

UNITED STATES
DEPARTMENT OF THE INTERIOR
GEOLOGICAL SURVEY

30-039-223889

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1a. TYPE OF WORK DRILL <input checked="" type="checkbox"/> DEEPEN <input type="checkbox"/> PLUG BACK <input type="checkbox"/>			5. LEASE DESIGNATION AND SERIAL NO. SF-080565-A		
b. TYPE OF WELL OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER <input type="checkbox"/> SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>			6. IF INDIAN, ALLOTTEE OR TRIBE NAME		
2. NAME OF OPERATOR CURTIS J. LITTLE			7. UNIT AGREEMENT NAME		
3. ADDRESS OF OPERATOR P. O. Box 2487, Farmington, N.M. 87401			8. FARM OR LEASE NAME Minel		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)* At surface 1100'FSL 875'FWL At proposed prod. zone same			9. WELL NO. #2		
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 13 mi. NW Lindrith			10. FIELD AND POOL, OR WILDCAT Basin Dakota		
15. DISTANCE FROM PROPOSED* LOCATION TO NEAREST PROPERTY OR LEASE LINE, FT. (Also to nearest drlg. unit line, if any) 820			11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA Sec. 6-T25N-R3W		
16. NO. OF ACRES IN LEASE 10.15.18 ? 855.18			12. COUNTY OR PARISH Rio Arriba		
17. NO. OF ACRES ASSIGNED TO THIS WELL 339175 W 339.75			13. STATE N.M.		
18. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 1300' (P.C.)			19. PROPOSED DEPTH 8375		
20. ROTARY OR CABLE TOOLS Rotary			21. ELEVATIONS (Show whether DF, RT, GR, etc.) 7404		
22. APPROX. DATE WORK WILL START* August 1, 1980					

23. PROPOSED CASING AND CEMENTING PROGRAM

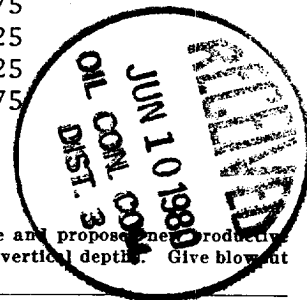
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
12-1/4	10-3/4	40.5	200'	200 SX
9-3/4	7-5/8	26.4	6275'	400 SX COVER OJO ALAMO
6-1/4	4-1/2	11.6	6175-8375	300 SX

Propose to drill with rotary and set intermediate csg with 2 stage cement with stage-collar at base of the Pictured Cliffs Formation. Gas drilling is proposed to base of Dakota formation where 4-1/2" liner to be set. Mesaverde and Dakota will be completed if productive. Gas from this well is committed.

Estimated formation tops:

Ojo Alamo	2075	Point Lookout	6075
Fruitland	3775	Gallup	7075
Pictured Cliffs	3875	Greenhorn	8025
Lewis	3925	Dakota	8125
Cliff House	5575	T.D.	8375

RECEIVED
MAY 11 1980
U. S. GEOLOGICAL SURVEY
FARMINGTON, N. M.



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

24.

