| <b>.</b> . | <b>•</b> • • • •  | •                    |                         |                      |
|------------|---|----------------------|-------------------------|----------------------|
| Footage    | Description   | Dry Hole             | Completion              | Total                |
|            | Tangible  |                      |                         |                      |
|            | Conductor Pipe  |                      |                         |                      |
| 130        | Surface Casing, 7", 20#, J-55<br>Intermediate Casing, ", #,<br>Intermediate Casing, ", #,                 | \$1,668.00           |                         | \$1,688.6            |
| 1433       | Production Csq. 4 1/2", 10.5#, J-55   |                      | \$5,090.80              | \$5,090.0            |
| 1283       | Production Csg, ", H,<br>Production Csg, ", H,<br>Prod. Tubing, 2 3/8", 4.74, J-55<br>Prod. Tubing, ", H, |                      | \$2,492.88              | \$2,498.8            |
|            | Wellhead<br>Packer/Anchor   | \$682.00             | \$670.80                | \$1,278.0            |
|            | Artificial Lift, Subsurface<br>Artificial Lift, Surface<br>Tanh Battery                                   |                      |                         |                      |
|            | Gther Equipment   |                      | \$21,508.80             | \$21,508.0           |
|            | Total tangible<br>WI percent of Tangible  | \$1,682.88           | \$25,758.88             | \$31,350.8           |
|            | Intangitle  | 115 (15 DD           |                         |                      |
|            | Feetage Drilling:1433 ft. 68.50 \$/ft.<br>To here Drilling: 1433 ft. 68.50 \$/ft.                         | · ·                  |                         | \$12,188.8           |
|            | - Day Work Drilling: 1 Days E 600 \$70a;  |                      | \$1,588.88              | \$888.0<br>*1 500 0  |
|            | <ul> <li>Completion Rig: 1 Days # 1500 \$/da</li> <li>Rig Noving Cost</li> </ul>                          | ay .                 | *1,000.00<br>\$1,588.88 | ▶1,306.0<br>at 533 0 |
|            | Roustabout and Miscellaneous Labor  | 41 G37 G7            | *1,000.00               | *1,005.0             |
|            | Trucking  | ¢1,000,00<br>¢250,00 | \$482.82                | \$650.0              |
|            | Koads, Location, Damages, Clean Up  |                      |                         | \$6, <b>8</b> 88.8   |
| • -        | Mud, Dil, Water, Chemicals<br>Drillstem tests   | *0,000.00            | \$588,93                |                      |
|            | Openhole Logging  | \$2,888.08           |                         | \$2,883.8            |
| •          | Cementing, Float Equipment  | \$1,108.08           | \$2,250.00              | \$3,358.0            |
|            | Bits<br>Fuel  |                      | \$362.00                | \$368.6              |
| -          | Kental Equipment<br>Coring  |                      | \$1,368.80              | \$1,360.0            |
| · ·        | Cased Hole Logging, Perforating   |                      | \$2,385.68              | \$2,308.0            |
| 9          | Acidizing, Fracturing<br>Geological Services  |                      | \$19,708.80             | \$19,788.6           |
| )<br>•     | Engineering Services<br>Mud Logger  | \$2,888.88           | \$2,000.00              | \$4,080.0            |
|            | Miscellaneous & Unforeseen: 10% of I  | DC \$2,533.80        | \$3,381. <del>0</del> 8 | \$5,914.8            |
|            | Total Intangible<br>WI percent of Intangible  | \$27,863.00          | \$37,191.00             | \$65,854.8           |
| i.<br>i    | Grand Total Cost<br>WI percent of Total Cost  | \$29,463.80          | \$66,941.08             | \$96,464.0           |

