

**UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT**

APPLICATION FOR PERMIT TO DRILL OR DEEPEN

1a. TYPE OF WORK

DRILL ☒DEEPEN ☐

b. TYPE OF WELL

OIL
WELL ☐GAS
WELL ☒

OTHER

SINGLE
ZONE ☒MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

Jicarilla Apache Energy Corporation

3. ADDRESS AND TELEPHONE NO.

P.O. Box 710, Dulce, New Mexico 87528 Mr. Jesse Evans (505) 759-3224

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface

617' FSL & 1620' FWL, Sec 5, T23N, R3W, NMPM

At proposed prod. zone

A/A

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

10 miles WSW of Lindrith, New Mexico

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT. 617'

(Also to nearest drg. unit line, if any)

18. DISTANCE FROM PROPOSED LOCATION*
TO NEAREST WELL, DRILLING, COMPLETED,
OR APPLIED FOR, ON THIS LEASE, FT. 1240'

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

7345' GL

5. LEASE DESIGNATION AND SERIAL NO.

Joint Venture Agreement

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

Jicarilla Apache Tribe

7. UNIT AGREEMENT NAME

Joint Venture Agreement

8. FARM OR LEASE NAME, WELL NO. 15646

Jicarilla Apache JV5 #8

9. API WELL NO.

30-039-27091

10. FIELD AND POOL, OR WILDCAT

West Lindrith Gallup-Dakota

11. SEC., T., R., M., OR BLK
AND SURVEY OR AREA

Sec 5, T23N, R3W, NMPM

12. COUNTY

Rio Arriba

13. STATE

New Mexico

16. NO. OF ACRES IN LEASE

17. NO. OF ACRES ASSIGNED

TO THIS WELL

160 SW/4

19. PROPOSED DEPTH

7740'

20. ROTARY OR CABLE TOOLS

Rotary

22. APPROX. DATE WORK WILL START*

July, 2002

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	GRADE, SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12 1/4"	J-55, 8 5/8"	24	320'	225 sks (266cf) - Circ to surface
6 1/4" 7 7/8"	K-55/N-80 4.5"	10.5, 11.6	7740'	1714 sks (3240 cf) - 2 stg - Circ to surface

Jicarilla Energy Corporation will spud this well in the San Jose formation. A 12 1/4" hole will be drilled to 320' using a fresh water base gel mud. 8 5/8" surface casing will be run and cemented with sufficient volume to circulate cement to surface. WOC 12 hours. Nipple up 11" 2000# BOPE and test to a minimum of 600 psi for 30 minutes. A 7 7/8" hole will be drilled to TD using a fresh water non-dispersed system. Run Induction and Density/Neutron logs at TD. All Gal/DK zones will be analyzed to total depth, and if potentially commercial, a 4 1/2" production casing will be set to TD. The casing will be cemented in 2-stages with sufficient cement volume to circulate to surface. Release drilling rig. Move in completion unit. Run cased hole correlation logs. Pressure test casing to 3000 psi for 30 minutes. Perforate selected Gal/DK intervals and fracture stimulate, if necessary.

Surface: Jicarilla Apache Reservation.

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen, give data on present productive zone and proposed new productive zone. If proposal is to drill or deepen directionally, give pertinent data on subsurface locations and measured true vertical depths. Give blowout preventer program, if any.

24.

SIGNED

TITLE Agent

DATE

5/30/02

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

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

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

J. W. Anderson

TITLE

Asst. Field Mgr

DATE

OCT 22 2002

NSC

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to deepen or reentry to a different reservoir.
Use "APPLICATION FOR PERMIT--" for such proposals

SUBMIT IN TRIPLICATE

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

Jicarilla Apache Energy Corporation

3. Address and Telephone No.

P.O. Box 710, Dulce, New Mexico 87528 Mr. Jesse Evans (505)759-3224

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

617' FSL & 1650 FWL, Sec 5, T23N, R3W, NMPM

5. Lease Designation and Serial No.
Joint Venture Agreement

6. If Indian, Allottee or Tribe Name
Jicarilla Apache Tribe

7. If Unit or CA, Agreement Designation
Joint Venture Agreement

8. Well Name and No.
Jicarilla Apache JV5 #8

9. API Well No.
30-039-27091

10. Field and Pool, or Exploratory Area
W. Lindrith Gallup-Dakota

11. County or Parish, State
Rio Arriba, New Mexico

12. CHECK APPROPRIATE BOX(s) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION

- ☐ Notice of Intent
☒ Subsequent Report
☐ Final Abandonment Notice

TYPE OF ACTION

- ☐ Abandonment
☐ Recompletion
☐ Plugging Back
☐ Casing Repair
☐ Altering Casing
☒ Other Move location
☐ Change of Plans
☐ New Construction
☐ Non-Routine Fracturing
☐ Water Shut-Off
☐ Conversion to Injection
☐ Dispose Water

13. Describe Proposed or Completed Operations (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work. If well is directionally drilled, give subsurface locations and measured and true vertical depths for all markers and zones pertinent to this work.)

