SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

36-639-22597
5. LEASE DESIGNATION AND SERIAL NO.
SF 078892
6. IF INDIAN, ALLOTTEE OR TRIBE NAME
7. UNIT AGREEMENT NAME

GEOLOGICAL SURVEY				SF 078892				
APPLICATION	FOR PERMIT	O DRILL, D	EEPEN,	OR P	LUG BA	.CK	G. IF INDIAN, ALLOTTEE	OR TRIBE NAME
1a. TYPE OF WORK	L 🗵	DEEPEN [UG BACK		7. UNIT AGREEMENT NA Rosa Unit:	ME
DIL GAS WELL GAS			SINGLE ZONE	K)	MULTIPLE ZONE		8. FARM OR LEASE NAM	E
2. NAME OF OPERATOR							9. WELL NO.	
Mitchell Ener	gy Corp. (303)	861-2226					J	
3. ADDRESS OF OPERATOR							83	
3200 Amoco Bl	dg., 1670 Broa	dway, Denve	r, Colc	rado	80202		10. FIELD AND POOL, OF	R WILDCAT
4 region of werr (Po	port location clearly and	in accordance wit	h any State	requireme	uts.*)		Basin Dakota	
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface 790' FNL 1730'FWL Sec-15, T-31N, R-4W						11. SEC., T., R., M., OR B		
At proposed prod. zone Dakota Formation					Sec15,T-31N			
14 DISTANCE IN MILES A	ND DIRECTION FROM NEA	REST TOWN OR POST	OFFICE.				12. COUNTY OR PARISH	13. STATE
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE* 61 Mi. Northeast of Blanco, New Mexico					Rio Arriba	N.M.		
				OF ACRES ASSIGNED HIS WELL				
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any) 790 FNL 1920				W/320				
18 DISTANCE FROM PROPOSED LOCATION® 19. PROPOSED DEPTH 20. ROTA				RY OR CABLE TOULS				
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. None 8350				Rotary				
21. ELEVATIONS (Show whether DF, RT, GR, etc.)					22. APPROX. DATE WO	BK WILL START*		
6655' GR.				January 15	, 1981			
23.		PROPOSED CASI	NG AND CI	EMENTIN	G PROGRAM	Ī		
	SIZE OF CASING	WEIGHT PER F	WEIGHT PER FOOT SETTING DEPTH				QUANTITY OF CEMENT	
14 3/4 "	10 3/4"	WBIGHTIZHTOOF			Ceme	ment to Surface		

Operator expects to drill to a depth sufficient to test the Dakota for gas. If productive, 4 1/2" casing will be run and set at 8350'. If non-productive, well will be abandoned in a manner consistent with Federal Regulations. Any zones above Dakota will be tested for productivity prior to abandonment.

26#

11.6#

Exhibits Attached:

14 3/4

9 1/2"

6 1/8"

Ten Point Compliance Program Multipoint Requirements for APD

4 1/2"

#1 Blowout Preventor Schematic

#2 Location and Elevation Plat

#3 Access Road

#4 Access Road

#5 Radius Map

#6 Production Facilities

DENILLING OPERATIONS AUTHORIZED ARE SUPPLEOF TO FOLK PLIANCE WITH ATTACHED "GENERAL DEGALARMENTS"

0-4000

3600-8350

#7 Cut and Fill Cross Section

#8 Drilling Rig Layout

#9 Letter of Agent

in is subject to administrative 30 CFR 290.

osal is to deepen or plug back, give data on present productive one dad po give pertinent data on subsurface locations and measured and tries certical roductive IN ABOVE SPACE DESCRIBE PROPOSED PROGRAM: If proposal is to deepen or plug back, give data on pursent produ

400 SX in 2 Stages

Approx. 385 SX

preventer program, if any.	printer data of the same of th	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \
Myn? Stufinh	TITLE District Prod. Mngr.	PATE 11/4/80
(This space for Federal of State officially)	APPROVAL DATE	
APPROVED BY CONDITIONS OF APPROVAL, ILLEGY: LAMPAS	TITLE	DATE
TODISTRICT ENGINEER	1. 30 ps (1. 1)	
1 5 *Se	ee Instructions On Reverse Side	

Will Cloy for Same

P. O. BOX 2088

STATE OF NEW MEXICO TIERGY AID MINERALS DEPARTMENT

SANTA FE, NEW MEXICO 87501

Form C-107 vised 10-1

All distances must be from the cuter houndaries of the Section.

