• Hew Mo		aneorvation C		A A A A A A A A A A A A A A A A A A A	
		5 N. French D 9653, NM 882			
April 2004) RESUBM	ITTAL			FORM APP OMB No 1 Expires Marc	004-0137
UNITED ST	ATES			5. Lease Serial No.	
DEPARTMENT OF T				NM-51837	
BUREAU OF LAND N	MANAGEMEN	NT		6. If Indian, Allotee or T	ribe Name
APPLICATION FOR PERMIT 1	TO DRILL OR F	REENTER			
a Type of Work. X DRILL RE	ENTER			7 If Unit or CA Agreem	ent, Name and No
				Pending	-/
lb. Type of Well. Oil Well X Gas Well Other	, X Si	ngle Zone Multipl	e Zone	8 Lease Name and Well Kinahan 20 Federa	~~~~~
2 Name of Operator				9. API Well No.	1 INO. 5
Cimarex Energy Co. of Colorado	2	162683	\mathbf{S}	30-005- 28	3026
3a Address	3b Phone No.	(include area code)	/	10. Field and Pool, or Ex	xploratory
PO Box 140907 Irving, TX 75014	972-401-3			Little Lucky Lake;	
4. Location of Well (Report location clearly and in accordance		quirements *)		11 Sec, T. R. M or Blk an	nd Survey or Area
At Surface 660' FSL & 1650' FW	L BOSWELL CO	NTROLLED WATER B	ASIN	~	
At proposed prod. Zone Unit 1)			20-15S-30E	
14 Distance in miles and direction from nearest town or post of	ffice*			12 County or Parish	13 State
13 miles NE of Loco Hills, NM				Chaves	NM
15 Distance from proposed* location to nearest property or lease line, ft (Also to nearest drig, unit line if	16. No of acre	es in lease	17. Spac	ing Unit dedicated to this well	I
any) 660'	10 Proposed	640	20 BIN	W2 320 I/BIA Bond No on File	
18 Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed		20. BLM		
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Approxim	10,600' hate date work will start	*	NM-2575 23. Estimated duration	
21 Elevations (Show whether DF, KDB, RT, GL, etc.)	22 Арргохи	ate date work will start		25. Estimated daration	
3,966' GR		4/1/2008		35-45 c	lays
······································		Attachments		······	
The following, completed in accordance with the requirements of	Onshore Oil and	Gas Order No. 1, shall	be attached	to this form.	
1 Well plat certified by a registered surveyor		4 Bond to cove Item 20 abov	•	ons unless covered by an exist	ting bond on file (see
 A Drilling Plan A Surface Use Plan (if the location is on National Forest Syste SUPO shall be filed with the appropriate Forest Service Office 		5 Operator Cer	tification te specific in	formation and/or plans as may	y be required by the
25 Signature	Name	Printed/Typed)			Date
Ciens Fane,	Zen	o Farris			02.19.08
Title					
Manager Operations Administration	Name	(Printed/Typed)			Date
Approved By (Signature) /S/ Angel Mayes	1 value v	ISI	' Angel	Mayes	3.27.08
Title Assistant Field Manage Lands And Minerals		ROSWELL FIE		CE .	ROVED FOR 2 VEARS
Conditions of approval, if any, are attached.	<u>in 1916),</u>	Charry			
Title 18 U.S.S. Section 1001 and Title 43 U.S.C. Section 1212, make it a States any false, fictitious, or fraudulent statements or representations as t	crime for any person	n knowingly and willfully t	o make to any	department or agence to the tout	SMEN
* (Instructions on page 2)					
SEE ATTACHED FOR	•			K- MAY	n 7 2008
SEE ATTACHED FOR				HUUB	RS ACD
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DISTRICT I ·

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1625 N. French Dr., Hobbs, NM 86240 DISTRICT II

1501 W. Grand Avenue, Artesia, NN 80210

DISTRICT III 1000 Rio Brazos Rd., Astec, NM 87410

DISTRICT IV 1220 S. St. Francis Dr., Santa Fe, NK 87505 OIL CONSERVATION DIVISION

Submit to Appropriate District Office State Lease - 4 Copies Fee Lease - 3 Copies