SIGNED Curtis J. Little TITLE Operator DATE May 12, 1980

(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

NMOC

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

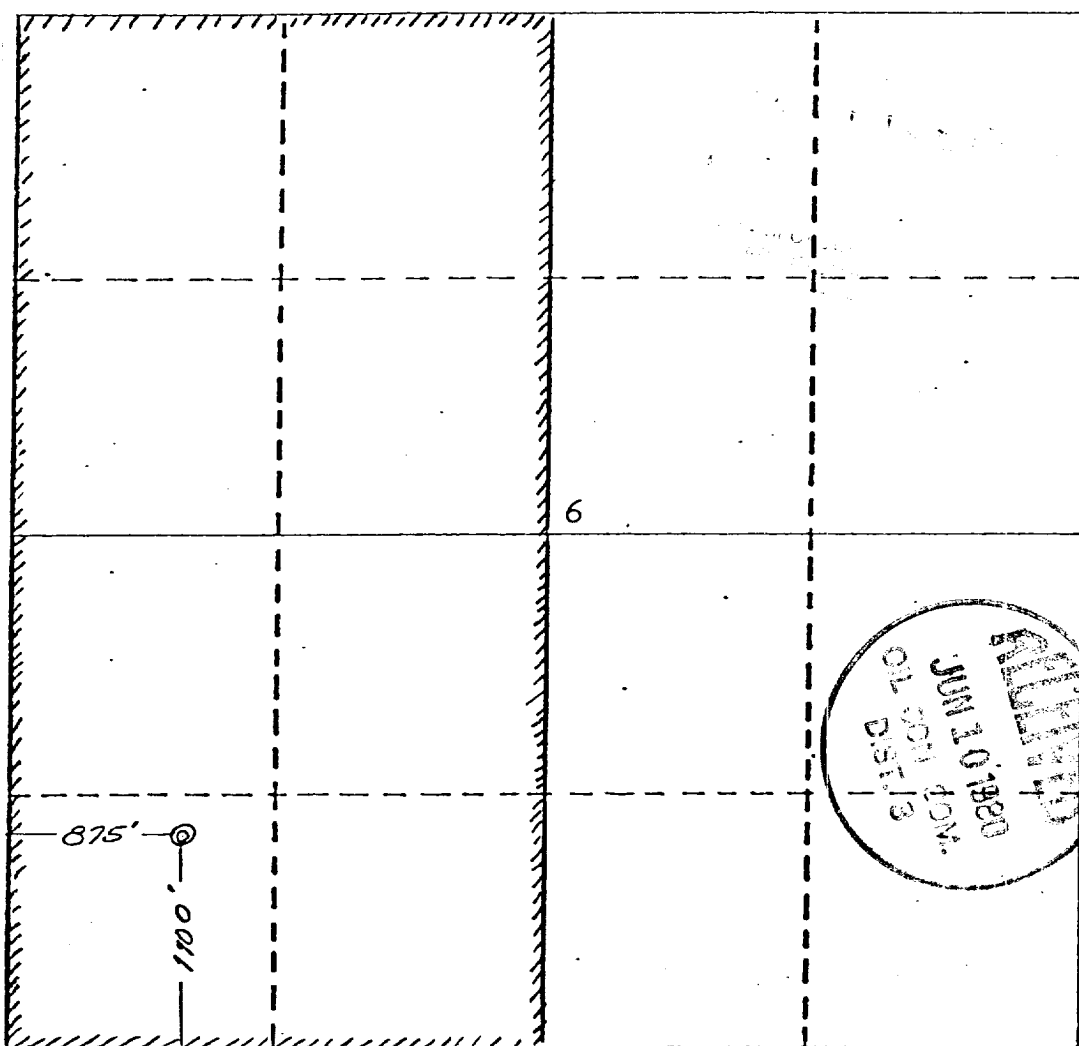
Operator CURTIS LITTLE		Lease Minel		Well No. #2	
Unit Letter D	Section 6	Township 25 NORTH	Range 3 WEST	County RIO ARriba	
Actual Footage Location of Well: 1100 feet from the SOUTH line and 875 feet from the WEST line					
Ground Level Elev. 7404	Producing Formation Dakota	Pool Basin Dakota	Dedicated Acreage 340 W 339.75 Acres		

1. Outline the acreage dedicated to the subject well by colored pencil or hatchure 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 Division.



