

UNITED STATES  
DEPARTMENT OF THE INTERIOR  
GEOLOGICAL SURVEY

30-042-20299

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

|  |  |  |
|--|--|--|
| 1a. TYPE OF WORK<br>DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>   |  | 5. LEASE DESIGNATION AND SERIAL NO.<br>NM - 8888   |
| b. TYPE OF WELL<br>OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input type="checkbox"/> |  | 6. IF INDIAN, ALLOTTEE OR TRIBE NAME   |
| 2. NAME OF OPERATOR<br>L. C. ENERGY, INC.  |  | 7. UNIT AGREEMENT NAME   |
| 3. ADDRESS OF OPERATOR<br>P.O. BOX 5064, WICHITA FALLS, TEXAS 76307  |  | 8. FARM OR LEASE NAME<br>FEDERAL   |
| 4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)<br>At surface<br>1850' FSL, 790' FWL<br>At proposed prod. zone<br>SAME  |  | 9. WELL NO.<br>3   |
| 14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*<br>N/A   |  | 10. FIELD AND POOL, OR WILDCAT<br>WILDCAT M  |
| 15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drig. unit line, if any) 790'   |  | 11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA<br>Sec. 8, T20N, R2W<br>N.M.P.M.                                      |
| 16. NO. OF ACRES IN LEASE  |  | 12. COUNTY OR PARISH 13. STATE<br>Sandoval N.M.  |
| 17. NO. OF ACRES ASSIGNED TO THIS WELL<br>160  |  | 18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.<br>3000' |
| 19. PROPOSED DEPTH<br>3000'  |  | 20. ROTARY OR CABLE TOOLS<br>ROTARY  |
| 21. ELEVATIONS (Show whether DF, RT, GR, etc.)<br>6873' GR.  |  | 22. APPROX. DATE WORK WILL START*<br>11-10-77  |

## 23. PROPOSED CASING AND CEMENTING PROGRAM

| SIZE OF HOLE | SIZE OF CASING | WEIGHT PER FOOT | SETTING DEPTH | QUANTITY OF CEMENT |
|--------------|----------------|-----------------|---------------|--------------------|
| 12 1/4       | 8 5/8          | 24.0            | 500           | 400 sxs            |
| 6 3/4        | 4 1/2          | 10.50           | 3000          | TO BE DETERMINED   |

THIS PROPOSAL TO DRILL THIS WELL WITH ROTARY TOOLS, USING MUD FOR SURFACE HOLE AND AIR AS CIRCULATING MEDIUM FOR 6 3/4" HOLE. PRODUCTION CASING WILL BE CEMENTED IN SUCH A MANNER TO PROTECT PRODUCING INTERVALS.

## ESTIMATED FORMATION TOPS

CLIFF HOUSE - 1000'  
POINT LOOKOUT - 2750'

MANCOS - 2950'

THE SW/4 SECTION 8 IS DEDICATED TO THIS WELL. THE NATURAL GAS PRODUCED FROM THIS WELL IS NOT COMMITTED.

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. FOR: L. C. ENERGY, INC. PREISIDENT, WALSH ENGR.  
SIGNED: *[Signature]* TITLE & PROD. CORPORATION DATE 10-7-77  
E. N. WALSH, P.E.

(This space for Federal or State office use)

PERMIT NO. APPROVAL DATE

APPROVED BY TITLE DATE

CONDITIONS OF APPROVAL, IF ANY:

OCT 17 1977

**NEW MEXICO OIL CONSERVATION COMMISSION  
WELL LOCATION AND ACREAGE DEDICATION PLAT**

Fbrn C-102  
Supersedes C-128  
Effective 1-1-65

All distances must be from the outer boundaries of the Section.

