME & NO.:

SURFACE HOLE FOOTAGE:

BOTTOM HOLE FOOTAGE

LOCATION:

COUNTY:

Cimarex Energy Co. of Colorado

NM34657

Penny Pincher Federal Com #1

660' FNL & 990' FWL

SAME

LOCATION:

COUNTY: Section 21, T. 19 S., R 31 E., NMPM

Eddy County, New Mexico

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Standard Conditions of Approval (COA) apply to this APD. If any deviations to these standards exist or special COAs are required, the section with the deviation or requirement will be checked below.

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I. GENERAL PROVISIONS

The approval of the Application For Permit To Drill (APD) is in compliance with all applicable laws and regulations: 43 Code of Federal Regulations 3160, the lease terms, Onshore Oil and Gas Orders, Notices To Lessees, New Mexico Oil Conservation Division (NMOCD) Rules, National Historical Preservation Act As Amended, and instructions and orders of the Authorized Officer. Any request for a variance shall be submitted to the Authorized Officer on Form 3160-5, Sundry Notices and Report on Wells.

II. PERMIT EXPIRATION

If the permit terminates prior to drilling and drilling cannot be commenced within 60 days after expiration, an operator is required to submit Form 3160-5, Sundry Notices and Reports on Wells, requesting surface reclamation requirements for any surface disturbance. However, if the operator will be able to initiate drilling within 60 days after the expiration of the permit, the operator must have set the conductor pipe in order to allow for an extension of 60 days beyond the expiration date of the APD. (Filing of a Sundry Notice is required for this 60 day extension.)

III. ARCHAEOLOGICAL, PALEONTOLOGY & HISTORICAL SITES

Any cultural and/or paleontological resource discovered by the operator or by any person working on the operator's behalf shall immediately report such findings to the Authorized Officer. The operator is fully accountable for the actions of their contractors and subcontractors. The operator shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the Authorized Officer. An evaluation of the discovery shall be made by the Authorized Officer to determine the appropriate actions that shall be required to prevent the loss of significant cultural or scientific values of the discovery. The operator shall be held responsible for the cost of the proper mitigation measures that the Authorized Officer assesses after consultation with the operator on the evaluation and decisions of the discovery. Any unauthorized collection or disturbance of cultural or paleontological resources may result in a shutdown order by the Authorized Officer.

IV. NOXIOUS WEEDS

The operator shall be held responsible if noxious weeds become established within the areas of operations. Weed control shall be required on the disturbed land where noxious weeds exist, which includes the roads, pads, associated pipeline corridor, and adjacent land affected by the establishment of weeds due to this action. The operator shall consult with the Authorized Officer for acceptable weed control methods, which include following EPA and BLM requirements and policies.

V. SPECIAL REQUIREMENT(S)

Timing Limitation Stipulation/Condition of Approval for Lesser Prairie-Chicken: Oil and gas activities including 3-D geophysical exploration, and drilling will not be allowed in lesser prairie-chicken habitat during the period from March 1st through June 15th annually. During that period, other activities that produce noise or involve human activity, such as the maintenance of oil and gas facilities, geophysical exploration other than 3-D operations, and pipeline, road, and well pad construction, will be allowed except between 3:00 am and 9:00 am. The 3:00 am to 9:00 am restriction will not apply to normal, around-the-clock operations, such as venting, flaring, or pumping, which do not require a human presence during this period. Additionally, no new drilling will be allowed within up to 200 meters of leks known at the time of permitting. Normal vehicle use on existing roads will not be restricted. Exhaust noise from pump jack engines must be muffled or otherwise controlled so as not to exceed 75 db measured at 30 ft. from the source of the noise.

Ground-level Abandoned Well Marker to avoid raptor perching: Upon the plugging and subsequent abandonment of the well, the well marker will be installed at ground level on a plate containing the pertinent information for the plugged well. For more installation details, contact the Carlsbad Field Office at 575-234-5972.

Communitization Agreement: A Communitization Agreement covering the acreage dedicated to this well must be filed for approval with the BLM. The effective date of the agreement shall be prior to any sales.