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OIL CONSERVICE THE SWO

BEFORE EXAMINE (

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SW/4, SEC.5, TEEN, RITH, AMER SEA JUER CO., RT

| (November 1983)<br>(formerly 9-331C)   | UNIT   | TED STATES  | 5   | (Oth  | er instruct<br>reverse sid                               |   | Form approved.<br>Budget Bureau No. 1004-0136<br>Expires August 31, 1985  |
|--|--|---|---|---|--|---|---|
|  | DEPARTMEN  |   |   | २   |  |   | 5. LEASE DESIGNATION AND SERIAL NO.   |
|  |  | LAND MANAG  |   |   |  |   | SF078062  |
|  | N FOR PERMIT   | TO DRILL, D   | DEEPEN,   | OR PL   | UG B   | ACK   | 6. IF INDIAN, ALLOTTEE OF THIS NAME   |
|  |  | DEEPEN [  |   | PLU   | IG BAC   | к 🗆   | 7. UNIT AGREEMENT NAME  |
| b. TIPE OF WELL<br>OIL C.<br>WELL W  | AS OTHER   |   | SINGLE  | X   | MULTIPL  | •   | 8. FARM OR LEASE NAME   |
| L NAME OF OPERATOR   |  |   |   | <u> </u>  |  |   | Gracia Navajo 5K  |
| PRO New Mer  | kico, Inc.   |   |   |   |  |   | 9. WELL NO.   |
|  | ace Avenue, S  | anta Fe. N  | M 875   | 01  |  |   | 10. FIBLD AND POOL, OB WILDCAT  |
| L LOCATION OF WELL (R  | eport location clearly and   |   |   |   | its.*)   |   | Basin Fruitland Coa   |
| At survey<br>1845 FSL -<br>At proposed prod. son   |  |   |   |   |  |   | 11. SBC., T., R., M., OS BLK.<br>AND SUBVET OR AREA<br>Sec. 5, T25N, R11W,  |
| Same   |  |   |   |   |  |   | NMPM  |
|  | outh of Bloom  |   | t offics*   |   |  |   | 12. COUNTY OF PARISE 13. STATE<br>San Juan NM   |
| 15. DISTANCE FROM FROM<br>LOCATION TO NEARES   | 08804  |   | 16. NO. OF  | ACRES IN  | LRASE  |   | OF ACERS ASSIGNED   |
| PROPERTY ON LEASE I<br>(Also to nearest drip   | LINE, FT.<br>g. unit line, if any)   | 792   |   | 152   | 0  | 320   | W/2   |
| 18. DISTANCE FROM PROF<br>TO NEAREST WELL D<br>OR AFFLIED FOR. ON TH   | RILLING, COMPLETED.<br>18 LEASE, FT.   | 1344  | 19. <b>PEOPOSI</b><br>1400  |   |  |   | ay on cannot toold  |
| 21. ELEVATIONS (Show wh  | 6324 GL  |   |   |   |  |   | 22. APPEOX. DATE WORE WILL START*   |
| 23.  |  | PROPOSED CASU   | NG AND CE   | CENTING   | PROGRA   | <u> </u>  | December 1, 1992  |
| SISE OF HOLS   | SITE OF CASING   | WEIGHT PEL P  | 007   | BETTING DI  | IPTH   |   | QUANTITY OF CEMENT  |
| 8 3/4"   | 7"   | 20#   |   | 130   | 1  | 50sks   | (1.18gift/sk)cement to surf   |
| 6 1/4"   | 4 1/2"   | 10.5#   |   | 1400  |  | 1 <u>25sks</u> .                                | Lead (1.74 cuft/sk<br>Tail (1.18cuft/sk)cem.tos   |
| is proposed<br>ne and gel to<br>ppf casing a   | o a depth of   | 130' KB.  | It is   | then  | propo:<br>Class  | sed t <sup>.</sup><br>B +                       | o run 130' of 7", J-55<br>2% CaCl2 + 1/4#/sk  |