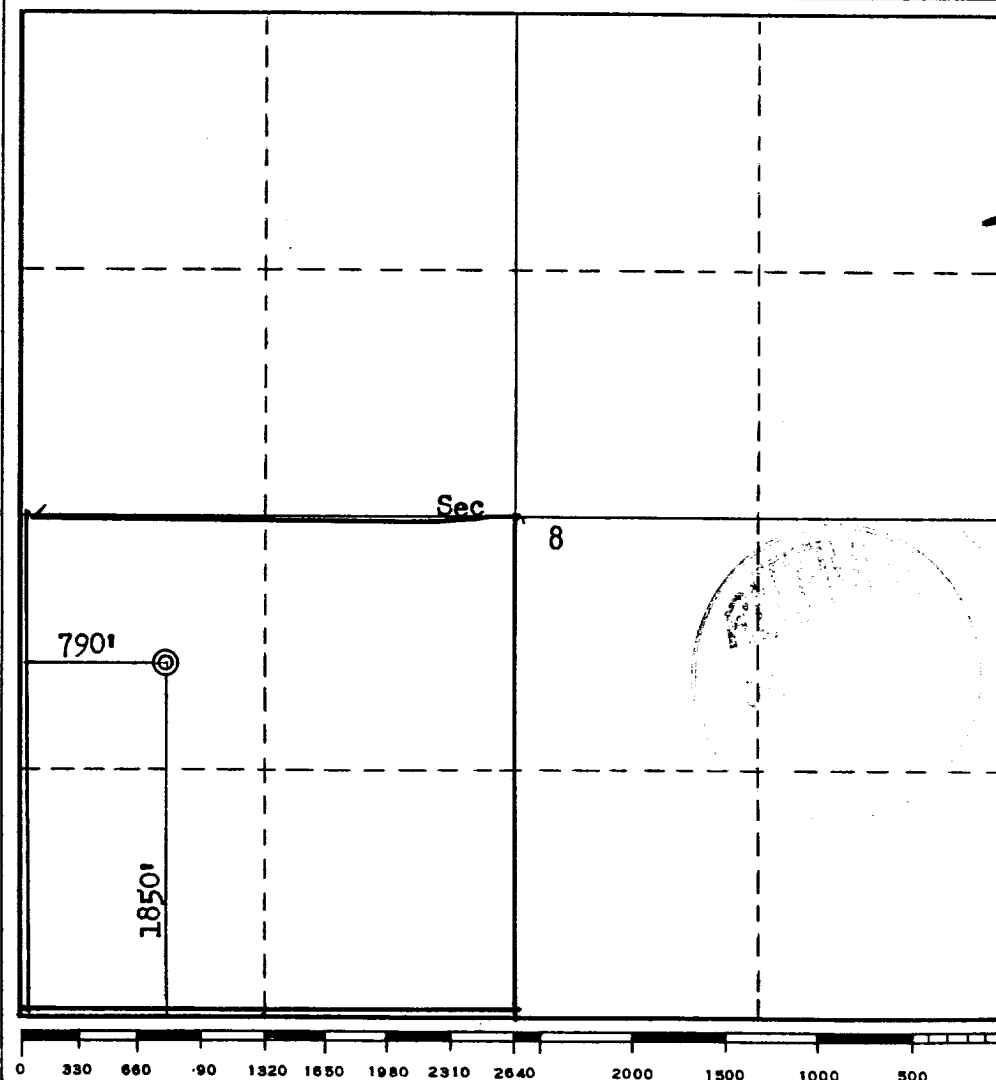
|   |  |                        |                         |                           |  |
|---|--|------------------------|-------------------------|---------------------------|--|
| Operator<br><b>L. C. Energy, Inc.</b>   |  |                        | Lease<br><b>FEDERAL</b> |                           | Well No.<br><b>3</b>                   |
| Unit Letter<br><b>L</b>   | Section<br><b>8</b>                      | Township<br><b>20N</b> | Range<br><b>2W</b>      | County<br><b>Sandoval</b> |  |
| Actual Footage Location of Well:<br><b>1850</b> feet from the <b>South</b> line and <b>790</b> feet from the <b>West</b> line |  |                        |                         |                           |  |
| Ground Level Elev.<br><b>6873</b>   | Producing Formation<br><b>Mesa Verde</b> |                        | Pool<br><b>WILDCAT</b>  |                           | Dedicated Acreage:<br><b>160</b> Acres |

1. Outline the acreage dedicated to the subject well by colored pencil or hachure marks on the plat below.
2. If more than one lease is dedicated to the well, outline each and identify the ownership thereof (both as to working interest and royalty).
3. If more than one lease of different ownership is dedicated to the well, have the interests of all owners been consolidated by communitization, unitization, force-pooling, etc?