VI. CONSTRUCTION

A. NOTIFICATION

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Carlsbad Field Office at (575) 234-5972 at least 3 working days prior to commencing construction of the access road and/or well pad.

When construction operations are being conducted on this well, the operator shall have the approved APD and Conditions of Approval (COA) on the well site and they shall be made available upon request by the Authorized Officer.

B. TOPSOIL

The operator shall stockpile the topsoil of the well pad. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation.

C. CLOSED LOOP SYSTEM

Closed Loop System: V-door east

Tanks are required for drilling operations: No Pits.

The operator shall properly dispose of drilling contents at an authorized disposal site.

D. FEDERAL MINERAL MATERIALS PIT

If the operator elects to surface the access road and/or well pad, mineral materials extracted during construction of the reserve pit may be used for surfacing the well pad and access road and other facilities on the lease.

Payment shall be made to the BLM prior to removal of any additional federal mineral materials from any site other than the reserve pit. Call the Carlsbad Field Office at (575) 234-5972.

E. WELL PAD SURFACING

Surfacing of the well pad is not required.

If the operator elects to surface the well pad, the surfacing material may be required to be removed at the time of reclamation.

The well pad shall be constructed in a manner which creates the smallest possible surface disturbance, consistent with safety and operational needs.

F. ON LEASE ACCESS ROADS

Road Width

The access road shall have a driving surface that creates the smallest possible surface disturbance and does not exceed fourteen (14) feet in width. The maximum width of surface disturbance, when constructing the access road, shall not exceed thirty (30) feet.

Surfacing

Surfacing material is not required on the new access road driving surface. If the operator elects to surface the new access road or pad, the surfacing material may be required to be removed at the time of reclamation.

Where possible, no improvements should be made on the unsurfaced access road other than to remove vegetation as necessary, road irregularities, safety issues, or to fill low areas that may sustain standing water.

The Authorized Officer reserves the right to require surfacing of any portion of the access road at any time deemed necessary. Surfacing may be required in the event the road deteriorates, erodes, road traffic increases, or it is determined to be beneficial for future field development. The surfacing depth and type of material will be determined at the time of notification.

Crowning

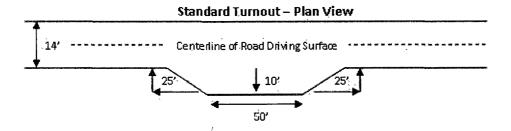
Crowning shall be done on the access road driving surface. The road crown shall have a grade of approximately 2% (i.e., a 1" crown on a 14' wide road). The road shall conform to Figure 1; cross section and plans for typical road construction.

Ditching

Ditching shall be required on both sides of the road.

Turnouts

Vehicle turnouts shall be constructed on the road. Turnouts shall be intervisible with interval spacing distance less than 1000 feet. Turnouts shall be constructed on all blind curves. Turnouts shall conform to the following diagram:

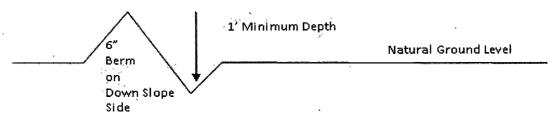


Drainage

Drainage control systems shall be constructed on the entire length of road (e.g. ditches, sidehill outsloping and insloping, lead-off ditches, culvert installation, and low water crossings).

A typical lead-off ditch has a minimum depth of 1 foot below and a berm of 6 inches above natural ground level. The berm shall be on the down-slope side of the lead-off ditch.

Cross Section of a Typical Lead-off Ditch



All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval are variable for lead-off ditches and shall be determined according to the formula for spacing intervals of lead-off ditches, but may be amended depending upon existing soil types and centerline road slope (in %);

Formula for Spacing Interval of Lead-off Ditches

Example - On a 4% road slope that is 400 feet long, the water flow shall drain water into a lead-off ditch. Spacing interval shall be determined by the following formula:

400 foot road with 4% road slope:
$$\frac{400'}{4\%} + 100' = 200'$$
 lead-off ditch interval

Culvert Installations

Appropriately sized culvert(s) shall be installed at the deep waterway channel flow crossing.