1220 South St. Francis Dr. Santa Fe, New Mexico 87505

C AMENDED REPORT

		I	YELL LO	CATION	AND ACREA	GE DEDICATI	ON PLAT		
API Number 3D · 005-28026 Pool Code Pool Name Little Lucky Lake; Morrow									
		126							
Property C				KINA	Property Nam HAN "20" F	EDERAL		3	umber
OGRID N	<u>.</u>			ININ	Operator Nam			Eleva	tion
16268			CIN	IAREX E	-	OF COLORADO)	396	6'
					Surface Loca			····	
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
N	20	15 S	30 E		660	SOUTH	1650	WEST	CHAVES
			Bottom	Hole Lo	cation If Diffe	erent From Sur	face		
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acre	Joint c	or Infill Co	nsolidation	Code Or	der No.	<u> </u>			<u> </u>
320									
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Application to Drill Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves 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: 660' FSL & 1650' FWL

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- 2 Elevation above sea level: 3,966 GR
- 3 Geologic name of surface formation: Quaternery Alluvium Deposits
- 4 <u>Drilling tools and associated equipment:</u> Conventional rotary drilling rig using fluid as a circulating medium for solids removal.
- 5 <u>Proposed drilling depth:</u> 10,600'
- 6 Estimated tops of geological markers:

Yates	1,430'
Queen	2,175'
Abo Shale	6,450'
Hueco	7,700'
Wolfcamp LS	8,000'
Atoka Clastics	9,950'
Morrow Clastics	10,350'
Miss Unconformity	10,425'

7 Possible mineral bearing formation:

Morrow	Gas
Atoka	Gas
Abo	Oil

8 Proposed Mud Circulating System:

_	Depth		, Mud Wt Visc		Fluid Loss	Type Mud	
-	0	to	430	8.4 - 8.6	30-32	May lose circ	Fresh water spud mud
430	340 <u>'</u>	to	3,950'	10.0	28-29	May lose circ	Brine Water
-	3,950'	to	10,600'	8.6 - 9.5	28-29	NC	Fresh water and brine, use hi-vis sweeps to keep hole clean

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. Mud system monitoring equipment with derrick floor indicators and visual/audio alarms shall be installed and operative prior to drilling into the Wolfcamp formation. This equipment will remain in use until production casing is run and cemented.

Application to Drill Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NM

9 Casing & Cementing Program:

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			1.						
Hole Size		Dept	h 430	Casiı	ng OD	Weight	Thread	Collar	Grade
17½"	0	to	'340 "	New	13¾"	48#	8-R	STC	H-40
12¼"	0	to	3,950'	New	9%"	40#	8-R	LTC	J/K-55
8¾"	0	to	10,600'	New	5½"	17#	8-R	LTC	P-110

10 <u>Cementing & Setting Depth:</u>

		430							
13¾"	Surface	Set 340	* of	13¾"	48#	H-40	STC		
		<u>Lead:</u> 110	sx Light	Premium I	Plus + 0.3	125 lb/sk	Poly-E-Fla	ake + 1%	
		CaCl₂ (wt 1	.4.2, yld	1.64)					e s
		<u>Tail:</u> 220 s>	k Premiu	m Plus + 29	% CaCl₂ (\	vt 14.8, yl	d 1.35)	WITNES)
		тос	Surfac	e					
9⁵⁄≋"	Intermediate	Set 3,950	0' of	9 % "	40#	J/K-55	LTC		
		Lead: 450	sx Inter	rfill C + 0.1	L25 lb/sk	Poly-E-F	lake (wt 🛛	11.9, yld	
		2.45)				·			
		•	k Premiu	m Plus + 19	% CaCl₂ (ւ	vt 14.8, vl	ld 1.33)		
		тос	Surfac		- •		•		
		IUC	Sunac	E					
5½"	Production	Set 10,60)0' of	5½"	17#	P-110	LTC		
572	FIGURE			0.5% Halad				/ Salt + 5	
		•		0.125 lb/sk					
		-	onite + u	0.125 ID/SK	Poly-e-In	ake + 0.5:	Э70 ПК-7 ((Wt 15.0,	
		yld 1.67)							
		тос	3,700'		,				
	430'								
Fresh water will be protected by setting 13¾" casing at 340′ and cementing to Surface									
Hydrocarbon zone	es will be protected by	setting	9%"	casing at	3,950'		enting to		
	and	by setting	5½"	casing at	10,600'	and cem	enting to	3700'	
Cimarex uses the following minimum safety factors:									

BurstCollapseTension1.1251.1251.80

Application to Drill Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NM

11 <u>Pressure control Equipment:</u>

Exhibit "E". A 13%" 5000 PSI working pressure B.O.P. 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 below 6000'. 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 surface pipe through the running of production casing, the well will be equipped with a 5000 psi BOP system.