| ne and gelito<br>ppf casing a<br>ocele. Exces<br>min. prior t<br>of 1400' KB.<br>casing and<br>ocele followe   | o a depth of<br>and cement to<br>ss volume wil<br>to drilling s<br>E-Logs to<br>cement to su<br>ed by 50 sxs   | 130' KB.<br>surface v<br>l be 100%.<br>hoe. It i<br>be run at<br>rface with<br>of Class H                                     | It is<br>with 50<br>WOC,<br>is then<br>TD. T<br>n 125 s<br>3 + 2%           | then<br>sxs<br>then<br>prop<br>hen r<br>xs of<br>CaCl2          | Class<br>press<br>osed<br>un 14<br>65/3                  | B +<br>sure<br>to dr<br>D0' o<br>5/6 +<br>kcess | 2% CaCl2 + 1/4#/sk<br>test to 600 psi for<br>ill a 6 1/4"hole to a<br>f 4 1/2", J-55, 10.5<br>2% CaCl2 + 1/4#/sk<br>volume will be 75%. |
| ne and gel'to<br>ppf casing a<br>ocele. Exces<br>min. prior t<br>of 1400' KB.<br>casing and<br>ocele followe<br>12 hours ar                                      | a depth of<br>and cement to<br>as volume wil<br>to drilling s<br>E-Logs to<br>cement to su<br>ed by 50 sxs<br>ad pressure to                                     | 130' KB.<br>surface v<br>l be 100%.<br>hoe. It i<br>be run at<br>rface with<br>of Class H<br>est to 150                       | It is<br>with 50<br>WOC,<br>is then<br>TD. T<br>n 125 s<br>3 + 2%           | then<br>sxs<br>then<br>prop<br>hen r<br>xs of<br>CaCl2          | Class<br>press<br>osed<br>un 14<br>65/3                  | B +<br>sure<br>to dr<br>D0' o<br>5/6 +<br>kcess | 2% CaCl2 + 1/4#/sk<br>test to 600 psi for<br>ill a 6 1/4"hole to a<br>f 4 1/2", J-55, 10.5  |
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| me and gelito<br>ppf casing a<br>ocele. Exces<br>min. prior t<br>of 1400' KB.<br>E casing and<br>ocele followe<br>C 12 hours ar<br>ee Drilling F                 | a depth of<br>and cement to<br>as volume wil<br>to drilling s<br>E-Logs to<br>cement to su<br>ed by 50 sxs<br>ad pressure to                                     | 130' KB.<br>surface v<br>l be 100%.<br>hoe. It i<br>be run at<br>rface with<br>of Class F<br>est to 150<br>details)           | It is<br>with 50<br>WOC,<br>is then<br>TD. T<br>n 125 s<br>3 + 2%           | then<br>sxs<br>then<br>prop<br>hen r<br>xs of<br>CaCl2          | Class<br>press<br>osed<br>un 14<br>65/3                  | B +<br>sure<br>to dr<br>D0' o<br>5/6 +<br>kcess | 2% CaCl2 + 1/4#/sk<br>test to 600 psi for<br>ill a 6 1/4"hole to a<br>f 4 1/2", J-55, 10.5<br>2% CaCl2 + 1/4#/sk<br>volume will be 75%. |
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Science of Astronomic District (Uffice State Laters - 4 contras File Laters - 3 contras