Cattleguards

An appropriately sized cattleguard(s) sufficient to carry out the project shall be installed and maintained at fence crossing(s).

Any existing cattleguard(s) on the access road shall be repaired or replaced if they are damaged or have deteriorated beyond practical use. The operator shall be responsible for the condition of the existing cattleguard(s) that are in place and are utilized during lease operations.

A gate shall be constructed and fastened securely to H-braces.

Fence Requirement

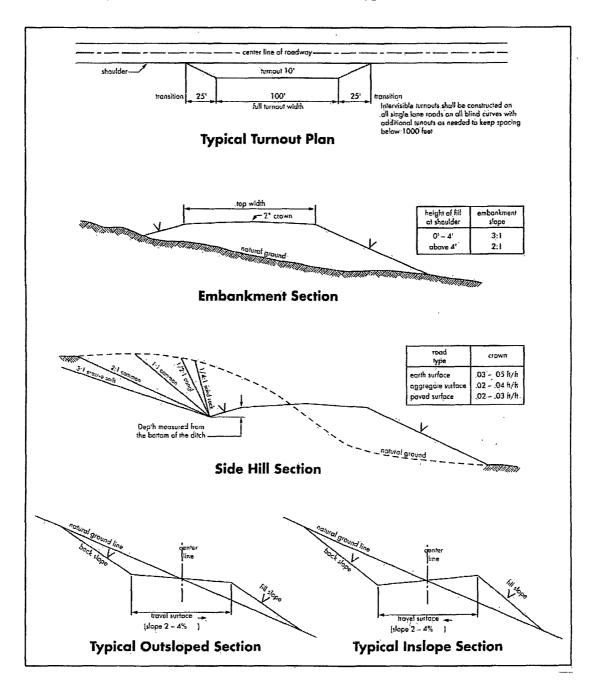
Where entry is required across a fence line, the fence shall be braced and tied off on both sides of the passageway prior to cutting.

The operator shall notify the private surface landowner or the grazing allotment holder prior to crossing any fence(s).

Public Access

Public access on this road shall not be restricted by the operator without specific written approval granted by the Authorized Officer.

Figure 1 – Cross Sections and Plans For Typical Road Sections



VII. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

The BLM is to be notified a minimum of 4 hours in advance for a representative to witness:

- a. Spudding well
- b. Setting and/or Cementing of all casing strings
- c. BOPE tests

Eddy County

Call the Carlsbad Field Office, 620 East Greene St., Carlsbad, NM 88220, (575) 361-2822

- 1. A Hydrogen Sulfide (H2S) Drilling Plan should be activated 500 feet prior to drilling into the Queen formation. As a result, the Hydrogen Sulfide area must meet Onshore Order 6 requirements, which includes equipment and personnel/public protection items. If Hydrogen Sulfide is encountered, please provide measured values and formations to the BLM.
- 2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval.
- 3. Floor controls are required for 3M or Greater systems. These controls will be on the rig floor, unobstructed, readily accessible to the driller and will be operational at all times during drilling and/or completion activities. Rig floor is defined as the area immediately around the rotary table; the area immediately above the substructure on which the draw works is located, this does not include the dog house or stairway area.
- 4. The record of the drilling rate along with the CAL/GR/N well log run from TD to surface will be submitted to the BLM office as well as all other logs run on the borehole 30 days from completion. If available, a digital copy of the logs is to be submitted in addition to the paper copies. The Rustler top and top and bottom of Salt are to be recorded on the Completion Report.

B. CASING

Changes to the approved APD casing and cement program require submitting a sundry and receiving approval prior to work. Failure to obtain approval prior to work will result in an Incident of Non-Compliance being issued.

Centralizers required on surface casing per Onshore Order 2.III.B.1.f.

Wait on cement (WOC) time for a primary cement job will be a minimum 18 hours for a water basin, 24 hours in the potash area, or 500 pounds compressive strength, whichever is greater for all casing strings. Provide compressive strengths including hours to reach required 500 pounds compressive strength prior to cementing each casing string. See individual casing strings for details regarding lead cement slurry requirements.