☐ Yes ☐ No If answer is "yes," type of consolidation \_\_\_\_\_

If answer is "no," list the owners and tract descriptions which have actually been consolidated. (Use reverse side of this form if necessary.) \_\_\_\_\_

No allowable will be assigned to the well until all interests have been consolidated (by communitization, unitization, forced-pooling, or otherwise) or until a non-standard unit, eliminating such interests, has been approved by the Commission.



**CERTIFICATION**

I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief.

*[Signature]*

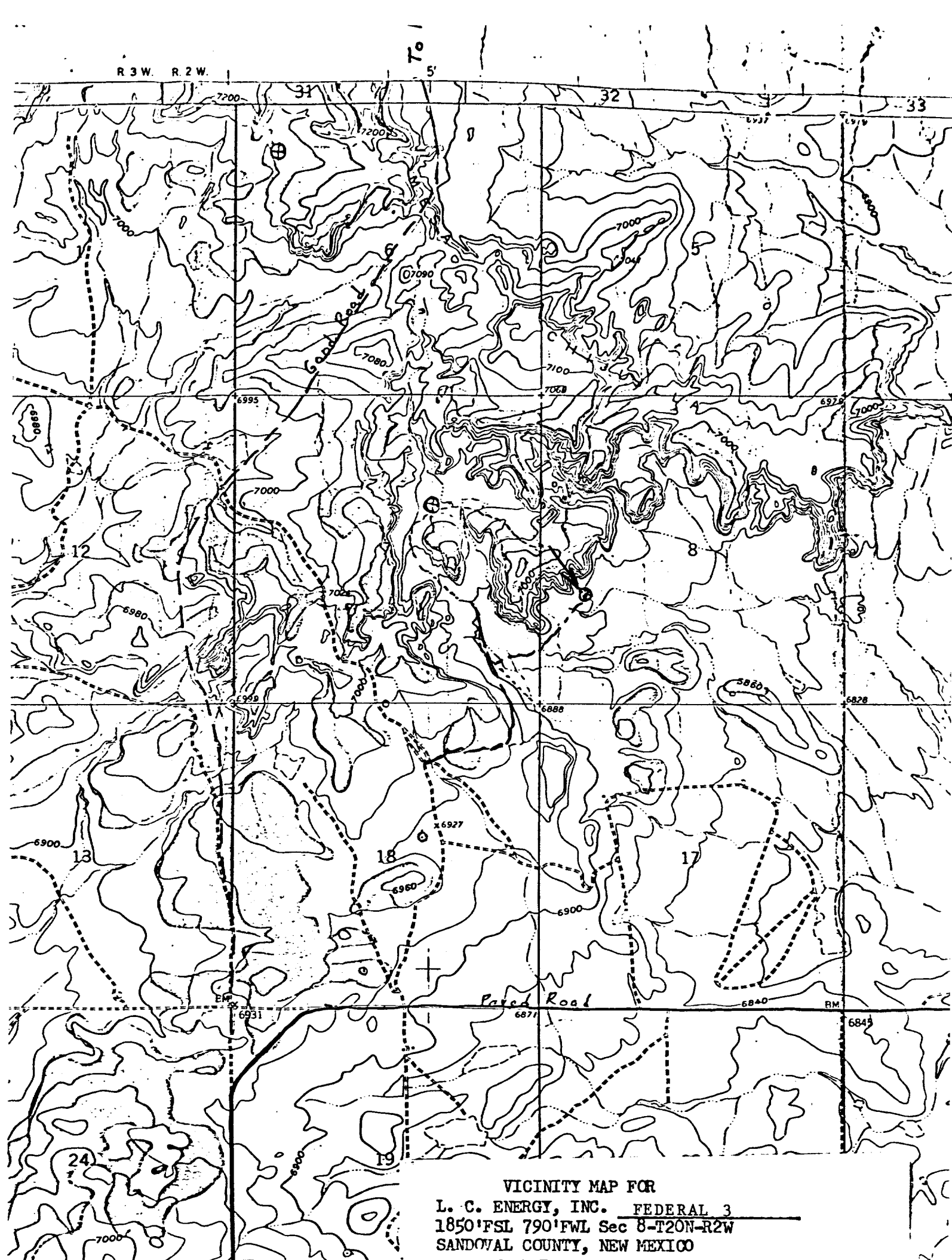
Name  
**EWELL N. WALSH, P.E.**  
Position  
**PRESIDENT**  
Company  
**WALSH ENGR. & PROD. CORP.**  
Date  
**10-7-77**

