

UTAH OIL AND GAS CONSERVATION COMMISSION

REMARKS: WELL LOG \_\_\_\_\_ ELECTRIC LOGS \_\_\_\_\_ FILE  WATER SANDS \_\_\_\_\_ LOCATION INSPECTED OIL SUB REPORT/abd \_\_\_\_\_

*This well application was returned by U.S.G.S. on June 11, 1982*

DATE FILED 1-13-82

LAND FEE & PATENTED \_\_\_\_\_ STATE LEASE NO \_\_\_\_\_ PUBLIC LEASE NO U-10428-A INDIAN \_\_\_\_\_

DRILLING APPROVED: 1-29-82

SPUDED IN: \_\_\_\_\_  
COMPLETED: \_\_\_\_\_ PUT TO PRODUCING \_\_\_\_\_

INITIAL PRODUCTION \_\_\_\_\_  
GRAVITY API \_\_\_\_\_  
GOR \_\_\_\_\_  
PRODUCING ZONES \_\_\_\_\_

TOTAL DEPTH: \_\_\_\_\_  
WELL ELEVATION 5122' gr

DATE ABANDONED JUNE 11, 1982 LOCATION ABANDONED, WELL NEVER DRILLED  
FIELD: WILDCAT 3/26

UNIT: \_\_\_\_\_  
COUNTY: SAN JUAN

WELL NO NANCY CANYON #1-29 API NO. 43-037-30755

LOCATION 2230 FT. FROM (N) (S) LINE.  660 FT FROM (E) (W) LINE.  SE NE 1/4 - 1/4 SEC. 29

TWP	RGE	SEC	OPERATOR	TWP	RGE	SEC	OPERATOR
				38S	25E	29	ENDREX CORPORATION



**LeCLAIR - WESTWOOD, INC.**

388 DENVER CLUB BUILDING  
DENVER, COLORADO 80202  
(303) 825-4258

**RECEIVED**  
JAN 18 1982  
DIVISION OF  
OIL, GAS & MINING

January 13, 1982

Ms Debbie Beauregard  
Division of Oil, Gas & Mining  
1588 West, North Temple  
Salt Lake City, Utah 84116

Re: Nancy Patterson Canyon 1-29

Dear Ms Beauregard:

As per our telephone conversation of 1/12/82 in regards to exception to location in Sec 29, T38S - R25E, San Juan County, Utah, I am enclosing a topo map as well as further information as to why I need to drill this well 660' FEL and 2230' FNL.

In 1980, Southland Royalty drilled a well at Sec 28, T38S - R25E in the SE SW. This well was drilled to the Desert Creek Formation to test a seismic high. The well was subsequently drilled and abandoned as non-productive. In 1981, Patrick Petroleum Corp. of Michigan drilled the 2nd well at Sec 28, T38S - R25E in the NW NW of the section based on the same seismic survey and dry hole of Southland Royalty. This well was granted an exception to the spacing rule due to an Archeological find. Upon drilling this well, it was found that this well was structurally the same as the well in the SW of this section.

The original location that we proposed to drill had our drill site on the cliff to the south of our requested location. Due to the high cost of building a well pad there, we decided to move the location to the north due to inaccessibility. In consulting with the geologist, it was determined that we could still be on structure. If we were to move this pad further north, we could not hope to make a well based on the control from the offsetting wells. One other problem is that were we to move this location further north, we could possibly come in contact with an Archeological find.

Feel free to contact me at our office phone: 303/825-4258.

Sincerely,

LeCLAIR WESTWOOD, INC.

Thomas B. Majors  
Operations Superintendent

TBM/DSH

Enclosures

**STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING**

**SUBMIT IN TRIPPLICATE\***  
(Other instructions on reverse side)

5. Lease Designation and Serial No.

U-104 28-A

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name

Nancy Canyon

8. Farm or Lease Name

Nancy Canyon

9. Well No.

1-29

10. Field and Pool, or Wildcat

Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area

Sec 29, T38S, R25E

12. County or Parrish 13. State

San Juan Utah

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work

DRILL

DEEPEN

PLUG BACK

b. Type of Well

Oil Well

Gas Well

Other

Single Zone

Multiple Zone

2. Name of Operator

Endrex Corporation <sup>a/o</sup> LeClair-Westwood, Inc. / Agent

3. Address of Operator

388 Denver Club Bldg, Denver, CO 80202 303/825-4258

4. Location of Well (Report location clearly and in accordance with any State requirements.\*)

At surface

2230' FNL, 660' FEL

At proposed prod. zone

Same

SENE

14. Distance in miles and direction from nearest town or post office\*

6.6 miles northeast of Hatch Trading Post, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any)

1080

16. No. of acres in lease

1980

17. No. of acres assigned to this well

40

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.

None

19. Proposed depth

6000'

20. Rotary or cable tools

Rotary

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

5122' GL

22. Approx. date work will start\*

Feb 15, 1982

23.

**PROPOSED CASING AND CEMENTING PROGRAM**

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
17-1/2	13-3/8	48#	300	350 sx-Suff to circ
7-7/8	5-1/2	15.5#	6000'	150 sx-Suff to circ zone of interest

We propose to drill a well to 6000' to test the Upper Ismay & Desert Creek Formations. We propose to set a DV tool 150' below the Chinle Formation on the 5-1/2" production casing and cement w/100 sx cement or sufficient to cover the top of the Navajo Formation. If dry, we will plug and abandon as per Federal and State Regulations

*approved  
1/27/82  
C. J. Ferguson*

IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 and true vertical depths. Give blowout preventer program, if any.

24.

Signed

*[Signature]*

Title

Operations Superintendent

Date

1/13/82

dsh

(This space for Federal or State office use)

Permit No.

Approval Date

Approved by

Title

Date

Conditions of approval, if any:

**STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING**

SUBMIT IN TRIPLICATE\*  
(Other instructions on reverse side)

**APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK**

1a. Type of Work  
 DRILL                       DEEPEN                       PLUG BACK

b. Type of Well  
 Oil Well                       Gas Well                       Other                       Single Zone                       Multiple Zone

2. Name of Operator  
Endrex Corporation - LeClair-Westwood, Inc. / Agent

3. Address of Operator  
388 Denver Club Bldg, Denver, CO 80202                      303/825-4258

4. Location of Well (Report location clearly and in accordance with any State requirements.)\*  
 At surface 2230' FNL, 660' FEL  
 At proposed prod. zone Same

14. Distance in miles and direction from nearest town or post office\*  
6.6 miles northeast of Hatch Trading Post, Utah

15. Distance from proposed\* location to nearest property or lease line, ft. (Also to nearest drlg. line, if any) 1080

16. No. of acres in lease 1980

17. No. of acres assigned to this well 40

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft. None

19. Proposed depth 6000'

20. Rotary or cable tools Rotary

21. Elevations (Show whether DF, RT, GR, etc.) 5122' GL

22. Approx. date work will start\* Feb 15, 1982

5. Lease Designation and Serial No.  
U-104 28-A

6. If Indian, Allottee or Tribe Name

7. Unit Agreement Name  
Nancy Canyon

8. Farm or Lease Name  
Nancy Canyon

9. Well No.  
1-29

10. Field and Pool, or Wildcat  
Wildcat

11. Sec., T., R., M., or Blk. and Survey or Area  
Sec 29, T38S, R25E

12. County or Parrish    13. State  
San Juan    Utah

**23. PROPOSED CASING AND CEMENTING PROGRAM**

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24. Signed [Signature] Title Operations Superintendent Date 1/13/82 dsh  
 (This space for Federal or State office use)

Permit No. .... Approval Date .....

Approved by..... Title..... Date.....  
 Conditions of approval, if any:

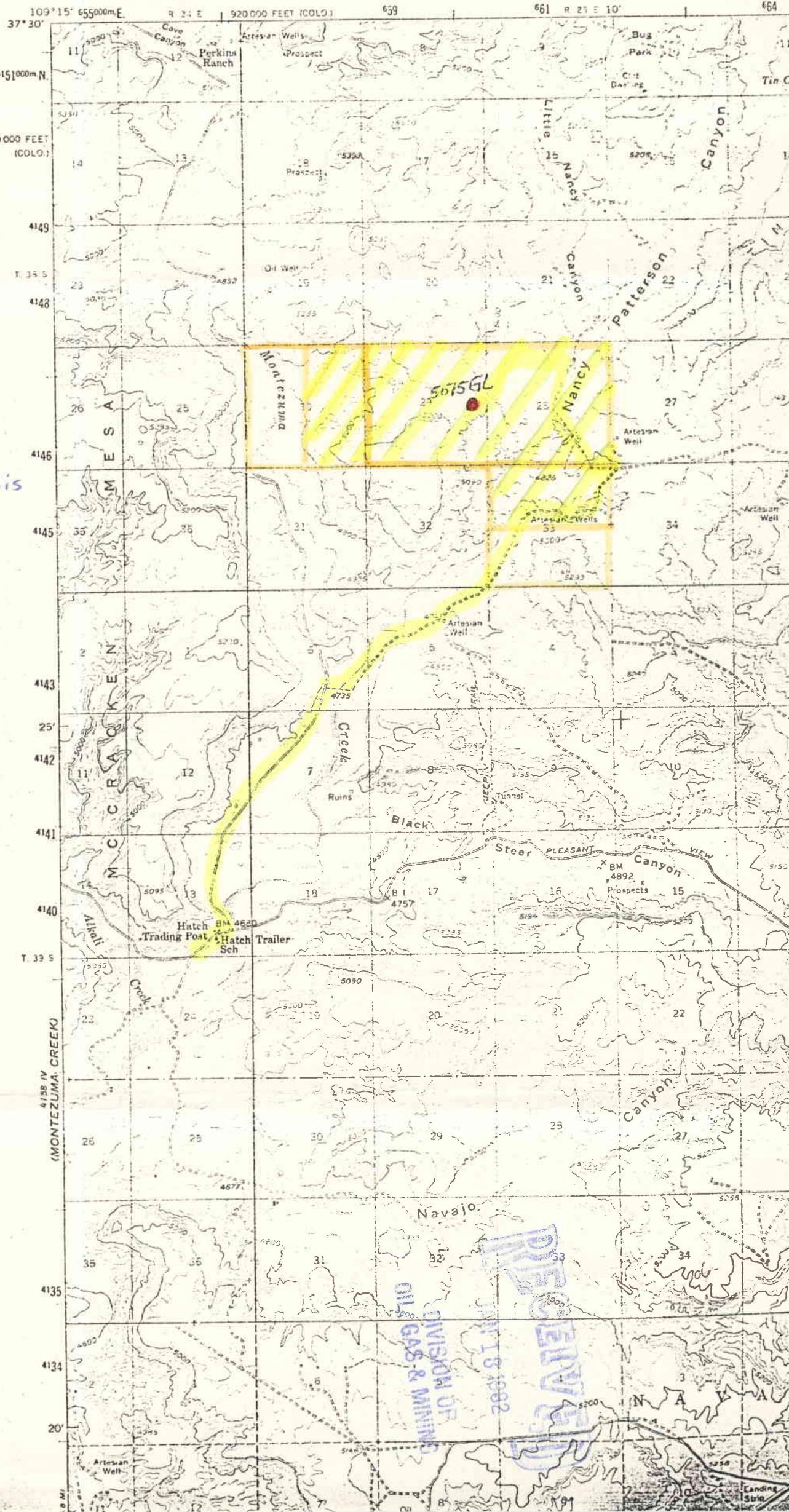
\*See Instructions On Reverse Side

NANCY PATTERSON  
CANYON 1-29

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

4159 III  
(LANDING)

ATO  
664



Acreage  
involved in this  
unit.