No pea gravel permitted for remedial or fall back remedial without prior authorization from the BLM engineer.

Possible water/brine flows in the Artesia and Salado Groups.

Possible water flows in the Capitan Reef.

Possible lost circulation in the Artesia Group and Capitan Reef.

- 1. The 18-5/8 inch surface casing shall be set at approximately 595 feet (a minimum of 25 feet into the Rustler Anhydrite and above the salt) and cemented to the surface. Freshwater mud to be used to setting depth.
 - a. If cement does not circulate to the surface, the appropriate BLM office shall be notified and a temperature survey utilizing an electronic type temperature survey with surface log readout will be used or a cement bond log shall be run to verify the top of the cement. Temperature survey will be run a minimum of six hours after pumping cement and ideally between 8-10 hours after completing the cement job.
 - b. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry.
 - c. Wait on cement (WOC) time for a remedial job will be a minimum of 4 hours after bringing cement to surface or 500 pounds compressive strength, whichever is greater.
 - d. If cement falls back, remedial cementing will be done prior to drilling out that string.
- 2. The minimum required fill of cement behind the 13-3/8 inch intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Set within the Seven Rivers, above the Capitan Reef. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to the Capitan Reef.

- 3. The minimum required fill of cement behind the 9-5/8 inch 2nd intermediate casing is:
 - □ Cement to surface. If cement does not circulate see B.1.a, c-d above.
 Set within the base of the Capitan Reef. Wait on cement (WOC) time for a primary cement job is to include the lead cement slurry due to the Capitan Reef. Additional cement may be required as the excess calculates to 7%.
- 4. The minimum required fill of cement behind the 7 inch production casing is:
 - Cement should tie-back at least 200 feet into the intermediate casing string to cover the Capitan Reef. Operator shall provide method of verification. May require additional cement as the excess calculates to 15%.
- 5. If hardband drill pipe is rotated inside casing, returns will be monitored for metal. If metal is found in samples, drill pipe will be pulled and rubber protectors which have a larger diameter than the tool joints of the drill pipe will be installed prior to continuing drilling operations.

C. PRESSURE CONTROL

- 1. All blowout preventer (BOP) and related equipment (BOPE) shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2 and API RP 53 Sec. 17.
- 2. A variance will be granted for the use of a diverter on the 18-5/8" surface casing.
- 3. Minimum working pressure of the blowout preventer (BOP) and related equipment (BOPE) required for drilling below the 13-3/8 inch intermediate casing shoe shall be 5000 (5M) psi. Operator is using a 5M system and testing as a 3M.
- 4. The appropriate BLM office shall be notified a minimum of 4 hours in advance for a representative to witness the tests.
 - a. Casing cut-off and BOP installation will not be initiated until the cement has had a minimum of 8 hours setup time for a water basin. The casing shall remain stationary and under pressure for at least eight hours after the operator places the cement. In the potash area, the minimum time is 12 hours and the casing shall remain stationary and under pressure during this time period. Casing shall be under pressure if the operator uses some acceptable means of holding pressure or if the operator employs one or more float valves to hold the cement in place. Testing the BOP/BOPE against a plug can commence after meeting the above conditions plus the BOP installation time.

- b. The tests shall be done by an independent service company using a test plug.
- c. The results of the test shall be reported to the appropriate BLM office.
- d. All tests are required to be recorded on a calibrated test chart. A copy of the BOP/BOPE test chart and a copy of independent service company test will be submitted to the appropriate BLM office.
- e. The BOP/BOPE test shall include a low pressure test from 250 to 300 psi. The test will be held for a minimum of 10 minutes if test is done with a test plug and 30 minutes without a test plug.

D. DRILL STEM TEST

If drill stem tests are performed, Onshore Order 2.III.D shall be followed.

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VIII. PRODUCTION (POST DRILLING)

A. WELL STRUCTURES & FACILITIES

Placement of Production Facilities

Production facilities should be placed on the well pad to allow for maximum interim recontouring and revegetation of the well location.