CERTIFICATION

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

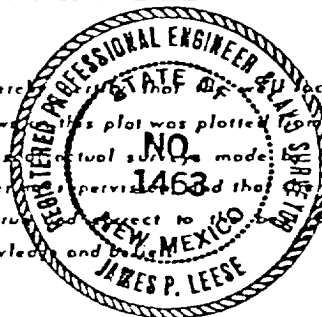
Name **CURTIS J. LITTLE**

Position **OPERATOR**

Company **CURTIS J. LITTLE**

Date **May 13, 1980**

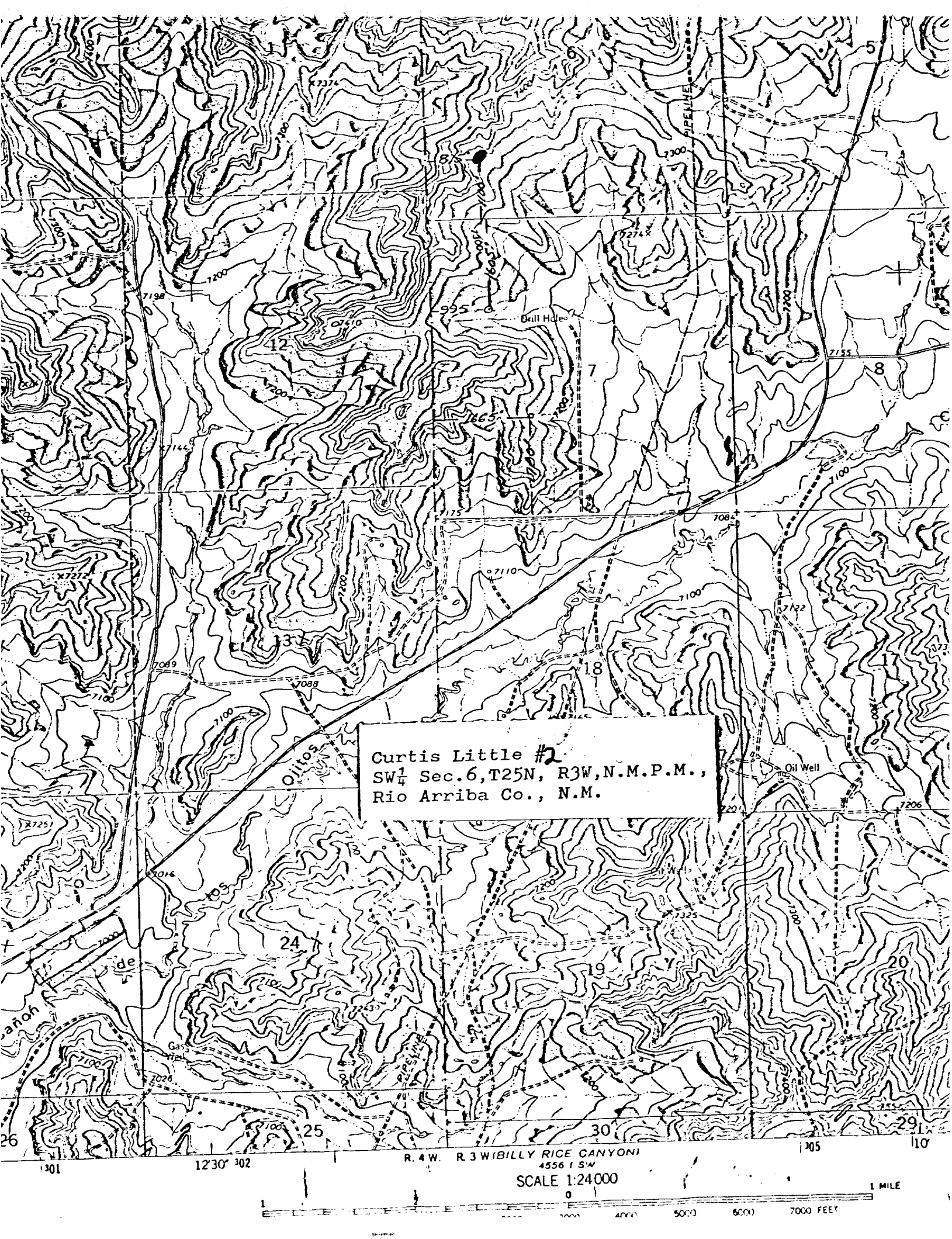
I hereby certify that this plat was plotted from field notes, actual survey made, or under supervision of a registered professional engineer and that the same is true and correct to the best of my knowledge and belief.



