SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved, Budget Bureau No. 42-R1425.

UNITED STATES DEPARTMENT OF THE INTERIOR

20. 600 000 000 000

							O. DEADE DESIGNATION	AND SERIAL NO.
GEOLOGICAL SURVEY						SF-078924		
APPLICATIO	N FOR PERMIT	TO DRILL, I	DEEPEN.	OR P	LUG BA	A CK	6. IF INDIAN, ALLOTTE	E OR TRIBE NAME
1a. TYPE OF WORK								
DR	ILL X	DEEPEN		PL	UG BAC	(7. UNIT AGREEMENT N	AME
b. TYPE OF WELL								
	VELL OTHER		SINGLE ZONE	\mathbf{x}	MULTIPLI ZONE	· 🗌	8. FARM OR LEASE NA	ME
2. NAME OF OPERATOR							Connie 29	
Grace Petrole	Grace Petroleum Corporation							
3. ADDRESS OF OPERATOR							1	
3 Park Central Suite 200, 1515 Arapahoe Denver, Co. 80202						10. FIELD AND POOL, OR WILDCAT		
4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.*) At surface						Lybrook Sallup ext		
970' FSL, 1650' FEL						11. SEC., T., B., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zo	ne							
						Sec. 29-T24	N-R7W	
14. DISTANCE IN MILES	AND DIRECTION FROM NEA	REST TOWN OR POS	T OFFICE*				12. COUNTY OR PARISH	13. STATE
48 Miles SE	of Bloomfield, 1	New Mexico					Rio Arriba	New Mexico
15. DISTANCE FROM PROP LOCATION TO NEARES		550' FFT.	16. NO. OF	ACRES IN	LEASE		OF ACRES ASSIGNED HIS WELL	
PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)				960			M 400	
18. DISTANCE FROM PROPOSED LOCATION*				19. PROPOSED DEPTH 20. ROT			RY OR CABLE TOOLS	
TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT. 5970						Rotary		
21. ELEVATIONS (Show wh	ether DF, RT, GR, etc.)	"	·				22. APPROX. DATE WO	BK WILL START*
7369' Ungraded Ground					June, 198	0		
23.	1	PROPOSED CASI	NG AND CE	MENTIN	G PROGRAI	м		
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETTING DEPTH		QUANTITY OF CEMENT			
124"	8-5/8"	24#	300'			CMT to Surface		
7-7/8"	41/2"	10.5#			300sx, Class "G"			
	1	1						

It is proposed to drill and test the Gallup formation at the above location. Total depth will be approximately 5970'.

A $4\frac{1}{2}$ " production string will be run and cemented, or the well plugged and abandoned, as per regulations, whichever test indicates.

See attached for pertinent data.

APR 2 4 1980 OIL CON, COM, DIST, 3

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.

SIGNED State G. Smith	APPROVEDDistrict AS-APENDEDManager	
(This space for Federal or State office use)	JAPR 2 1980	
APPROVED BY	JAMES F. SIMS DISTRICT ENGINEER	DATE 27 -

SUBJECT TO COMPLIANCE WITH ATTACHED

"GENERAL REQUIREMENTS"