Well No. Operator 83 ROSA UNIT MITCHELL FNERGY CORPORATION County Unit Letter Section Township Rio Arriba 15 31N ΓM Actual Footage Location of Wells 1730 West 790 North feet from the feet from the Dedicated Acresses Producing Formation Ground Level Elev: Acres 6655 Dakota 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? If answer is "yes," type of consolidation ☐ No Yes 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 contoined herein is true and complete to the best of my knowledge and belief. 1730 <u>Area Prod.</u> Company Mitchell Energy Corp. Date Sec. 1/20/83 I hereby certify that the well loc whown on this plat was plating and 15 OIL CO Scale: 1"=1000" Exhabit #2

Ten-Point Compliance Program

of NTL-6 Approval of Operations

Attached to form 9-331C Mitchell Energy Corporation Rosa Unit #83-15-31-4 NE NW Sec.-15,T-31N,R-4W 790' FNL & 1730' FWL Rio Arriba, County

1. Geological Name of Surface Formations

The Surface formation is Tertiary Rock

2. Estimated Tops of Important Geological Markers

Surface
3360'
3460'
5385'
6285'
6635'
7955'
8155'
8350 '

3. Estimated Depths of Anticipated Water, Oil Gas or Minerals

Surface to Top Pictured Cliffs	3360'	Water
Lewis Shale	3460'	Gas
Mesa Verde	5385'	Gas
Mancos	62 85	Gas
Gallop	6635'	Gas
Greenhorn	7955'	Gas
Dakota	8155'	Gas

If any water zones are encountered, they will be adequately protected and reported.

4. Casing Program

Hole Size	Interval	Section Length	Size (OD)	Wgt., Grade and Joint	Condition
14 3/4" 9 1/2"	0-350' 0-4000'	350' 4000'	10 3/4"	32.75# K-55,ST&C 26# K-55,ST&C	New
6 1/8"	3600-8350 '	4750 '	4 1/2"	11.6# K-55,ST&C	New

Mitchell Energy Corporation Rosa Unit #83-15-31-4 Page 2.

5. Minimum Specifications for Pressure Control

The blowout preventor equipment will be a 10" - 900 Series. The BOP's will be hydraulically tested to 2000 psi for 30 minutes prior to drilling below surface casing and after any use under pressure. Pipe rams will be operationally checked each 24-hour period, as will blind rams each time pipe is pulled out of the hole. At least one kill line (2") will be installed below BOP rams. Such checks of BOP will be noted on daily drilling reports.

Accessories to BOP will include a kelly cock, floor safety valve, drill string BOP and choke manifold with pressure rating equivalent to the BOP stack.

6. Type and Characteristics of the Proposed Circulating Fluids

A. Surface and intermediate hole (0-4000') - Fresh water gel system with the following properties:

Weight #/gal.	Viscosity	Water Loss
9-10	35-40	10cc.

B. From under Intermediate (4000'-TD) - Drill with air

7. The Auxiliary Equipment to be Used

- A. A kelly cock will be kept in the string.
- B. A float will be used if lost circulation conditions do not exist.
- C. Visual monitoring of mud tank levels will be required. No special equipment will be used to monitor mud system.
- D. A full opening stabbing valve with drill pipe thread will be on the floor to be stabbed into the drill pipe when kelly is not in the string.

8. The Testing, Logging and Coring Programs to be Followed

- A. Tests will be run based on good shows on recommendations of the Geologist
- B. The logging program will consist of a Dual Induction-Laterolog from surface to total depth, Gamma-Ray Compensated Neutron-Formation Density from 4000' to total depth.
- C. No coring is anticipated.
- D. Stimulation procedures will be determined after evaluation of logs and well testing If treatment is indicated, appropriate Sundry Notice will be submitted.

Mitchell Energy Corporation Rosa Unit #83-15-31-4 Page 3.

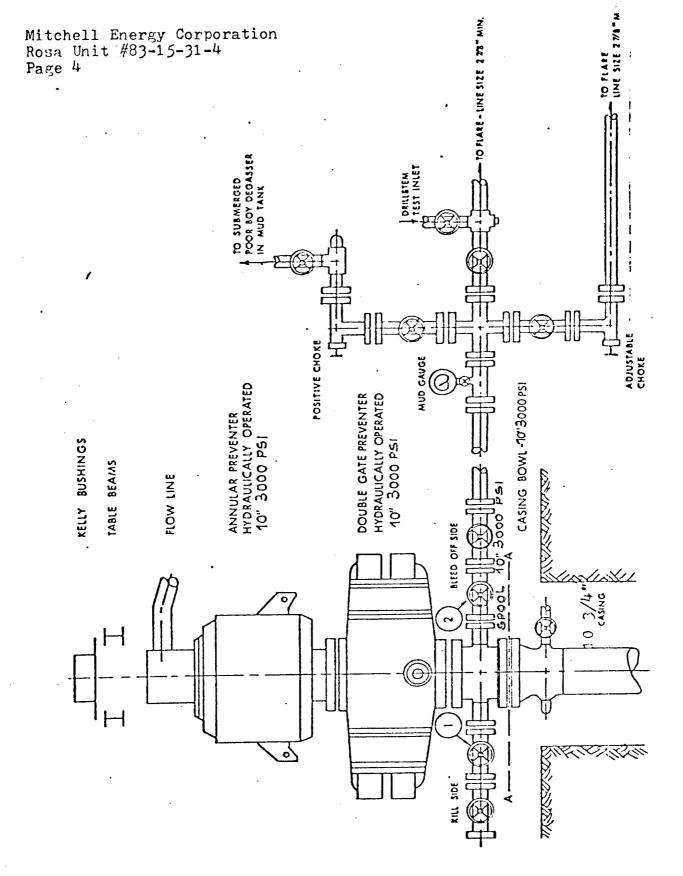
9. Any Anticipated Abnormal Pressures or Temperatures

No abnormal pressures or temperatures have been noted or reported in wells drilled in the area nor at the depths anticipated in this well. Bottom hole pressure expected is 2400 psi. Bottom hole temperature at TD is $200^{\circ}F$.

No hydrogen sulfide or other hazardous fluids or gases have been found, reported or known to exist at these depths in the area.

10. Anticipated Starting Date and Duration of the Operations

The anticipated starting date is set for January 15, 1981 or as soon as possible after examination and approval of drilling requirements. Operations should be completed within 14 days after spudding the well and drilling to casing point.



PRESSURE CONTROL EQUIPMENT

Exhibit # 1

Multi-Point Requirements to Accompany A.P.D.

Attached to form 9-331C Mitchell Energy Corporation Rosa Unit # 83-15-31-4 NE NW Sec.-15,T-31N,R-4W 790' FNL & 1730' FWL Rio Arriba, County

1. Existing Roads

- A. Proposed well site: See location and elevation Plat Exhibit 2 and Access Road Exhibits 3 & 4.
- B. From Blanco, New Mexico proceed East on Highway 64 some 40 miles to road 310 (improved dirt at mile marker 63 on Highway 64). Go north on 310 some 18.7 miles to Bancos Canyon Road. Proceed west on Bancos Canyon Road 1.9 miles to flagged access to be constructed to well site.
- C. All roads to location are color coded on Exhibits 3 & 4. The new access road is traced in black, existing roads are traced in red.
- D. Not applicable
- E. Existing roads within a 1 mile radius of well site are shown on Exhibit 4.
- F. The Bancos Canyon Road has been reopened to allow access to well site and routine grading will be conducted to maintain condition during drilling operation and thereafter if well proves productive. A gate with lock has been installed at the entrance to this road at the request of the Forest Services to prevent unauthorized use. The new access road from the Bancos Canyon Road to the well site will be constructed as per item 2 below.

2. Planned Access Roads

Map showing all necessary access roads to be constructed is shown as Exhibit 4 for the following:

- A. The maximum width of the running surface of the 50' of access road, extending beyond the existing dirt trail will be 16'.
- B. The grade will be 1% .
- C. No turn outs are planned.
- D. Drainage design will be consistent with local drainage patterns. Only flat grading with minor ditching will be necessary for drainage.
- E. No culverts are needed. No major cuts or fills are anticipated along access road during drilling operation.
- F. Surfacing materials will be native soil.
- G. No gates, cattle guards, or fence cuts are needed.
- H. The new access road to be constructed was staked and centerline flagged,

Mitchell Energy Corporation Rosa Unit #83-15-31-4 Page 2.

3. Location of Existing Wells

For all existing wells within a one mile radius of Development well, see Exhibit 5.

- A. There are no water wells within a 1 mile radius of this location.
- B. There are no abandoned wells within a 1 mile radius.
- C. There are no temporarily abandoned wells.
- D. There are no disposal wells.
- E. There are no wells presently being drilled.
- F. There are no producing wells.
- G. There are no shut-in wells.
- H. There are no injection wells.
- I. There are no monitoring or observation wells for other uses.