RECEIVED  
JAN 18 1902  
DIVISION OF  
OIL, GAS & MINING

NTL-6 PROGRAM

Approval of Operations

NANCY CANYON #1-29  
2230' FNL - 660' FEL  
Sec 29, T38S - R25E  
San Juan County, Utah

**RECEIVED**  
JAN 26 1982

**DIVISION OF  
OIL, GAS & MINING**

Prepared For:

ENDREX CORPORATION

Prepared By:

LeCLAIR-WESTWOOD, INC.  
388 DENVER CLUB BLDG  
DENVER, CO 80202

Copies sent to:

- 4 - USGS, Durango CO
- 2 - BLM, Monticello, UT
- 1 - State of Utah
- 1 - Perry McDonald Construction (Dirt Contractor)
- 1 - Bayless Drilling (Drilling Contractor)
- 2 - Endrex Corporation



STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

5. Lease Designation and Serial No.

U-104 28-A

6. If Indian, Allottee or Tribe Name

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

Type of Work  
DRILL  DEEPEN  PLUG BACK

7. Unit Agreement Name

Nancy Canyon

b. Type of Well  
Oil Well  Gas Well  Other   
Single Zone  Multiple Zone

8. Farm or Lease Name

Nancy Canyon

Name of Operator  
Endrex Corporation - LeClair-Westwood, Inc. / Agent

9. Well No.

1-29

3. Address of Operator  
388 Denver Club Bldg, Denver, CO 80202 303/825-4258

10. Field and Pool, or Wildcat

Wildcat

Location of Well (Report location clearly and in accordance with any State requirements.)\*  
At surface  
2230' FNL, 660' FEL

11. Sec., T., R., M., or Blk. and Survey or Area

Sec 29, T38S, R25E

At proposed prod. zone  
Same

12. County or Parrish 13. State

14. Distance in miles and direction from nearest town or post office\*  
6.6 miles northeast of Hatch Trading Post, Utah

San Juan Utah

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drilg. line, if any)  
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1980

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40

18. Distance from proposed location\* to nearest well, drilling, completed, or applied for, on this lease, ft.  
None

19. Proposed depth

6000'

20. Rotary or cable tools

Rotary

21. Elevations (Show whether DF, RT, GR, etc.)  
5122' GL

22. Approx. date work will start\*

Feb 15, 1982

23. PROPOSED CASING AND CEMENTING PROGRAM

Size of Hole	Size of Casing	Weight per Foot	Setting Depth	Quantity of Cement
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IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, 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 and true vertical depths. Give blowout preventer program, if any.

24. Signed: [Signature] Title: Operations Superintendent Date: 1/13/82 dsh

(This space for Federal or State office use)

Permit No. \_\_\_\_\_ Approval Date \_\_\_\_\_

Approved by \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_  
Conditions of approval, if any:

TEN POINT COMPLIANCE PROGRAM  
OF NTL-6 APPROVAL OF OPERATION

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
2230' FNL, 660' FEL  
San Juan County, Utah

- 1) The outcropping geologic formation is the Morrison Formation.
- 2) The estimated formation tops to be encountered are as follows:

	<u>Depth</u>	<u>Subsea</u>
Morrison	0	
Navajo	910'	+4212'
Wingate	1330'	+3792'
Moenkopi	2550'	+2572'
DeChelly	2608'	+2514'
Upper Ismay	5603	- 481'
Lower Ismay	5723'	- 601'
Upper Desert Creek	5785'	- 663'
Lower Desert Creek	5855'	- 733'
Paradox C	5885'	- 763'
Salt	5923'	- 801'
TD	5950'	- 828'

- 3) The following depths are estimated for oil and gas bearing zones:

<u>Substances</u>	<u>Formation</u>	<u>Depth</u>
Oil	Upper Ismay	5603 (-481')
Oil	Desert Creek	5785 (-663')

- 4) A. The proposed casing program will be as follows:

<u>Purpose</u>	<u>Depth</u>	<u>Hole Size</u>	<u>OD</u>	<u>Weight</u>	<u>Grade</u>	<u>Types</u>
Surface	0-300'	17-1/2	13-3/8	48#	J-55	ST&C
Production	0-5950'	7-7/8	5-1/2	15.5#	K-55	ST&C

- B. The cement program will be as follows:

<u>Surface</u> 300 - 0	<u>Cement</u> Class "B" w/2% CaCl <sub>2</sub> & 1/4# Cello flake (Sufficient to circ)
<u>Production</u> 5950' - 5000' (600' above zone of interest)	<u>Cement</u> Class "B" w/2% gel, 10% salt, .75% CFR-2 (Sufficient to cover zones of interest)
<u>DV Tool</u> From 150' below Chinle formation to 100' above top of Navajo as determined at time of logging	<u>Cement</u> Class "B" regular (Sufficient to cover intervals named)

LeCLAIR  
WESTWOOD  
INC.

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
San Juan County, Utah  
Page two

5) Blowout preventer stack will consist of a 10" series 3000 BOP (See BOP Diagram). Equipment will be tested prior to drilling out from under surface and operational checks will be made daily thereafter.

6) Drilling fluids will be as follows:

<u>Interval</u>	<u>Mud Type</u>	<u>Weight</u>	<u>Viscosity</u>	<u>Water Loss</u>	<u>PH</u>
0 - 300'	Lime-gel (spud mud)	8.9 - 11.4	35-45 sec	6.0 - 8.0	10.0
300 - 2800'	Fresh water				
2800 - 5950' (TD)	LSND				

7) Auxiliary equipment to be used is as follows:

- a) Kelly cock.
- b) Float above bit.
- c) Monitoring of mud system will be done visually.
- d) A sub with a full opening valve will be on the rig floor at all times.

8) Testing, logging, and coring will be as follows:

- a) One (1) 60' core will be obtained in the Lower Desert Creek.
- b) Two (2) possible Drill Stem Test as required by well site geologist.
- c) Open hole logs will be run by Schlumberger consisting of:
  - 1)GR-BHC.
  - 2)DIL-SFL from TD to base of surface casing.
  - 3)FDC-CNL-GR-CAL from TD to 4000'.
- d) Stimulation will be determined after evaluation of open hole logs and the setting of production casing. Any treatment needed will be covered by a sundry notice.

9) No abnormal pressures or H<sub>2</sub>S gas is anticipated during drilling or completion. The maximum bottom hole pressure to be expected is 3500 PSI.

10) Endrex Corporation plans to spud the #1-29 Nancy Canyon on or before February 22, 1982, and intends to complete the well within one month after the well has reached TD.

LeCLAIR  
WESTWOOD  
INC.



MULTI-POINT REQUIREMENTS TO ACCOMPANY A.P.D.

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
2230' FNL - 660' FEL  
San Juan County, Utah

Gentlemen:

We submit the following application and plats for permission to drill the Nancy Canyon #1-29.

1) Existing Roads

- A) The proposed well site and elevation plat is shown as Plat #1.
- B) Directions from nearest town to location are as follows:  
From Hatch Trading post go north on paved road 2.7 miles-go east across Montezuma Creek and continue north-east along Goss Canyon Road 2.6 miles. Go north up Nancy Patterson Canyon 1.4 miles, cross wash and proceed west on well road .9 miles to #1-28 Nancy Canyon dry hole. Continue west on flagged access .6 miles to location.
- C) For access roads see Map #1.
- D) All existing roads in a 3 mile radius are shown on Map #1.
- E) There are no development wells within a 1 mile radius.
- F) Improvement to existing access will not be necessary and will be limited to present disturbed width. New construction will be limited to a total disturbed width of 30' in cuts, with a maximum of 22' on flat surfaces. Holes will be knocked in berms to allow drainage of water run off. Surface disturbances and vehicular travel will be limited to the approved location and approved access route.

2) Planned Access Roads

- A) There is one new access road to be constructed starting at the dry hole on #1-28 Nancy Canyon to the proposed location.
- B) The grade will be 10% or less.
- C) No turnouts are planned.
- D) There will be ditches put along the uphill side of all new roads for drainage. Water bars will be installed by the dirt contractor as needed.
- E) No new culverts are planned.
- F) Natural bentonite will be placed on the access roads and sandy areas.
- G) No gates, cattleguards, or fence cuts will be necessary.
- H) The last .6 mile of new access will not exceed 30' in cuts or total disturbed width of 22' on flats.

3) Location of Existing Wells (See Map #2).

- A) There is one (1) water well within a two (2) mile radius of the proposed well.
- B) There are two (2) abandoned wells within a two (2) mile radius of the proposed well-one of which is presently being used as a water well.
- C) There are no known temporarily abandoned wells within a two (2) mile radius of the proposed well.
- D) There are no known disposal wells within a two (2) mile radius of the proposed well.
- E) There are no known drilling wells within a two (2) mile radius of the proposed well.

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
San Juan County, Utah  
Multi-Point Requirements To Accompany A.P.D.  
Page two

- F) There are no known producing wells within a two (2) mile radius of the proposed well.
  - G) There are no known shut-in wells within a (2) mile radius of the proposed well.
  - H) There are no known injection wells within a two (2) mile radius of the proposed well.
- 4) Location of Existing and/or Proposed Facilities
- A) There is one set of production facilities and oil gathering lines proposed by Endrex Corp. within the boundaries of the proposed well.
  - B) New facilities in the event of a producing well are shown on Diagram #1.
    - 1) Proposed tank battery will be located on the north side of the proposed well pad.
    - 2) All flow lines will be buried below frost line depth.
    - 3) Dimensions of production facilities will be approximately 175' x 175' (Diagram #1)
    - 4) Only native materials will be used.
    - 5) An earthen dike will be constructed from native material around all production related facilities. Any pits will be properly fenced and flagged overhead to prevent wildlife entry.
    - 6) The reserve pit will be fenced and flagged to allow time to adequately dry. All pits will be backfilled. The location not used for production facilities, will be leveled, contoured and reseeded as per BLM. See requirements in 10-B.
- 5) Location And Type of Water Supply
- A) The source of water will be the Southland Royalty Federal #1-28. Permission has been requested from Richard Perkins for use of this water.
  - B) Water will be trucked to location over roads marked on Map #1.
  - C) No water wells are to be drilled on this lease.
- 6) Source of Construction Materials
- A) Only native materials will be used.
  - B) No construction material will be taken off Federal land.
  - C) Surface and sub-surface soil material in the immediate disturbed area will be used.
  - D) All major access roads are shown on Map #1.
- 7) Methods for Handling Waste Disposal
- A) Drill cuttings will be contained and buried in the reserve pit.
  - B) All drilling fluids are to be contained in the reserve pit.
  - C) The produced fluids will be produced into a test tank until such time as construction of production facilities are completed. Any spills of liquids (oil, salt water, & other produced fluids) will be cleaned up and removed.
  - D) A porta-toilet will be furnished with the drilling rig.
  - E) A trash pit will be constructed near the south-east end of the location with steep sides and at least six feet deep. Trash will not be disposed of in the reserve pit. The trash pit will be fenced in with a fine mesh wire on all sides and the top to prevent wildlife entry and scattering of

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
San Juan County, Utah  
Multi-Point Requirements To Accompany A.P.D.  
Page three

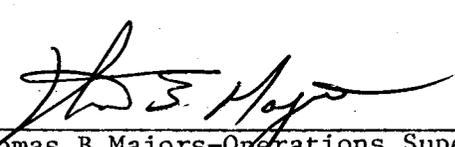
- (7-E) trash due to weather conditions. The trash pit will be covered with at least two (2) feet of compacted earth at the end of the well.
- F) The reserve pit will be fenced on three sides during drilling operations. Prior to rigging down the drilling rig, the fourth side will be fenced and flagged overhead. The fence will be kept in good repair until the backfill is completed.
- G) A burning permit will be obtained from the State Fire Warden before burning trash.
- H) All sewage holes and trash pits will be filled immediately upon completion of drilling operations.
- 8) Ancillary Facilities
- A) There are no airstrips, camps or other facilities planned during the drilling of the well.
- B) There will be four portable trailers used on location for housing of pertinent drilling personnel during drilling operations. These trailers will be removed upon completion of drilling operations.
- 9) Well Site Layout
- A) See diagram #2 for well pad layout.
- B) See diagram #3 for cross section of drill pad with cuts and fills.
- C) Location of all drilling equipment, other pertinent equipment, and soil stockpiles is shown on diagram #4.
- D) The location will be constructed as discussed during pre-drill conference.
- E) The top 6 inches of top soil will be removed from the location and stockpiled on the east side of the location. Top soil along the access will be reserved along the access route.
- F) The reserve pit will be lined with commercial bentonite or plastic if large piping is encountered during building operations.
- G) Half of the reserve pit will be constructed in cut.
- 10) Plans for Restoration of Surface
- A) The reserve pit will be fenced until dry. The pit will be leveled, contoured, and reseeded as per BLM or surface owners' requirements.
- B) Seeds will be sown at a time to be specified by BLM.
- C) The re-seeding operation will consist of a mixture of:
- 2 lbs acre Indian Ricegrass
  - 1/2 lb acre Sand Dropseed
  - 2 lbs acre Shad Seak
- D) Immediately upon completion of drilling operations, the location and surrounding areas will be cleaned of all debris from the operation. All trash will be disposed of in the trash pit and burned.
- E) The operator or his contractor will contact the San Juan Resource Area BLM office in Monticello, Utah, 48 hrs prior to starting rehabilitation work that involves earthmoving equipment and upon completion of all restoration measures.
- F) The reserve pit will be completely dry and all trash removed before any dirt work can commence.
- G) All disturbed areas will be recontoured to blend as nearly as possible with the natural topography.

