SUBMIT IN TRIPLICATE*

(Other instructions on reverse side)

Form approved. Budget Bureau No. 42-R1425.

UNITED STATES
DEPARTMENT OF THE INTERIOR

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	DEFARIMENT	OF THE I	MICK	UK		5. LEASE DESIGNATION	AND SERIAL NO.	
	SF 078924							
APPLICATION	FOR PERMIT T	O DRILL,	DEEPE	N, OR PLUG	BACK	6. IF INDIAN, ALLOTTEE	OR TRIBE NAME	
	L X	DEEPEN		PLUG BA	CK 🗆	7. UNIT AGREEMENT NA	ME	
OIL X GA			SIN		IPLE	8. FARM OR LEASE NAM	E	
WELL WE NAME OF OPERATOR	LL OTHER		ZON	<u> ZONE</u>		Connie 28	/	
Grace Petrole	ım Corporation					9. WELL NO.		
3 Park Centra. LOCATION OF WELL (Re	1, #200, 1515 A port location clearly and	rapahoe, I	enver	, CO 80202 ate requirements.*)		10. FIELD AND POOL, OF		
	FNL, 230' FWL					11. SEC., T., R., M., OR BLK. AND SURVEY OR AREA		
At proposed prod. zone								
						Sec. 28-T24N-R7W		
4. DISTANCE IN MILES A	ND DIRECTION FROM NEAR	EST TOWN OR POS	ST OFFICE.			12. COUNTY OR PARISH 13. STATE		
	F Bloomfield, N		1 16 NO	OF ACRES IN LEASE	1 17 NO (Rio Arriba	New Mexico	
5. DISTANCE FROM PROPOSED* LOCATION TO NEAREST 200 FNL, 230 FWL PROPERTY OR LEASE LINE, FT. (Also to nearest drig, unit line, if any)		230'FWL		- 960 1520	17. NO. OF ACRES ASSIGNED TO THIS WELL 80			
8. DISTANCE FROM PROPOSED LOCATION* TO NEAREST WELL, DRILLING, COMPLETED, OR APPLIED FOR, ON THIS LEASE, FT.			19. PRO	posed depth 5960		20. ROTARY OR CABLE TOOLS ROTARY		
1. ELEVATIONS (Show whet	her DF, RT, GR, etc.)					22. APPROX. DATE WORK WILL START*		
7156' ungraded	d ground					June, 198	0	
3.	P	ROPOSED CASI	NG AND	CEMENTING PROGE	RAM			
SIZE OF HOLE	SIZE OF CASING	WEIGHT PER F	700 T	SETTING DEPTH		QUANTITY OF CEMENT		
12½"	8-5/8"	24#		300 '	Cmt	Cmt. to surface		
7-7/8"	4 ¹ ₂ "	10.5# TD			300 Sx Class "G"			
					DV	Tool @ 3800' cm	t to surfac	
	roposed to dril epth will be ap				ion at	the above locat	ion.	
A 4½" p:	roduction strin	g will be	run ai	nd cemented,	or the	well plugged		
and aba	ndoned, as per	regulation	ıs, wh:	ichever test	indicate	es.		
See att	ached for perti	nent data.		RECEIVE	D	OGIV	9	
	A	UFIN	,)	150 A 150	j j	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1))	
This action is subject	to administrative on	22 /		MAT I S. GEOLOGICAL FARIAINGTON,		AS. ESPLOCIDAL SE.	North Ag	
N ABOVE SPACE DESCRIBE	PROPOSED PROGRAM: IN			g back, give data on	present prod	uctive zone and proposed		
one. If proposal is to d reventer program, if any.	rill or deepen ditectiona	lly, ive Perting	t data on	subsurface locations a	and measure	d and true vertical depths	. Give blowout	
L.	•	_						
·· ^			g.,	thern Distri	ct		<u> </u>	

*See Instructions On Reverse Side

(NMOCC

NS1-1232 2631

CONDITIONS OF APPROVAL, IF ANY:

APPROVED BY

(This space for Federal or State office use)