We are requesting a variance for testing the 13³/₈" surface casing from Onshore Order No. 2, which states that all casing strings below the conductor shall be pressure tested to 0.22 psi per foot or 1500 psi, whichever is greater, but not to exceed 70% of the manufacturer's stated maximum internal yield. We are requesting to test the 13³/₈" casing to 1000 psi using rig pumps. The BOP will be tested to 5000 psi by an independent service company.

12 Testing, Logging and Coring Program:

- A. Mud logging 2 man unit from 1000' to TD
- B. Electric logging program: CNL / LDT / CAL / GR, DLL / CAL / GR
- C. No DSTs or cores are planned at this time.

13 <u>Potential Hazards:</u>

No abnormal pressures or temperatures are expected. The area has a potiential H2S hazard. An H_2 drilling plan is attached. 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 4000 psi Estimated BHT 175

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

Drilling expected to take 35-45 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.

Morrow pay will be perforated and stimulated.

The proposed well will be tested and potentialed as a gas well.

Hydrogen Sulfide Drilling Operations Plan Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NN

- 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.

Surface Use Plan Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NM

- 1 EXISTING ROADS: 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 junction of St Hwy 81 and Co Rd 217 (Hagerman Cutoff), proceed East on St Hwy 81 for 2.2 miles to lease road. On lease road, proceed South 2.8 miles to proposed lease road.
- 2 PLANNED ACCESS ROADS: 482.1' of on-lease access road is proposed.
- 3 LOCATION OF EXISTING WELLS IN A ONE-MILE RADIUS EXHIBIT "A":

Α.	Water wells -	None known
в.	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"

Surface Use Plan Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NM

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

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".

- 7 Methods of Handling Waste Material:
 - A. Drill cuttings will be seperated by a series of solids removal equipment and hauled to the cuttings drying area and then disposed of in the cuttings burial cell.
 - 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.

Surface Use Plan Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20 T15S R30E Chaves County, NM

- 9 Well Site Layout:
 - A. Exhibit "D" shows location and rig layout.
 - B. This exhibit indicates proposed location of the 100' X 100' cuttings drying area.
 - C. Mud pits in the closed circulating system will be steel pits and the cuttings drying area will be surrounded by a 2' X 2' ring levee and a 2' earthen berm. A 12 mil liner will cover the cuttings drying area and extend a minimum of 2' over the earthen berm where it will be anchored down. A pump off system will pump any accumulated fluids in the ring levee to the rig holding tanks to be cleaned and reused.
 - D. After drying cuttings will be disposed of in a 50' X 50' cuttings burial cell. The bottom will be lined with a 12 mil liner. Drill cuttings will be hauled from the cuttings drying area and encapsulated in a 12 mil liner. The 12 mil liner will be folded over the cuttings and capped with a 20 mil membrane cap. The cell will be filled with 3' to 4' of top soil and leveled and contoured to conform to the original surrounding area.
 - E. If the well is a producer, the cuttings burial area and 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 and cuttings burial cell 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.

However, in either event, the drill cuttings will be allowed to dry properly, and fluid removed and disposed of in accordance with Article 7.B as previously noted. The cuttings burial area will then be leveled and contoured to conform to the original and surrounding area. 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 Cimarex Energy Co. of Colorado Kinahan 20 Federal No. 3 Unit N Section 20

11 OTHER INFORMATION:

A. Topography consists of a sloping plane with loose tan sands. Vegetation is mainly yucca, mesquite and shin gak.

Chaves County, NM

- mesquite and shin oak. Federal for Atralie Connect B. The wellsite is on surface owned by the State of New Mexico. 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 Carlsbad BLM office.
- D. There are no know dwellings within $1 \frac{1}{2}$ miles of this location.

