#### SUBMIT IN TRIPLICATE\*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES					
<b>DEPARTMENT</b>	OF	THE	INTERIOR		

30-039-223897

5. LEASE DESIGNATION AND SERIAL NO.

						6 IP INDIAN ALLOWER OF TRANS
APPLICATIO	N FOR PERMI	T TO DRILL, I	DEEPEN, O	R PLUG I	3ACK	6. IF INDIAN, ALLOTTEE OR TRIBE
1a. TYPE OF WORK						7 777
	RILL X	DEEPEN		PLUG BA	CK 📙	7. UNIT AGREEMENT NAME
	GAS		SINGLE X	MULTI	PLE	S. FARM OR LEASE NAME
2. NAME OF OPERATOR	WELL OTHER		ZONE	ZONE		Connie 28
Grace Petro	oleum Corporat	ion				9. WELL NO.
3. ADDRESS OF OPERATOR		.1011				2
3 Park Cent	ral, #200, 15	15 Arapahoe,	Denver, CC	80202		10. FIELD AND POOL, OR WILDCAT
4. LOCATION OF WELL () At surface			th any State requ	irements.*)	Emul.	- Lybrook Baller
1750	)' FNL, 1800'	FWL				11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA
At proposed prod. zo	ne					
14. DISTANCE IN MILES	AND DEPROPERTY WHOLE	VILLENGE MONEY OF DOC			·	Sec. 28-T24N-R7W
	of Bloomfiel					12. COUNTY OR PARISH 13. STAT
15. DISTANCE FROM PROI			16. NO. OF ACRE	S IN LEASE	1 17 NO (	Rio Arriba   New M
LOCATION TO NEARES PROPERTY OR LEASE	ST LINE. FT.	., 2000 1.12		O III DEBEE		HIS WELL
(Also to nearest dr 18. DISTANCE FROM PRO	lg. unit line, if any)		960 19. PROPOSED DEPTH 20.		20 ROTA	RY OR CABLE TOOLS
TO NEAREST WELL, OR APPLIED FOR, ON T	DRILLING, COMPLETED,		5860			
21. ELEVATIONS (Show w		.)	1 3600		I ROL	ary 22. Approx. date work will so
6924' ungrad	led ground					June, 1980
23.		PROPOSED CASI	NG AND CEMEN	TING PROGR	<u></u> АМ	
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	OOT SETT	ING DEPTH	T	OIL FEMALOW CONTRIBUTE
121/4"	8-5/8"			300'		QUANTITY OF CEMENT
7-7/8"	415"			D		to surface
					1 .500	SX C.IdSS G #144 //w4
It is Total A 4½"	proposed to depth will be	e approximate ring will be	the Galluly 5860'	up format	ion at	
It is Total A 4½" and ak	proposed to d	e approximate ring will be per regulation	the Galluly 5860' run and cens, whichev	up format	ion at	the above location.  well plugged
It is Total  A 4½" and al	proposed to depth will be production stoandoned, as particularly trached for periodic process process process and depth will or deepen direct	e approximate.  ring will be per regulation ertinent data	the Galluly 5860'  run and cens, whichever	emented, ver test	ion at or the indicat	the above location.  well plugged  es.  On Con 1980  Ost. Con.
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It is Total  A 4½"  and al  See at  IN ABOVE SPACE DESCRIB  zone. If proposal is to preventer program, if a	proposed to depth will be production stoandoned, as particularly trached for periodic process process process and depth will or deepen direct	e approximate.  Ering will be per regulation attainent data  If proposal is to decionally, give pertinen	the Galluly 5860'  run and cens, whichever	mp formatemented, wer test	ion at or the indicat	the above location.  well plugged  es.  On Con Door   on Con Con Door   uctive zone and pro- new production.
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## STATE OF NEW MEXICO

# OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-102 kevised 10-1-78

ENERGY ALS MINER	ALS DEPARTMENT		L, NEW MEXICO	D 87501	Form C-102 Revised 10-1-78	
All distances must be from the cuter boundaries of the Section						
Cycrator			Lease		Well No.	
GRACE PETRO	LEUM CORPORAT	<del></del>	CONNIE 28			
F	28	Township 24N	Range 7W	County		
Actual Footage Loca		244	1 (44	Rio Arrit	)a	
1750	feet from the	North line and	1800	feet from the West	line	
Ground Level Elev.	Producing Fo		Pool Escrib		L Dedicated Acreage:	
6924	Gal		1 Lybrook	- Gallup	A 10 70 80 Acres	
1. Outline the	e acreage dedica	ited to the subject v	ell by colored pen	cil or hachure marks	on the plat below.	
interest an	d royalty). Sir	ngle Lease			ship thereof (both as to working	
3. If more tha dated by co	ommunitization, 1	unitization, force-pool	ing. etc? N/A	ell, have the interes	ts of all owners been consoli-	
les	NO II a	nswer is "yes," type	of consolidation			
No allowab	necessary.1N le will be assign	ed to the well until a	l interests have be	en consolidated (by	communitization, unitization, been approved by the Commis-	
				<del></del>	CERTIFICATION	
			ļ		CERTIFICATION	
				1 he	ereby certify that the information con-	
	0		ı	tair	ned herein is true and complete to the	
	1750		!	bes	t of my knowledge and belief.	
			1		with 4. Smith	
				Name		
		- I			otty A. Smith	
1800'			j t	Posit	Southern District	
	ĺ	***	i	Comp	Operations Manager	
	ţ	3 3	1	11	e Petroleum Corporation	
			1	Date	- Corporation	
	5	ec.	1		March 19,1980	
	1					
	i	28	1	1.5	ereby certify that the well-location	
	1				wn on this plat was plotted from field	
	1			Company note	es of actual surveys made by me or	
	1		10 . 10	7	er my supervision, and that the same	
	1		19/2	N # # 1 N 1 1 1	true and correct to the best of my	
	- <del>+</del>				wledge and belief.	
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	<del></del>		į	1 1	legid Professional Engineer	
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0 330 660 -90	1320 1650 1980	2310 2640 2000	1500 1000		50 B. KERR. IR.	

#### NTL-6 ENVIRONMENTAL STATEMENT

#### SURFACE USE PLAN

OPERATOR: Grace Petroleum Corporation

LEASE & WELL NAME: Connie 28 #2

LOCATION: SE NW Sec. 28-T24N-R7W (1750' FNL, 1800' FWL)

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.

1. Geologic Name of the Surface Formation

San Jose

2. Estimated Tops of Important Geologic Markers

Undivided	1665'
Picture Cliffs	2105'
Lewis	2195'
Chacra Zone	2910'
Cliff House	3635 <b>'</b>
Menefee	3725 <b>'</b>
Point Lookout	4385'
Mancos	4570
Gallup	5430'

3. 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 (2105') Chacra Zone (2910') Cliff House (3635') Menefee (3725') and Gallup (5430').

4. 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 5860'

- 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. 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.

(continued)

9. Any Anticipated Abnormal Pressures or Temperatures Expected to be Encountered or Potential 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.

(Continued)

- 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 the Connie 28 #2 location from Bloomfield, New Mexico, go southeast on New Mexico Highway 44 for approximately 50 miles. Turn left immediately past Southern Union Gas Refining-Lybrook plant onto existing dirt road. Continue on dirt road for approximately 6.5 miles (Marker: windmill at 3.6 miles). Turn west onto existing road (El Paso Natural Gas P/L signs), continue on existing dirt road for approximately 5.4 miles, parallel to power line wires (Markers: rail-road car and windmill @ 2.1 miles) to "Y" in road. Continue west on jeep trail for approximately 3/4 mile to flagged location.
- C. Access road(s) to location color-coded or labeled:

Access road is color coded 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 4A shows wells within 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 3%
  - C. Turnouts: None are planned.
  - D. Drainage Design: No drainage design will be incorporated for the drilling plase. Brush will be cleared and windrowed.
  - E. Location and size of culverts and brief description of any major cuts and fills: No culverts will be necessary. A 15-20' cut will be taken from the south side of the location and fill distributed to the north side, and as required to level the location.
  - F. Surfacing Material: None is planned.
  - G. Necessary gates, cattleguards, or fence cuts: None necessary.
  - H. New or reconstructed roads are to be center-line flagged at the time of location staking: Access road was centerline flagged at time of location staking.
- 3. 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 within a l-mile radius.

- B. New facilities in the event of production. It is proposed to utilize existing facilities at Connie 1-21 location approximately 1 mile north of location. New facilities will consist of approximately 1 mile of 2" gas transmission surface line and will follow existing R-O-W.
  - (1) Dimensions of facilities:

Actual production facilities will utilize a beam pumping unit and will require approximately 50' x 50'.

(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.

(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 ranchers' water well located approximately 8 miles northeast 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: BLM
- C. Materials Foreign to Site: N/A
- D. Access Roads:
  Approximately 600' of access road to be constructed will utilize soil encountered within the road boundaries.

#### 7. Methods for Handling Waste Disposal

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

(continued)

#### 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:

Three to six months upon completion of operations.

#### 11. Other Information

A. Surface Description (Topography, Soil Characteristics, Geologic Features, Flora and Fauna):

Topography is pediment slope in canyon bottom with northeasterly drainage, alluvial surface deposits and sandstone bluffs. Soil is sandy, clayey loam. Principle vegetation consists of pinion, juniper, sagebrush, saltbush, scrub oak, prickly pear, narrowleaf yucca, grama, indian ricegrass, needle and thread.

B. Surface Ownership and Use: BLM

- C. Proximity of Water, Dwellings, Historical Sites:
  - (1) Water:

Nearest source of water is approximately 1-1/2 miles north of proposed location.

- (2) Occupied Dwellings:

  Nearest occupied dwelling is located 1-1/2 miles north of proposed location.
- (3) Sites: None found.

Refer to Report 80-SJC-047 of the Cultural Management Program, San Juan Campus, New Mexico State University, dated March 7, 1980.

(continued)

NTL-6 Page 11

### 12. Operators Field Representative

Scotty A. Smith 3 Park Central, #200 1515 Arapahoe Street Denver, CO 80202 Work 303/825-8103 Home 303/234-0257

Benjamin C. Stromberg As above

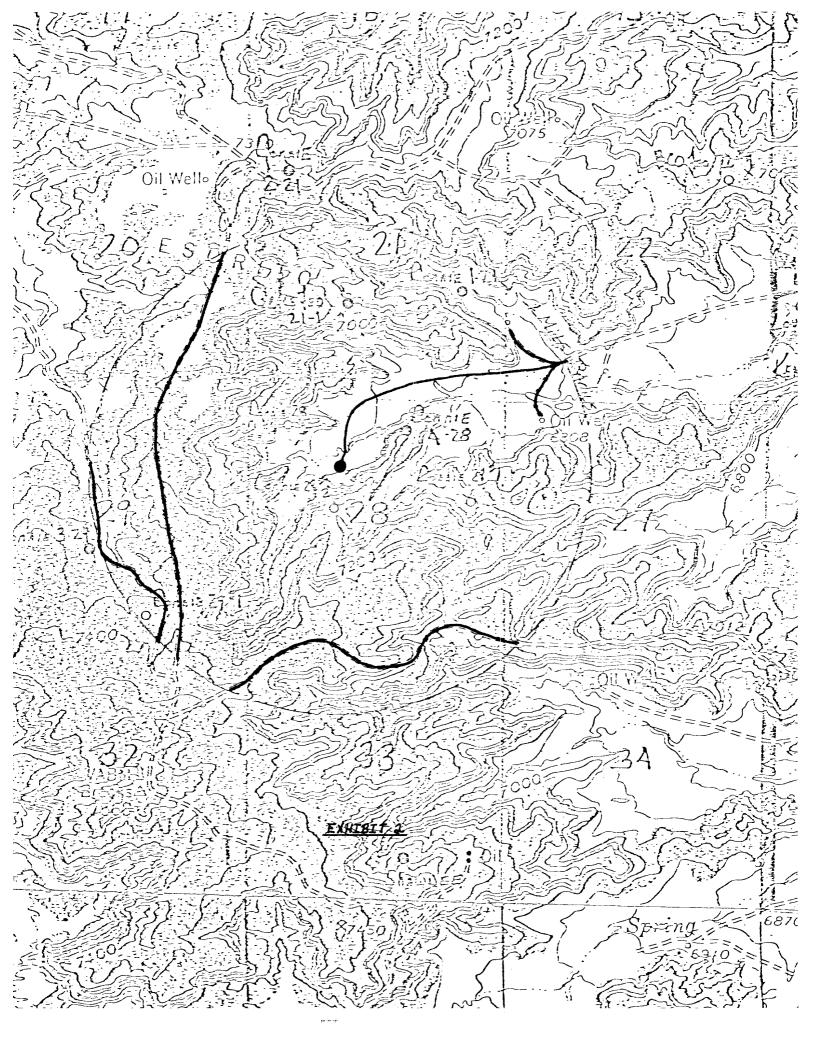
Work 303/825-8193 Home 303/733-9076

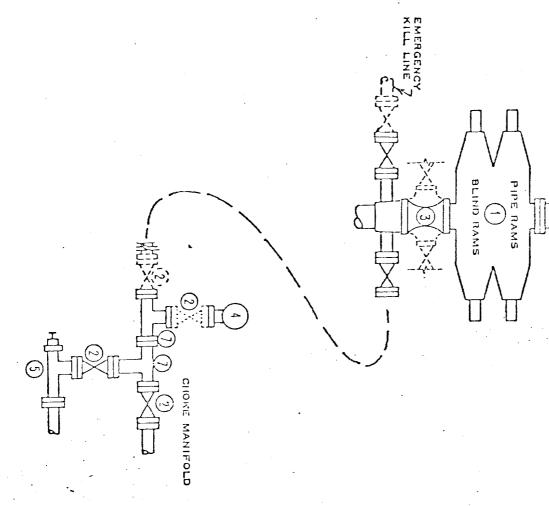
#### 13. Certification

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

. . . . . . . . .





- SERIES 900 RAM-TYPE BOP
- 2" SERIES 900 VALVE
- SERIES 900 DRILLING SPOOL

 $\odot$ (<u>c</u>)  $\Theta$ 

- **(2)** 2" MUD PRESSURE GAUGE
- 21 SERIES 900 CHOKE

(J)

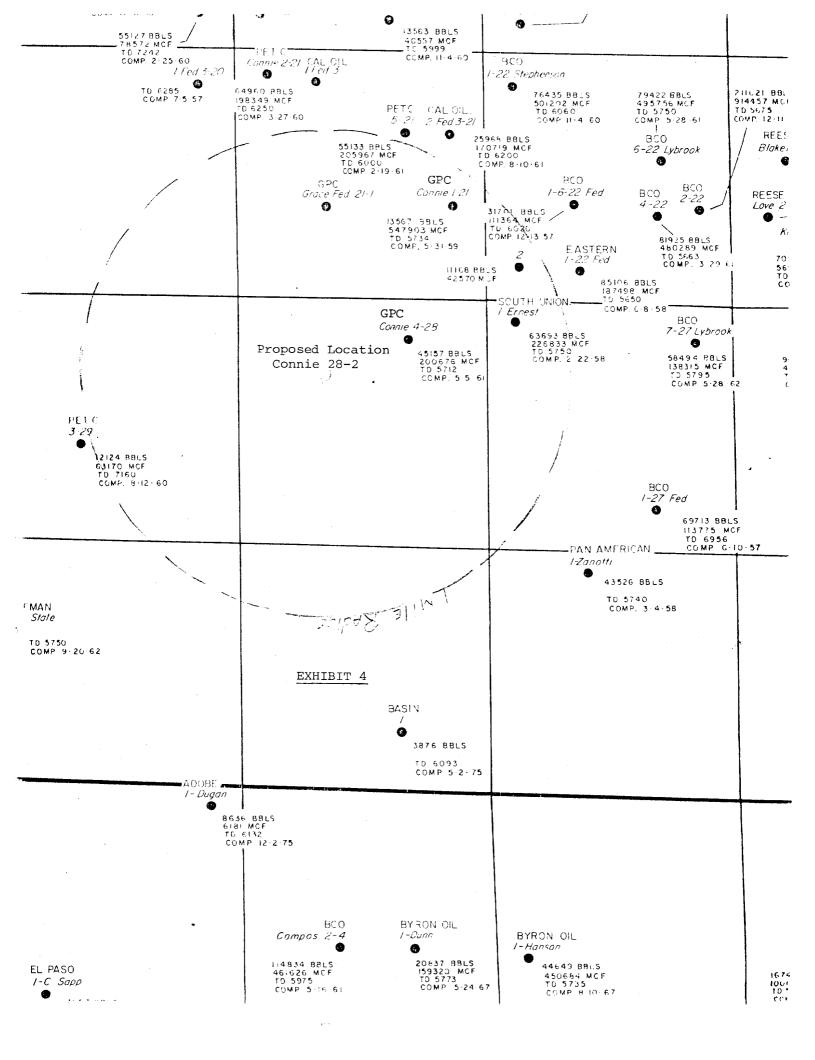
2" SERIES 900 CHECK VALVE

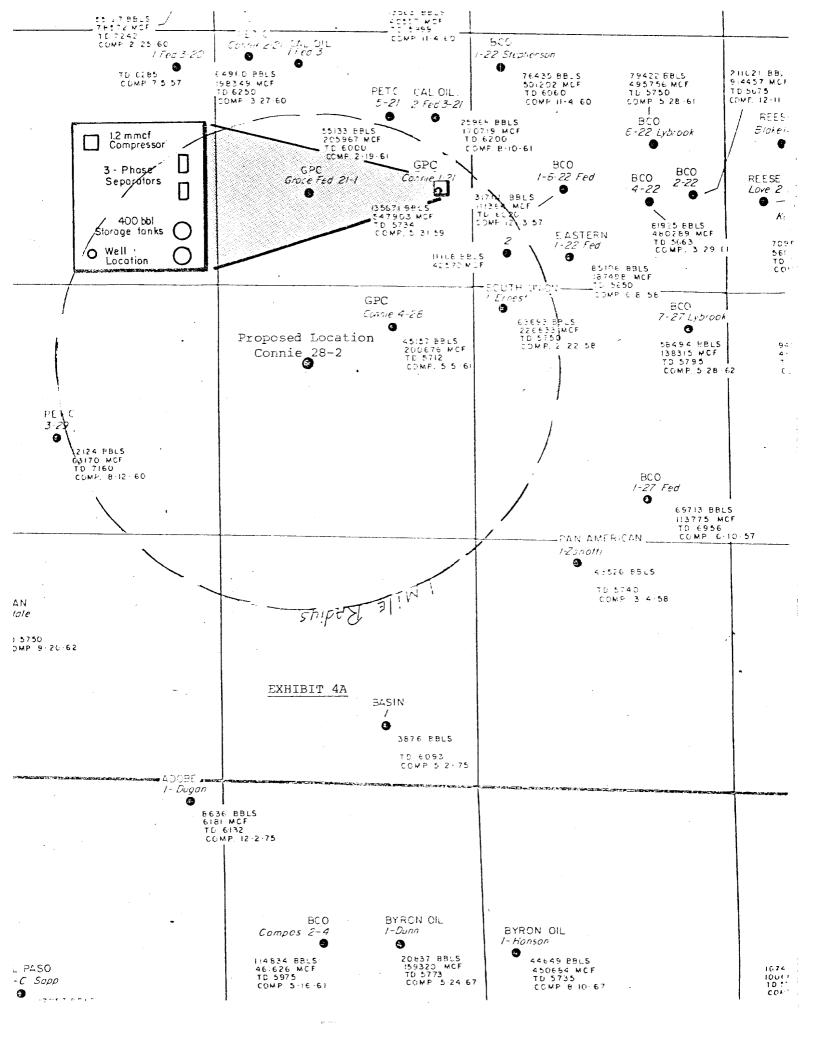
- NOTES: 2" SERIES 900 STEEL TEE
- 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANCES
- VALVES MAY DE EITHER HAND OR POWER OPERATED BUT, IF POWER OPERATED, THE ROP RUN MUST BE CAPAULE OF BEING OPENCO AND CLOSED MANUALLY OR CLOSE ON POWER FAILURE AND BE CAPAULE OF BEING OF BEING OPENED AND

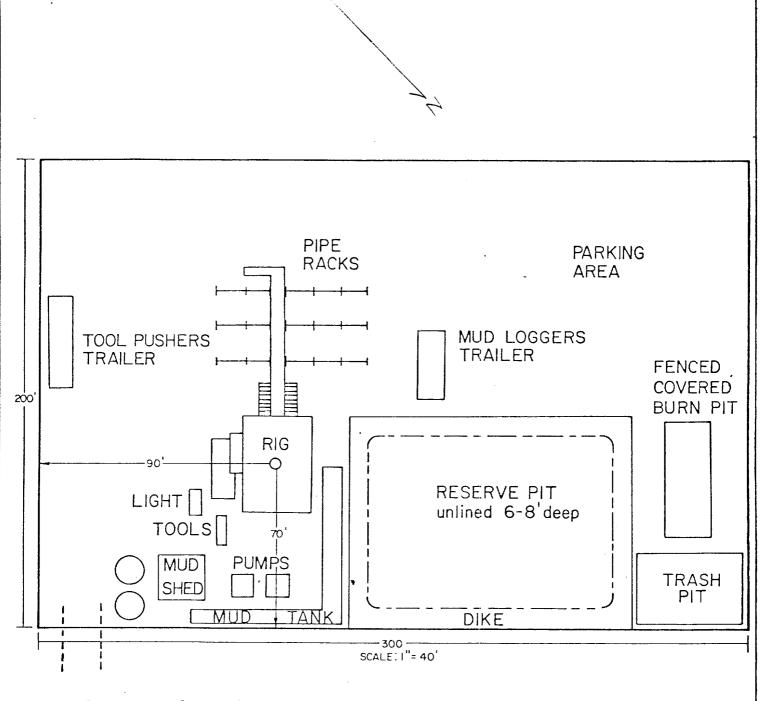
..... OPTIONAL EQUIPMENT

BLOWOUT PREVENTER HOOK-UP 3000 PSI WORKING PRESSURE

EXHIBIT NO. 3







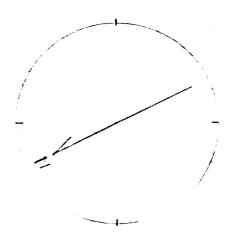
Proposed Access Road

EXHIBIT 5

Connie 28 #2 SE NW Sec. 28-T24N-R7W Rio Arriba County, New Mexico



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



Scale: 1"=40'