OIL CONSERVATION DIVISION

P. O. BOX 2088

Form C-107 Revised 10-1-78

STATE OF NEW MEXICO ENERGY AND MINERALS DEPARTMENT SANTA FE, NEW MEXICO 87501

		All distances must be	from the cuter	liaundertre of t	he Section.		
Operator			Lease				Well No.
GRACE PETROLEUM	CORPORAT	LON	CONN	IE 28			
Unit Letter Sect		Township	Range		County		
D	28	21tN	1 71	W	Rio	Arriba	
Actual Footage Location							
		North line o	md 230	fee	t from the	West	line
Ground Level Elev.	Producing For		Pool			•	Dedicated Acreage:
7156		ellup	100	crito			W/80 Acres
1130					r hachure i	marks on th	ne plat below.
2. If more than or interest and ro 3. If more than or dated by comm Yes If answer is "this form if need the state of th	one lease is yalty). Single lease of dunitization, when the construction is the construction of the constr	ifferent ownership unitization, force-pointization, force-pointization and tract downers are to the well until downers are tractions.	is dedicated poling. etc?	to the well, N/A lation which have a	have the inctually bee	n consolid	hereof (both as to working all owners been consoli- ated. (Use reverse side of nmunitization, unitization, approved by the Commis-
230		Gec.				Name Scott Position Southe Company	A. Smith Petroleum Corp. 1980
	-	28		EXHIBIT	I	shown or notes of under my is true knowledge Date Surve April Registered and/or Lag	23. 1980 d Professional Engineer and Surveyor
		PRO 2310 2640	2000 1500	1000	500 0	Certificate 3950	e No.PR IR

NTL-6 ENVIRONMENTAL STATEMENT

SURFACE USE PLAN

OPERATOR: Grace Petroleum Corporation

LEASE & WELL NAME: Connie 28 #3

LOCATION: NWNW Sec. 28-T24N-R7W (200' FNL, 230' FWL)

COUNTY & STATE: Rio Arriba County, 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 OJO Alamo 1251' Kirtland 18771 Fruitland 20001 2320' Pictured Cliffs 2460' Lewis Chacra 2815' 3161' La Ventana 3921' Cliff House 4107' Menefee 4626' · Point Lookout 4891' Mancos 5679 Upper Gallup Middle Gallup 5751' 5851' Lower Gallup

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 Pictured Cliffs (2320'), Chacra Zone (2815'), Cliff House (3921'), Menefee (4107'), and Gallup (5679').

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' 4½", K-55, 10.5#/ft. new to TD, approximately 5960'.

(continued)

- 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)

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.

Anticipated Starting Date and Duration of the Operations

Anticipated spud date is August, 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 I 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 #3 location from Bloomfield, N.M., go southeast on New Mexico Highway 44 for approximately 48 miles.
 Turns north onto dirt road marked by BCO mailbox. Continue on dirt road for approximately 5 miles, turn right (east, immediately before BCO camp). Go 1.1 miles and turn right at second tank battery. Follow road two (2) miles to 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 2 shows roads within 1-mile radius.

F. Plans for improvement and/or maintenance of existing roads: Improvement and/or maintenance will be according to BLM specification.

- 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 will be necessary. A 2 - 5' cut will be taken from all corners of the location and moved toward the center of the location, 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 4. shows existing operator owned facilities within a 1-mile radius.

B. New facilities in the event of production.

It is proposed to utilize existing facilities at Grace Federal 21 #1 location approximately ½ mile north-east 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 2 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. Or, a temporary pipeline will be laid from the above well to the well location.

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 $\frac{1}{2}$ mile 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.

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 BIM 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 BIM.
- 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 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, narrow-leaf 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-093 Cultural Management Program, San Juan campus, New Mexico State University.

(continued)

12. Operator's Field Representative

Benjamin C. Stromberg
3 Park Central - Suite 200
1515 Arapahoe Street
Denver, CO 80202

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

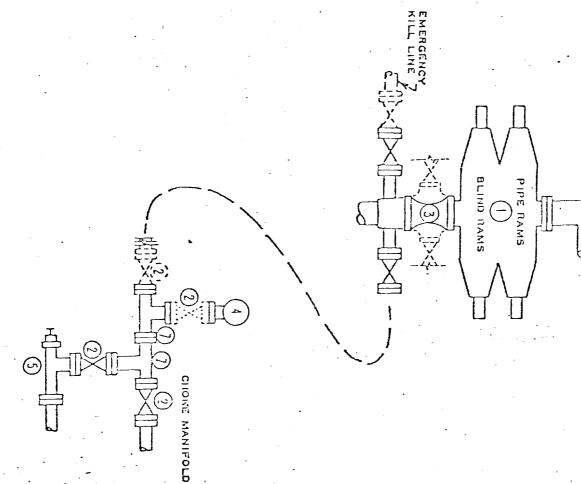
13. Certification

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 Corporation 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 Operationa Manager