P.O. Box 1980. Home. NM 12240

P.O. Driver DD. Anima NM 18210

State of New Matters Energy, Minerals and Natural Resources Department

## OIL CONSERVATION DIVISION

P.O. Box 2088

Sama Fe. New Mexico 87504-2088

VIET DIALE DE VIENNE NON CALLO VIETRICE III VICCO Ruo INTERN RAL AMOR NM 87410

### WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the quier counceries of the section

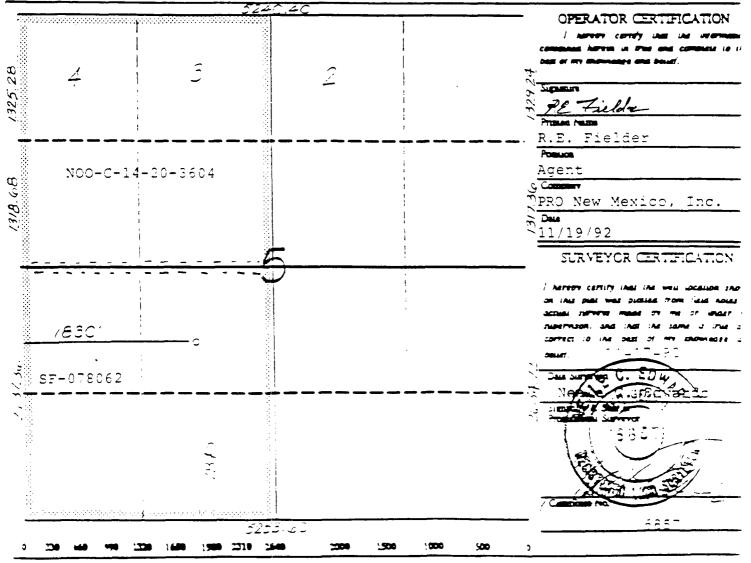
| Opening       | PRO Mew Mexico Inc. |      | Gracia        | Navajo | 5K      |                  | in the second | 17 <b>42</b><br>42 |               |          |
|---------------|---------------------|------|---------------|--------|---------|------------------|---|--------------------|---------------|----------|
| Unit Letter   | `                   | 5    | 25 Nor        | th     | 11 Wes  | t                | SMEM :  | Sar                | Juan          |          |
| 1845          |                     |      | South         |        | 18301   |                  | 'est (7088 858  | Uest               | - 5948        |          |
| German Lawren | Dav.                | 2101 | ting receives |        | 7004    |                  |   |                    | Designed Acts |          |
| 5324          | r                   | Frui | tland Coal    |        | Basin B | Fruitland        | Coal  |                    | 320           | ACTES W/ |
|               |                     | -    |               | -      |         | CE LAS PLE BRIDE |   |                    |               |          |

2 2 MORe that one many a designed to the weat, catizes such that elementy the ownership thereof (both as to working marries and reveally).

# 1. If 2009 that due uses of different oversities is determine to the well, have the manual of all owners been contradicate by contradication, uncontradication, forth-energy, etc.?

Yes Yes Yes 's we want a 'ver' type of constantiants Force-pooling pending If any s 'so' is the original and that descriptions which are estimaty the examplement. (Up reverse and of the form of successory.

No addressis will be support to the wed user all interests are been constructed (by construction), interesting, forces-scould, or otherwise) of URL 5 act-structure task, emissioning such interest, has been approved by the Diverse.



PRO New Mexico, Inc. Gracia Navajo 5K No.2 1845' FSL - 1830' FWL Section 5, T25N, R11W, NMPM San Juan Co., New Mexico

Field: Basin Fruitland Coal Elevation: 6324' GL Geology: Formation Tops: San Jose - Surface - 373' (Referenced: 6336' K.B.) Ojo Alamo - 528' Kirtland Fruitland <del>-</del> 750' Fruitland Coal - 996' Pictured Cliff - 1262' Total Depth P.B. - 1360' - 1400' Total Depth Logging Program: Compensated Density - Neutron logs with Gamma Ray will be run at TD. Drilling : Contractor: Not Assigned Toolpusher: Not Assigned Operator's Representative: Property Management & Consulting, Inc. Mud Program: 0 - 130': Spud mud of gel and lime. 130'- 1400': Fresh water, or fresh water low solids mud. Mud weight - 9.5 to 10.0 ppg, as necessary to control well. 35-40 sec/qt. viscosity. 6-8 cc water loss. Materials: Casing Program: Depth Set Casing Size WT. & Grade Hole Size 8 3/4" 7 " 20# , J-55 130' 10.50# , J-55 4 1/2" 6 1/4" 1400'

Float Equipment:

7" surface casing -Texas pattern guide shoe. Threadlock guide shoe.

4 1/2" production casing -Texas pattern guide shoe. Self fill insert float valve run one joint above shoe. Threadlock shoe and float valve. Five (5) bow spring centralizers run every other joint above shoe.

> Turbolizers will be run through the Ojo Alamo on every joint, plus: 1-60' above Ojo Alamo top & 1-60' below Ojo Alamo bottom.

#### Wellhead Equipment:

7" 8rd X 4 1/2" slip type 2000 W.P. casinghead. 4 1/2" 8rd X 2 3/8: slip type 2000 W.P. tubinghead.