Date Surveyed **April 16, 1980**

Registered Professional Engineer and/or Land Surveyor
James P. Leese

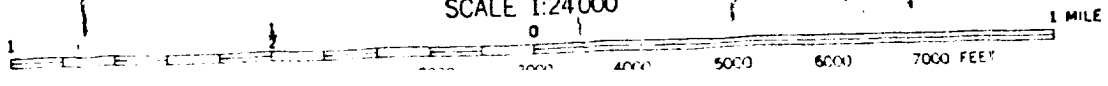
Certificate No.
1463



Curtis Little #2
SW $\frac{1}{4}$ Sec. 6, T25N, R3W, N.M.P.M.,
Rio Arriba Co., N.M.

R. 4 W. R. 3 W. BILLY RICE CANYON
4556 1 S.W.

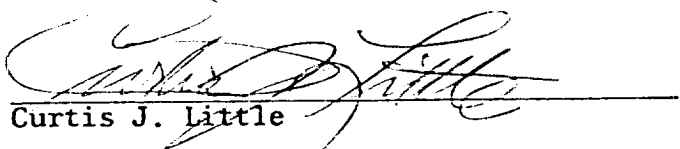
SCALE 1:24000



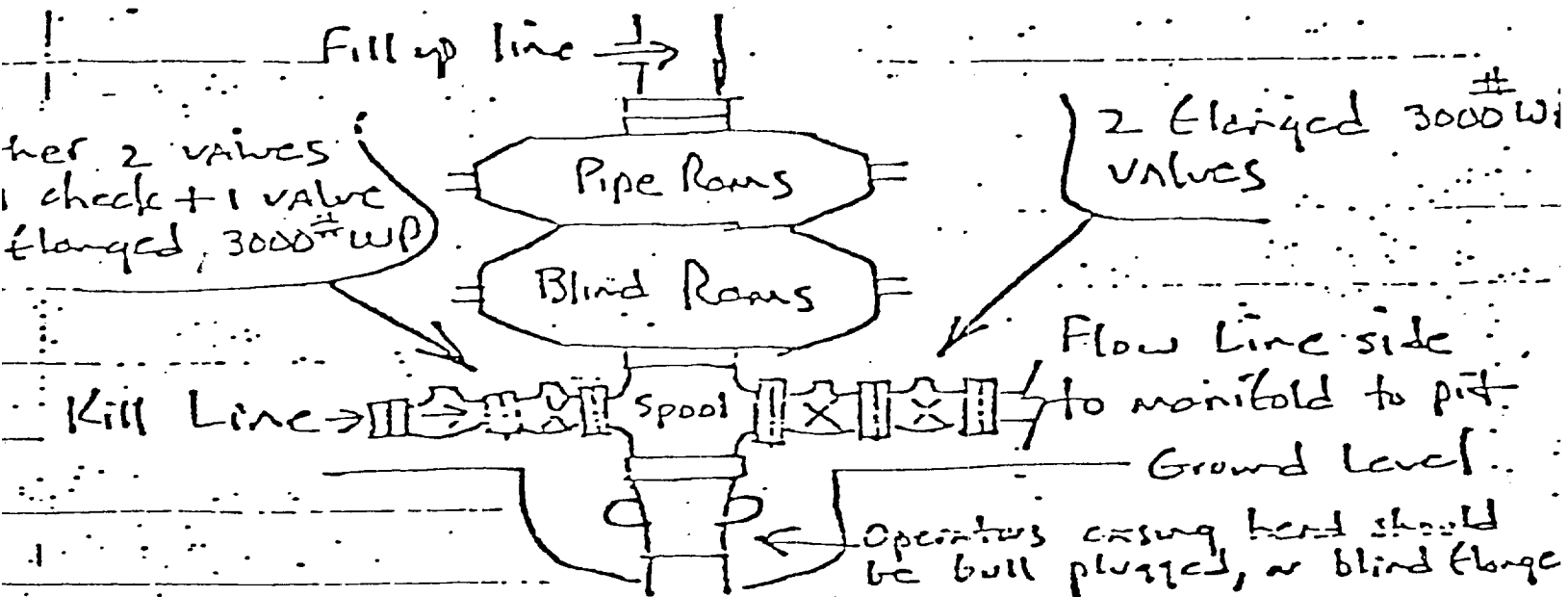
WELL CONTROL PLAN

CURTIS J. LITTLE
No. 2 Minel
1100' FSL 875' FWL
SW SW Sec. 6 T-25-N R-3-W
Rio Arriba County, New Mexico

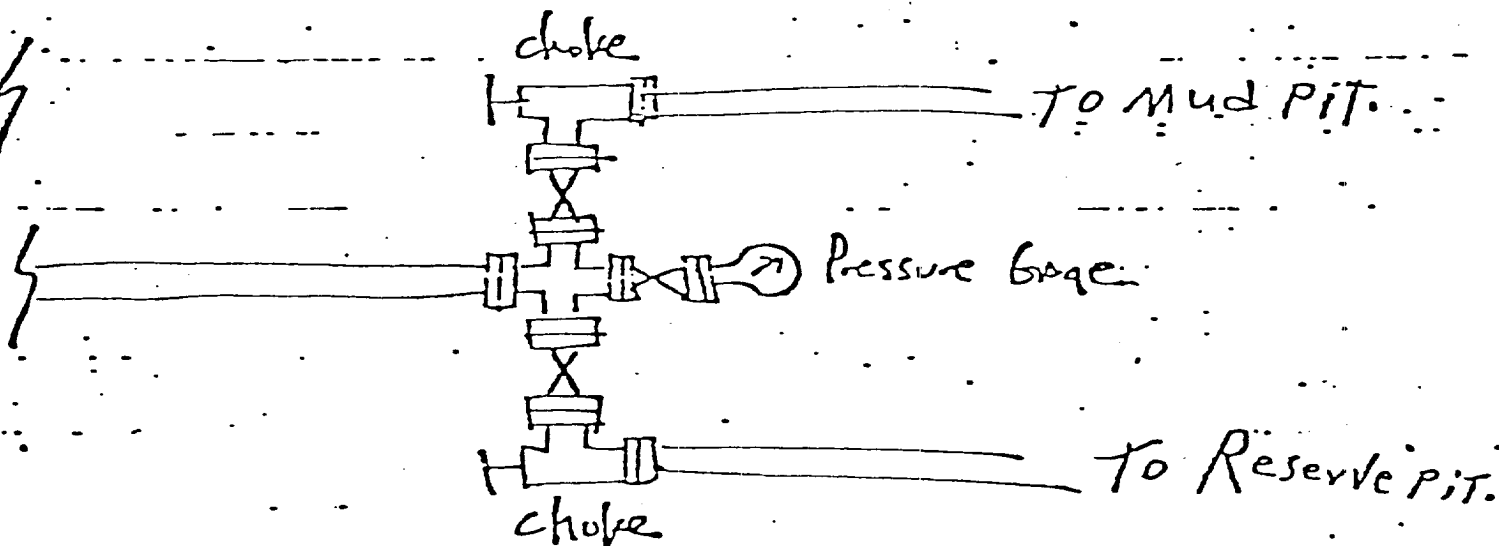
1. Surface Casing: 10-3/4" 40.5#/ft. set at 200' and cemented with pump and plug method back to surface.
2. Casinghead Flange: 10-3/4" series 900, 3000 psi WP equivalent casinghead with two 2" 1500 psi L.P. outlets.
3. Blowout Preventor: a 10" 3000 psig W.P. double gate hydraulic Shaffer BOP (or equivalent) with drill pipe rams and blind rams. All fill, kill and choke lines will be minimum of 2" 2000 psi working pressure. The rams will be closed daily and checked for proper operation.
4. Auxillary Equipment: a) Drill pipe floats will be allowed at contractor's discretion; b) Visual and manual monitoring of mud system will be maintained.
5. Anticipated bottom hole pressure is less than 3200 psi at 8250'. Gradient of .277 psi/ft. 9.2 lb. mud program gives 3940 psi hydrostatic head.
6. Well will be drilled with water base mud system with 9.0-9.4 ppg weight 35-45 seconds viscosity to T.D.


Curtis J. Little

BLOWOUT PREVENTOR EQUIPMENT



Detail Flow Line Side (manifold)
(All Gittings flanged & WP at 3000[#])



PLAN OF DEVELOPMENT

CURTIS J. LITTLE
No. 2 Minel
1100' FSL 875' FWL
SW SW Sec. 6 T-25-N R-3-W
Rio Arriba County, New Mexico

1. Existing Roads (see enclosed topo map).
2. Planned access road: will use existing access road approximately 10' in width constructed to prevent erosion (see proposed road on topo map).
3. Location of tank battery and production facilities: if this well is productive, it would be gas; therefore, the facilities would be the wellhead, tanks for produced water and condensate, if any, separator and gas line to the well. The tanks and separator would be set within 150' of the well and on location and the gas line would run adjacent and parallel to road.
5. Location and type of water supply: Water will be hauled by truck from private water supply in the area.
6. Source of construction materials: all construction material such as gravel, sand, timbers, etc. will be purchased and hauled to the location. No water, sand or gravel will be used from this land.
7. Methods for handling waste disposal:
 - 1) Cuttings will be buried 3' below the surface.
 - 2) Drilling fluids will be left in a fenced, open pit to evaporate.
 - 3) Produced oil or condensate (if any) will be stored in a tank.
 - 4) Portable toilet to be provided.
 - 5) Trash will be burned in burn pit.
 - 6) After pit area is sufficiently dry, cuttings will be pushed into pit and sub-soil will be placed on any remaining fluid and cuttings, then top soil, if any, will be placed over both pit and location area.
8. Ancillary facilities: No camps or airstrips will be used.
9. Wellsite layout: Top soil, if any, will be stockpiled and reused. Pits will not be lined.
10. Plans for restoration of surface: upon completion of well, all pits will be backfilled and top soil replaced and recontoured back to the original terrain. Pits will be backfilled as soon as they evaporate enough to permit such work. To protect livestock or wild game, pits will be fenced, and maintained until

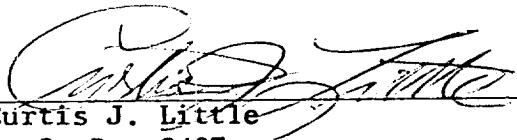
clean-up operations are commenced. Should oil accumulate on the pit, it will be removed and buried 6' deep or overhead flagging will be employed to protect wildlife.

11. Other information:

- 1) Topography - drill site and access low valley profile.
- 2) Vegetation - sparse grass and sagebrush with moderate growth of pinon trees.
- 3) Land use - land is used for grazing with no reservoir or water on this site.
There are no known archeological, cultural, or historical sites on the site.

12. Lessee's or Operator's representative: CURTIS J. LITTLE Home: 327-6673
Offc: 327-6176

13. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access rout; 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 Four Corners Drilling Company and its contractors and sub-contractors in conformity with this plan and the terms and conditions under which it is proposed.


Curtis J. Little
P. O. Box 2487
Farmington, New Mexico 87401

FOUR CORNERS DRILLING CO.

P. O. BOX 1067
702 E. BROADWAY
FARMINGTON, NEW MEXICO 87401

TELEPHONE: (505) 327-1122