The proposed location has been moved 30' East by chain and compass to 617' FSL & 1650' FWL, Section 5, T23N, R3W, NMPM. This location is now orthodox, under NMOC rules.

Attached are amended C-102, location plat and cut and fill diagram.

14. I hereby certify the foregoing is true and correct

Signed

Title Agent

Date 07/10/02

(This space for Federal or State office use)

Approved by /s/ Patricia M. Hester

Title Lands and Mineral Resources

Date SEP 4 2002

Conditions of approval, if any:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Rd., Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

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

Form C-102
Revised August 15, 2000
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☒ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30039-27091		Pool Code 39189	Pool Name West Lindrith Gallup-Dakota
Property Code 15646	Property Name JIC Apache JV 5		Well Number 8
OGRID No. 11859	Operator Name Jicarilla Apache Energy Corporation		Elevation 7345'

Surface Location

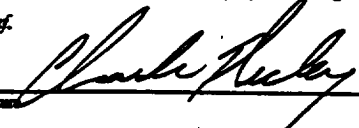
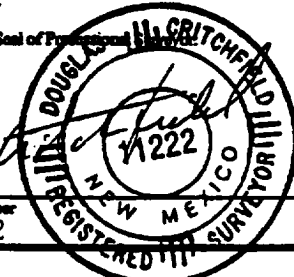
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	Rio County
N	5	23N	3W		617	South	1650	West	Arriba

Bottom Hole Location If Different From Surface

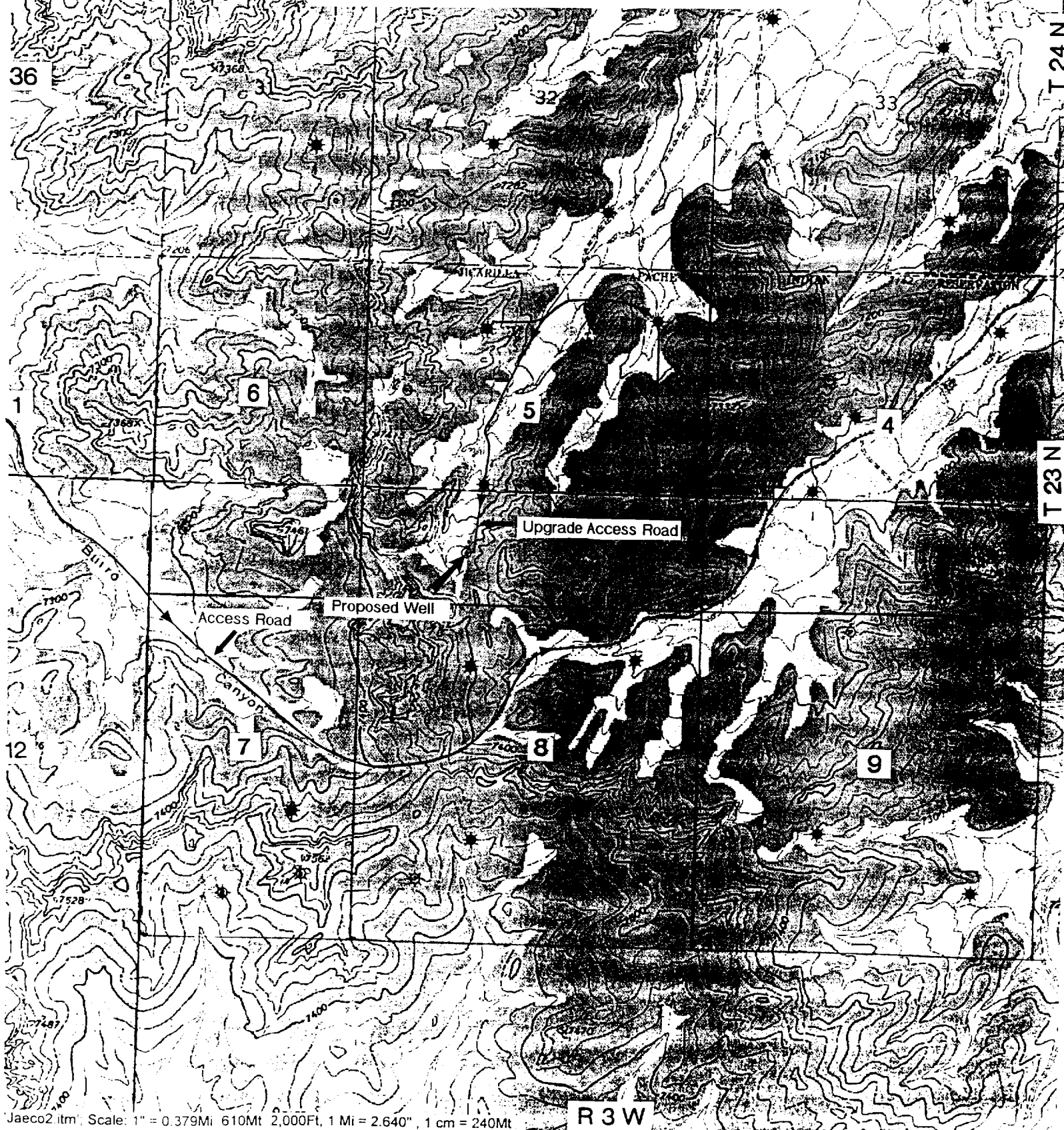
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 160	Joint or Infill Y	Consolidation Code	Order No.
------------------------	----------------------	--------------------	-----------