Endrex Corporation  
Nancy Canyon #1-29  
Sec 29, T38S - R25E  
San Juan County, Utah  
Multi-Point Requirements To Accompany A.P.D.  
Page four

- 10) H) The stockpiled topsoil will be evenly distributed over the disturbed area.  
I) All disturbed areas will be scarified with the contour to a depth of six (6) inches.  
J) All new access roads will be ripped eighteen (18) inches deep, and water bars will be installed.  
K) After seeding is completed, the stockpiled brush will be scattered evenly over the disturbed area and walked down with a dozer. The access will be blocked to prevent future use.  
L) Water Bars will be constructed as directed by BLM personnel to control erosion.
- 11) Production  
A) Enough topsoil will be stockpiled to reclaim the remainder of the disturbed location at a future date.  
B) All above ground production facilities will be painted a neutral color (light tan or brown).  
C) The access will be upgraded to BLM specifications.
- 12) Other Information  
A) For Archeological report see attached report.  
B) Surface in the area is being used for cattle grazing.  
C) Exception to standard spacing is being requested due to inaccessibility of anticipated drill site.  
D) The operator or his contractor will contact the San Juan Resource Area office in Monticello, Utah (801-587-2201) at least 48 hours prior to starting any work on public lands.  
E) The San Juan County Road Department in Monticello, Utah (801-587-2231 ext 43) will be contacted prior to county road use.  
F) The dirt contractor will be furnished with a copy of this program and any stipulations prior to any work.  
G) If subsurface cultural material is exposed during construction work, all work in that spot will stop immediately and the San Juan Resource Area office will be contacted immediately.  
H) All employees working in the area will be informed by the operator that they will be subject to prosecution if they are caught disturbing archeological sites or picking up artifacts.
- 13) Lessee's or Operator's Representatives  
Thomas B. Majors will be Endrex Corporation's representative. Mr Majors can be reached by telephone at his office (303-825-4258) or at his home (303-772-8496).
- 14) Certification  
I hereby certify that I, or persons under my direct supervision have inspected the proposed drillsite and access route; and that I am familiar with the conditions which presently exist; and that the statements made in this plan are to the best of my knowledge true and correct. The work associated with the operation proposed herein will be performed by Endrex Corporation and its contractors in conformity with the plan and terms and conditions under which it is approved.

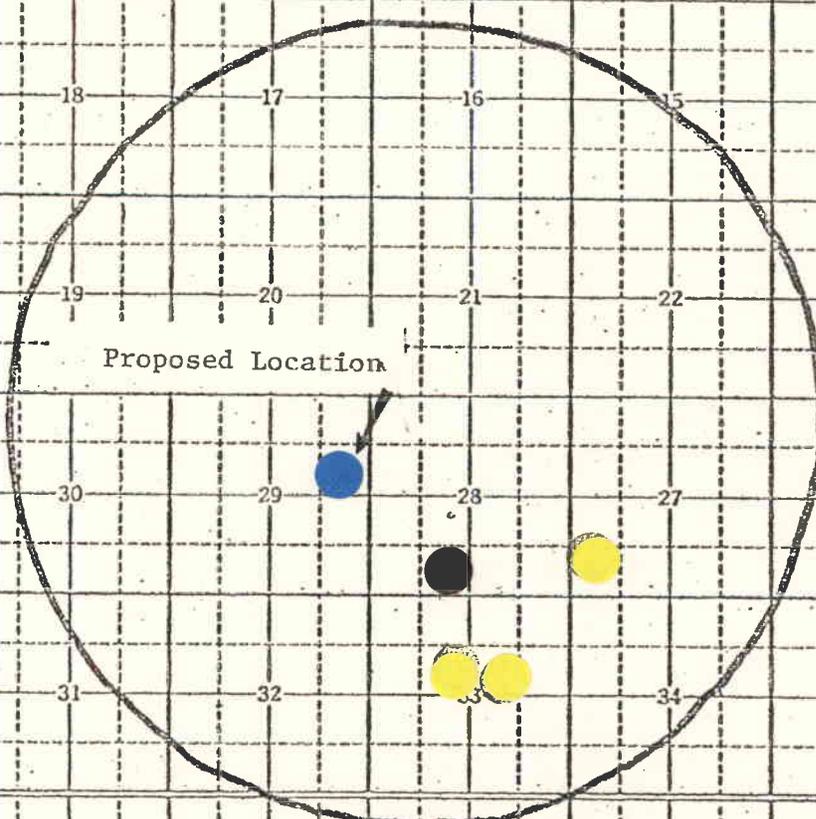
1-20-82

Date

  
Thomas B Majors-Operations Superintendent  
LeClair-Westwood, Inc. - Agent for  
Endrex Corporation

MAP #2

ENDREX CORPORATION  
NANCY CANYON #1-29  
2230' FNL - 660' FEL  
Sec 29, T38S - R25E  
San Juan County, Utah