T15S R30E

Operator Certification StatementCimarex Energy Co. of ColoradoKinahan 20 Federal No. 3Unit NSection 20T15S R30EChaves County, NM

Operator's Representative:

Cimarex Energy Co. of Colorado P.O. Box 140907 Irving, TX 75014 Office Phone: (972) 443-6489 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 Faning
	Zeno Farris
DATE:	February 19, 2008
TITLE:	Manager Operations Administration



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Exhibit C

Rig 75

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Cimarex Energy Co. of Colorado



Exhibit D – Rig Layout Kinahan 20 Federal No. 3 Cimarex Energy Co. of Colorado 20-15S-30E 660' FSL & 1650' FWL Eddy County, NM



ORILLING OPERATIONS CHOKE MANIFOLD 5M SERVICE



EXHIBIT A

OPERATORS NAME: Cimarex Energy Co. of Colorado LEASE NO.: NM-51837 WELL NAME & NO: Kinahan "20" Federal #3 QUARTER/QUARTER & FOOTAGE: SE¼SW¼ - 660' FSL & 1650' FWL LOCATION: Section 20, T. 15 S., R. 30 E. COUNTY: Chaves County, New Mexico, NMPM



PECOS DISTRICT - RFO CONDITIONS OF APPROVAL

OPERATORS NAME: <u>Cimarex Energy Co. of Colorado</u> LEASE NO.: <u>NM-51837</u> WELL NAME & NO: <u>Kinahan "20" Federal #3</u> SURFACE HOLE FOOTAGE: <u>660' FSL & 1650' FWL</u> LOCATION: <u>Section 20, T. 15 S., R. 30 E., NMPM</u> COUNTY: <u>Chaves County, New Mexico</u>

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.

I. 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).

II. 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.

III. NOXIOUS WEEDS

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The operator shall be held responsible if noxious weeds become established within the areas of operations (access road and/or well pad). 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.

IV. CONSTRUCTION

A. NOTIFICATION:

The BLM shall administer compliance and monitor construction of the access road and well pad. Notify the Roswell Field Office at (505) 627-0247 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 Application for Permit to Drill and Conditions of Approval 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 to be stripped is approximately 6 inches in depth. The topsoil shall not be used to backfill the reserve pit and will be used for interim and final reclamation. The soil shall be stockpiled on the southeast corner of the well pad.

C. STEEL TANK REQUIREMENTS:

NO RESERVE PITS -Operator opted to use a closed system.

1. The holder shall use steel tanks for drilling the well in lieu of reserve pits. Steel tanks will help prevent the possibility of the drilling fluid leaching into the underground aquifers and reduce soil disturbance.

2. The steel tanks shall be constructed so as not to leak, break, or allow discharge of drilling muds. Under no circumstances shall the steel tanks be opened and allowed to drain drilling muds on the ground.

3. The steel tanks shall be equipped to deter entry by birds, bats, and other wildlife.

4. The holder shall dispose of drilling muds and cuttings at an authorized disposal site. No drilling muds and/or cuttings shall be dumped on location.

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 Roswell Field Office at (505) 627-0236.

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 need.

F. ON LEASE ACCESS ROADS:

Road Egress and Ingress

The access road shall be constructed to access the northeast corner of the well pad.

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.

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.



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

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

V. DRILLING

A. DRILLING OPERATIONS REQUIREMENTS

1. Call the BLM Roswell Field Office, 2909 West Second Street, Roswell, NM 88201. 24 hours call (575) 627-0205.

The BLM is to be notified a minimum of $\underline{4}$ hours in advance for a representative to witness:

- A. Spudding
- B. Cementing casing: $13\frac{3}{8}$ inch; $9\frac{5}{8}$ inch; $5\frac{1}{2}$ inch.
- C. BOP Tests

2. A Hydrogen Sulfide (H2S) Drilling Plan is not required for this wellbore.

3. 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.

4. Submit a Sundry Notice (Form 3160-5, one original and five copies) for each casing string, describing the casing and cementing operations. Include pertinent information such as; spud date, hole size, casing (size, weight, grade and thread type), cement (type, quantity and top), water zones and problems or hazards encountered. The Sundry shall be submitted within 15 days of completion of each casing string. The reports may be combined into the same Sundry if they fall within the same 15 day time frame.

5. The API No. assigned to the well by NMOCD shall be included on the subsequent report of setting the first casing string.

B. CASING

1. The <u>13 $\frac{3}{8}$ inch shall be set at <u>430 Feet</u> with cement circulated to the surface. If cement does not circulate to the surface the appropriate BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.</u>

2. The minimum required fill of cement behind the 9 1/8 inch Intermediate casing is to 3,000.

3. The minimum required fill of cement behind the 5 ½ inch Production casing is to 10,900 .

C. PRESSURE CONTROL

1. All BOP systems and related equipment shall comply with well control requirements as described in Onshore Oil and Gas Order No. 2.



