

State of Colorado
Oil and Gas Conservation Commission
DEPARTMENT OF NATURAL RESOURCES

FOR OGCC USE ONLY

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COGCC

APPLICATION FOR PERMIT TO:

1 a. TYPE OF WORK

☒ Drill, ☐ Deepen, ☐ Re-enter, ☐ Recomplete and Operate

1 b. TYPE OF WELL

OIL ☒ GAS ☐ COAL BED ☐ OTHER: _____
SINGLE ZONE ☒ MULTIPLE ZONE ☐ COMMINGLE ZONES ☐Refiling ☐SideTrack ☐ET ☐ OE ☐ PR ☐ ES ☐Complete the
Attachment Checklist

2. OGCC Operator Number: 12844	5. Contact Name & Phone
3. Name of Operator: Caddo Corporation	Frank B. Lyon
4. Address: Kaleido I-215, 9390 Research Blvd.	No: 512-345-8966
City: Austin State: TX Zip: 78759	Fax: 512-345-4393
6. Well Name: Sand Arroyo Ranch	Well Number: 22-1
7. Unit Name (If Appl.):	Unit No:
8. Objective Formation(s): Arbuckle	Formation Code: ABCK
9. Proposed Total Depth: 4000'	

	Op	OGCC
APD Original & 2 Copies	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Form 2A (Reclamation) & 1 Copy	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Permit Fee (\$200)	<input type="checkbox"/>	<input type="checkbox"/>
Well Location Plat	<input type="checkbox"/>	<input type="checkbox"/>
Copy of Topo Map	<input type="checkbox"/>	<input type="checkbox"/>
Plugging Surety	<input type="checkbox"/>	<input type="checkbox"/>
Mineral Lease Map	<input type="checkbox"/>	<input type="checkbox"/>
Surface Agreement/Surety	<input type="checkbox"/>	<input type="checkbox"/>
Pit Permit (Form 15)	<input type="checkbox"/>	<input type="checkbox"/>
Deviated Drilling Plan	<input type="checkbox"/>	<input type="checkbox"/>
Request for Exception Location	<input type="checkbox"/>	<input type="checkbox"/>
Exception Location Waivers	<input type="checkbox"/>	<input type="checkbox"/>
H2S Contingency Plan	<input type="checkbox"/>	<input type="checkbox"/>
Federal Drilling Permit (1 Set)	<input type="checkbox"/>	<input type="checkbox"/>
Notices of Allocation	<input type="checkbox"/>	<input type="checkbox"/>
Sent Complete Permit	<input type="checkbox"/>	<input type="checkbox"/>
Package to County	<input type="checkbox"/>	<input type="checkbox"/>

WELL LOCATION INFORMATION

10. QtrQtr: SESE Sec: 22 Twp: 33S Rng: 49W Meridian: 6th
11. Footage From Exterior Section Lines (if directional, submit drilling plan):
At Surface: 660' FSL, 660' FEL
If directional, at Top Proposed Prod. Zone:
If directional, at Bottom Hole:
12. Ground Elevation: 4839
13. County: Baca
14. Field Name: Wildcat
Field Number: 99999

LEASE, SPACING, AND POOLING INFORMATION

15. Spacing Order #(s):	16. # Acres in Unit: 40	17. Unit Description: SESE
18. Mineral Ownership: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian	Lease #:	
19. Surface Ownership: <input checked="" type="checkbox"/> Fee <input type="checkbox"/> State <input type="checkbox"/> Federal <input type="checkbox"/> Indian		
Is the Surface Owner also the Mineral Owner? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
If No: <input type="checkbox"/> Surface Owners Agreement Attached or <input type="checkbox"/> \$25,000 Blanket Bond <input type="checkbox"/> \$2,000 Bond <input type="checkbox"/> \$5,000 Bond		
20. Total Acres in Lease: 1104		
21. Describe Entire Lease by QtrQtr, Sec, Twp, Rng (attach separate sheet/map if required):		
All of Sec. 22, T33S, R49W except 10' strip along bottom of section. W/2 of Sec. 29, T33S, R49W. SW 1/4 Sec. 23 except northern 15 rods.		
22. Is location in a high density area (Rule 603b)? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes		
23. Distance to nearest Lease Line: 650'		
24. Distance to nearest Property Line: 660'		
25. Distance to nearest well completed in the same Formation: none		
26. Distance to nearest building, public road, major above ground utility or railroad: 660'		
** The use of an earthen pit for recompletion fluids requires a pit permit (Rule 905b).		

DRILLING PLANS AND PROCEDURES

27. Approx. Spud Date: 2/7/98	* If Air/Gas Drilling, Notify Local Fire Officials
28. Drilling Contractor Number:	Name: Yet to be determined Phone #:
29. Is H2S Anticipated: <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes If yes, attach contingency plan.	
30. Will salt (>15,000 ppm TDS Cl) or oil based muds be used during drilling? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
31. Will salt sections be encountered during drilling? <input checked="" type="checkbox"/> No <input type="checkbox"/> Yes	
32. If questions 30 or 31 are yes, is this location in a sensitive area (Rule 903)? <input type="checkbox"/> No <input type="checkbox"/> Yes	
33. Mud disposal: <input type="checkbox"/> Offsite <input checked="" type="checkbox"/> Onsite	
Method: <input type="checkbox"/> Land Farming <input type="checkbox"/> Land Spreading <input type="checkbox"/> Disposal Facility <input checked="" type="checkbox"/> Other: Drying & Burial in Res. Pit	

CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Sks Cement	Cement Bottom	Cement Top
17 1/2"	13 3/8"	48	300	300	300'	Surface
7 7/8"	4 1/2" **	9.5	4000'	225	4000	2850'
** If productive						
Stage Tool						

35. BOP Equipment: ☒ Annular Preventor ☒ Double Ram ☐ Rotating Head ☐ None

36. Comments, if any:

I hereby certify that the statements made in this form are, to the best of my knowledge, true, correct, and complete.

Print Name: Frank B. Lyon

Signed: Frank B. Lyon

Title: President

Date: 1/14/98

OGCC Approved: [Signature]

Director of COGCC

Date: FEB 02 1998

API NUMBER

05-009-6578

Permit Number:

98-079

Expiration Date:

FEB 01 1999

CONDITIONS OF APPROVAL, IF ANY: Las Animas

at 719-336-2843. If production casing is set provide annular cement coverage from top of Day Creek to base of surface casing. Run Cement Bond Log to verify coverage. If well is a dry hole set plugs at the following depths: 1) 40 sks cement +/-50' above any significant Arbuckle zone and/or significant DST zone 2) 40 sks cement at top of Day Creek 3) 60 sks cement 1/2 out, 1/2 in 13 3/8" casing 4) 15 sks cement top 13 3/8" csg, cut 4 ft below GL, weld on plate 4) 5 sks cement in rat hole and mouse hole