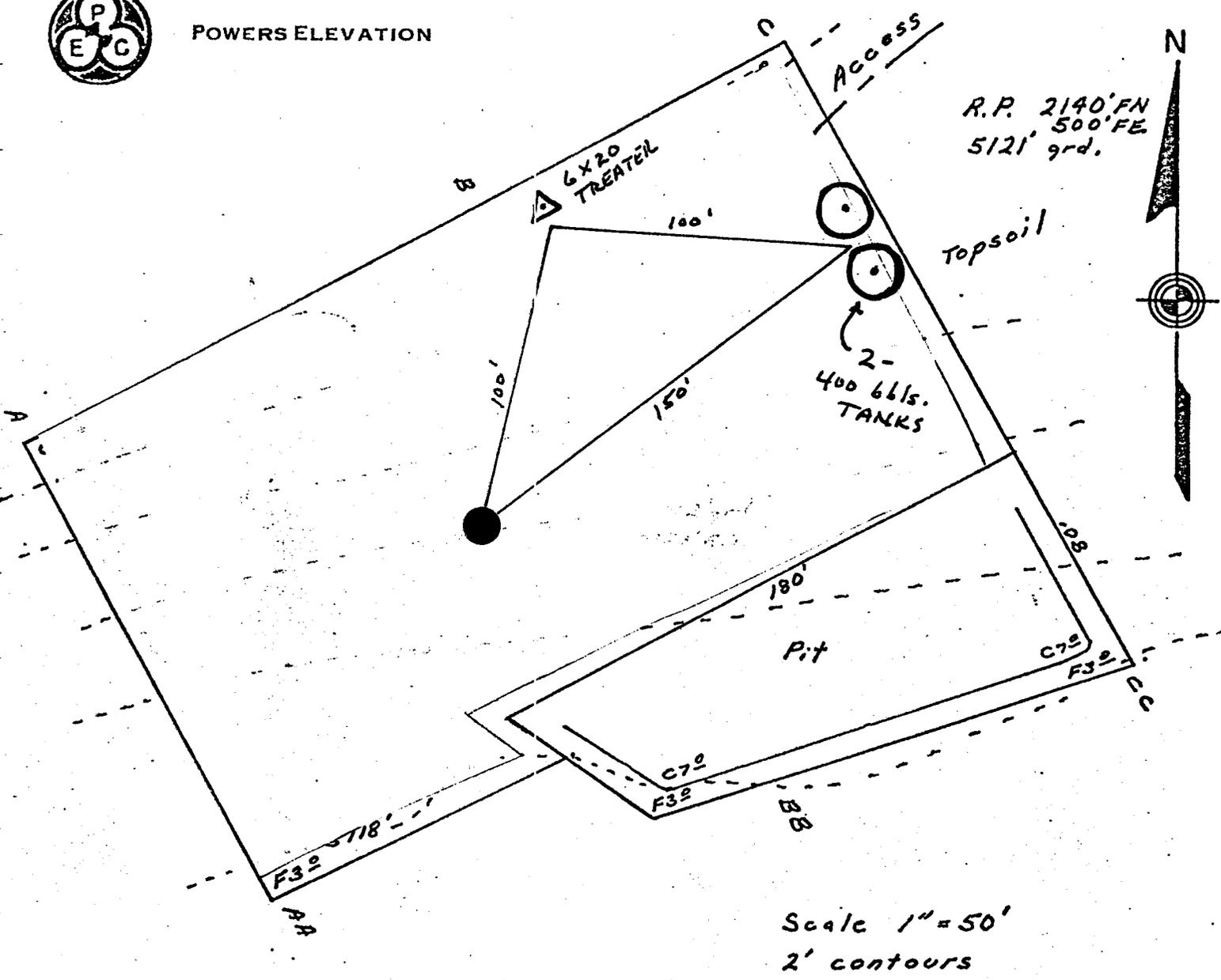


- Existing Water Well
- Artesian Water Wells

1-29 Nancy Patterson



POWERS ELEVATION



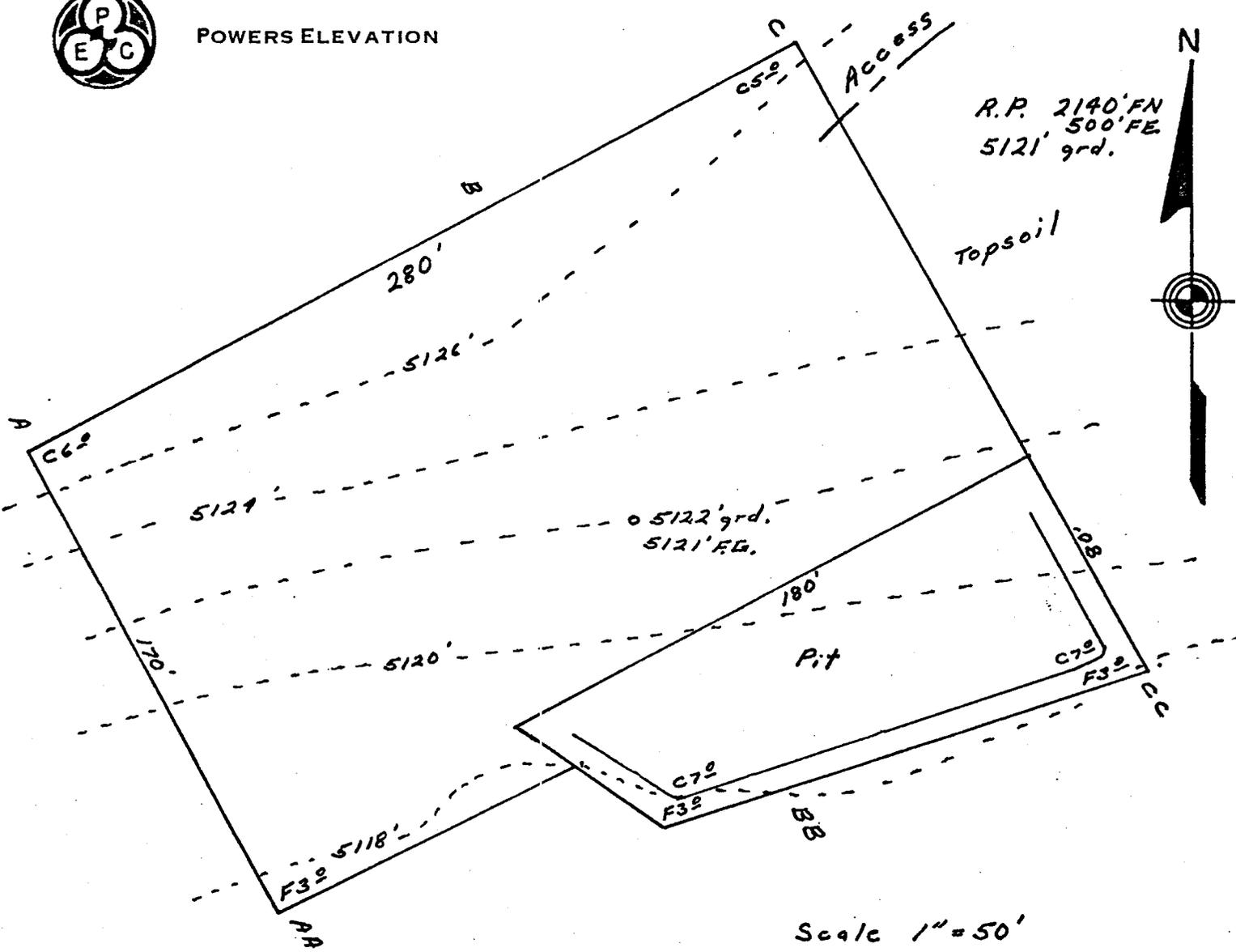
Scale 1" = 50'  
2' contours

Diagram #1  
 Production Facility  
 ENDREX CORPORATION  
 NANCY CANYON #1-29  
 2230' FNL - 660' FEL  
 Sec 29, T38S - R25E  
 San Juan County, Utah

#1-29 Nancy Patterson



POWERS ELEVATION



R.P. 2140' FN  
500' FE  
5121' 9rd.



Scale 1" = 50'  
2' contours

Diagram #2  
 ENDREX CORPORATION  
 NANCY CANYON #1-29  
 2230' FNL - 660' FEL  
 Sec 29, T38S - R25E  
 San Juan County, Utah

#1 Nancy Patterson



POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS  
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES  
600 SOUTH CHERRY STREET, SUITE 1201  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

Scales: 1" = 50'H.

1" = 20'V.

Cut *|||||*

Fill *XXXXX*

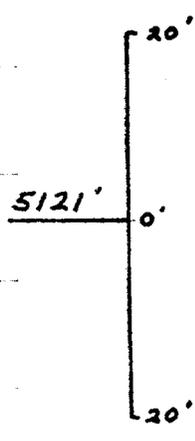
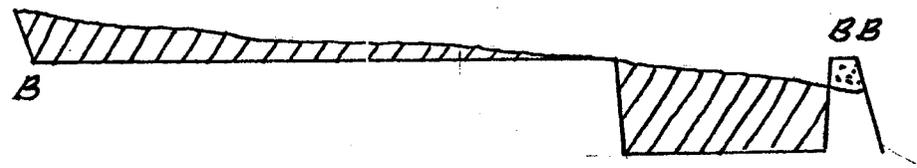
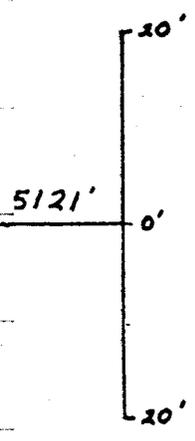
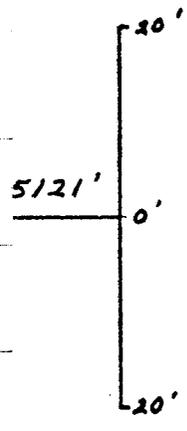
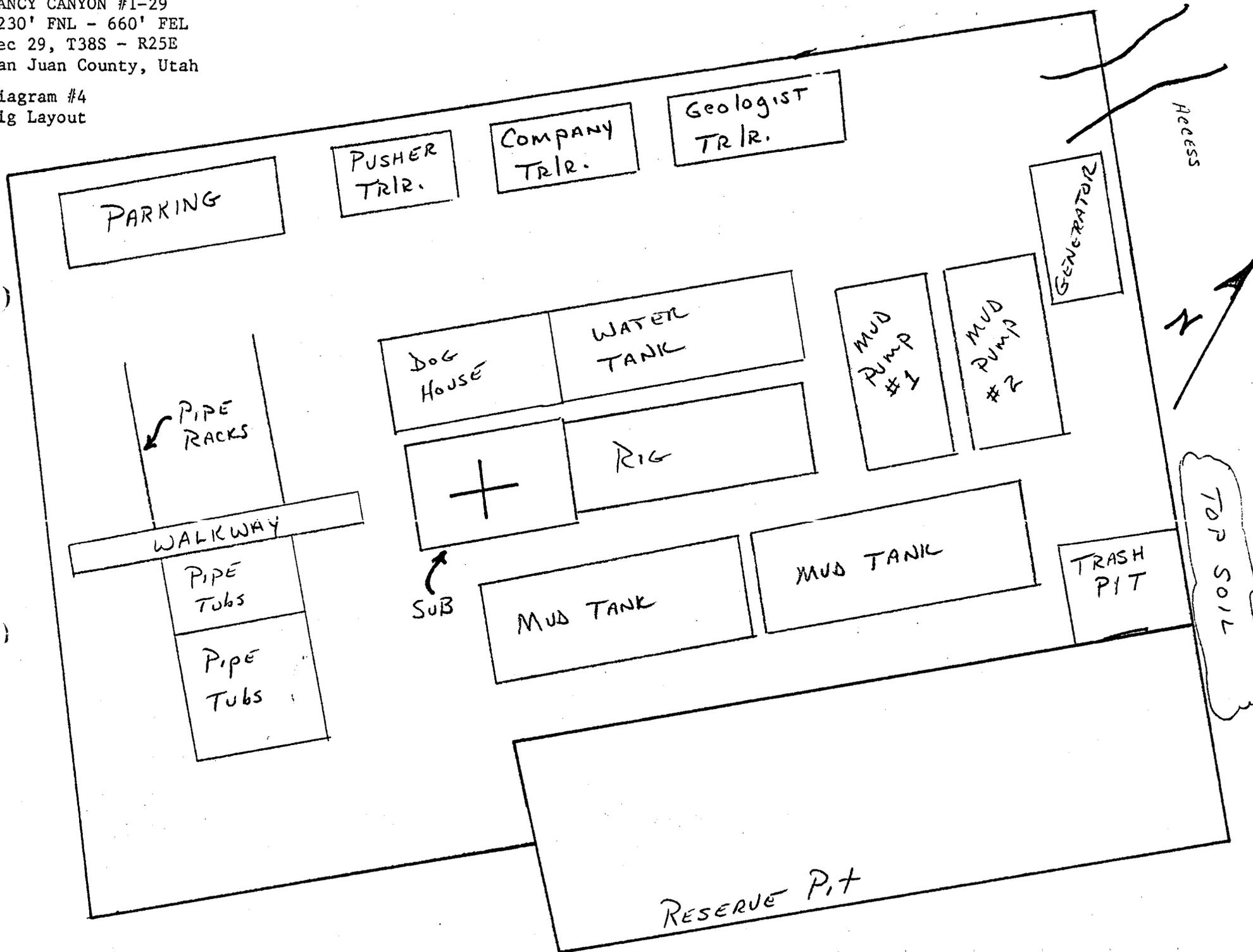


Diagram #3

ENDREX CORPORATION  
NANCY CANYON #1-29  
2230' FNL - 660' FEL  
Sec 29, T38S - R25E  
San Juan County, Utah

ENDREX CORPORATION  
NANCY CANYON #1-29  
2230' FNL - 660' FEL  
Sec 29, T38S - R25E  
San Juan County, Utah

Diagram #4  
Rig Layout



(NOT TO SCALE)

# DRILLING FLUIDS PROGRAM



Div of PETRO CHEM, INC.

## DEPTH INTERVAL

0 - Surface Casing Depth

MUD TYPE: Spud Mud-Gel Lime

Spud with clear water and add lime to aid the settling and flocculating of drilled solids. Run a Gel-Lime sweep or mud up as necessary to clean the hole and land surface casing.

A short or round trip may be beneficial at surface casing depth.

The pumps should be compounded if the annular velocity is not greater than 60 fpm.

A high viscosity fluid may be necessary to stabilize this large diameter hole.

Estimated Drilling Time: 1 Day

Estimated Interval Mud Cost: \$200.00



# DRILLING FLUIDS PROGRAM

## DEPTH INTERVAL

Surface Casing Depth - Top of DeChelly

MUD TYPE: Low Solids, Light Mud Up

In order to protect sensitive shales and insure proper hole cleaning, a controlled mud system is recommended after drilling out of surface casing.

Clean the pits, lower calcium content to 150 or less, and mud up with an Ace-Ben, low solids, non-dispersed system. This highly shear thinning system is chosen because it has a minimum of solids (for penetration rate), with minimum viscosity at the bit, and a maximum annular viscosity (for hole cleaning).

The use of Ace-Ben will extend the yield of bentonite while selectively flocculating low yield native solids. Ace-Ben should be added at a rate of 1 sack per 6 sacks of bentonite for maximum effectiveness. Maintain the minimum viscosities required for proper hole cleaning.

Caustic Soda should be used to control pH at approximately 9.5. Cypan or CMC may be used to control filtration at the desired level. Use Soda Ash to maintain calcium at 150 or less. If high viscosities and gels become a problem, small additions of Rayvan or Petro-Lig may be needed.

Drilling with high filtrates (13-15) may be acceptable, but should be lowered (10-12) if sensitive shales become a problem.

Desanders and desilters should be run continuously to avoid excess mud weights and high mud costs due to solids build-up.

### Recommended Fluid Properties:

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>	<u>pH</u>	<u>Calcium</u>
8.7 - 8.9	32 - 35	10 - 15	9.0 - 9.5	150 or less

Estimated Drilling Time: 5 Days

Estimated Interval Mud Cost: \$4,000.00

# DRILLING FLUIDS PROGRAM



CO. Div of PETRO CHEM, INC.

## DEPTH INTERVAL

DeChelly - TD

In order to suspend barite and tolerate salt and gypsum contamination, a dispersed mud system is recommended at this depth.

Begin dispersing the mud with Petro-Lig and Rayvan and supplement filtration control with Drispac.

Maintain the fluid loss below 10 cc's to prevent shale problems and stuck pipe.

If a salt water flow is encountered, increasing the mud weight may be necessary and more Rayvan will be necessary to prevent flocculated mud.

Formations containing gypsum may be anticipated in the Ismay causing high viscosities, gels, and loss of filtration control. Treat the bad effects of this contaminant by using Soda Ash to remove excess calcium, adjust rheology with Petro-Lig and Rayvan, and lower filtration with Drispac.

Pressures requiring mud weight increases are anticipated in the Ismay and higher pressures are expected in the Desert Creek. Flow check all drilling breaks and monitor gas at the surface to determine if higher mud weights are needed.

Offset wells near the Nancy Canyon Prospect used mud weights up to 11.4 ppg at TD and wells near the Black Rock Canyon Prospect used weights up to 10.2 for this test.

### Recommended Fluid Properties:

<u>Mud Weight</u>	<u>Funnel Viscosity</u>	<u>Filtrate</u>	<u>pH</u>	<u>Calcium</u>
8.9 - 11.4	35 - 45	6 - 10	9.5 - 10.0	150 or less

Estimated Drilling Time: 18 Days

RIG #75

RIG INVENTORY

Cabot 750 series with 112' - 300,000# Pemco Derrick, Powered by 2 - 8V71T Detroit Engines (700 HP). Mounted on six axle carrier. Self-propelled.