The BOP and related equipment shall be installed and operational before drilling below the <u>13 %</u> inch casing shoe and shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

2. <u>Minimum working pressure</u> of the blowout preventer and related equipment (BOPE) shall be <u>3 M</u> psi.

3. The appropriate BLM office shall be notified in sufficient time for a representative to witness the test.

-The test shall be done by an independent service company

-The results of the test shall be reported to the appropriate BLM office.

-Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures.

-Use of drilling mud for testing is not permitted since it can mask small leaks.

-Testing must be done in safe workman-like manner. Hard line connections shall be required.

-Both low pressure and high pressure testing of BOPE is required.

VI. PRODUCTION

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, <u>Olive Drab</u>, <u>Munsell Soil Color Chart 18-0622</u> TPX.

VII. INTERIM RECLAMATION

The operator opted to use the closed system for drilling. Steel tanks are required for drilling operations: No Pits Allowed.

A. INTERIM RECLAMATION

If the well is a producer, interim reclamation shall be conducted on the well site in accordance with the orders of the Authorized Officer.

The operator shall submit a Sundry Notices and Reports on Wells (Notice of Intent), Form 3160-5, prior to conducting 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.

During reclamation, the removal of caliche is important to increasing the success of revegetating the site. Removed caliche may be used in road repairs, fire walls or for building other roads and locations. In addition, 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.

The operator should work with BLM surface management specialists to devise the best strategies to reduce the size of the location. Any reductions should allow for remedial well operations, as well as safe and efficient removal of oil and gas.

Common Name		Pounds of Pure
and Preferred Variety	Scientific Name	Live Seed Per Acre
Sand bluestem,	(Andropogon hallii)	0.50 lb.
Little bluestem	(Schizachyrium scoparium)	0.50 lb.
var. Pastura		
Sideoats grama,	(Bouteloua curtipendula)	1.5 lbs.
var. Vaughn or El Reno		
Sand dropseed	(Sporobolus cryptandrus)	0.50 lb.
Spike dropseed	(Sporobolus contractus	
Mesa dropseed	(Sporobolus flexuosus	/
Plains bristlegrass	(Setaria macrostachya	/
Desert or Scarlet	(Sphaeralcea ambigua	/
Globemallow	or (S. coccinea)	,
Buckwheat	(Eriogonum spp.)	1.50 lbs.
TOTAL POUNDS P	URE LIVE SEED PER ACRE	8.00 lbs.

The following seed mixture to be planted in pounds of pure live seed per acre:

If one species is not available, increase ALL others proportionately. The seed mixture shall be certified weed free seed. No less than six (6) species with the minimum of one (1) forb. No less than 8.0 pounds per acre shall be applied.

VIII. FINAL ABANDONMENT & REHABILITATION REQUIREMENTS

Upon abandonment of the well and/or when the access road is no longer in service the Authorized Officer shall issue instructions and/or orders for surface reclamation and restoration of all disturbed areas.

VIII. SPECIAL REQUIREMENT:

A. Lesser Prairie Chicken Stipulation:

The Roswell Approved Resource Management Plan and Record Of Decision addresses the preservation of the Lesser prairie chicken wildlife habitat.

1. There shall be no earthmoving construction activities, well exploratory and/or developmental drilling, well completion, plugging and abandonment activities, **between March 15th through June 15th**, of each year. During that period, other activities, including the operation and maintenance of oil and gas facilities, will not be allowed between **3:00 a.m.** and **9:00 a.m.**. To the extent practicable, activities occurring for a short period of time may be conducted so long as they do not commence until after **9:00 A.M.**. Any deviation from this stipulation must be approved in writing by the Roswell Field Office Manager or the appropriate Authorized Officer.

2. All motors or engines that produce high noise levels shall have mufflers installed that effectively reduce excessive noise levels within prairie chicken habitat. High noise levels produced by motors or engines shall be reduced and muffled so as not to exceed 75 db measured at 30 feet from the source of the noise.

3. Upon abandonment of the well, reclamation activities can be conducted between March 15th through June 15th, so long as reclamation work shall not be conducted between the hours of **3:00 AM** to **9:00 AM**. Any deviation from this requirement shall require prior approval by the Authorized Officer.

4. In an emergency situation, the Authorized Officer can allow a pit to be constructed for the purpose of collecting crude oil for removal. To prevent wildlife from entering the pit, netting of adequate size to deter access by wildlife shall cover the pit until it is no longer a threat to wildlife, and the pit is reclaimed.