4. Location of Existing and/or Proposed Facilities

- A. Within a one mile radius of location the following existing facilities are owned or controlled by lessee/operator:
 - (1) Tank Batteries: None
 - (2) Production Facilities: None
 - (3) Oil Gathering Lines: None
 - (4) Gas Gathering Lines: None
 - (5) Injection Lines: None
 - (6) Disposal Lines: None
- B. If the well is productive, new facilities will be as follows:
 - (1) Production facilities will be located on solid ground of drill pad, as shown on Exhibit 6.
 - (2) The facilities will be approximately 200' by 150' (see Exhibit 6).
 - (3) The tank battery will be constructed using a bulldozer to level the site, backhoes to dig trenches and bury lines, and pole trucks, floats and roustabout crews to maneuver and set facility equipment. Construction material will consist of surface soil. No additional material from outside sources is anticipated.

Mitchell Energy Corporation Rosa Unit #83-15-31-4 Page 3.

- (4) In order to protect livestock and wildlife, pits will be fenced and flagged.
- C. Rehabilitation, whether well is productive or dry, will be made on all unused areas in accordance with U. S. Forest Service stipulations.

5. Location and Type of Water Supply

- A. The source of water supply is expected to be a water hole located in the Ne % of the NE% of Sec.-7 Twp-31N Rng.-4W (Exhibit 3). If this proves unfeasible the nearest and most accessible water source will be used.
- B. Water will be transported by truck over existing roadways.
- C. No water well is to be drilled on this lease.

6. Construction Materials

- A. No construction materials are needed for drilling well or constructing access roads into the drilling location unless well is productive. The surface soil materials will be sufficient or will be purchased from Dirt Contractor as needed.
- B. No construction materials will be taken off Federal land.
- C. All surface soil materials for construction of access roads are sufficient.
- D. All major acess roads presently exist as shown on Exhibits 3 & 4.

7. Handling of Waste Materials and Disposal

- A. Cuttings not retained for evaluation purposes will be dumped into the reserve pit.
- B. Driling fluids will be handled in the reserve pit.
- C. Produced water will be dumped to the reserve pit. Produced oil will either be collected in tanks or dumped to the reserve pit, depending on volume and occurence. If the volume of oil is sufficient, it will be trucked from the location.
- D. A portable toilet will be provided for human waste.
- E. Garbage and other waste a trash/burn pit will be constructed and fenced with woven wire, at the commencement of operations, to prevent wind scattering trash before being burned or buried.

Mitchell Energy Corporation Rosa Unit #83-15-31-4 Page 4.

F. All pits will be filled and the well site will be leveled and reseeded, as per Forest Service specifications, when pits are dry enough to fill and weather permits. Only that part of the pad required for producing facilities will be kept in use. In the event of a dry hole, only a dry hole marker will remain.

8. Ancillary Facilities

None

9. Well Site Layout

- A. Drill pad cross sections: see Exhibit # 7.
- B. Drilling equipment location: see Exhibit # 8.
- C. Rig orientation: see Exhibit # 8.
- D. Reserve pit will not be lined.

10. Plans for Restoration

- A. Upon completion of operations and if the well is to be abandoned, the location will be backfilled, leveled and contoured to as nearly the original topography as is feasible as soon as the pits have dried. Waste pits will be backfilled. The location will be reseeded as per Forest Service recommendations.

 All spoils materials will be segregated according to combustibility and burned or buried.
- B. Revegetation will be achieved by seeding with a seed mixture recommended by the Forest Service. Access roads built by Mitchell Energy Corporation will be rehabilitated in the same manner as the location, if the well is to be abandoned.
- C. Three sides of the reserve pit will be fenced during drilling operations. Prior to rig release, the reserve pit will be fenced on the fourth side to prevent livestock or wildlife from becoming entrapped; and the fencing will be maintained until leveling and clean-up are accomplished.
- D. If any oil is on the pits and is not immediately removed after operations cease, the pit containing the oil or other adverse substances will be flagged and fenced. Other clean-up will be done as needed. Planting and revegetation is considered best in Spring 1981, unless requested otherwise.

11. Other Information

- A. The soil is sandy clay loam. The location sits in rolling, hilly canyon bottom with alluvial surface deposits, and sandstone outcrops. The vegetation is sagebrush, rabbitbrush and juniper.
- B. The primary surface use is for grazing. The surface is owned by the U. S. Government.
- C. (1) The closest live water is Bancos Canyon Wash as shown on Exhibit 4.
 Water flow in the wash is intermittant and during runoff only.
 - (2) The closest occupied Dwelling is the Bixler Ranch located approximately 1 1/2 miles north of Highway 64 on Road 310.
 - (3) There are no known archaeological, historical, or cultural heritages that will be disturbed by this drilling.
- D. There are no reported restrictions or reservations noted on the oil and gas lease.
- E. Drilling is planned for on or about January 15, 1981, that the casing point will be reached within 14 days after commencement of drilling.