Drawworks.....Cabot 2042  
Substructure.....12' High (Clear) 400,000#  
Rotary Table.....Ideco 27<sup>1</sup>/<sub>2</sub>"  
Swivel.....Brewster 65X - 220 Ton  
Kelly.....40' X 4<sup>1</sup>/<sub>2</sub>" Square  
Kellycock.....TIW 3,000#  
Pump #1.....Gardner-Denver GP-G X P 16V71T (700 HP)  
#2.....Gardner-Denver GP-G X P 16V71T (500 HP)  
Mud Tanks.....Steel (2) 500 BBL Total Storage  
Shaker.....Swaco Double  
Desander.....Swaco 8 Cone  
Mud Mixing System #1.....6 X 8 Mission Magnum Centrifugal with  
6V53 GMC  
#2.....5 X 6 Mission Magnum Centrifugal with  
4V71 GMC  
Blocks.....Ideco 4 Sheave 160 Ton  
Generators #1.....100 KW with 8V71 GMC  
#2.....100 KW with 8V71 GMC  
Drill Pipe.....4<sup>1</sup>/<sub>2</sub>" Full Hole Grade "E" 16.60#  
Drill Collars.....16 - 6<sup>1</sup>/<sub>4</sub>" X 2<sup>1</sup>/<sub>4</sub>"  
Water Storage.....500 BBL  
Fuel Storage.....12,000 Gallons (1-10,000 Gallon Tank &  
1-2,000 Gallon Tank)  
BOP's.....Shaffer 10" 3000 with Pipe and CSO Rams  
Closing Unit.....ValyCon 50 Gallon  
Tongs.....BJ Type "B"

Valve choke manifold with positive and adjustable choke.

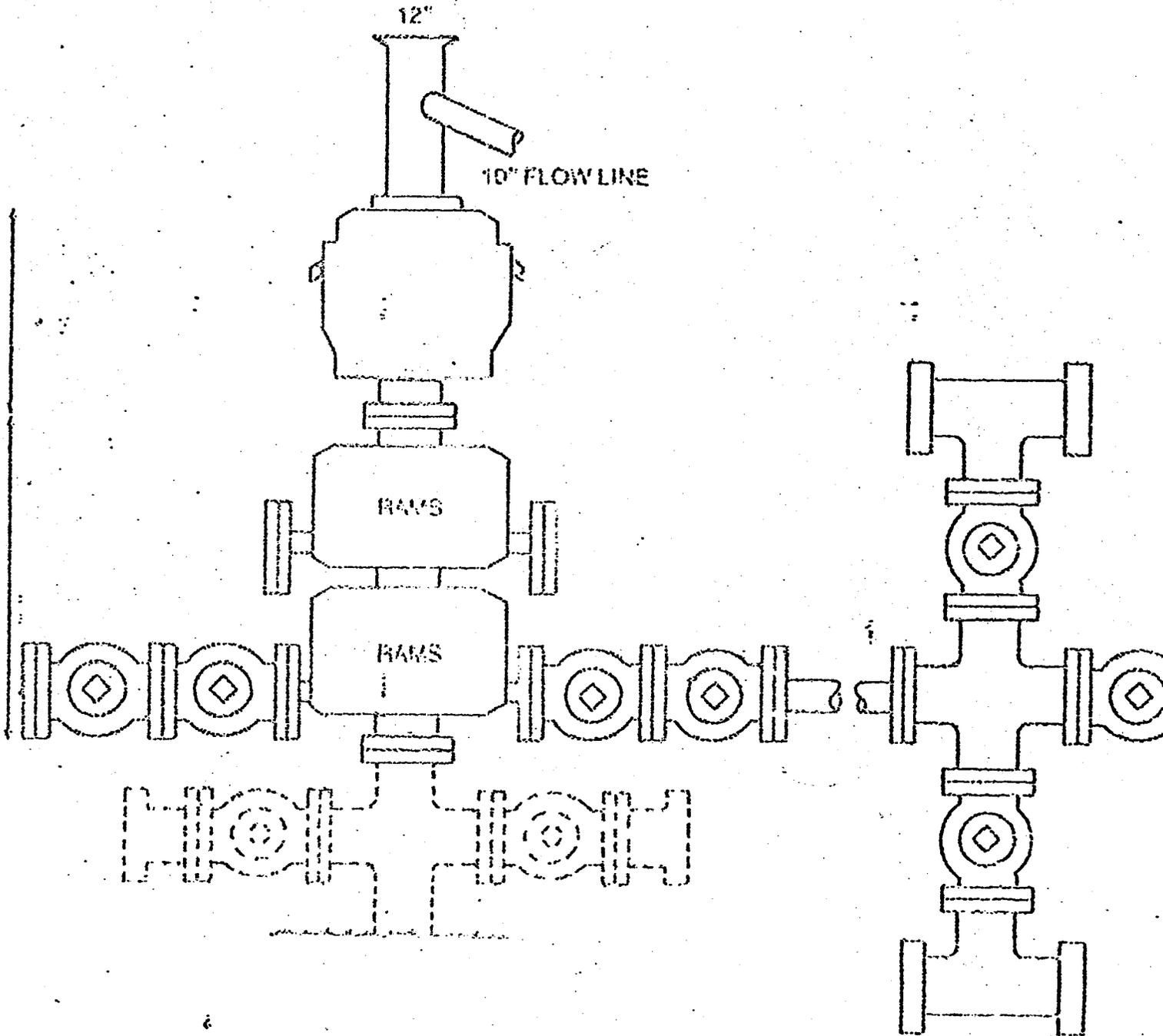
Boiler or hot air heater if needed.

Allied Equipment: Catwalk, pipe racks, dog house, change house, trailer house.

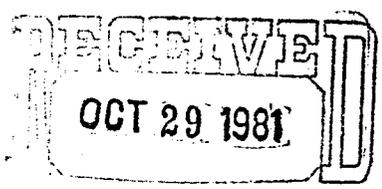
BOP DIAGRAM

BOP AND CHOKE MANIFOLD

ENDREX CORPORATION  
NANCY CANYON #1-29  
2230' FNL - 660' FEL  
Sec 29, T38S - R25E  
San Juan County, Utah



SERIES 10" X 3000 with positive and adjustable choke



SUPERVISOR, OIL AND GAS OPERATIONS:

DESIGNATION OF OPERATOR by Clair-Westwood, Inc.

The undersigned is, on the records of the Bureau of Land Management, holder of oil and gas lease

DISTRICT LAND OFFICE: Salt Lake City, Utah  
SERIAL NO.: U-10423-A

and hereby designates

NAME: Endrex Corporation  
ADDRESS: 2929 E. Commercial Boulevard  
Suite 300, Ft. Lauderdale, Florida 33308

as his operator and local agent, with full authority to act in his behalf in complying with the terms of the lease and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to (describe acreage to which this designation is applicable):

- Township 38 South, Range 25 East, SLM
- Section 28: All
- Section 29: All
- Section 30: E/2
- Section 33: N/2

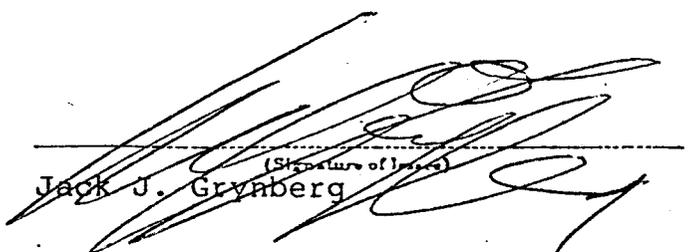
It is understood that this designation of operator does not relieve the lessee of responsibility for compliance with the terms of the lease and the Oil and Gas Operating Regulations. It is also understood that this designation of operator does not constitute an assignment of any interest in the lease.

In case of default on the part of the designated operator, the lessee will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The lessee agrees promptly to notify the oil and gas supervisor of any change in the designated operator.

10/5/81

(Date)

  
 (Signature of Lessee)  
 Jack J. Grynberg  
 1050 17th Street, Suite 1950  
 Denver, CO (Address) 80265

DESIGNATION OF AGENT

Supervisor, Oil and Gas Operations:

The undersigned is, on the records of the Geological Survey, Unit Operator under the Nancy Canyon unit agreement, San Juan County, Utah (state), No. \_\_\_\_\_ approved \_\_\_\_\_ and hereby designated:

NAME: Leclair-Westwood, Inc.

ADDRESS: 388 Denver Club Building  
Denver, Colorado 80202

as its agent, with full authority to act in its behalf in complying with the terms of the Unit Agreement and regulations applicable thereto and on whom the supervisor or his representative may serve written or oral instructions in securing compliance with the Oil and Gas Operating Regulations with respect to drilling, testing, and completing unit well No. 3, in the SE 1/4 NE 1/4 Sec. 29, T. 38S, R. 25E, San Juan County, Utah.

It is understood that this designation of agent does not relieve the Unit Operator of responsibility for compliance with the terms of the unit agreement and the Oil and Gas Operating Regulations. It is also understood that this designation of agent does not constitute an assignment of any interest under the unit agreement or any lease committed thereto.

In case of default on the part of the designated agent, the Unit Operator will make full and prompt compliance with all regulations, lease terms, or orders of the Secretary of the Interior or his representative.

The Unit Operator agrees promptly to notify the oil and gas supervisor of any change in the designated agent.

This designation of agent is deemed to be temporary and in no manner a permanent arrangement.

This designation is given only to enable the agent herein designated to drill the above-specified unit well. Unless sooner terminated, this designation shall terminate when there is filed in the appropriate district office of the U. S. Geological Survey a completed file of all required Federal reports pertaining to subject well. It is also understood that this designation of agent is limited to field operations and does not cover administrative actions requiring specific authorization of the Unit Operator.

Patrick Petroleum Corporation of Michigan  
Unit Operator

By: Paul W. Fairchild  
Its Attorney in Fact

10/7/81

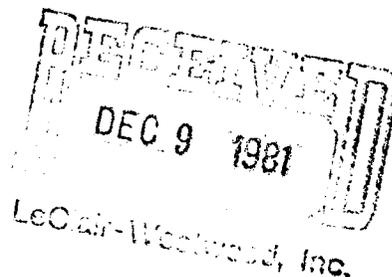


POWERS ELEVATION

OIL WELL ELEVATIONS — LOCATIONS  
ENVIRONMENTAL — ARCHAEOLOGICAL SERVICES  
600 SOUTH CHERRY STREET, SUITE 1201  
DENVER, COLORADO 80222  
PHONE NO. 303/321-2217

December 3, 1981

LeClair-Westwood  
388 Denver Club Building  
Denver, CO 80201



Gentlemen:

Enclosed is the cultural resource survey report for the following LeClair-Westwood location:

#1-29 Nancy Patterson Canyon.

A BLM Class-III pedestrian survey and an inspection of existing records were performed for this location by Powers Elevation. Our file search revealed four previously recorded sites (42SA2824, 42SA2871, 42SA173 and 42SA176) in Section 29.

Our field survey revealed one site, 42SA10606. The site does not appear to be eligible to the National Register of Historic Places. Therefore, we recommend that the project be allowed to proceed.

If you have any questions regarding this report, please feel free to contact this office.