- SERIES 900 RAM-TYPE BOP
- (2) 211 SERIES 900 VALVE
- SERIES 900 DRILLING SPOOL

(0)

- **(2**) 2" MUD PRESSURE GAUGE
- (S) 211 SERIES 900 CHOKE

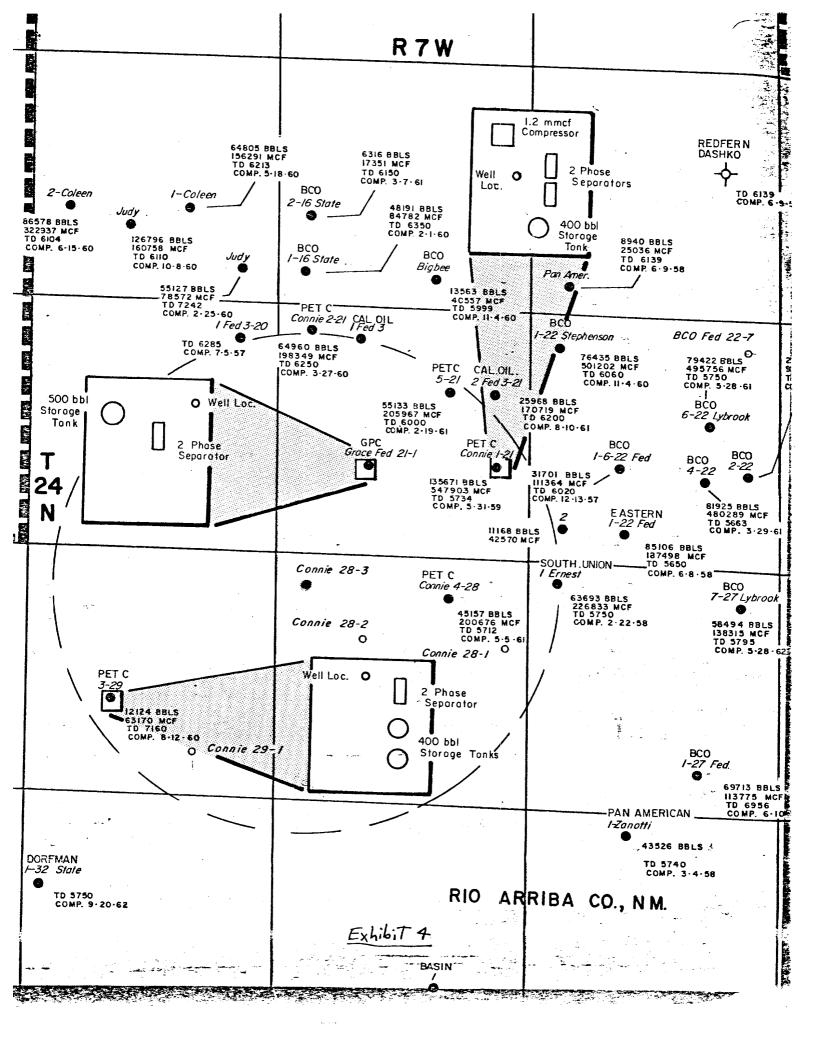
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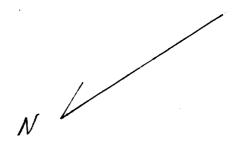
- 2" SERIES 900 STEEL TEE 2" SERIES 900 CHECK VALVE
- NOTES:
- 1. 3000 PSI WP CLAMP HUBS MAY BE SUBSTITUTED FOR FLANGES
- THE VALVES FLANGED TO THE BOP RUN MUST BE CAPAULE OF BEING OPENED AND CLOSE ON POWER FAILURE AND BE CAPADLE OF BEING VALVES MAY DE EITHER HAND OR POWER OPERATED,