12. Lessee's and Operator's Representative

S. J. Pagano
Agent for Mitchell Energy Corp.
7892 So. Garfield Way
Littleton, Colorado 80122

(303) 771-9799

Mr. S. J. Pagano

Mitchell Energy Corporation 3200 Amoco Building 1670 Broadway Denver, Colorado 80202

(303) 861-2226

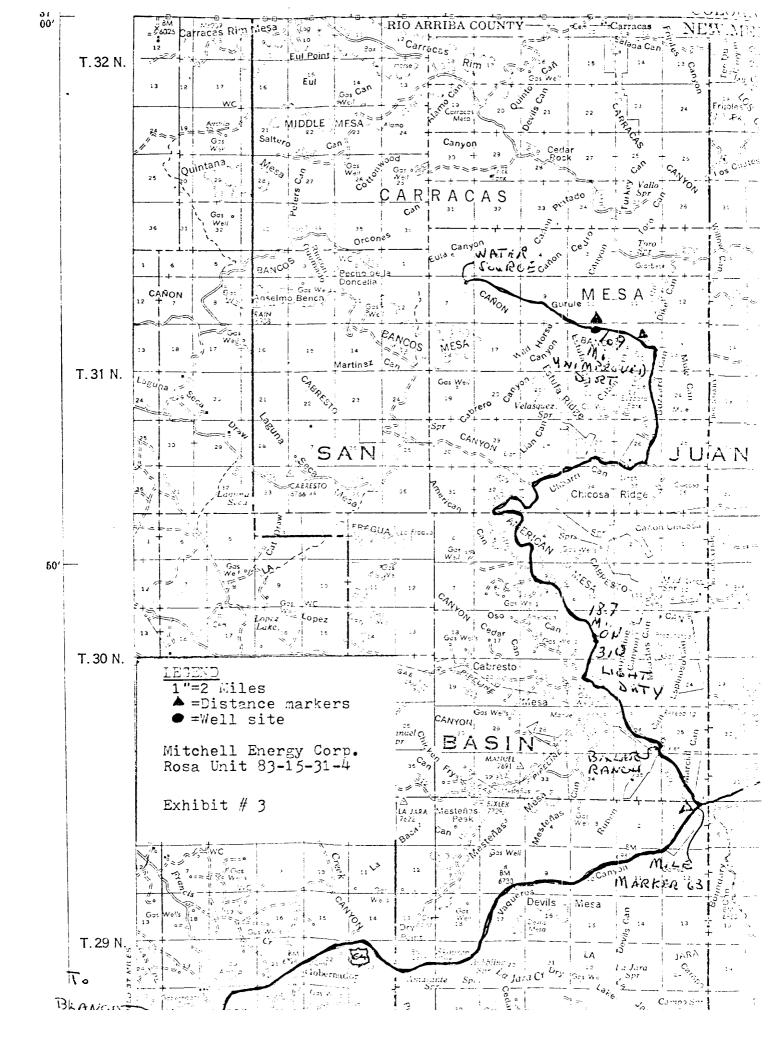
Mr. Brad Fischer