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 knowledge and belief.

Date Surveyed  
**September 21, 1977**  
Registered Professional Engineer and/or Land Surveyor  
*[Signature]*  
**Fred B. Kerr Jr.**  
Certificate No.  
**3950**

R 3 W. R 2 W.

T 0 1  
5'



VICINITY MAP FOR  
L. C. ENERGY, INC. FEDERAL 3  
1850' FSL 790' FWL Sec 8-T20N-R2W  
SANDOVAL COUNTY, NEW MEXICO

DEVELOPMENT PLAN

L. C. ENERGY  
FEDERAL NO. 3  
1850' FSL, 790' FWL, SECTION 8, T20N, R 2W  
SANDOVAL COUNTY, NEW MEXICO

1. Existing roads shown on attached plat.
2. Planned access from existing road is approximately 100' to new location.
3. Location - SEE ABOVE
4. NO additional well is planned on this lease at this time.
5. Production equipment or storage facilities proposed for the well will be installed on location.
6. Water will be obtained from water source at Johnson Trading Post.
7. Waste materials will be buried on location or in reserve pit.
8. No permanent camp is planned. A trailer house will be used on location during drilling process.
9. No airstrip proposed.
10. See attached plat for layout.
11. Pits will be filled, location cleaned up, and area not in use for producing well will be reseeded.

DEVELOPMENT PLAN

Page 2 of 2

12. Lessee's or operator's representative.

Ewell N. Walsh: 325-8203; Radio Dispatch 325-1873, Car 620.  
Address: P. O. Box 254, Farmington, New Mexico 87401

13. CERTIFICATION:

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access route; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and, that the work associated with the operations proposed herein will be performed by: \_\_\_\_\_