of Srak

*See Instructions On Reverse Side

MAR 21 1980

U. S. GENEGHICAL SURVEY

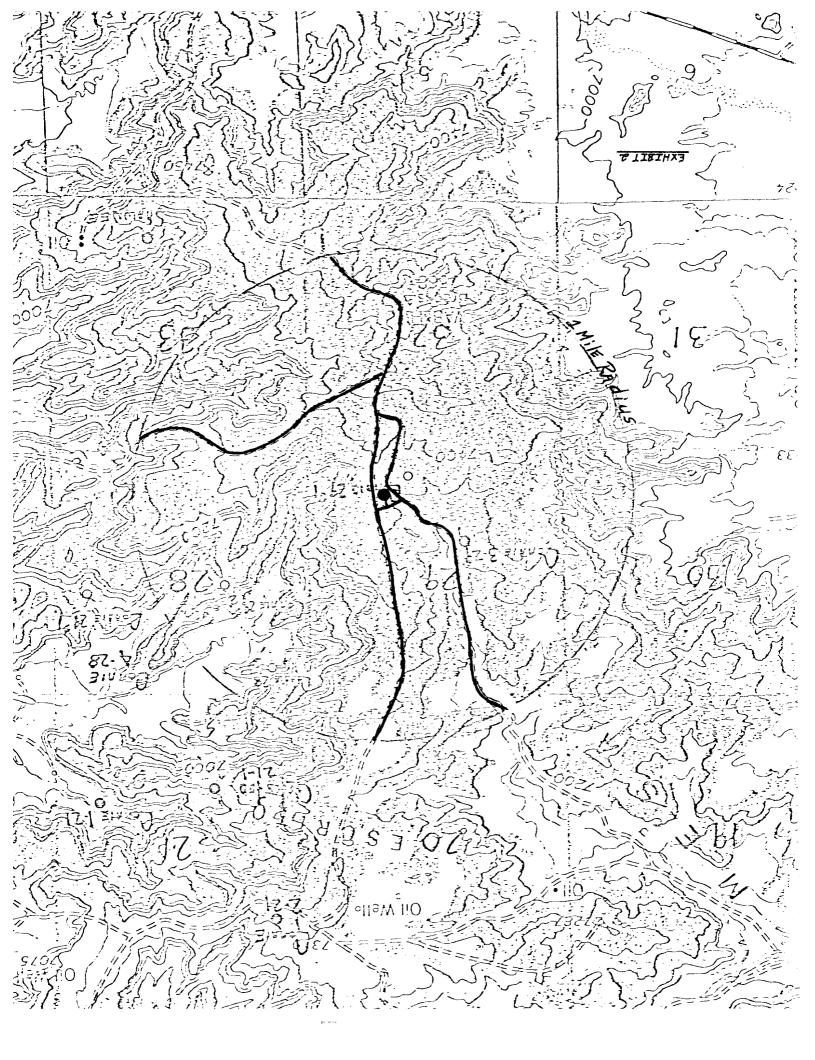
OIL CONSERVATION DIVISION

STATE OF NEW MEXICO LHERGY AND MINERALS DEPARTMENT

P. O. BOX 2088 SANTA FE, NEW MEXICO 87501

Form C-102 Revised 10-1-78

		All distances mu		uter houndaries of	the Section		1, 1, 1, 1, 1
Operator			Lease	_			Well No.
GRACE PETROLEUM CORPORATION				CONNIE 29			<u> </u>
Unit Letter	Section	Township	R	ange	County		
0	29	2LN		7W	Rio Arri	.ba	
Actual Footage Loc	ation of Well:		= -	· ~ 0	<u> </u>		
970	feet from the			550 _{fee}	t from the East		line
Ground Level Elev.	Producing F	ormation	P∞1		<i>a</i> -		cated Acreage:
7369	Gall	up		Lybrook ø	Ballup ~	T W	80 40 Acres
1. Outline th	e acreage dedic	cated to the sub	iect well by	colored pencil o	r hachure mark	s on the pla	it below.
	3		,	•			
2. If more th	an one lease i	s dedicated to t	he well, outli	ne each and ide	ntify the owner	ship thereo	f (both as to working
	nd royalty). Si		,		•	-	-
		_					
3. If more tha	an one lease of	different owners	hip is dedica	ted to the well,	have the intere	sts of all	owners been consoli-
		unitization, forc					i
,							
Yes	No If	answer is "yes,"	type of cons	olidation			
If answer	is "no," list the	e owners and tra	ct description	is which have a	ctually been co	nsolidated.	(Use reverse side of
	f necessary.)P						
No allowat	ble will be assig	ned to the well i	ntil all intere	sts have been	consolidated (l	y communi	tization, unitization,
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sion.	υ,			- 0 -	•		•
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				1	Pos		hern District
	1			1		Oper	ations Manager
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	1			į į	Gr	ace Petro	leum Corporation
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† 1	1	Sec.		1		March 1	7, 1980
			MAA				
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NTL-6 ENVIRONMENTAL STATEMENT

SURFACE USE PLAN

OPERATOR: Grace Petroleum Corporation

LEASE & WELL NAME: Connie 29 #1

LOCATION: SWSE Sec. 29-T24N-R7W (970' FSL, 1650' FEL)

COUNTY & STATE: Rio Arriba, New Mexico

TO: The United States Geological Survey (USGS) and the Bureau of Land Management (BLM).

The following information, maps, plats, and descriptions of various surface characteristics should fulfill the requirements of the various agencies as to the environmental commitment of the operator at the above named well site.

Geologic Name of the Surface Formation

San Jose

Estimated Tops of Important Geologic Markers

Picture Cliffs	2453'
Lewis	2551'
Mesaverde	3251'
Point Lookout	4758 '
Mancos	5024
Gallup	5821'

Estimated Depths at which Anticipated Water, Oil, Gas, or Other Mineral-Bearing Formations are Expected to be Encountered

Possible oil and/or gas zones are Picture Cliffs (2453'), Point Lookout (4758') and Gallup (5821').

Proposed Casing Program (including the size, grade, and weight-per-foot of each string and whether new or used)

8-5/8" K-55, 24#/ft., new to approximately 300' $4\frac{1}{2}$ " K-55, 10.5#/ft., new to TD, approximately 5970'.

5. Lessee's or Operator's Minimum Specifications for Pressure Control Equipment which is to be used, a Schematic Diagram thereof Showing Sizes, Pressure Ratings (or API series), and the Testing Procedures and Testing Frequency

B.O.P. will be as shown on Exhibit 3. The blind and pipe rams will be tested to 2000 psi and held for 20 mintues for each set of rams before the surface casing shoe is drilled out. During drilling, the pipe rams will be closed once a day and a check made for seating, fluid loss, and operations. On each trip, the blind rams will be closed and a check made for seating, fluid loss and operation.

6. Type and Characteristics of the Proposed-Circulating Medium or Mediums to be Employed for Rotary Drilling and the Quantities and Type of Mud and Weighting Material to be Maintained

Circulating medium for 12-1/4" surface hole will be gel and lime mud to set 8-5/8" surface casing. For 7-7/8" hole, we propose a CMC mud system weighing 8.8 to 9.1 ppg with a fluid loss of 10 cc or less.

7. Auxiliary Equipment to be Used (such as kelly cocks, floats at the bit, monitoring equipment on the mud system, a sub on the floor with a full opening valve to be stabbed into the drill pipe when the kelly is not in the string, etc.)

A kelly cock will be used on the kelly, and a bottom hole float will also be installed. A full opening safety valve subbed to drill pipe threads will be on the floor at all times. Monitoring of the mud system will be performed using floats and daily measurements by a mud engineer.

8. $\frac{\text{Testing, Logging, and Coring Programs to be Followed with Provision Made for Required Flexibility}$

Two Drill Stem Tests may be run in the assumed productive intervals (see No. 3), if samples, shows in the mud or drilling breaks indicate possible hydrocarbons. Logging will be a Dual Induction Lateral Log from TD to base of surface casing. Formation Density-Compensated Neutron Log will be run across zones of interest. No cores are anticipated. If the well is determined to be commercial, 4-1/2" casing will be run and cemented. The cement program will include the following: 1) Cement from TD to approximately 4500' with a "G" class cement with salt and gel. 2) Cement the upper water sands from approximately 3800' to surface with a pozmix cement with gel. This will be sufficient to cover the Ojo Alamo zone. The stimulation procedure will consist of perforating all of the Gallup interval acidizing with a mud acid @ a volume of approximately 50 gal/ft and fracturing the Gallup with approximately 40,000 gals gelled water with 60,000# sand.

9. Any Anticipated Abnormal Pressures or Temperatures Expected to be Encountered or Fotential Hazards such as Hydrogen Sulfide Gas, Along with Plans for Mitigating Such Hazards

No abnormal pressures or temperatures are anticipated. Also, no potentially hazardous hydrogen sulfide gas is expected.

10. Anticipated Starting Date and Duration of the Operations

Anticipated spud date is June 1980, with subsequent drilling and completion operations lasting 30-60 days.

- 1. A Legible Map Showing Existing Roads (See Exhibit 2):
 - A. Proposed well site location as staked (staking to include two (2) each 200-foot directional reference stakes):

 Exhibit 1 Shows proposed well site as staked by a registered land surveyor.

- B. Planned Access Road (route and distance from nearest town or locatable referenced point to where well access route leaves the main road:

 To reach Connie 29-1 location from Bloomfield, travel SE on New Mexico Highway 44 for approximately 48 miles. Turn North onto dirt road marked by BCO mailbox. Continue on dirt road for approximately 3½ miles. Turn left at "Y" in road. Proceed approximately 200' to flagged location.
- C. Access road(s) to location color-coded or labeled: Access road is color-coded in red on Exhibit 2.
- D. If exploratory well, all existing roads within a 3-mile radium (type of surface, conditions, etc.): N/A
- E. If development well, all existing roads within a 1-mile radium of wellsite:
 Exhibit 4 shows wells within an 1-mile radius.
- F. Plans for improvement and/or maintenance of existing roads:

 Improvement and/or maintenance will be according to
 BLM specifications.

- 2. Map Showing All Necessary or Planned Access Roads to be Constructed or Reconstructed (See Exhibit 2):
 - A. Width: Approximately 16-20'
 - B. Maximum Grades: Approximately 1%
 - C. Turnouts: None are planned
 - D. Drainage Design: No drainage design will be incorporated for the drilling phase. Brush will be cleared and windrowed.
 - E. Location and size of culverts and brief description of any major cust and fills:

No culverts are necessary. A 2' cut will be taken from the southeast side of the location and fill distributed to the west side, and as required to level the location.

- F. Surfacing Material:
 None is planned
- G. Necessary gates, cattleguards, or fence cuts: None are necessary.
- H. New or reconstructed roads are to be center-line flagged at the time of location staking:

Approximately 100' of access road was approved by USGS and

BLM during site inspection and was center-line flagged at location staking.

Location of Existing Wells (See Exhibit 4):

A two-mile radius map, if exploratory, or a 1-mile radium map, if development well, showing and identifying existing (1) water wells, (2) abandoned wells, (3) temporarily abandoned wells, (4) disposal wells, (5) drilling wells, (6) producing wells, (7) shut-in wells, (8) injection wells, and (9) monitoring or observation wells for other resources is attached.

Well is a development well. Exhibit 4 shows existing wells within a 1-mile radius.

4. Location of Existing and/or Proposed Facilities:

A. Within 1-mile radius of location showing the following existing facilities owned or controlled by lessee/operator: (1) tank batteries,
(2) production facilities, (3) oil gathering lines, (4) gas gathering lines, (5) injection lines, (6) disposal lines.

Exhibit 4A shows existing operator-owned facilities consisting of pumping unit, treater, oil storage tanks.

B. New facilities in the event of production.

We will utilize facilities at Connie 3-29 location, located approximately $\frac{1}{2}$ mile Northwest of proposed well site.

(1) Dimensions of facilities:

30'x 30' for well head only

- (2) Construction methods and materials: Any construction will utilize soil materials native to the site. Construction methods will be employed to assure no drainage flows are impounded unless surface Lessee requests embankment.
- (3) Protective measures to protect livestock & wildlife: Fences will be installed around equipment and pits to protect wildlife and livestock.

C. Rehabilitation of Disturbed Areas Unnecessary for Production: Areas unnecessary for use will be graded to blend with the surrounding topography. Topsoil will be replaced on these areas and seeded according to BLM requirements.

5. Location and Type of Water Supply

Water will be supplied from private rancher's water well located approximately 3 miles northwest of proposed well site.

- A. Water Transportation System: Vacuum trucks will be utilized to haul water to the well site. Trucks will follow existing roads.
- B. Water Wells: No water wells will have to be drilled.

6. Source of Construction Materials

- A. Materials: Construction materials will consist of soil encountered within the boundaries of proposed well site.
- B. Land Ownership: Ownership is BLM
- C. Materials Foreign to Site: N/A
- D. Access Roads: 100' of access road will utilize soil within boundaries of proposed well site.

7. Methods for Handling Waste Disposal

- A. Cuttings: Cuttings will be contained in reserve pit, Exhibit 5.
- B. Drilling Fluids: Drilling fluids will be retained in the reserve pit.

7. Methods for Handling Waste Disposal, (Cont'd)

C. Produced Fluids: Produced fluids will be stored in tanks on the location and hauled off by truck.

D. Sewage: Sewage disposal will be necessary during drilling operations only. A portable toilet will be provided for human waste.

E. Garbage: A burn pit will be constructed and fenced with small mesh wire, overhead and around. Any refuse will be burned.

F. Cleanup of Well Site:

Clean up of this location will proceed after the rig moves off, as outlined in Section 10 of this report.

8. Ancillary Facilities

None required.

9. Well Site Layout

A. Cross-Section of Drill Pad:

See Exhibit 5.

B. Location of Burn, Trash, and Reserve Pits, Soil Material Stockpiles, Access Roads, Mud Tanks, Pipe Racks, Living Facilities:

See Exhibit 5.

9. Well Site Layout, (Cont'd)

C. Rig Orientation and Layout:

See Exhibit 6.

D. Lining of Pits: No liners are planned.

10. Plans for Restoration of Surface Upon Completion of Operations:

A. Backfilling, Leveling, Contouring, and Waste Disposal; Segregation of Spoils Materials as Needed:

Prior to backfill operations, any hydrocarbon material on the pit surface will be removed. The fluids and solids contained in the pit will be backfilled when the pit dries. The entire area will be contoured, graded or leveled to its previous condition, such that no drainage will be impounded. The topsoil will be replaced and the area reseeded per BLM recommendations.

B. Revegetation and Rehabilitation - Including Access Roads:

The reseeding will be BLM specifications. Access road will be maintained for vehicular traffic if production results, or regraded to original condition if well is not productive. The area will be reseeded with seed mixture selected by BLM.

C. Prior to Rig Release, Pits Will be Fenced and so Maintained Until Cleanup:

This will be adhered to until pits are dry and backfilled, and the area is restored.

D. Oil on Pit:

Oil will be removed or overhead flagging will be installed.

- 10. Plans for Restoration of Surface Upon Completion of Operations, (Cont'd):
 - E. Rehabilitation Timetable: 3 to 6 months upon completion of operations.

11. Other Information

- A. Surface Description (Topography, Soil Characteristics, Geologic Features, Flora and Fauna):
 Topagraphy is mesa top with northerly drainage alluvial surface deposits and sandstone bedrock. Soil is sandy, clayey loam.
 Principle vegetation consists of pinion, juniper, sagebrush, snakeweed, broadleaf yucca, indian ricegrass, grama and squirreltail.
- B. Surface Ownership and Use: Ownership is BLM

- C. Proximity of Water, Dwellings, Historical Sites:
 - (1) Water: Nearest source of water is located approximately $2\frac{1}{2}$ miles north of proposed well site.

- (2) Occupied Dwellings: Nearest dwelling is BCO camp located $2\frac{1}{2}$ miles north of proposed location.
- (3) Sites: No found

 Refer to report 30-SJC-047 of the Cultural Management Program,

 San Juan Campus, New Mexico State University, dated March 7, 1980.

12. Operators Field Representative

Scotty A. Smith
Three Park Central
1515 Arapahoe Street
Suite 200
Denver, Colorado 80202

Work 303/825-8193 Home 303-234-0257

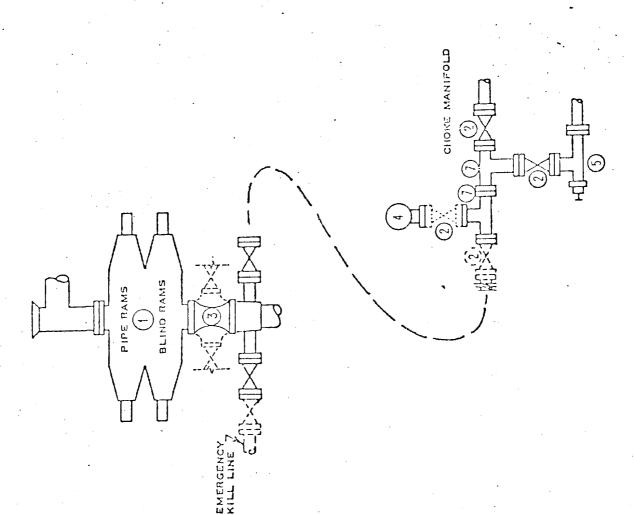
Benjamin C. Stromberg Same as above. Work 303/825-8193 Home 303/733-9076

13. Certification

I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site 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 Grace Petroleum Corp. and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved.

Scotty A. Smith, Southern District Operations Manager

* * * * * * * *



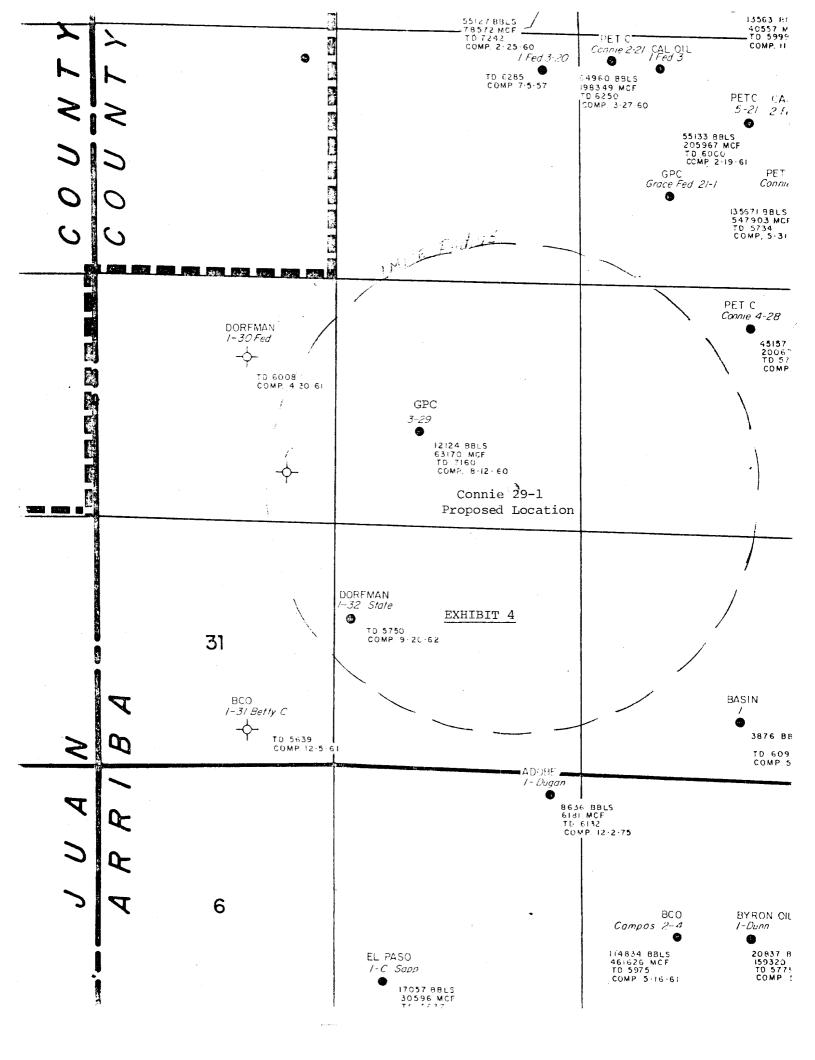
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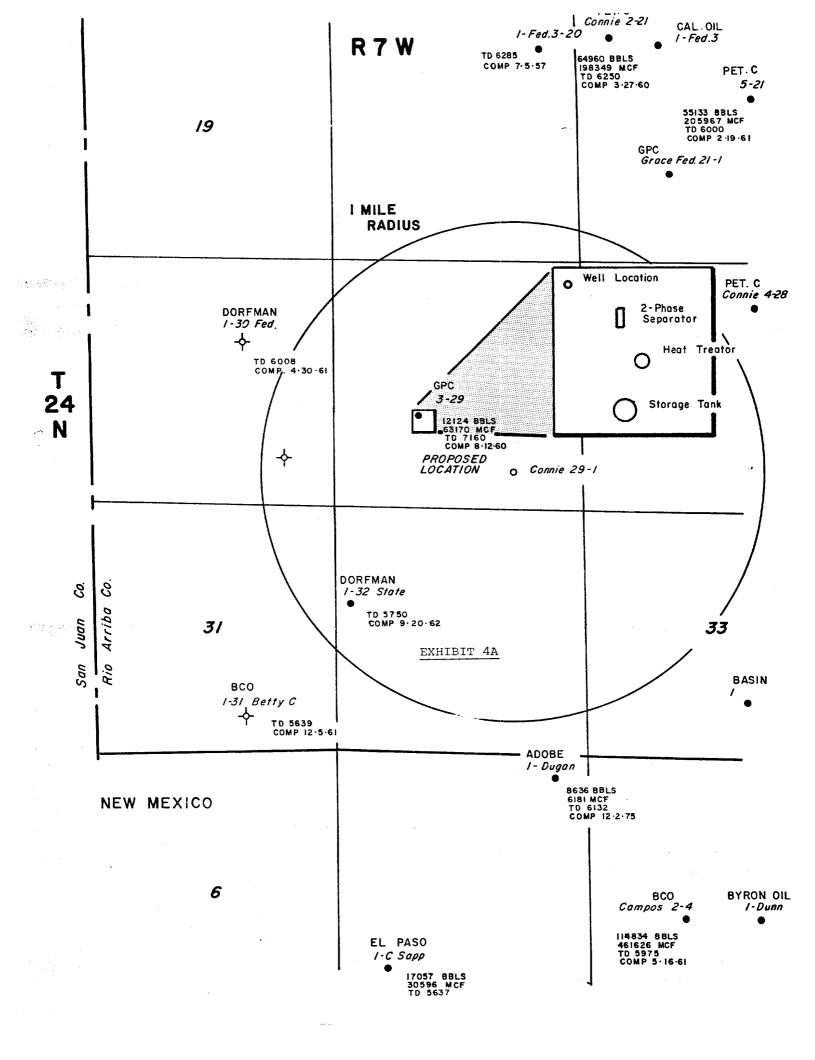
- SERIES 900 RAM-TYPE BOP
- 2" SERIES 900 VALVE (3)
- SERIES 900 DRILLING SPOOL 0
- 2" MUD PRESSURE GAUGE 2" SERIES 900 CHOKE (9) •
- 2" SERIES 900 CHECK VALVE (9)
- 2" SERIES 900 STEEL TEE (7) 2" S NOTES:
- 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
- THE VALVES FLANGED TO THE BOP RUN MUST BE CAPAULE OF BEING OPENED AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPABLE OF BEING OPENED MANUALLY VALVES MAY BE EITHER HAND OR POWER OPERATED. IF POWER OPERATED, 4