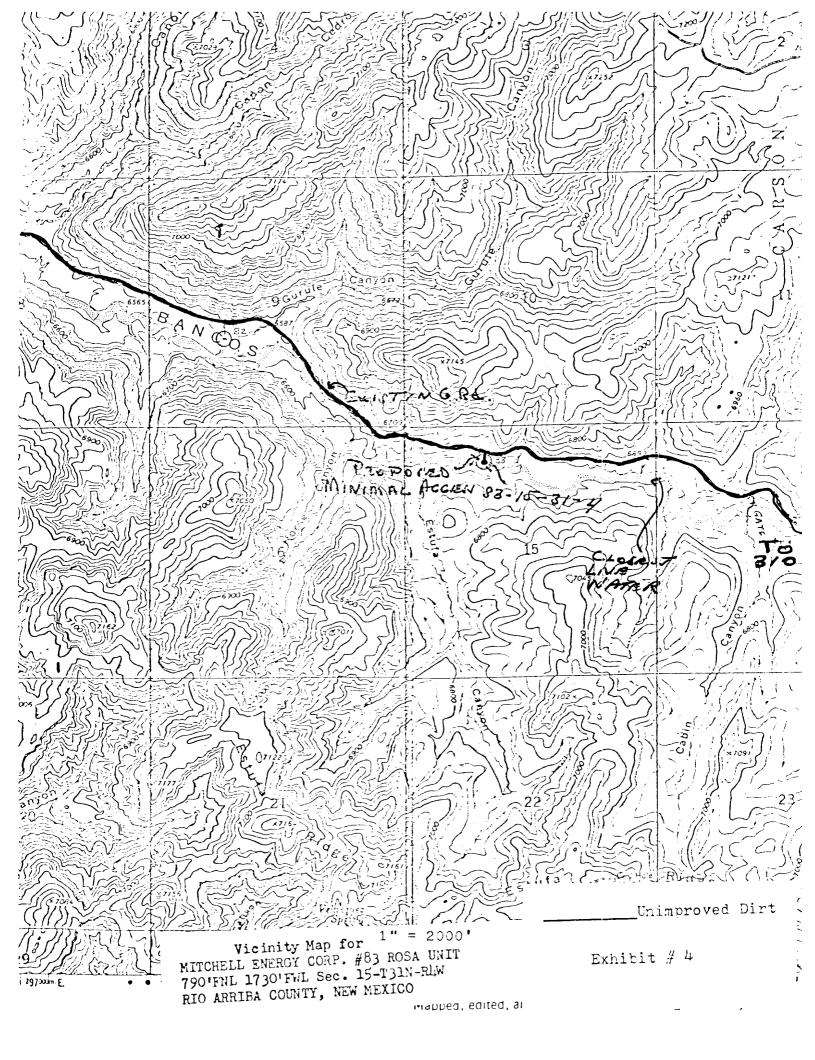
13. Certification

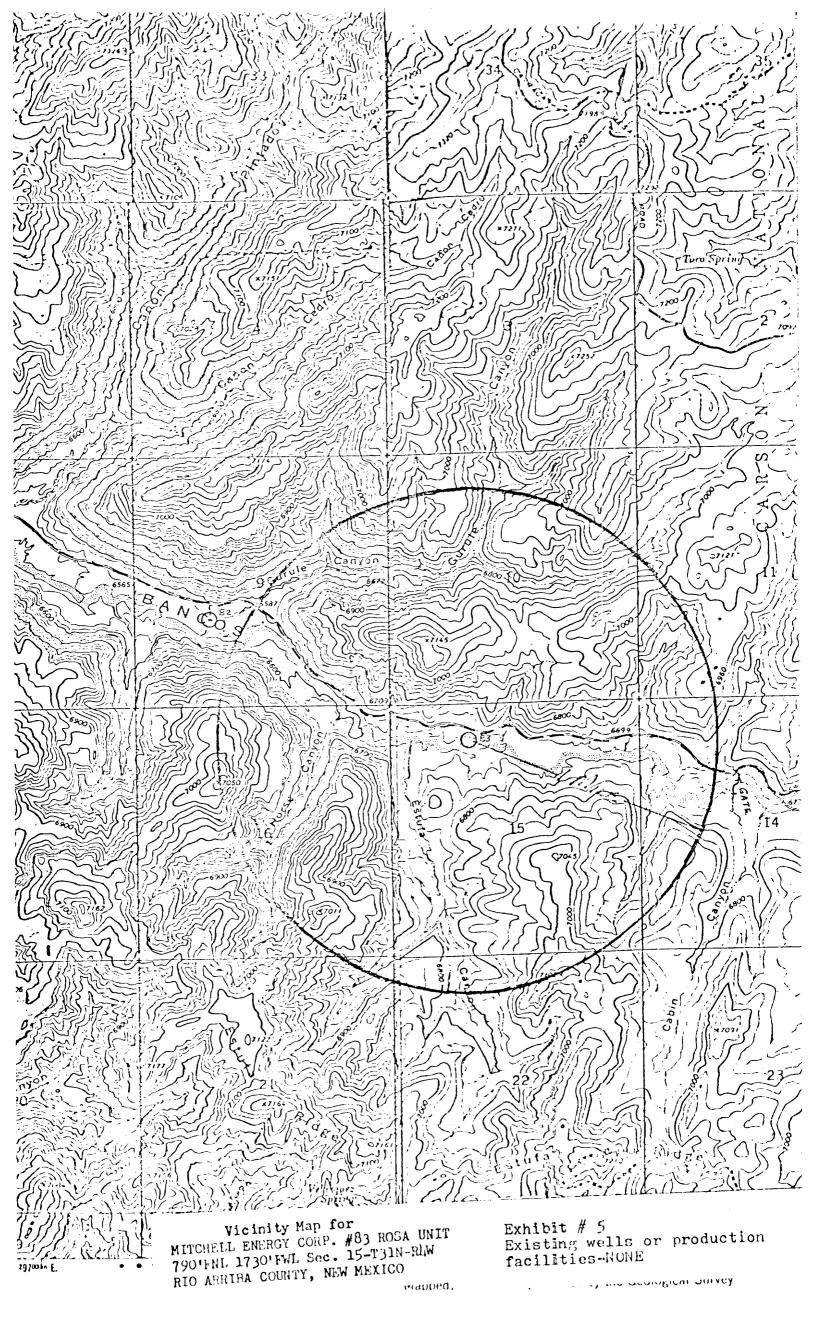
I hereby certify that I, or persons under my direct supervision, have inspected the proposed drillsite and access road; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed by Mitchell Energy Corporation and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