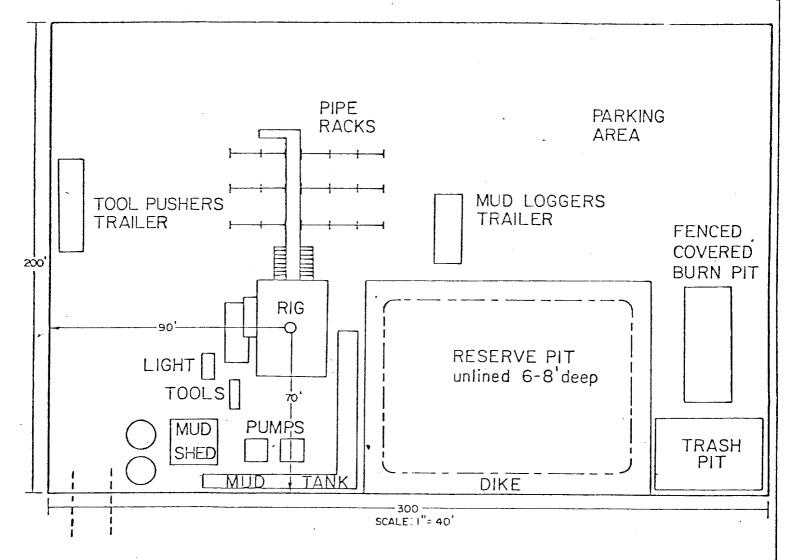
..... OPTIONAL EQUIPMENT

BLOWOUT PREVENTER HOOK-UP 3000 PSI WORKING PRESSURE

EXHIBIT NO. 3







Proposed Access Road

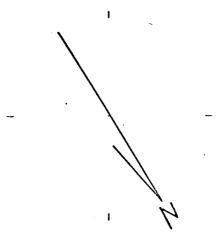
EXHIBIT 5

Connie 28 #3 NW NW Sec. 28-T24N-R7W Rio Arriba County, New Mexico

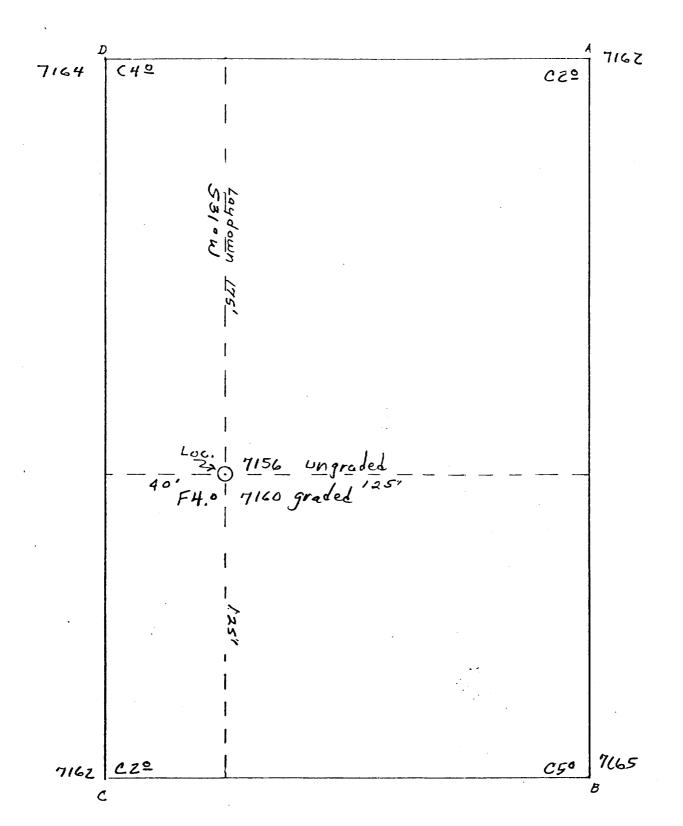


GRACE Petroleum Corp.
Rocky Mountain Region
1515 Arapahoe Suite 200 Three Park Central
Denver, Colorado 80202 (303) 825-8193

Profile for GRACE PETROLEUM CORP. #3 COMNIE 28 200'FNL 230'FWL Sec. 28-T2hn-R7W RIO ARRIBA COUNTY, NEW MEXICO



Scale: 1"=40'



ELLILIT6