..... OPTIONAL EQUIPMENT

BLOWOUT PREVENTER HOOK-UP 3000 PSI WORKING PRESSURE

EXHIBIT NO.





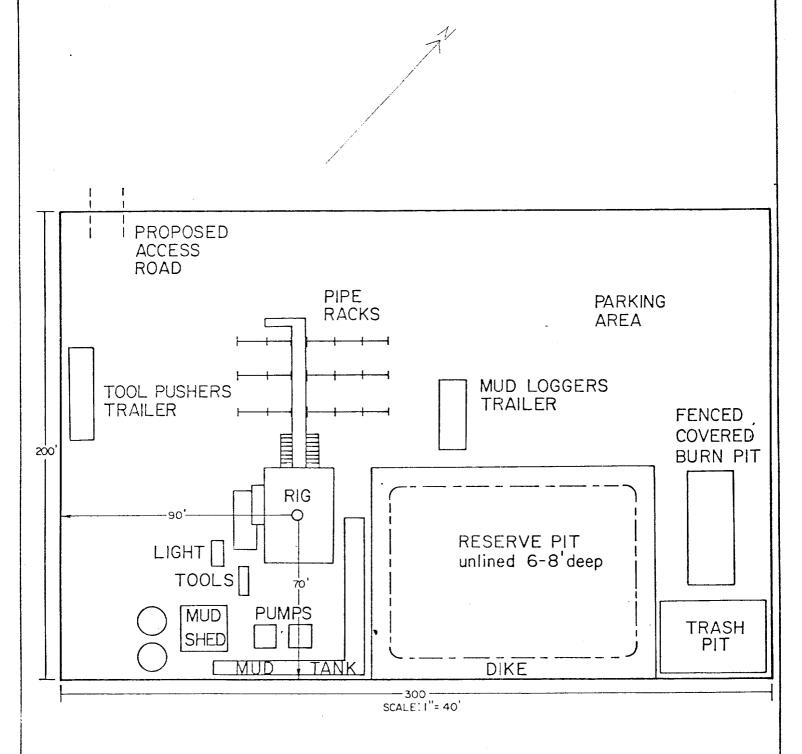
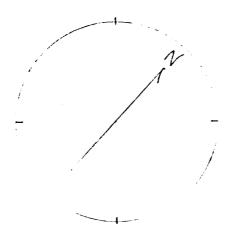


EXHIBIT 5

CONNIE #29-1 SW SE Sec. 29-T24N-R7W Rio Arriba, Co. New Mexico



GRACE Petroleum Corp.
Rocky Mountain Region
1515 Arapahoe Sulte 200 Three Park Central
Denver, Colorado 80202 (303) 825-8193



Scale: 1"=40'