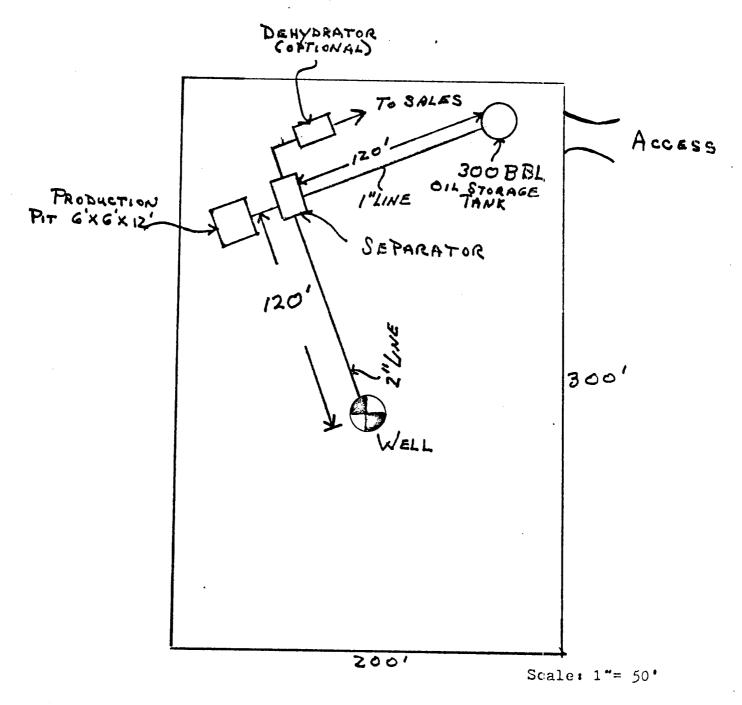
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Mr Brad Fischer