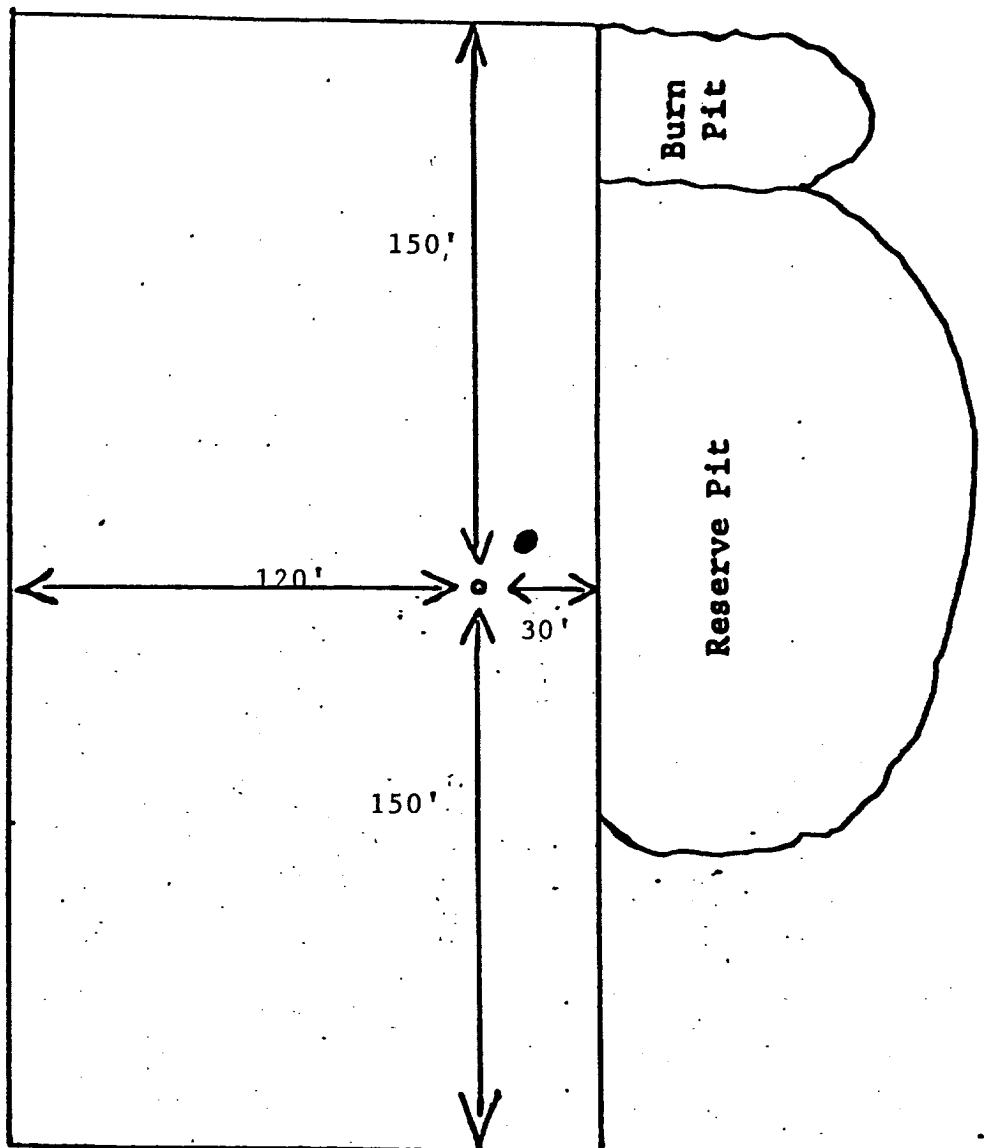
\_\_\_\_\_  
L. C. ENERGY, INC.

and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.



\_\_\_\_\_  
Ewell N. Walsh, P.E., President,  
Walsh Engineering & Production  
Corporation

LOCATION LAYOUT  
L. C. ENGEY  
FEDERAL NO. 3  
1850' FSL, 790' FWL, SECTION 8, T 20N, R2W  
SANDOVAL COUNTY, NEW MEXICO



L. C. ENERGY, INC.  
FEDERAL NO. 3  
1850' FSL, 790' FWL, SECTION 8, T20N, R2W  
SANDOVAL COUNTY, NEW MEXICO

Seven Point Well Control Program

1. Surface Casing.  
See Application for Permit to Drill.
2. Spools and Flanges
  - A. Surface Casing - Schd. Series 600, 2000 psi W.P.
  - B. Production, Schd. Series 600, 2000 psi W.P.
  - C. Tubing Head - Series 600, 2000 psi W.P.
3. Intermediate Casing.  
None
4. Blowout Preventers  
Production Hole - 10" 2000 psi  
Fill, kill and choke manifold - 5000 psi W.P.
5. Addition Equipment (If necessary)
  - A. Kelly Cock
  - B. Bit Float
  - C. Degasser
  - D. Pit Level Indicator
  - E. Sub with Valve for Drill Pipe.
6. Anticipated Bottom Hole Pressure.  
800 psi.
7. Drilling Fluid.  
Air.