

Property Management and Consulting, Inc.
Well Cost Estimate

Prepared By: JEFFREY J. ALBERS

Footage	Description	Dry Hole	Completion	Total
Tangible				
	Conductor Pipe			
130	Surface Casing, 7", 20#, J-55	\$1,000.00		\$1,000.00
	Intermediate Casing, ", #,			
	Intermediate Casing, ", #,			
1433	Production Csg, 4 1/2", 10.5#, J-55		\$5,090.00	\$5,090.00
	Production Csg, ", #,			
	Production Csg, ", #,			
1283	Prod. Tubing, 2 3/8", 4.7#, J-55		\$2,490.00	\$2,490.00
	Prod. Tubing, ", #,			
	Wellhead	\$600.00	\$670.00	\$1,270.00
	Packer/Anchor			
	Artificial Lift, Subsurface			
	Artificial Lift, Surface			
	Tank Battery			
	Other Equipment		\$21,500.00	\$21,500.00
	Total tangible	\$1,600.00	\$29,750.00	\$31,350.00
	WI percent of Tangible			

Intangible				
	Footage Drilling: 1433 ft. @ 0.50 \$/ft.	\$12,100.00		\$12,100.00
	Day work Drilling: 1 Days @ 600 \$/day	\$600.00		\$600.00
	Completion Rig: 1 Days @ 1500 \$/day		\$1,500.00	\$1,500.00
	Rig Moving Cost		\$1,500.00	\$1,500.00
	Roustabout and Miscellaneous Labor	\$1,000.00	\$2,000.00	\$3,000.00
	Trucking	\$250.00	\$400.00	\$650.00
	Roads, Location, Damages, Clean Up	\$6,000.00		\$6,000.00
	Mud, Oil, Water, Chemicals		\$500.00	\$500.00
	Drillstem tests			
	Openhole Logging	\$2,000.00		\$2,000.00
	Cementing, Float Equipment	\$1,100.00	\$2,250.00	\$3,350.00
	Bits		\$300.00	\$300.00
	Fuel			
	Rental Equipment		\$1,360.00	\$1,360.00
	Coring			
	Cased Hole Logging, Perforating		\$2,300.00	\$2,300.00
	Acidizing, Fracturing		\$19,700.00	\$19,700.00
	Geological Services			
	Engineering Services	\$2,000.00	\$2,000.00	\$4,000.00
	Mud Logger			
	Miscellaneous & Unforeseen: 10% of IDC	\$2,533.00	\$3,381.00	\$5,914.00
	Total Intangible	\$27,663.00	\$37,191.00	\$64,854.00
	WI percent of Intangible			
	Grand Total Cost	\$29,463.00	\$66,941.00	\$96,404.00
	WI percent of Total Cost			

Well Name : GRACIA NAVAJO 52 NO.2
Operator : PRC NEW MEXICO, INC.

Formation : FRUITLAND COAL
Location : LOCATION IS NOT STAKED
SW/4, SEC.5, T25N, R11W, N40E
SAN JUAN CO., NM

BEFORE EXECUTION OF
OIL CONSERVATION ACT
CASE NO. 10615

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

SUBMIT IN TRIPPLICATE*
(Other instructions on
reverse side)

Form approved.
Budget Bureau No. 1004-0136
Expires August 31, 1985

APPLICATION FOR PERMIT TO DRILL, DEEPEN, OR PLUG BACK

1A. TYPE OF WORK

DRILL ☒

DEEPEN ☐

PLUG BACK ☐

B. TYPE OF WELL

OIL
WELL ☐

GAS
WELL ☒

OTHER

SINGLE
ZONE ☒

MULTIPLE
ZONE ☐

2. NAME OF OPERATOR

PRO New Mexico, Inc.

3. ADDRESS OF OPERATOR

141 E. Palace Avenue, Santa Fe, NM 87501

4. LOCATION OF WELL (Report location clearly and in accordance with any State requirements.)*

At surface
1845' FSL - 1830' FWL

At proposed prod. zone
Same

14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE*

21 Miles South of Bloomfield, NM

15. DISTANCE FROM PROPOSED*

LOCATION TO NEAREST
PROPERTY OR LEASE LINE, FT.
(Also to nearest drg. unit line, if any)

792

16. NO. OF ACRES IN LEASE

1520

17. NO. OF ACRES ASSIGNED

TO THIS WELL
320 W/2

18. DISTANCE FROM PROPOSED LOCATION*

TO NEAREST WELL DRILLING COMPLETED.
OR APPLIED FOR ON THIS LEASE, FT.

1344

19. PROPOSED DEPTH

1400'

20. ROTARY OR CABLE TOOLS

Rotary

21. ELEVATIONS (Show whether DF, RT, GR, etc.)

6324 GL

22. APPROX. DATE WORK WILL START*

December 1, 1992

23.

PROPOSED CASING AND CEMENTING PROGRAM

SIZE OF HOLE	SIZE OF CASING	WEIGHT PER FOOT	SETTING DEPTH	QUANTITY OF CEMENT
8 3/4"	7"	20#	130'	50 sks. (1.18 cu ft/sk) cement to surf.
6 1/4"	4 1/2"	10.5#	1400'	125 sks. Lead (1.74 cu ft/sk)
				50 sks. Tail (1.18 cu ft/sk) cem. to surf.

It is proposed to spud into the San Jose formation and drill an 8 3/4" hole with lime and gel to a depth of 130' KB. It is then proposed to run 130' of 7", J-55, 20 ppf casing and cement to surface with 50 sxs Class B + 2% CaCl₂ + 1/4#/sk flocele. Excess volume will be 100%. WOC, then pressure test to 600 psi for 30 min. prior to drilling shoe. It is then proposed to drill a 6 1/4" hole to a TD of 1400' KB. E-Logs to be run at TD. Then run 1400' of 4 1/2", J-55, 10.5 ppf casing and cement to surface with 125 sxs of 65/35/6 + 2% CaCl₂ + 1/4#/sk flocele followed by 50 sxs of Class B + 2% CaCl₂. Excess volume will be 75%. WOC 12 hours and pressure test to 1500 psi for 30 min. prior to completing.

(See Drilling Procedure for details)

Surface ownership is Tribal Trust

24.

SIGNED

RE Fields

TITLE Agent

DATE

11/20/92

(This space for Federal or State office use)

PERMIT NO.

APPROVAL DATE

APPROVED BY

TITLE

CONDITIONS OF APPROVAL, IF ANY:

BEFORE EXAMINED ONLY

DATE

OIL CONSERVATION DIVISION

EXHIBIT NO.

11

*See Instructions On Reverse Side

Title 18 U.S.C. Section 1001, makes it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

Submit to Addressee
District Office
State Lands - 4 copies
Fee Lands - 3 copies

State of New Mexico
Energy, Minerals and Natural Resources Department

Form C-102
Revised 1-1-89

OIL CONSERVATION DIVISION

P.O. Box 2088

Santa Fe, New Mexico 87504-2088

INTEREST 1

P.O. Box 1980, Hobbs, NM 88240

INTEREST 2

P.O. Drawer DD, Artesia, NM 88210

INTEREST 3

1000 Rio Arriba Rd., Alamogordo, NM 87410

WELL LOCATION AND ACREAGE DEDICATION PLAT

All Distances must be from the outer boundaries of the section

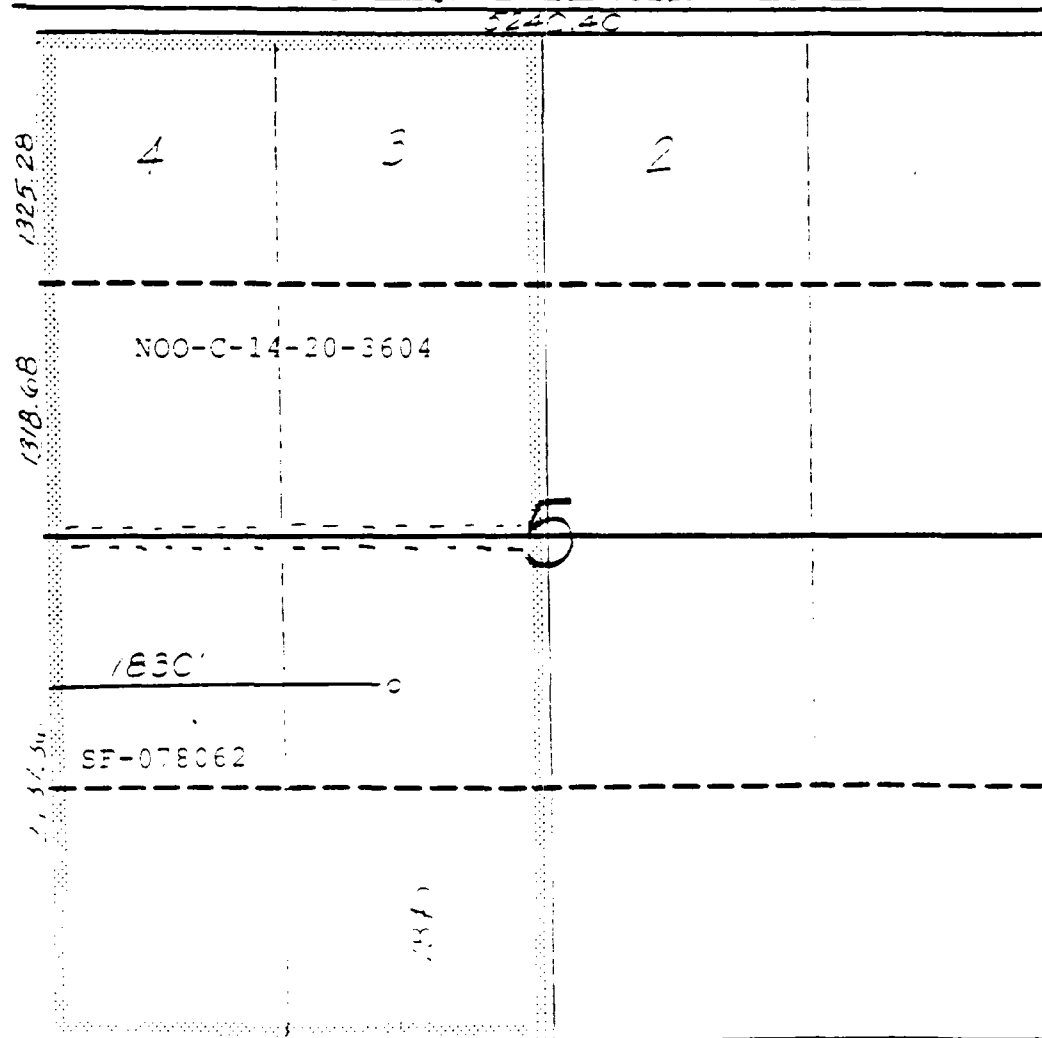
Operator	PRO New Mexico Inc.		Gracia Navajo 5K	Well No.	42
Unit	Section	Township	Range	County	
	5	25 North	11 West	San Juan	
Actual Footage Location of Well:					
1845'	East from the	South	1830'	East from the	West
Ground Level Elev.					
6324'	Producing Formation	Pool	Dedicated Acreage		
	Fruitland Coal	Basin Fruitland Coal	320	Acres W/	

- Outline the acreage dedicated to the subject well by concrete bench or accurate survey on the plat below.
- If more than one lease is dedicated to the well, outline each and identify the operating interest (both as to working interest and royalty).
- If more than one lease of different ownership is dedicated to the well, have the interest of all owners been consolidated by communitization, unitization, joint-venturing, etc.?

☐ Yes ☒ No If answer is "yes" type of consolidation Force-pooling pending

If answer is "no" list the owners and tract descriptions which have already been consolidated. (Use reverse side of this form if necessary.)

No allowance will be assigned to this well until all interests have been consolidated (by communitization, unitization, joint-venturing, or otherwise) or until a non-consolidated tract, encompassing such interest, has been approved by the Division.



OPERATOR CERTIFICATION

I HEREBY CERTIFY THAT THE INFORMATION CONTAINED HEREIN IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Signature
R.E. Fielder
Printed Name
R.E. Fielder
Position
Agent
Company
PRO New Mexico, Inc.
Date
11/19/92

SURVEYOR CERTIFICATION

I HEREBY CERTIFY THAT THE WELL LOCATION AND ON THIS DATE WAS DULY LOCATED FROM THE ROADS, SECTION, TOWNSHIP, RANGE BY ME OR UNDER SUPERVISION, AND THAT THE SAME IS TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

Date Surveyed C. 204
Name NEW MEXICO
Signature
Professional Surveyor
1830'

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
(Referenced: 6336' K.B.)	Ojo Alamo	- 373'
	Kirtland	- 528'
	Fruitland	- 750'
	Fruitland Coal	- 996'
	Pictured Cliff	- 1262'
	Total Depth P.B.	- 1360'
	Total Depth	- 1400'

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:

<u>Hole Size</u>	<u>Depth Set</u>	<u>Casing Size</u>	<u>WT. & Grade</u>
8 3/4"	130'	7 "	20# , J-55
6 1/4"	1400'	4 1/2"	10.50# , J-55

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:

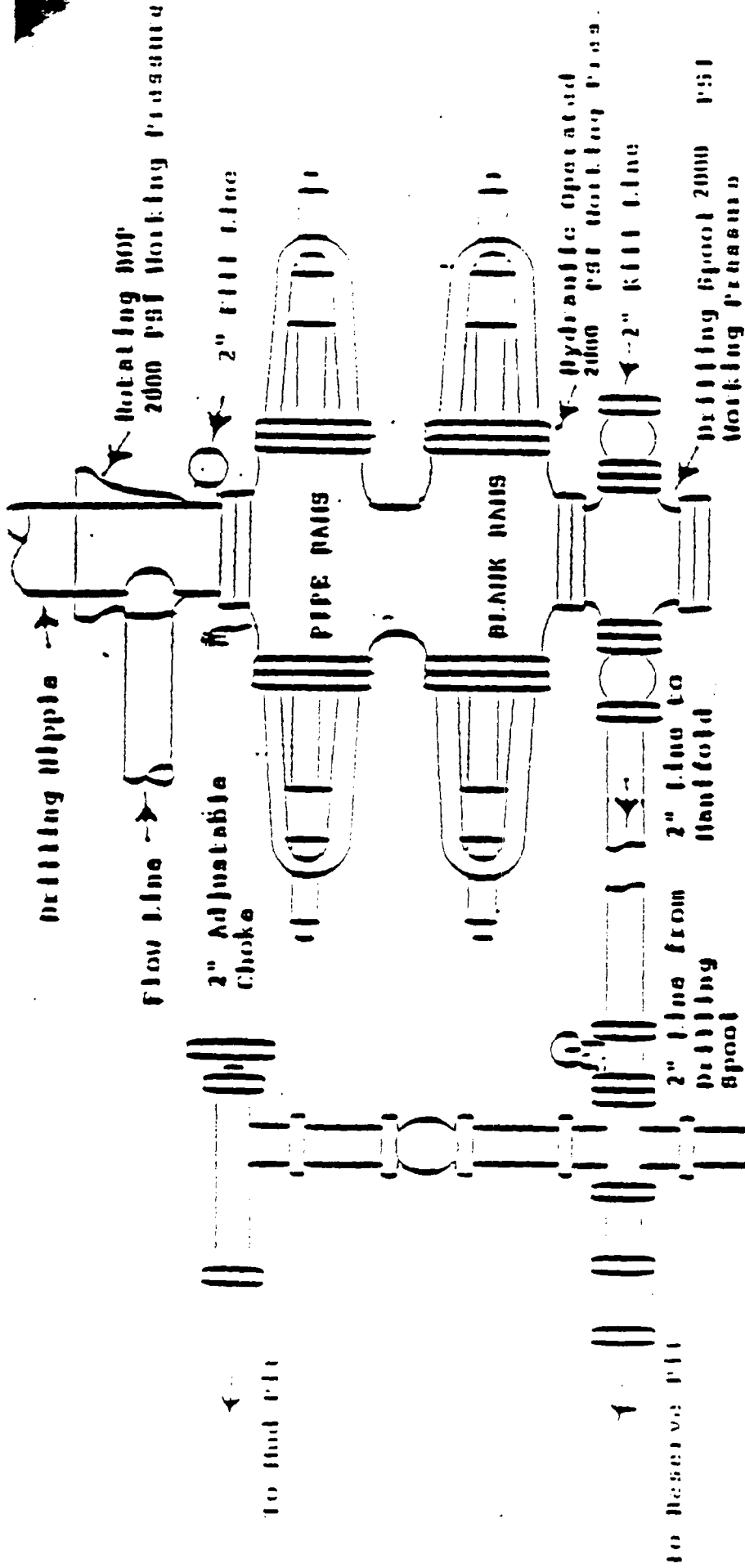
- 7" 8rd X 4 1/2" slip type 2000 W.P. casinghead.
- 4 1/2" 8rd X 2 3/8: slip type 2000 W.P. tubinghead.

Cement Program:

- 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.



Preventers and Spools are to have
Through Bore of 6" - 2000 PSI or
larger.

2" Positive
choke

To Reserve Pit

NOTE: Upper Kelly cock valve with
handle will be used.
Safety valves for all drill
strings used will be on the
fly floor.

Well Name: Gracia Navajo 5K No.2

Location: Section 5, T25N, R11W, NMPM

1845' FSL -1830' FWL

County: San Juan

State: New Mexico

Surface Use Plan

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

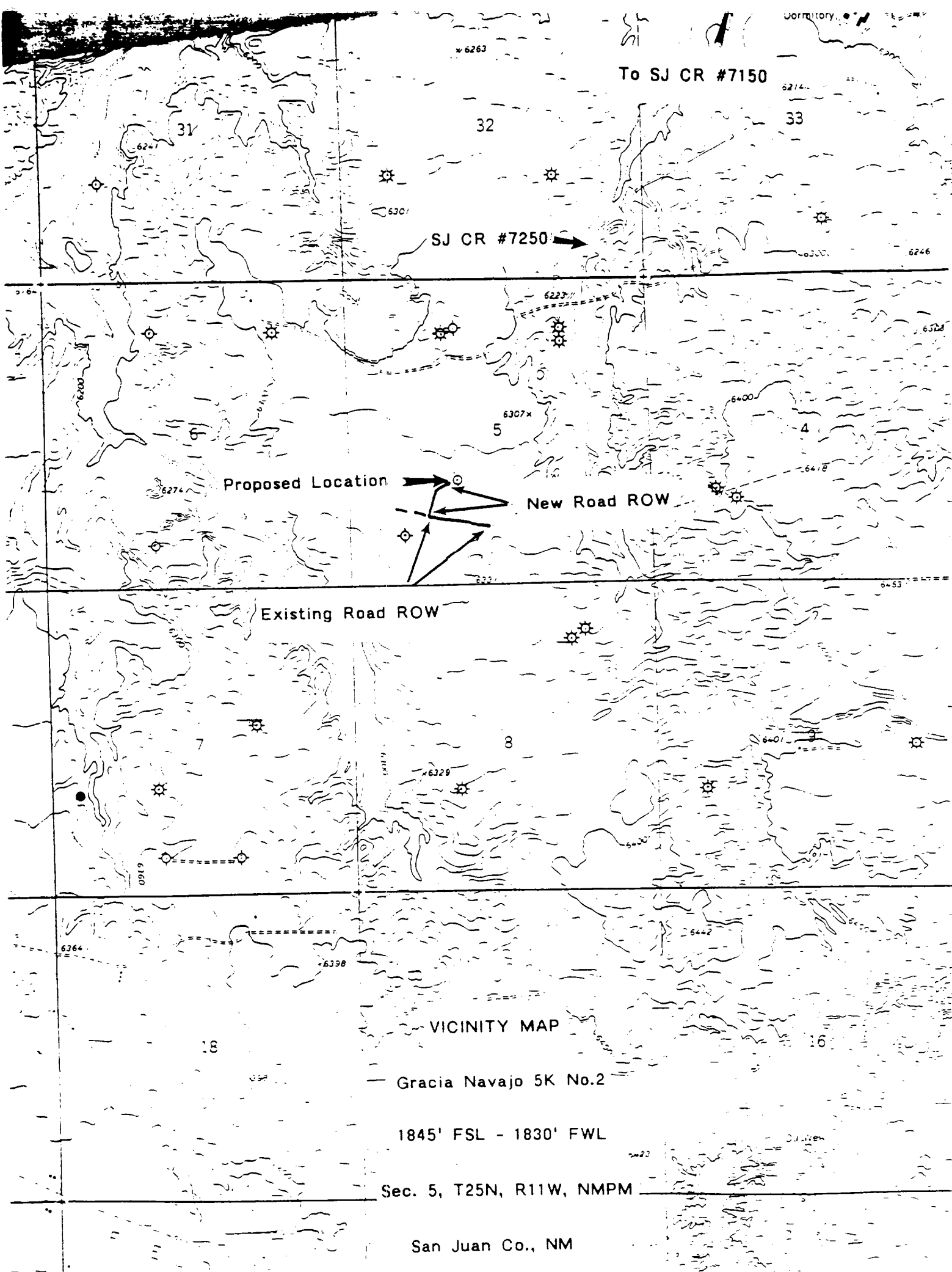
13. Certification:

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.

Pro New Mexico, Inc.

11.23.92
Date


By: J.E. Gallegos, President



30 X 60 MINUTE SERIES (TOPOGRAPHIC)

400

R 12 W

76

425

R 11 W

450 000 FEET

108°00'

36°30'

2 000 000
FEET

SJ CR #7150

Gallegos

Canyon

T 26 N

404

SJ CR #7250

36

31

1990

Proposed Location

Proposed Access

1975

T 25 N

453

950

AREA MAP

Gracia Navajo 5K No.2

1845' FSL - 1830' FWL

Sec. 5, T25N, R11W, NMPM

San Juan Co., NM

T 24 N

505

402

Alamo

Flores

16

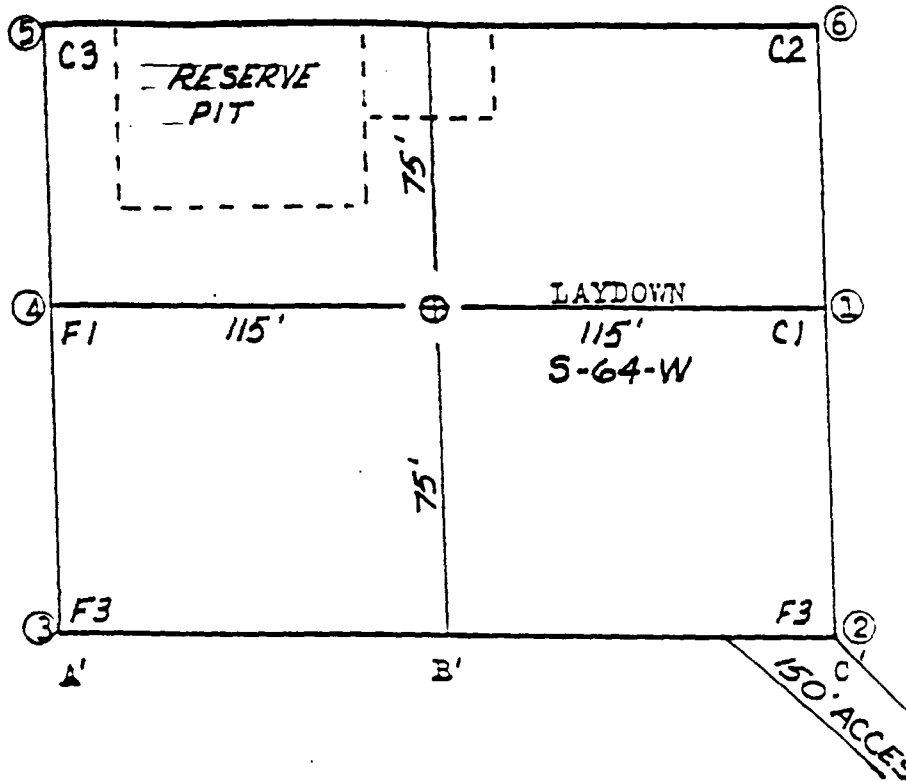
31

208

36

31

PRO New Mexico Inc.
 Gracia Navajo 5K #2
 1845' FSL, 1830' FWL
 Sec. 5, T25N, R11W, NMPM
 San Juan County, N.M.



A - A' Vert. 1" = Horiz. 1" = C/L

6334					
6324					
6314					

B - B' C/L

6334					
6324					
6314					

C - C' C/L

6334					
6324					
6314					

PRO NEW MEXICO, INC.
LOCATION LAYOUT

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

SCALE: 1"=50'