Sincerely,

*Marcia J. Tate*

Marcia J. Tate  
Production Manager  
Archaeology Division

MJT:dc

cc: BLM, Moab District  
BLM, San Juan Resource Area  
Richard Fike, BLM State Archaeologist  
David Madsen, State Archaeologist  
Melvin Smith, SHPO  
Thomas Parry, District Archaeologist

enclosures



1a. State \_\_\_\_\_  
Site No. [I/1-10] 42SA10606  
b. Agency No. \_\_\_\_\_  
2a. County San Juan  
b. Temp. No. \_\_\_\_\_

- 3. Project: LeClair-Westwood, #1-29 Nancy Patterson Canyon Well and Access
- 4. Site Name/Previous Designations: N/A
- 5. Class: XPrehistoric     Historic     Paleontologic
- 6. Site Type: Lithic Scatter-Quarry
- 7. Elevation [I/11-15] 5120 ft. X.3048 = 1561 m.
- 8. UTM Grid: [I/16-30] zone 12 ; 660200 m E; 4146875 m N
- 9. [II/1-16] NW $\frac{1}{4}$  of SE $\frac{1}{4}$  of NE $\frac{1}{4}$  of Section 29 T. 38S. , R. 25E.
- 10. Map Reference: Cajon Mesa, 15', 1958
- 11. Aerial Photo Data: N/A
- 12. General Location and Access: From Hatch Trading Post travel north 2.2 miles on a paved road to the end of the pavement; turn northeast on a dirt road; cross Montezuma Creek; travel northeast 2.5 miles to the intersection with another dirt road that heads north, crossing Cross Canyon Wash then following Nancy Patterson Canyon Wash northward 1.4 miles; then turn west and follow a newly constructed access road approximately 0.5 mile west and southwest up hill to a newly completed well. Then follow a dim seismic trail 0.5 mile southwest to the site.

Informant/Address: \_\_\_\_\_

- 13. Land Owner [II/17-18]: \_\_\_\_\_  
Federal Administrative Units [II/19-20]: BLM Moab District

- 14. Description of Site: The site consists of an L-shaped 125 meter by 70 meter chert quarry in an exposed bed of chert associated with Morrison Formation, Brushy Basin Unit. Artifacts include primary and secondary decortication flakes and partial cores of grey, whitish-grey and purple cherts. Much frost fracture has occurred at this site and at first glance the artifact density appears heavier than is actually the case.

- 15. Site Condition [II/21]:     Excellent;     Good; X Fair;     Poor  
Agent of Impact [II/22-27]: erosion (wind and water)

- 16. Nat. Register Potential [II/28]:  
     Significant(C) X Non-Significant(D)  
Justify: Lack of stratigraphy, diagnostic artifacts and deflation due to alluvial and aeolian action.

- 17. Disposition of Photo Negative [II/29] : BLM  
Photo Numbers: \_\_\_\_\_

- 18. Recorded by: Thomas E. Parry  
Survey Org. [II/30-31]: Powers Elevation Date: Nov. 19, 1981  
Assisting Crew Members: N/A

ENVIRONMENTAL DATA

State Site No. 42SA10606

Agency No. \_\_\_\_\_

Temp. No. \_\_\_\_\_

19. Degree/Aspect of slope [III/1-5] : 5° S-180, 30° NW-310
20. Direction/Distance to Permanent Water [III/6-11] : SE-135/ 19 k m  
 Type/Name of Water Source [III/12] : Permanent watershed/McElmo Creek  
 Distance to nearest other Water Source: 4224' E to Nancy Patterson Canyon  
 Type of other water source: intermittent wash
21. Physiographic Region [III/13-14]: Blanding Basin
22. Topographic Location (check one under each heading) [III/15-18]:

PRIMARY LANDFORM	POSITION ON LANDFORM	SECONDARY LANDFORM	SECONDARY POSITION
<input type="checkbox"/> mountain spine(A)	<input type="checkbox"/> top/crest/peak(A)	<input type="checkbox"/> alluvial fan(A)	<input checked="" type="checkbox"/> top/crest/peak(A)
<input type="checkbox"/> hill(B)	<input type="checkbox"/> edge(B)	<input type="checkbox"/> alcove(B)	<input type="checkbox"/> edge(B)
<input checked="" type="checkbox"/> tableland/mesa(C)	<input type="checkbox"/> slope(C)	<input type="checkbox"/> arroyo(C)	<input checked="" type="checkbox"/> slope(C)
<input type="checkbox"/> ridge(D)	<input type="checkbox"/> toe/foot/bottom/mouth(D)	<input type="checkbox"/> basin(D)	<input type="checkbox"/> toe/foot/bottom/mout
<input type="checkbox"/> valley(E)	<input checked="" type="checkbox"/> saddle/pass(E)	<input type="checkbox"/> cave(E)	<input type="checkbox"/> interior(G)
<input type="checkbox"/> plain(F)	<input type="checkbox"/> bench/ledge(F)	<input type="checkbox"/> cliff(F)	<input type="checkbox"/> step(H)
<input type="checkbox"/> canyon(G)	<input type="checkbox"/> rimrock(G)	<input type="checkbox"/> delta(G)	<input type="checkbox"/> riser(I)
	<input type="checkbox"/> interior(H)	<input type="checkbox"/> detached monolith(H)	<input type="checkbox"/> patterned ground(H)
		<input type="checkbox"/> dune(I)	<input type="checkbox"/> face(O)
		<input type="checkbox"/> floodplain(J)	
		<input type="checkbox"/> ledge(K)	
		<input type="checkbox"/> mesa/butte(L)	
		<input type="checkbox"/> playa(M)	
		<input type="checkbox"/> port.geo.feature(N)	
		<input type="checkbox"/> plain(O)	
		<input type="checkbox"/> ridge/knoll(P)	
		<input type="checkbox"/> slope(Q)	
		<input checked="" type="checkbox"/> terrace/bench(R)	
		<input type="checkbox"/> talus slope(S)	
		<input type="checkbox"/> island(T)	
		<input type="checkbox"/> outcrop(U)	
		<input type="checkbox"/> spring mound/bog(V)	
		<input type="checkbox"/> valley(W)	
		<input type="checkbox"/> cutbank(X)	
		<input type="checkbox"/> riser(Y)	

Describe: The site is located at the north end of a broad saddle that is flanked on the north and south by Morrison Formation Sandstone cliffs. The site is also on the northwest slope of the upper bench of the saddle.

23. Depositional Environment [III/19]

<input type="checkbox"/> fan(A)	<input type="checkbox"/> shore features	<input type="checkbox"/> moraine(J)	<input type="checkbox"/> cliff(P)
<input checked="" type="checkbox"/> talus(B)	<input type="checkbox"/> extinct lake(F)	<input type="checkbox"/> flood plain(K)	<input type="checkbox"/> outcrop(Q)
<input type="checkbox"/> dune(C)	<input type="checkbox"/> extant lake(G)	<input type="checkbox"/> marsh(L)	<input type="checkbox"/> stream bed(R)
<input type="checkbox"/> stream terrace(D)	<input type="checkbox"/> alluvial plain(H)	<input type="checkbox"/> landslide/slump(H)	<input type="checkbox"/> aeolian(S)
<input type="checkbox"/> playa(E)	<input type="checkbox"/> colluvium(I)	<input type="checkbox"/> delta(N)	<input type="checkbox"/> none(T)
			<input type="checkbox"/> residual(U)

24. Vegetation Community [III/20-21]:

- Alpine Grassland(AZ)  Pinyon/Juniper(EZ)  Warm Desert Shrub(HZ)
- Montane Conifer(BZ)  Cold Desert Shrub(FZ)  Marsh Community(IZ)
- Oak Shrub(DZ)  Salt Desert Shrub(GZ)  Alkali Flats(KZ)
- List Species in order of dominance:  
 On Site: Shadscale, cheatgrass

Off Site: Shadscale, cheatgrass, four-wing saltbush, ephedra

25. Encoding Form: (all entries are right justified)

	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30	31	32	33
I	4	2	S	A		1	0	6	0	6		5	1	2	0	1	2	6	6	0	2	0	0	4	1	4	6	8	7	5			
II	N	W	S	E	N	E	2	9	0	3	8	5	0	2	5	E	L	M	B	G	C	E	R					D	B	P	R		
III	0	5	1	8	0	1	3	5	1	9		B	A	J	C	E	R	C	B	H	Z	A	N									K	
IV	8	7	5	0	B	C		L	S	L	C					I	H	A								F	3	1	0	0			
V																																	
VI																																	

Form must be accompanied by a site map; photocopy of U.S.G.S. topo map with T., R., scale, and quad name; photographs of the site; and artifact sketches (if applicable).

Site Summary  
-----

PH-1. Site Type: Lithic scatter - chert quarry

PH-2. Cultural Affiliation [III/22-29]: Anasazi/Pueblo  
How Determined ? [III/30]: projectile point type

PH-3. Site Dimensions : 125 m X 70 m; Area [IV/1-5]: 8750 sq m

PH-4. Were surface artifacts collected? X Yes;    No; [IV/6] If yes, attach a continuation sheet describing sampling method used .

PH-5. Estimated depth of fill [IV/7] : 50 cm  
Subsurface test? [IV/8]    Yes; X No (Include location of test on site map)

Describe: \_\_\_\_\_

PH-6. Summary of Artifacts and Debris [IV/9-16]:

- |  |  |   |
|--|--|---|
| <input checked="" type="checkbox"/> Lithic Scatter(LS) | <input type="checkbox"/> Burned Bone(CB)           | <input type="checkbox"/> Burned Stone(BS) |
| <input type="checkbox"/> Ceramic Scatter(CS)           | <input type="checkbox"/> Isolated Artifact(IA)     | <input type="checkbox"/> Ground Stone(GS) |
| <input type="checkbox"/> Basketry/Textiles(BT)         | <input type="checkbox"/> Organic Remains(OR)       | <input type="checkbox"/> Corn Cobs(CC)    |
| <input type="checkbox"/> Source: General(LG)           | <input type="checkbox"/> Rubble/Shaped Stone(RS)   | <input type="checkbox"/> Shell(SL)        |
| <input type="checkbox"/> Source: Obsidian(LO)          | <input type="checkbox"/> Bedrock Mortar, etc.(BG)  | <input type="checkbox"/> Trade Beads(TB)  |
| <input type="checkbox"/> Source: Ignimbrite(LI)        | <input type="checkbox"/> Figurine: non-ceramic(FG) | <input type="checkbox"/> Worked Bone(WB)  |
| <input checked="" type="checkbox"/> Source: Chert(LC)  | <input type="checkbox"/> Jacal Fragments(JA)       | <input type="checkbox"/> Other(OT)        |

Describe: Grey chert cores, angular debris, primary and secondary decortication flakes, one projectile point.

Specific Artifact Classes  
-----

PH-7. Lithic Tools [IV/17-25]:

QUANTITY	TYPE
<u>1</u>	<u>Side-notched, corner tang, straight based projectile point</u>
_____	_____
_____	_____

Describe: \_\_\_\_\_

PH-8. Lithic Debitage [IV/26-30]: Estimated Total Quantity 500-1000  
Material Type: chert

Stages: rate as - (0)Not present (1)Rare (2)Common (3)Dominant  
I. Decortification: 3 IV. Final Shaping: 0  
II. Primary Thinning: 1  
III. Secondary Thinning/Shaping: 0

PH-9. Maximum Density/meter sq.(all lithics): 5 per square meter

PREHISTORIC SITES  
 =====

Page 4 of 4  
 State Site No. 42SA10606  
 Agency No. \_\_\_\_\_  
 Temp. No. \_\_\_\_\_

PH-10. Ceramic Artifacts [V/1-12]:

QUANTITY	TYPE
_____	N/A
_____	_____
_____	_____
_____	_____

Describe: \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PH-11. Maximum Density/meter sq.(ceramics): N/A

Features  
 -----

PH-12. Non-Architectural Features [V/13-18]: (locate on site map)

<input type="checkbox"/> hearth/firepit(HE)	<input type="checkbox"/> rubble mound(RM)	<input type="checkbox"/> earthen mound(EM)
<input type="checkbox"/> midden(MD)	<input type="checkbox"/> stone circle(SC)	<input type="checkbox"/> burial(BU)
<input type="checkbox"/> depression(DE)	<input type="checkbox"/> rock alignment(RA)	<input type="checkbox"/> trail/road(TR)
<input type="checkbox"/> water control(WC)	<input type="checkbox"/> petroglyph(PE)	<input type="checkbox"/> pictograph(PI)

Describe: N/A  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

PH-13. Architectural Features [V/19-30]: (locate on site map)

CLASS	QUANTITY	MATERIAL	CLASS	QUANTITY	MATERIAL
Single rm	_____	_____	Tower	_____	_____
Multiple rm	_____	_____	Cairn	_____	_____
Granary	_____	_____	Kiva	_____	_____
Cist	_____	_____	Pithouse	_____	_____

Describe: N/A  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

CONTINUATIONS:

PH-4 Method of sampling: selective grab sample for diagnostics.  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_  
 \_\_\_\_\_

11. DESCRIPTION OF FINDINGS: Some artifacts from this quarry site occur within the area of direct impact, however, these are considered to be sheet wash from the quarry which is situated uphill from the well location. These artifacts consist of approximately 30 grey chert primary decortication flakes that occur randomly with no apparent patterning or clustering save their location in a broad sheet wash area that originates at the chert outcrop where the material was being quarried and tested. One projectile point was observed, an Anasazi/Pueblo site-notched straight base type, not temporally diagnostic.

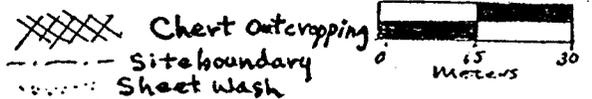
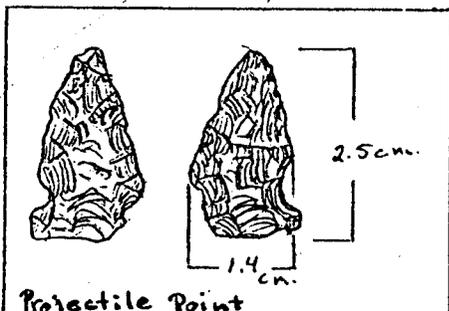
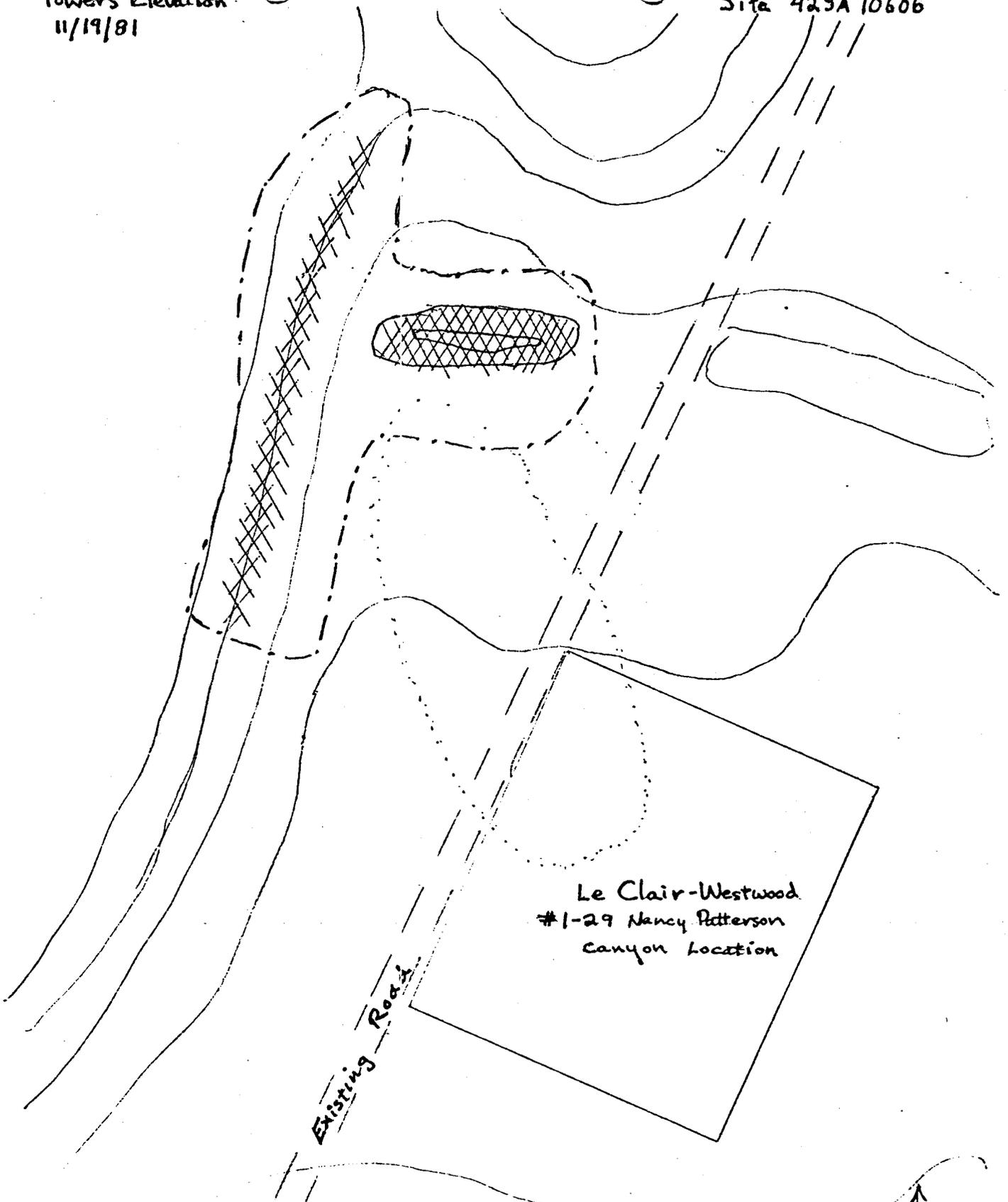
A file search of the archaeological records at the San Juan Resource Area on November 18, 1981, yielded two sites previously recorded in Section 29, T.38S., R.25E. Site 42SA2824, located in the SW $\frac{1}{4}$ , is a petroglyph site. Site 42SA2871 is also located in the SW $\frac{1}{4}$ . The site form for this site was missing from the site files. A file search conducted December 2, 1981, with Jim Dykman of the Division of State History, revealed two previously recorded sites in Section 29, 42SA173 and 42SA176. No descriptions were given for these sites.

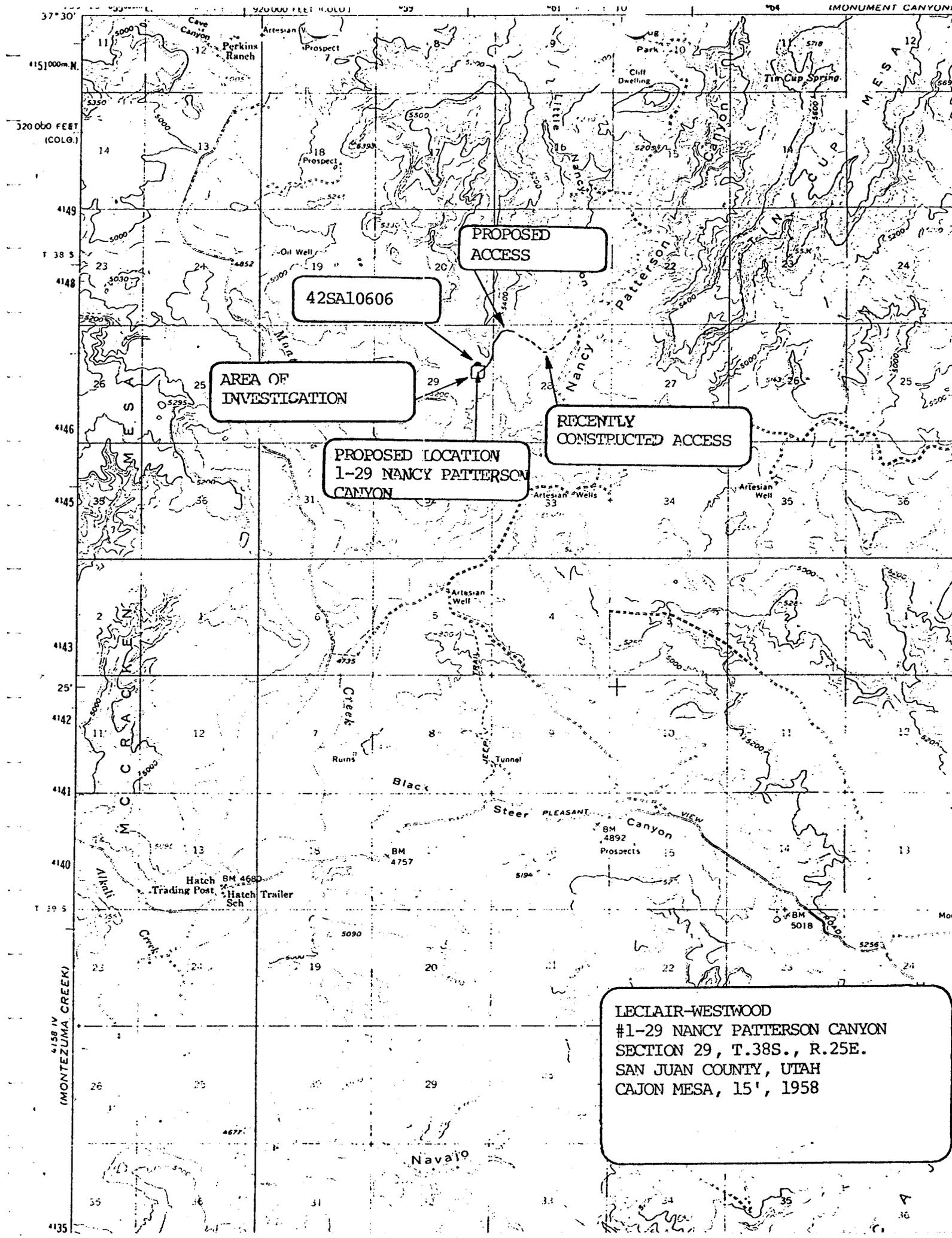
14. ACTUAL/POTENTIAL NATIONAL REGISTER PROPERTIES AFFECTED: being identifiable only as Anasazi/Pueblo. No indications of buried materials were observed to occur. The lack of definitive diagnostic artifacts also precludes the inclusion of site 42SA10606 on the National Register of Historic Places.

15. CONCLUSION/RECOMMENDATIONS: San Juan Resource Area Manager be notified.

Powers Elevation  
11/19/81

Site 429A 10606





42SA10606

AREA OF INVESTIGATION

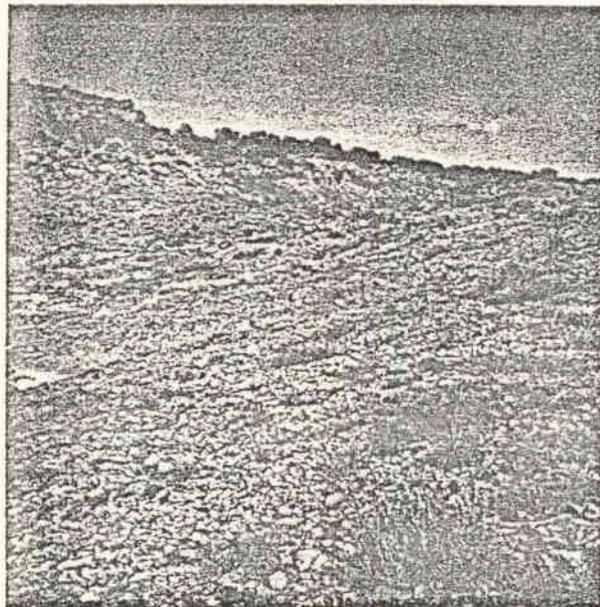
PROPOSED LOCATION  
1-29 NANCY PATTERSON  
CANYON

PROPOSED ACCESS

RECENTLY  
CONSTRUCTED ACCESS

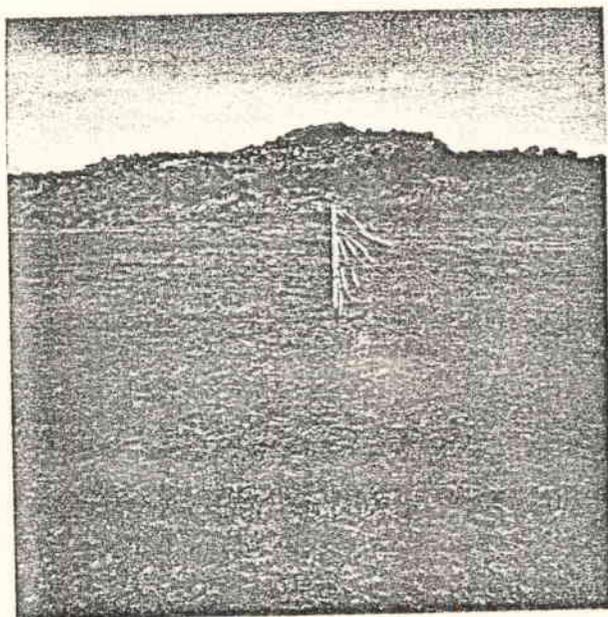
LECLAIR-WESTWOOD  
#1-29 NANCY PATTERSON CANYON  
SECTION 29, T.38S., R.25E.  
SAN JUAN COUNTY, UTAH  
CAJON MESA, 15', 1958

LeClair-Westwood  
#1-29 Nancy Patterson Canyon  
NW $\frac{1}{4}$ SE $\frac{1}{4}$ NE $\frac{1}{4}$ , Sec. 29, T.38S., R.25E.  
San Juan County, NM  
Site 42SA10606



View of site 42SA10606 looking northeast.

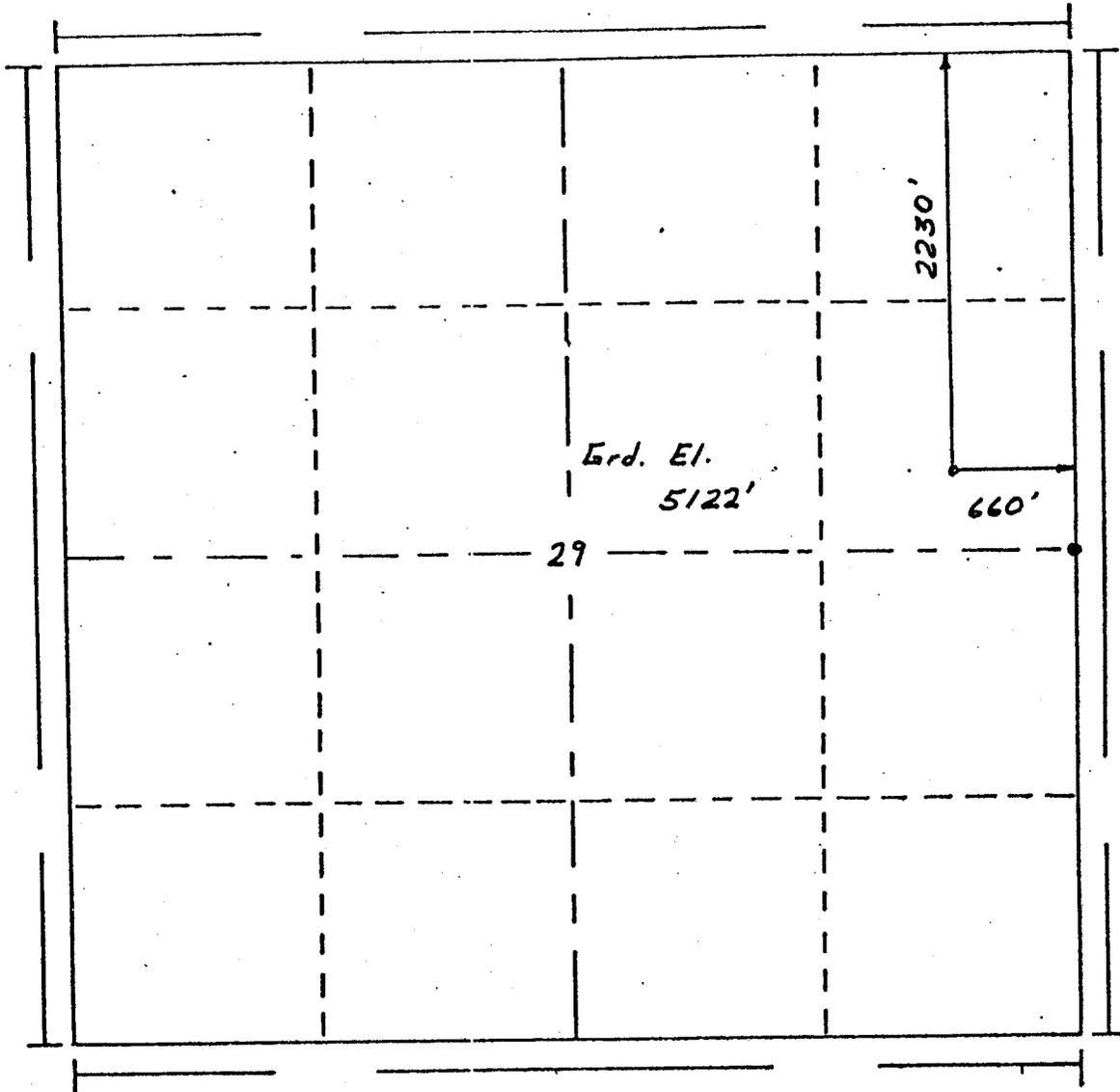
LeClair Westwood  
#1-29 Nancy Patterson Canyon  
Section 29, T.38S., R.25E.  
San Juan County, UT



View looking north to quarry site.



R. 25 E.



Scale... 1" = 1000'

Powers Elevation of Denver, Colorado  
 has in accordance with a request from *Debbie Short*  
 for *Le Clair Westwood, Inc.*  
 determined the location of # 1-29 *Nancy Patterson Canyon*  
 to be 2230' FNL & 660' FEL Section 29 Township 38 South  
 Range 25 East Salt Lake Meridian  
 San Juan County, Utah

I hereby certify that this plat is an  
 accurate representation of a correct  
 survey showing the location of

Date: 22 Nov. '81

T Nelson  
 Licensed Land Surveyor No. 2711  
 State of Utah

\*\* FILE NOTATIONS \*\*

DATE: 1-26-82  
OPERATOR: Endrey Corp.  
WELL NO: Nancy Canged Unit 1-29  
Location: Sec. 29 T. 36S R. 25E County: San Juan

File Prepared:  Entered on N.I.D.:   
Card Indexed:  Completion Sheet:

API Number 43-037-30755

CHECKED BY:

Petroleum Engineer: \_\_\_\_\_  
\_\_\_\_\_  
Director: VW  
\_\_\_\_\_  
Administrative Aide: Unit Well  
\_\_\_\_\_  
\_\_\_\_\_

APPROVAL LETTER:

Bond Required:  Survey Plat Required:   
Order No. \_\_\_\_\_ O.K. Rule C-3   
Rule C-3(c), Topographic Exception - company owns or controls acreage  
within a 660' radius of proposed site   
Lease Designation fed Plotted on Map   
Approval Letter Written   
Hot Line  P.I.

January 29, 1982

Endrex Corporation  
c/o LeClair-Westwood, Inc.  
388 Denver Club Bldg.  
Denver, Colorado 80202

RE: Well No. Nancy Canyon Unit #1-29  
Sec. 29, T. 38S, R. 25E  
San Juan County, Utah

Insofar as this office is concerned, approval to drill the above referred to oil well is hereby granted in accordance with Section 40-6-11, Utah Code Annotated 1953; and predicated on Rule A-3, General Rules and Regulations and Rules of Practice and Procedure.

Should you determine that it will be necessary to plug and abandon this well, you are hereby requested to immediately notify the following:

CLEON B. FEIGHT - Director  
Office: 533-5771  
Home: 466-4455

Enclosed please find Form OGC-8-X, which is to be completed whether or not water sands (aquifers) are encountered during drilling. Your cooperation in completing this form will be appreciated.

Further, it is requested that this Division be notified within 24 hours after drilling operations commence, and that the drilling contractor and rig number be identified.

The API number assigned to this well is 43-037-30755.

Sincerely,

DIVISION OF OIL, GAS AND MINING

Cleon B. Feight  
Director

CBF/as  
Encl.  
cc: USGS

8

STATE OF UTAH  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS, AND MINING

SUNDRY NOTICES AND REPORTS ON WELLS

(Do not use this form for proposals to drill or to deepen or plug back to a different reservoir. Use "APPLICATION FOR PERMIT—" for such proposals.)

1. OIL WELL <input checked="" type="checkbox"/> GAS WELL <input type="checkbox"/> OTHER <input type="checkbox"/>		5. LEASE DESIGNATION AND SERIAL NO. U - 10428 A	
2. NAME OF OPERATOR Endrex Corporation/LeClair-Westwood, Inc. - Agent		6. IF INDIAN, ALLOTTEE OR TRIBE NAME	
3. ADDRESS OF OPERATOR 388 Denver Club Bldg Denver CO 80202		7. UNIT AGREEMENT NAME	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.* See also space 17 below.) At surface  2230' FNL - 660' FEL		8. FARM OR LEASE NAME Nancy Canyon	
14. PERMIT NO.		9. WELL NO. 1-29	
15. ELEVATIONS (Show whether DF, RT, GR, etc.)		10. FIELD AND POOL, OR WILDCAT Wildcat	
		11. SEC., T., R., M., OR BLE. AND SURVEY OR AREA Sec 29, T38S - R25E	
		12. COUNTY OR PARISH San Juan	13. STATE Utah

16. Check Appropriate Box To Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:		SUBSEQUENT REPORT OF:	
TEST WATER SHUT-OFF <input type="checkbox"/>	PULL OR ALTER CASING <input type="checkbox"/>	WATER SHUT-OFF <input type="checkbox"/>	REPAIRING WELL <input type="checkbox"/>
FRACTURE TREAT <input type="checkbox"/>	MULTIPLE COMPLETE <input type="checkbox"/>	FRACTURE TREATMENT <input type="checkbox"/>	ALTERING CASING <input type="checkbox"/>
SHOOT OR ACIDIZE <input type="checkbox"/>	ABANDON* <input type="checkbox"/>	SHOOTING OR ACIDIZING <input type="checkbox"/>	ABANDONMENT* <input type="checkbox"/>
REPAIR WELL <input type="checkbox"/>	CHANGE PLANS <input type="checkbox"/>	(Other) <input type="checkbox"/>	
(Other) Cancellation	<input checked="" type="checkbox"/>	(NOTE: Report results of multiple completion on Well Completion or Recompletion Report and Log form.)	

17. 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.)\*

On June 7, 1982, Endrex Corporation requested that this application to drill be rescinded,

APPROVED BY THE STATE  
OF UTAH DIVISION OF  
OIL, GAS, AND MINING  
DATE:                       
BY:                     

RECEIVED  
MAY 09 1982

DIVISION OF  
OIL, GAS & MINING

18. I hereby certify that the foregoing is true and correct  
SIGNED Jeff Robbins TITLE Environmental Engineer DATE June 7, 1982  
(This space for Federal or State office use)

APPROVED BY \_\_\_\_\_ TITLE \_\_\_\_\_ DATE \_\_\_\_\_  
CONDITIONS OF APPROVAL, IF ANY:

LA

Oil and Gas Operations  
2000 Administration Building  
1745 West 1700 South  
Salt Lake City, Utah 84104

June 11, 1982

Endrex Corporation  
LeClair-Westwood, Inc., Agent  
388 Denver Club Building  
Denver, Colorado 80202

Re: Application for Permit to Drill  
Well No. 1-29  
Section 29-T38S-R25E  
San Juan County, Utah  
Lease No. U-10428-A

Gentlemen:

The referenced Application for Permit to Drill was received in this office on January 27, 1982.

We are returning your application unapproved, per your Sundry Notice dated June 7, 1982. If you again desire to drill at this location, a new complete package must be submitted.

If you have any questions, please feel free to call.

Sincerely,

E. W. Gynn  
District Oil & Gas Supervisor

bcc: SMA  
State O&G ✓  
State BLM  
MMS-Durango  
Well File  
APD Control

DH/dh