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

16		5280.00'		1320.00'		17 OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.  Charles Neeley Agent 07/10/02 Date Location moved 30' East with chain & compass to 1650' FWL	
4	3	2	1	160 ac.		160 ac.	
1320.00'		1320.00'		1320.00'		1320.00'	
5		160 ac.		160 ac.		18 SURVEYOR CERTIFICATION I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervision, and that the same is true and correct to the best of my belief. May 17, 2002 Date of Survey Signature and Seal of Professional Surveyor 	
JV5 #4 1840'FSL & 1840'FWL APt: 30-039-22014		160 ac.		160 ac.		2640.00'	
2640.00'		Proposed Location 1650'		617'		5280.00'	

Rio Arriba County, New Mexico



Drilling Program
Jicarilla Apache Energy Corporation
APACHE JV 5-8

Page Two

4. Casing and Cementing Program: - Continued

- WOC 12 HOURS. Nipple up 11" 2000# BOPE. Pressure test surface casing and BOPE to 600 psi for 30 minutes.
- Drill an 7 7/8" hole through the Dakota formation.
- Run Induction and Compensated density/neutron logs from TD to surface casing shoe.
- Run 4 1/2" 10.5/11.6# K-55 & 11.6# N - 80 production casing from surface to Total Depth and cement in 2 stages with DV tool installed at 4064'. **Stage 1** (TD - 4064') will be cemented with 650sacks (1255cf) 65/35 Class "B"/Poz containing 6% gel, 0.6% Halad 9 and 1/2 cf Perlite/sack - mixed at 12.7 PPG, 1.93 yield. Followed with 100 sks 50/50 Class "B"/Poz with 2% gel, 10 1/4 #/sk Gilsonite and 10% NaCl mixed at 13.4 PPG, 1.24 yield (Total: 1379 cf of slurry; 70% excess to 4064'). Circulate with mud for 4 hours. **Stage 2** (4064' - 0') will be cemented with 964 sacks (1861 cf) 65/35 Class "B"/Poz containing 6% gel, 2% CaCl, 1/2 cf Perlite/sack - mixed at 12.7 PPG, 1.93 yield (1861 cf of slurry, 100% excess to Surface).
- Run temperature survey after 12 hours if cement does not circulate to surface.
- WOC 18 hours.

Cement volume is subject to change after review of open hole caliper log to caliper volume + 30%. Minimum clearance between couplings and hole is 2.875". Safety factors utilized in the design of this casing string were: burst = 1.1; collapse = 1.125; and tension = 1.8 or 100,000 lb over pull, whichever is greater.

Bits: 12 1/4" surface hole - MT class 115 or 116 to ~ 320'.

7 7/8" production hole - PDC to ~ 7490' - top of DK "B" Sand.

7 7/8" production hole - TCI class 637 - 7490' to 7740' TD

Centralizers:

Surface string: 3 - 8 5/8" x 12 1/4": One centralizers run in middle of shoe joint with lock ring and two centralizers spaced evenly between shoe joint and 100'.

Production string: 25 - 4 1/2" x 7 7/8" centralizers will be run across all prospective pays in the Dakota and Mesa Verde formations. 1 - 4 1/2" x 7 7/8" centralizer will run below the DV tool and 5 - 4 1/2" x 7 7/8" centralizers will be run every other joint above DV tool. In addition 5 - 4 1/2" x 7 7/8" turbolizers will be spaced such that one (1) is just below the Basal Fruitland Coal, three (3) across the Fruitland and one (1) into the Ojo Alamo