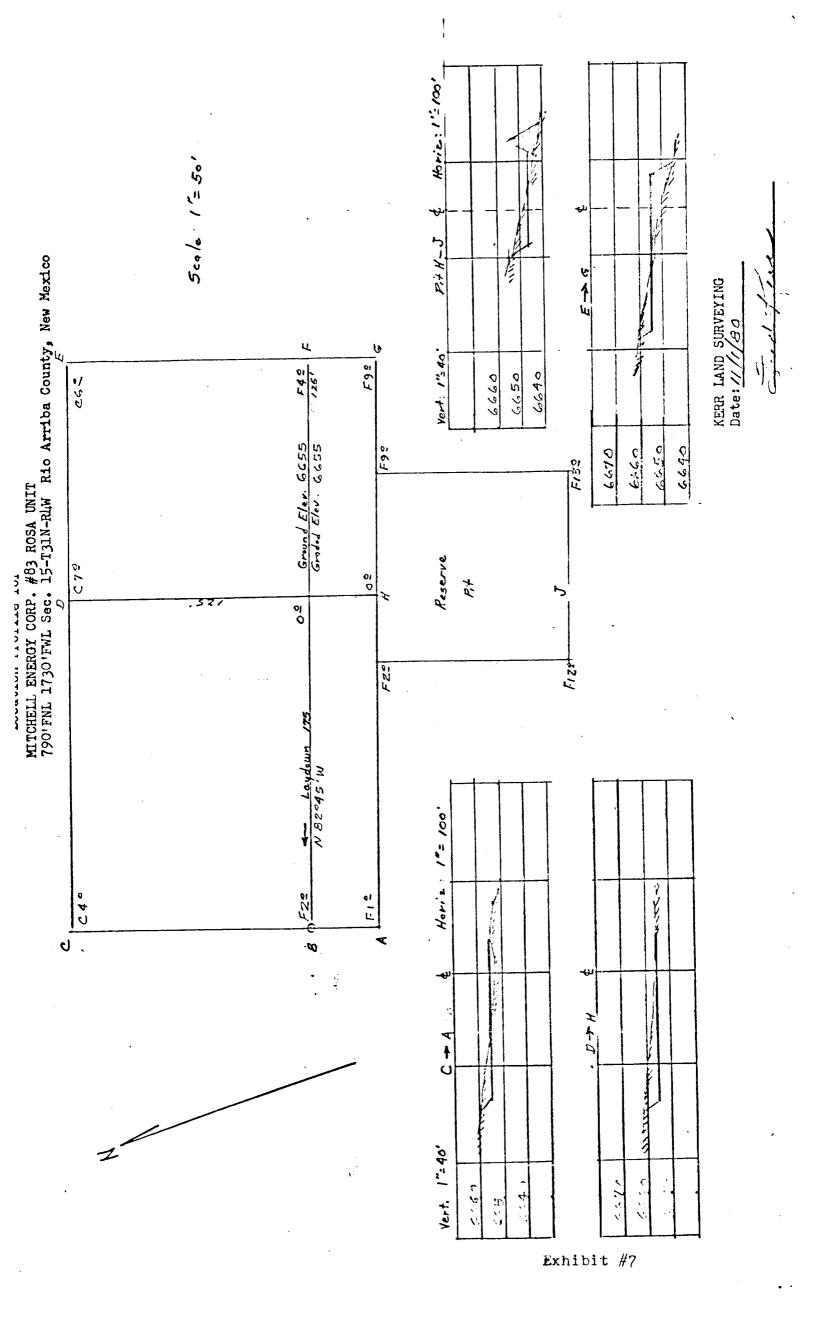


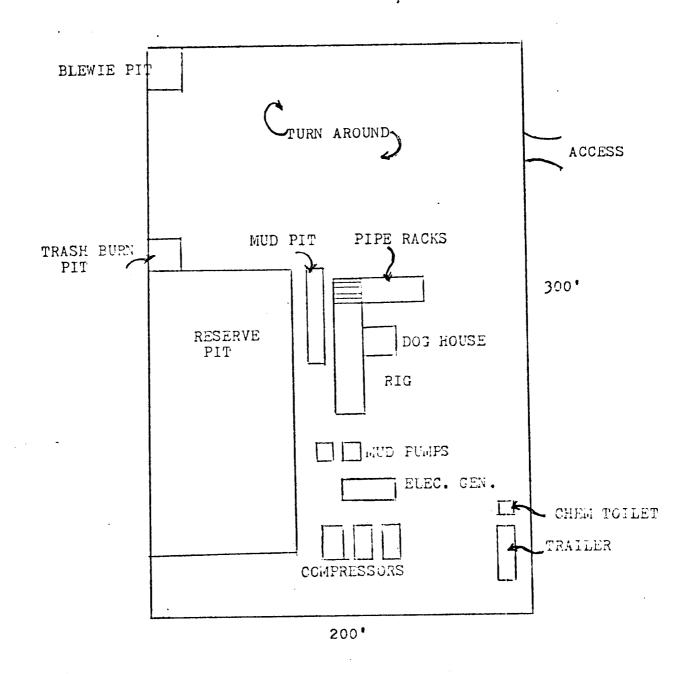




PRODUCTION FACILITIES

Mitchell Energy Corp.
Rosa Unit #83-15-31-4
Exhibit # 6





DRILL RIG LAYOUT

Scale: 1"=50'

Mitchell Energy Corporation
Rosa Unit #83-15-31-4

Exhibit #8

Mr. Salvatore J. Pagano 7892 South Garfield Way Littleton, Colorado 80122

Re: Filing NTL-6 and APD Form 9-331C MITCHELL ENERGY CORPORATIONS Rosa Unit #83
NE/NW Section 15-T31N-R4W 790' FNL & 1730' FWL Rio Arriba County, New Mexico



Gentlemen:

This is to confirm our understanding with you that Mr. Salvatore J. Pagano is authorized to act as our agent in the following capacities:

- A. In supervision of surveying and staking, and preparing and filing necessary application, permits, and compliance programs, including complete NTL-6 reports and H2S Contingency Plan.
- B. In accepting on our behalf any changes to location, proposed facilities and/or surface use plan and compliance program requested at on-site inspections, when we are unable to have a Company representative present. Such changes will then be binding upon us or designated Operator.

MITCHELL ENERGY CORPORATION

By Blufusin Brad W. Fischer

Title Area Production Manager

Date ____11/4/80

BWF: jms

Exhibit # 9