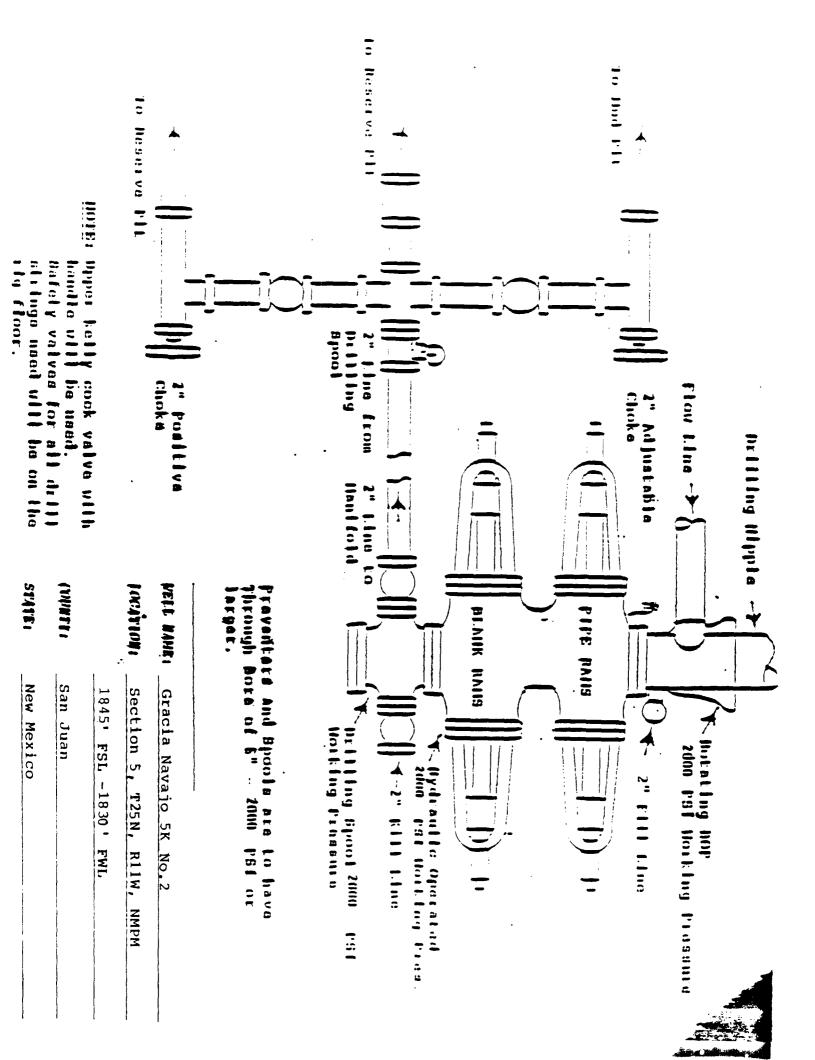
#### <u>Cement Program</u>:

7" surface casing -50 sacks (60 cubic ft) B + 2% CaCl2 +
1/4# per sack flocele (15.6 ppg, 1.19
yield). 100% excess to circulate to
surface. WOC for 8 hours if 500 psi compressive
strength is obtained (based on confirmed rheology
tests). Pressure test to 600 psi for 30 minutes
prior to drilling surface shoe.

4 1/2" production -125 sacks (216 cubic ft) 65/35 B Poz +6% gel + 1/4# per sack flocele + 2% CaCl2 (12.7 ppg, 1.73 yield) followed by 50 sacks (60 cubic ft) B + 2% CaCl2 (15.6 ppg, 1.19 yield). 75% excess to circulate to surface. WOC for 12 hours. Pressure test to 1500 psi for 30 minutes. Run temperature survey at eight (8) hours if cement does not circulate.

### Miscellaneous:

Operate pipe rams daily and record in tour reports. Operate blind rams on each trip and record in tour reports. 4 1/2" casing rams are to be installed prior to running the production casing.



Operator: PRO New Mexico, Inc. Lease Name: Gracia Navajo Lease Number: SF-078062 Location: 1845' FSL - 1830' FWL, Section 5, T25N, R11W, NMPM San Juan Co., New Mexico

- 1. Existing Roads:
- A. See attached Area Map and Vicinity Plat.
- B. Route and distance from nearest town: Follow Hwy. 44 south from Bloomfield, New Mexico for approximately 13 miles. Turn right on San Juan County Road 7150 and follow for 7 miles. Turn right on San Juan County Road 7250 and follow for 1 3/4 miles. Turn right and follow road for 2/10 mile. Turn right and follow road for 1/10 mile. Turn right and go 150' to location.
- C. This well will require 675' of new access road.
- D. Exploratory Well N/A
- E. Development Well all existing roads are shown on the attached Area and Vicinity Maps.
- F. Plans for improvement and maintenance Existing roads are bladed dirt. All existing roads will be maintained in their present condition during the drilling and completion of this well.
- 2. Access Road: (existing)
- A. Width: 20' running surface.
- B. Maximum Grade: 2%
- C. Turnouts: None anticipated.
- D. Drainage Design: As per BLM operating standards.
- E. Upgrade existing road: 0'. New construction: 675' of new location access road will be required.
- F. Location and size of culverts: None.
- G. Major cuts and fills: None.
- H. Surface Materials: Gates None. Cattleguards None. Fence cuts - None. Road base - None.
- I. Centerline flagging: New access road will be centerline flagged.
- J. PRO New Mexico, Inc. applies for new road ROW of 675' of location access road and 1320 ft. of existing road ROW in the SW/4 of Section 5, T25N, R11W as shown on the Vicinity Map.
- 3. Location of Existing Wells: This is a development location. All existing and proposed wells within a one mile radius are shown on the attached Vicinity Plat.
- 4. Location of Existing and Proposed Production Facilities:
- A. Existing facilities: Amoco and Giant Oil and Gas Companies own or control collectively 16 gas wells and 1 oil well. Each location has a separator. Some have condensate storage tanks owned by the operators. El Paso Natural Gas Company, Giant E & P and Gas Company of New Mexico own and operate

meter runs on each location. El Paso and Giant E & P and GCNM own and operate several miles of gas gathering lines within a one mile radius of the proposed well.

- B. Proposed facilities: This well location will have a separator, meter run, and one 4' high x 16' diameter fiberglass water storage pit. A gas sales line will be run to one of the existing gathering lines located in the W/2 of Section 5. Exact connection will be determined at a later date.
- C. Plans for Rehabilitation of the Surface: All surface areas not needed for operation of the well will be recontoured to blend with the existing topography and seeded with a mixture specified by the surface managing agency. All pits will be fenced until they are covered.
- 5. Location and Type of Water Supply:
- A. Location: Bloomfield, NM
- B. Supply: city
- C. Method of transportation: Truck.
- D. Water wells to be drilled: None.
- 6. Source of Construction Materials: All construction materials will come from the location.
- 7. Methods of Handling Waste Disposal:
- A. Cuttings and drilling fluids: Cuttings will be placed in a 8 mil lined reserve pit. Drilling fluids will be kept in the reserve pit. All cuttings will be pushed into the reserve pit and buried during the clean up operation. The drilling fluid will be allowed to dry in the reserve pit and buried during the clean up operation.
- B. Produced fluids: Tanks will be used for the storage of all produced liquids during testing and production. Oil will be retained in the tanks until it can be treated and sold. Water from testing operations will be drained into the reserve pit. Produced water will be stored in a fiberglass pit on the location and hauled to a commercial disposal as necessary. Gas will be flared during testing and sold to a pipeline during production.
- C. Sewage: Sewage will be contained in a portable chemical latrine.
- D. Garbage: Garbage will be contained in a trash cage. This will be hauled to the nearest dump facility and disposed of upon completion of the well.
- E. Wellsite Clean Up: Upon completion of the drilling operation, all trash will be gathered up and placed in the trash cage. The pits will be fenced with a woven wire material on three sides during drilling. The fourth side will be fenced upon completion of the drilling operation. The pits will remain fenced until the pits have dried enough to backfill.
- 8. Ancillary Facilities: None.

- 9. Wellsite Layout: Cuts and fills, location of pits and drilling equipment, and orientation are shown on the attached Wellsite Layout.
- 10. Plans for Restoration of the Surface:
  - A. Backfilling of the pits will be done as soon as they dry sufficiently. Contouring will be done in conjunction with the backfilling. Waste disposal will commence as soon as the drilling is complete. Topsoil will be stockpiled.
  - B. Revegetation will be done during the appropriate season. This will be conducted using BLM specified seed mixtures and planting times. All areas not necessary for production operations will be seeded.
  - C. All drilling pits will be fenced until they are covered. Any oil accumulation will be removed or overhead flagging installed to protect waterfowl.
  - D. Rehabilitation will commence when drilling is completed. Completion of rehabilitation depends on the weather and the time it takes the pits to dry.
- 11. Other Information:
  - A. This location is south of the Navajo Indian Irrigation Project. Vegetation is sage brush.
  - B. Surface use and Ownership: Grazing/Tribal Trust.
  - C. Proximity of water, dwellings, etc. Nearest Water - 2 miles - water well Nearest Dwelling - 2 miles.
- 12. Lessee or Operators Field Representatives:

J.E. Gallegos PRO New Mexico, Inc. 141 East Palace Ave. Santa Fe, NM 87501

Property Management & Consulting, Inc. 1155 Dowell Road Farmington, NM 87401 505-325-5220

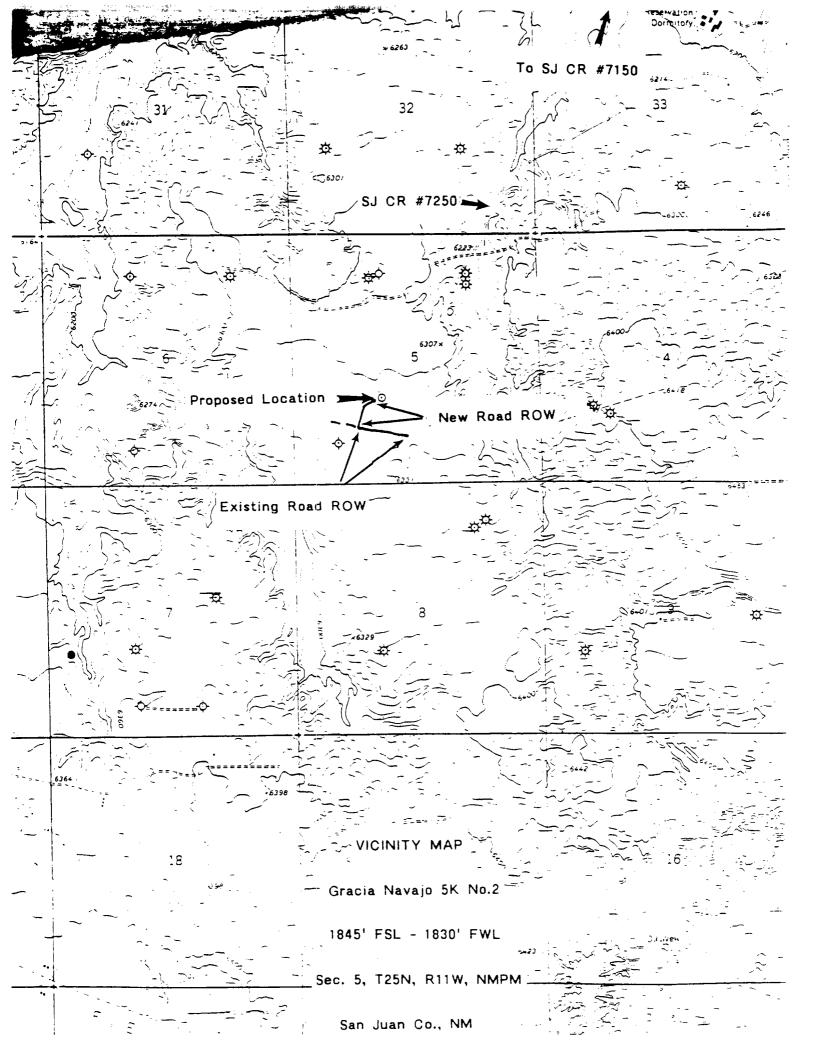
13. Certification:

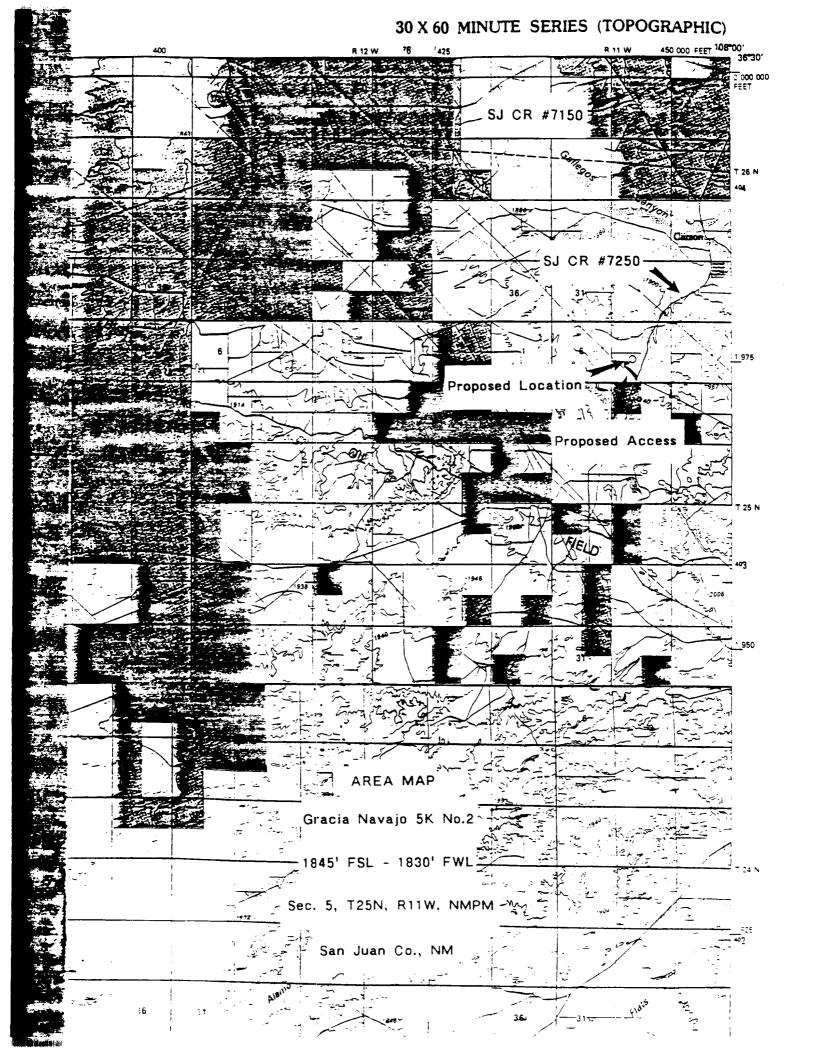
I hereby certify that I, or persons under my supervision, have inspected the proposed drillsite; that I am familiar with the conditions which presently exist; that the statements made in this plan are, to the best of my knowledge, true and correct; and that the work associated with the proposed operations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

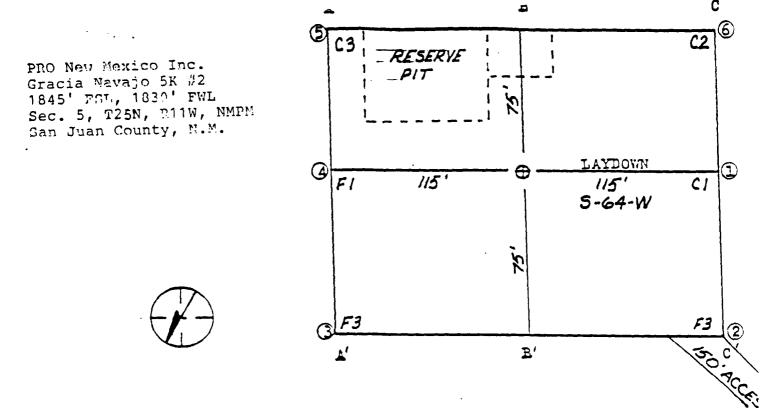
<u>//.23.92</u> Date

Pro New Mexico, Inc.

By: J.E. Galleges, President







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## PRO NEW MEXICO, INC. LOCATION LAYOUT

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GRACIA NAVAJO 5K NO. 2 1845' FSL - 1830' FWL SEC. 5, T25N, R11W, NMPM SAN JUAN CO., NEW MEXICO