Containment Structures

The containment structure shall be constructed to hold the capacity of the entire contents of the largest tank, plus 24 hour production, unless more stringent protective requirements are deemed necessary by the Authorized Officer.

Painting Requirement

All above-ground structures including meter housing that are not subject to safety requirements shall be painted a flat non-reflective paint color Shale Green, Munsell Soil Color Chart # 5Y 4/2

IX. INTERIM RECLAMATION

During the life of the development, all disturbed areas not needed for active support of production operations should undergo interim reclamation in order to minimize the environmental impacts of development on other resources and uses.

Within six (6) months of well completion, operators should work with BLM surface management specialists (Jim Amos: 575-234-5909) to devise the best strategies to reduce the size of the location. Interim reclamation should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche that is free of contaminants may be used for road repairs, fire walls or for building other roads and locations. In order to operate the well or complete workover operations, it may be necessary to drive, park and operate on restored interim vegetation within the previously disturbed area. Disturbing revegetated areas for production or workover operations will be allowed. If there is significant disturbance and loss of vegetation, the area will need to be revegetated. Communicate with the appropriate BLM office for any exceptions/exemptions if needed.

All disturbed areas after they have been satisfactorily prepared need to be reseeded with the seed mixture provided below.

Upon completion of interim reclamation, the operator shall submit a Sundry Notices and Reports on Wells, Subsequent Report of Reclamation (Form 3160-5).

X. FINAL ABANDONMENT & RECLAMATION

At final abandonment, well locations, production facilities, and access roads must undergo "final" reclamation so that the character and productivity of the land are restored.

Earthwork for final reclamation must be completed within six (6) months of well plugging. All pads, pits, facility locations and roads must be reclaimed to a satisfactory revegetated, safe, and stable condition, unless an agreement is made with the landowner or BLM to keep the road and/or pad intact.

After all disturbed areas have been satisfactorily prepared; these areas need to be revegetated with the seed mixture provided below. Seeding should be accomplished by drilling on the contour whenever practical or by other approved methods. Seeding may need to be repeated until revegetation is successful, as determined by the BLM.

Operators shall contact a BLM surface protection specialist prior to surface abandonment operations for site specific objectives (Jim Amos: 575-234-5909).

Seed Mixture for LPC Sand/Shinnery Sites

The holder shall seed all disturbed areas with the seed mixture listed below. The seed mixture shall be planted in the amounts specified in pounds of pure live seed (PLS)* per acre. There shall be <u>no</u> primary or secondary noxious weeds in the seed mixture. Seed will be tested and the viability testing of seed will be done in accordance with State law(s) and within nine (9) months prior to purchase. Commercial seed will be either certified or registered seed. The seed container will be tagged in accordance with State law(s) and available for inspection by the authorized officer.

Seed will be planted using a drill equipped with a depth regulator to ensure proper depth of planting where drilling is possible. The seed mixture will be evenly and uniformly planted over the disturbed area (smaller/heavier seeds have a tendency to drop the bottom of the drill and are planted first). The holder shall take appropriate measures to ensure this does not occur. Where drilling is not possible, seed will be broadcast and the area shall be raked or chained to cover the seed. When broadcasting the seed, the pounds per acre are to be doubled. The seeding will be repeated until a satisfactory stand is established as determined by the authorized officer. Evaluation of growth will not be made before completion of at least one full growing season after seeding.

Species to be planted in pounds of pure live seed* per acre:

Species	<u>lb/a</u>	<u>icre</u>
Plair	ns Bristlegrass	5lbs/A
Sand	Bluestem	5lbs/A
Little	e Bluestem	3lbs/A
Big 1	Bluestem	6lbs/A
Plair	s Coreopsis	2lbs/A
Sand	Dropseed	1lbs/A
**Four-winged Saltbush	5lbs/A	

^{*} This can be used around well pads and other areas where caliche cannot be removed.

Pounds of seed x percent purity x percent germination = pounds pure live seed

^{*}Pounds of pure live seed: