New Mexico Oil Conservation Division
1625 N. French Drive
Hobbs, NM 88240

Form 3160-3
(April 2004)

FORM APPROVED
OMB No. 1004-0137
Expires March 31, 2007

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No. LC 063259 2A
6. If Indian, Allotee or Tribe Name
7. If Unit or CA Agreement, Name and No.

1a. Type of work: ☑ DRILL ☐ REENTER

1b. Type of Well: ☑ Oil Well ☐ Gas Well ☐ Other ☐ Single Zone ☐ Multiple Zone

8. Lease Name and Well No. **Trantula Federal 3** #1 35081

2. Name of Operator **Range Operating New Mexico, Inc.** 227588

9. API Well No. 4

3a. Address **777 Main Street Suite 800 Fort Worth TX 76102**

3b. Phone No. *(include area code)* **(817) 810-1908**

10. Field and Pool, or Exploratory 35280 **Justis ; Tubb-Drinkard**

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*
At surface **990' FNL & 330' FEL**
At proposed prod. zone **990' FNL & 330' FEL** N/A

11. Sec., T. R. M. or Blk. and Survey or Area **Sec.3, T25S, R37E N.M.P.M.**

14. Distance in miles and direction from nearest town or post office* **3.6 Miles Northeast From Loving, NM**

12. County or Parish **Lea** 13. State **NM**

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of acres in lease	17. Spacing Unit dedicated to this well
	160	**40.19**
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.	19. Proposed Depth **6600**	20. BLM/BIA Bond No. on file
21. Elevations (Show whether DF, KDB, RT, GL, etc.) **3171'**	22. Approximate date work will start* **09/01/2005**	23. Estimated duration **15 Days**

24. Attachments

CAPITAN CONTROLLED WATER BASIN

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No.1, shall be attached to this form:

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized officer.

Received SEP 2005

25. Signature Linda C. Stiles	Name *(Printed/Typed)* **Linda C. Stiles**	Date **07/28/2005**
Title **Sr. Engineering Tech**		
Approved by *(Signature)* **/s/ Tony J. Herrell**	Name *(Printed/Typed)* **/s/ Tony J. Herrell**	Date **SEP - 6 2005**
Title **FIELD MANAGER**	Office **CARLSBAD FIELD OFFICE**	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached. APPROVAL FOR 1 YEAR

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make 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.

**(Instructions on page 2)*

APPROVAL SUBJECT TO
GENERAL REQUIREMENTS
AND SPECIAL STIPULATIONS
ATTACHED

DECLARED WATER BASIN
CEMENT BEHIND THE 8⅝"
CASING MUST BE CIRCULATED

WITNESS

DISTRICT I
1625 N. FRENCH DR., HOBBS, NM 88240

DISTRICT II
1301 W. GRAND AVENUE, ARTESIA, NM 88210

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

State of New Mexico
Energy, Minerals and Natural Resources Department

OIL CONSERVATION DIVISION
1220 SOUTH ST. FRANCIS DR.
Santa Fe, New Mexico 87505

Form C-102
Revised JUNE 10, 2003
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
30-025-37451	35280	Justis; Tubb-Drinkard

Property Code	Property Name	Well Number
35081	TARANTULA "3" FEDERAL	1

OGRID No.	Operator Name	Elevation
227588	RANGE OPERATING NEW MEXICO, INC.	3171'

Surface Location

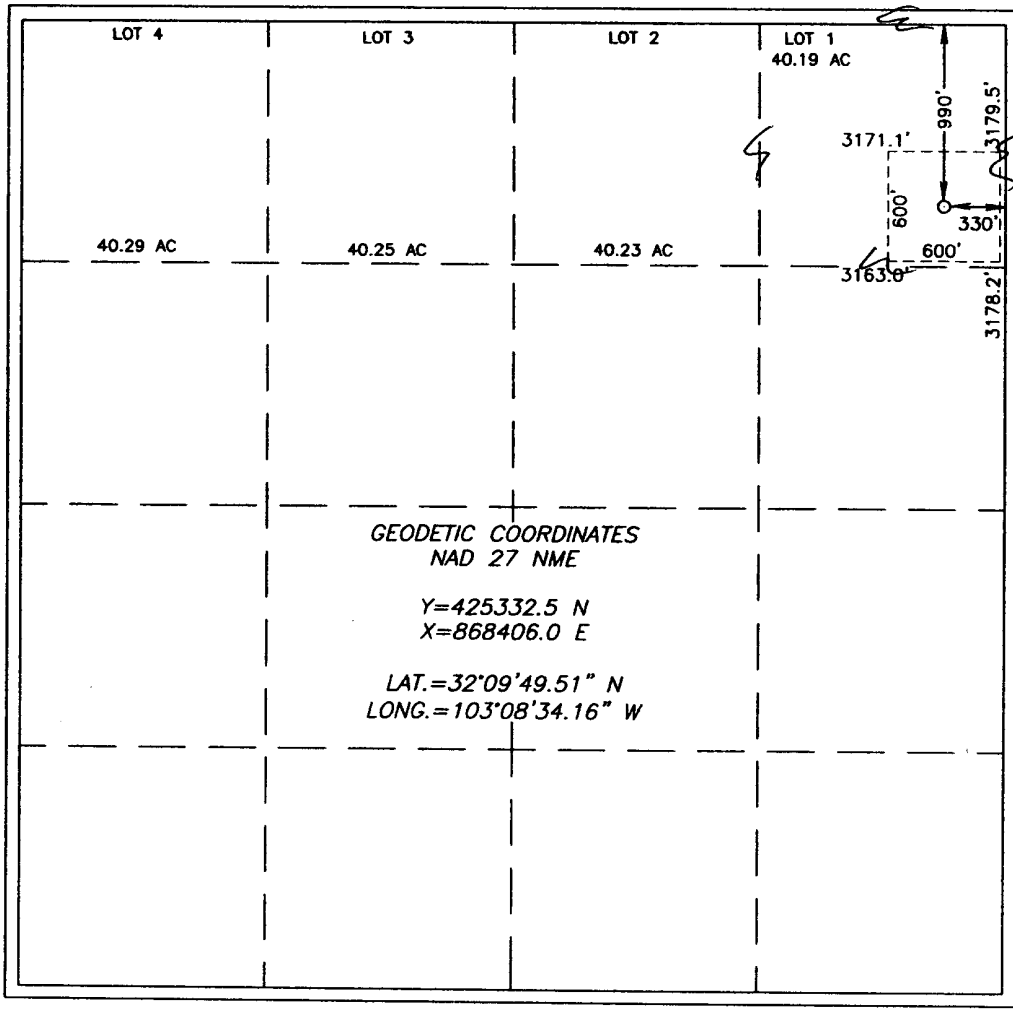
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
1	3	25-S	37-E		990	NORTH	330	EAST	LEA

Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres	Joint or Infill	Consolidation Code	Order No.

NO ALLOWABLE WILL BE ASSIGNED TO THIS COMPLETION UNTIL ALL INTERESTS HAVE BEEN CONSOLIDATED OR A NON-STANDARD UNIT HAS BEEN APPROVED BY THE DIVISION



OPERATOR CERTIFICATION

I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.

Signature

Andrew Tullis
Printed Name

Petroleum Engineer
Title

8-8-05
Date

SURVEYOR CERTIFICATION

I hereby certify that the well location shown on this plat was plotted from field notes of actual surveys made by me or under my supervison, and that the same is true and correct to the best of my belief.

JULY 6, 2005
Date Surveyed DEL

Signature & Seal of Professional Surveyor

GARY L. EIDSON
NEW MEXICO
12641
REGISTERED PROFESSIONAL SURVEYOR

05.11.1055

Certificate No. GARY EIDSON 12641

JUSTIS PROSPECT (Blinebry-Tubb-Drinkard)
Tarantula "3" Fed. No. 1
Well Objectives/Prognosis/Evaluation
July 1, 2005

I) GENERAL

Operator:	**Range Operating – New Mexico (100%)**	
Partners/WI:	None	
Proposed Well Designation:	Tarantula "3" Fed. No. 1	
API No.:	30-025-	
Well Classification:	Development	
Confidentiality Status:	Restricted, no information release without approval	
PTD (Permit Depth):	6600 ft MD	
Anticipated Spud Date:	2005	
Estimated Days to Drill:	12-15	
Drilling Contractor:		
Expected Type of Hydrocarbon:	Oil/Gas, Gravity and GOR variable	
Contacts:	Tom Brace, Geol. Mgr.	(817)810-1926
	Martin Emery, Project Geologist	(817)810-1951
	Dwayne Bryant, Reservoir Engineer	(817)810-1976
	Bobby Ebeier, Landman	(817)810-1987
	Andrew Tullis, Op. Engineer	(817)509-1505
	Don Robinson, Drilling Mgr.	(817)509-1506
	Linda Stiles, Regulatory	(817)810-1908

II) WELL OBJECTIVES

The objective of the well is to drill and evaluate Permian Blinebry, Tubb, and Drinkard Formations and complete the well as a Tubb-Drinkard producer with a possible Blinebry recompletion opportunity. The expected **Tubb-Drinkard EUR** for the well is **XXX MMCFGE**. The expected **IP** is **XXX MCFG & XX BO/D**.

JUSTIS PROSPECT (Blinebry-Tubb-Drinkard)
Tarantula "3" Fed. No. 1
Well Objectives/Prognosis/Evaluation

V) PRIMARY RESERVOIR TARGETS

Lower Permian **Tubb DOL**

Rock Type:	v f grnd SS & crypto-c xlln Dolomite
Thickness:	25-30 ft Gross, variable net pay
Avg. Porosity:	8%; ranges from 2-15%; reduced intergran & interxlln key
Avg. Perm.:	< 1md
Est. Reservoir Temp.:	125°F
Est. reservoir Press.:	2300 psi (assuming no pressure depletion)

Lower Permian **Drinkard DOL**

Rock Type:	crypto-c xlln Dolomite
Thickness:	200-250 ft Gross porous DOL, upper and lower pays
Avg. Porosity:	7%; ranges from 2-15%; interxlln key
Avg. Perm.:	< 1md
Est. Reservoir Temp.:	125°F
Est. reservoir Press.:	2350 psi (assuming no pressure depletion)

VI) SECONDARY RESERVOIR TARGETS

Upper Permian Blinebry DOL

VII) PROPOSED WELL DESIGN

Drilling Fluids/Additives: Salt Gel, 9-10.5 lbs/gal
Casing Design:

VIII) EVALUATION

Mud-Logging:
Contractor: **TBD**

Office:
Home:
Fax:
Website:

JUSTIS PROSPECT (Blinebry-Tubb-Drinkard)
Tarantula "3" Fed. No. 1
Well Objectives/Prognosis/Evaluation

VIII) EVALUATION (cont)

Conventional Coring:	None	
Open-Hole DSTs:		
DST Contractor:	None	
DST Program:	None	
Distribution:	see attached distribution	
Open-Hole Logging:		
Contractor:	**TBD**	
Logging Program:	4500-6600 ft MD (TD)	NGS-PEX-DLL-MSFL-BHS (log GR-Neutron to surface, BHS)
	Optional 5100-7100 ft	GR-MSCT
Distribution:	see attached distribution	

IX) POTENTIAL HAZARDS/PITFALLS

Problematic Drilling Zones:	Yates Fm through San Andres - lost circulation due to hydrocarbon withdrawal (most likely problems from 3450-4000 ft)
Abnormal Pressure/Temperature Zones:	Possibilty of partial depletion within one or more of the reservoir targets
Fractured/Lost Circulation Zones:	See above; **Please tag mud if circulation is lost in primary pay intervals**
Presence of H_2S or CO_2:	None expected
Faults Intersecting the Wellbore:	None expected

X) CORRELATION LOG TOPS:

Correlation

Multi-Point Surface Use Operating Plan
Range Operating New Mexico
Tarantula 3 Fed #1

This plan is submitted with form 3160-3, Applications for Permit to Drill, covering the above described well. The purpose of this plan is to describe the location of the proposed well, and the proposed construction. And the procedures to be followed in rehabilitation of the surface after completion of the operations, so that a complete appraisal can be made of the environmental affects associated with the operation.

1. Existing Roads:

   A. Exhibit A is a portion of a road map showing the location of the proposed well. The proposed location is situated approximately 3 miles Northeast of Jal, New Mexico.

   B. Directions:
   From the intersection of Sid Richardson Road (Co. Rd. J-13 or El Paso Rd.) and Willis Road (Co. Rd. J-4) go south on Willis Rd. approximately 0.4 miles. The location is approximately 350' west of road.

2. Planned Access Road

   A. Approximately 655' of new road will be constructed on flat terrain as per BLM specifications from Willis Rd. to location as shown on Exhibit B

3. Location of Existing Wells:

   A. A SWD well (Kelton Humprey Queen #6) is located approximately 230' due west of the proposed well as shown on Exhibit B

4. Location of Existing and/or Proposed Facilities

   A. The layout of the well pad, drilling rig and reserve pit are shown in Exhibit C.

   B. In the event that this well is productive, the tank battery and production facilities will be constructed on the well pad.

   C. The production facility will consist of two 500 bbl steel oil storage tanks, one 500 bbl closed top fiberglass tank, one separator and one heater treater.

5. Location and Type of Water Supply:

   A. The well is to be drilled with both fresh and brine water to be hauled to the location by truck and will be bought from commercial sources.

6. Source of Construction Material:

   A. Material excavated from the reserve pit will be used to build location and any additional material needed will come from Fee land.

7. Methods of Handling Waste Disposal:

   A. Drill cuttings will be disposed of in the drilling pits.

   B. Drilling fluids will be allowed to evaporate in the drilling pits until the pits are dry.

   C. Oil produced during operations will be stored in tanks and hauled off site.

   D. Human sewage will be contained in a portable chemical toilet, transported from the site and disposed of at an approved site.

   E. Trash will be deposited in a metal container and hauled to an approved disposal site.

   F. Within 30 days following drilling and/or completion operations, trash and debris will be hauled to an approved disposal site.

8. Ancillary Facilities

   None

9. Well site Layout:

   A. Exhibit C shows the dimensions of the well pad. Location of the major rig components, and well pad orientation are shown.

   B. Topography of the area is relatively level across the entire location. Fills should be no more than 3' deep.
   The location will be capped with 4" to 6" of caliche.

   C. No diversion ditches are planned.

   D. The pad has been stacked and flagged and an archeological study conducted and attached with this permit application.

10. Plans for Restoration of the Surface:

A. Upon completion of drilling, completion and production operations, the area disturbed by the project will be restored to BLM specifications or to as near their former natural condition as possible.

B. All of the caliche material will be removed and the area will be leveled to pre-project grade.

C. No drainage systems will be needed on the site.

D. No segregation of spoils is planned at this time as it is a blow sand area.

E. Waste disposal was outlined in section 7.

F. Re-vegetation and fertilization will be as per BLM stipulations.

G. All areas not used for production will be restored after completion of the well. The existing roads will not be restored.

11. Surface Restored

A. This is private/federal surface and a damage agreement has been negotiated with Tom and Winnie Kennann (surface owners), C/O Leo V. Sims II (attorney representing owner), P. O. Box 2630, Hobbs, NM 88241. (505) 393-3024.

12. Other Information

A. The general location of this site is a rocky desert and mesquite brush area. The soil has a very small amount of vegetation and stockpiling of material is not planned.

B. The vegetation is desert scrub characterized by various species of cacti, acacia, and mesquite.

C. Wildlife species that occur in the area include: rabbits, mule deer, coyote, snakes and various rodents.

D. No bodies of water are located near this location.

E. An archaeological survey of the site and proposed access road has been conducted and the report is attached.

13. Operator's Representative and Certification

A. The field representatives responsible for assuring compliance with approved surface use plan are:

	Office	Home
District Engineer Andrew Tullis	817/509-1505	817/797-2804
Field Foreman George Benham	505/745-2329	505/392-0015

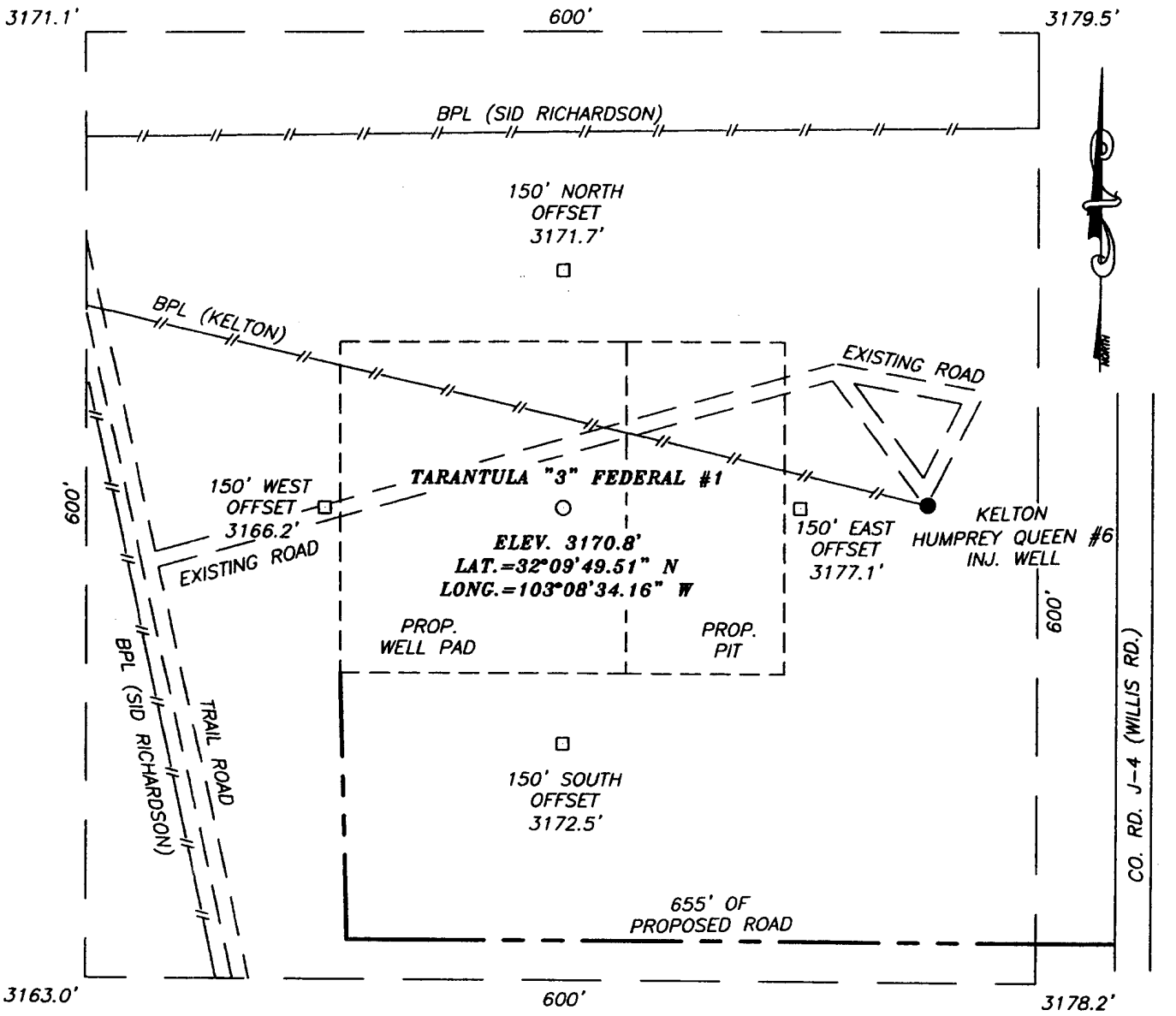
B. I hereby certify that I, or persons under my direct supervision, have inspected the proposed drill site and access route; that I am familiar with the conditions which currently exist; that the statements made in this plan are to the best of my knowledge, true and correct; and that the work associated with operations proposed herein will be performed by RB Production Company and its contractors and subcontractors in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of the 18 U.S.C. 1001 for the filing of a false statement.

Date: 7/22/05

Andrew Tullis
District Engineer

SECTION 3, TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M.,

LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF SID RICHARDSON ROAD (CO. RD. J-13 OR EL PASO RD.) AND WILLIS ROAD (CO. RD. J-4). GO SOUTH ON WILLIS RD. APPROX. 0.4 MILES. THIS LOCATION IS APPROX. 350' WEST OF ROAD.

100 0 100 200 Feet

Scale:1"=100'

PROVIDING SURVEYING SERVICES SINCE 1946

JOHN WEST SURVEYING COMPANY

412 N. DAL PASO

HOBBS, N.M. 88240

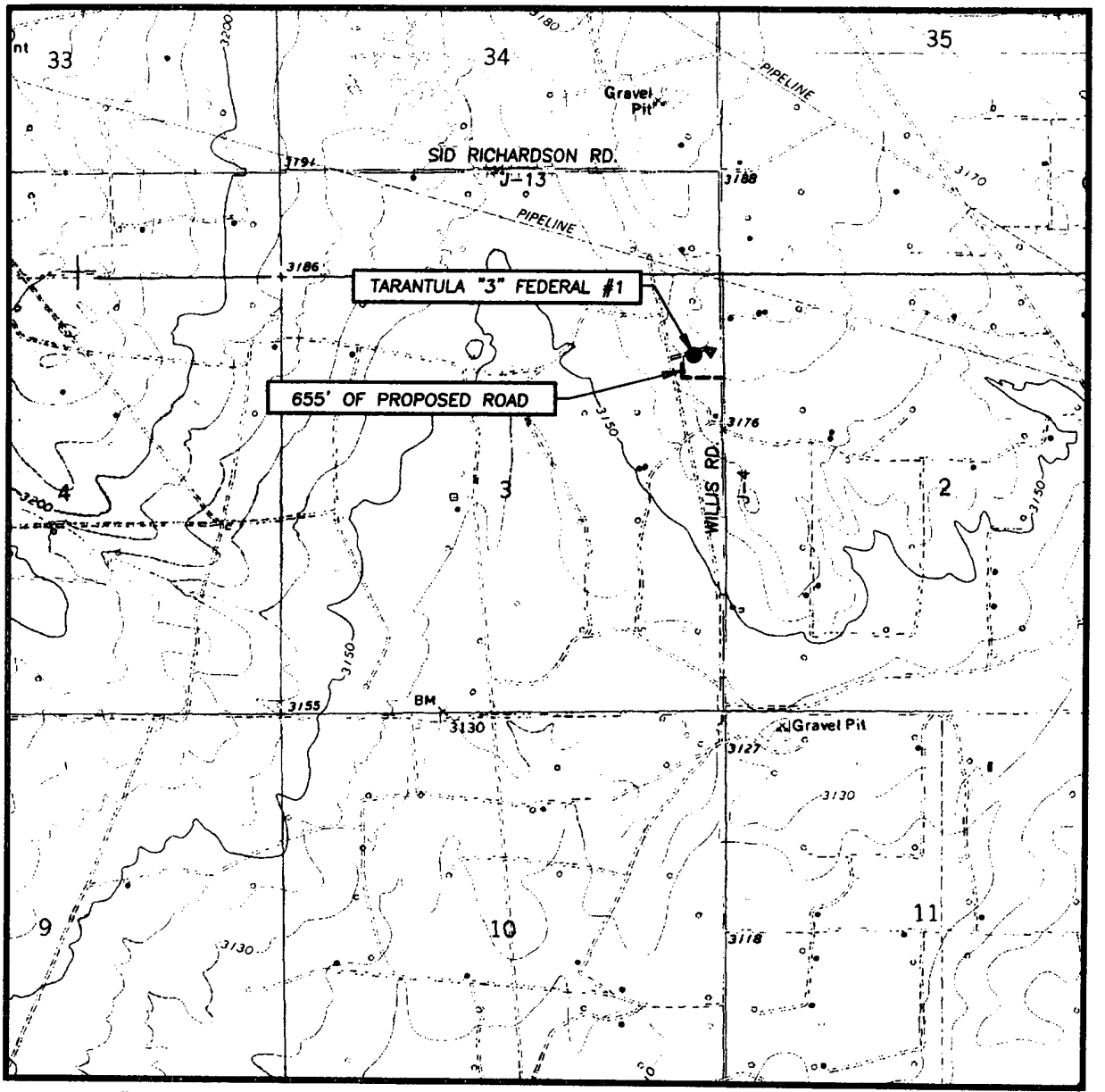
(505) 393-3117

RANGE OPERATING NEW MEXICO, INC.

TARANTULA "3" FEDERAL #1 WELL
LOCATED 990 FEET FROM THE NORTH LINE
AND 330 FEET FROM THE EAST LINE OF SECTION 3,
TOWNSHIP 25 SOUTH, RANGE 37 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.

Survey Date: 07/06/05	Sheet 1 of 1 Sheets		
W.O. Number: 05.11.1055	Dr By: DEL	Rev 1:N/A	
Date: 07/07/05	Disk: CD#4	05111055	Scale:1"=100'

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
JAL NW, N.M. – 10'

SEC. 3 TWP. 25-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 990' FNL & 330' FEL

ELEVATION 3171'

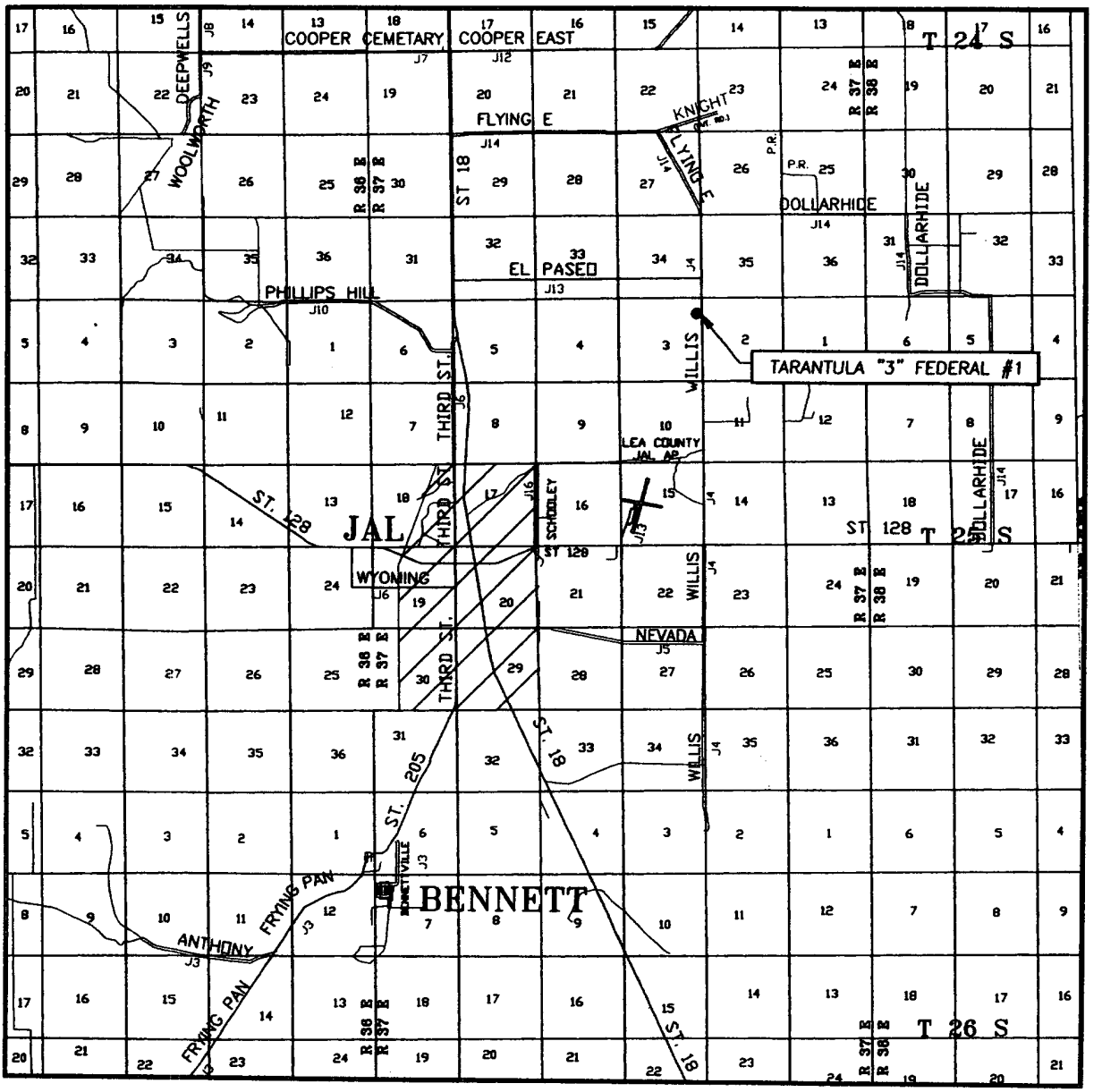
OPERATOR RANGE OPERATING NEW MEXICO, INC.

LEASE TARANTULA "3" FEDERAL

U.S.G.S. TOPOGRAPHIC MAP
JAL NW, N.M.

PROVIDING SURVEYING SERVICES SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 3 TWP. 25-S RGE. 37-E

SURVEY N.M.P.M.

COUNTY LEA

DESCRIPTION 990' FNL & 330' FEL

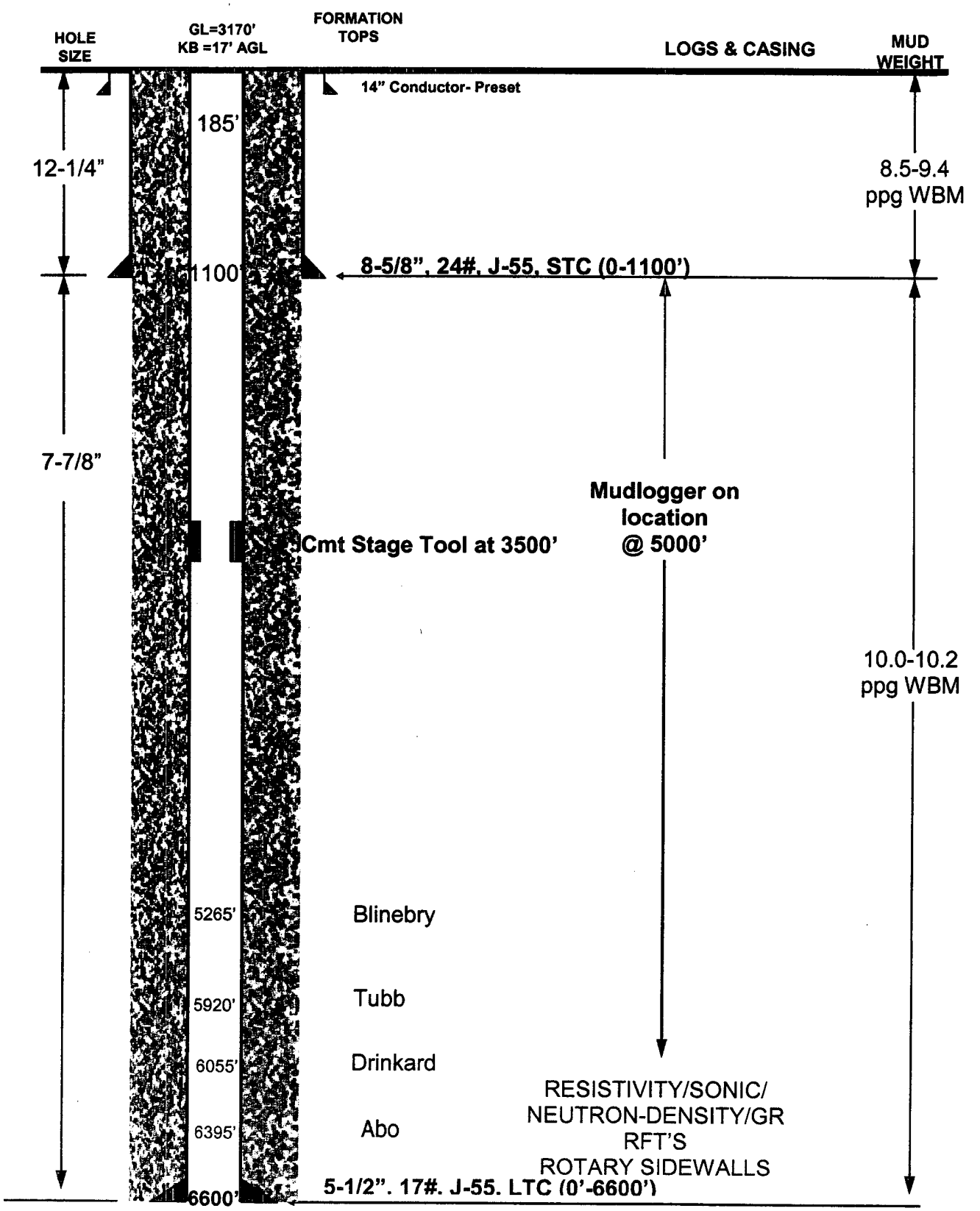
ELEVATION 3171'

OPERATOR RANGE OPERATING NEW MEXICO, INC.

LEASE TARANTULA "3" FEDERAL

PROVIDING SURVEYING SERVICES SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

WELL	**: Tarantula 3 Fed #1**	**AFE:**
SL	**: 900' FNL & 330' FEL, Sec 3-T25S-R37E**	**FIELD: Justis**
COUNTY	**: LEA COUNTY**	**TD: 6600'**
STATE	**: NEW MEXICO**	**PERMIT NO:**



Range Operating NM

Tarantula 3 Fed #1
Lea County, NM
Drilling Program

Prepared 7/27/2005

PROPOSED DEPTH: 6600' MD / 6600' TVD
GROUND ELEVATION: 3170'
KB: 17'

LOCATION: 900' FNL & 330' FEL, Sec. 3-T25S-R378E, Lea County, NM

ANTICIPATED PRODUCTIVE FORMATION: Tubb-Drinkard

API NO:

GENERAL:
The Tarantula 3 Fed #1 will be a 6600' Tubb Drinkard producer in Lea Co., New Mexico drilled on a daywork basis by Adobe Rig #2. A 12-1/4" surface hole will be drilled to +/-1100'. A string of 8-5/8" casing will be run and cemented to surface.

Nipple up BOPs and test same, drilling will continue with a 7-7/8" hole to a total depth of 6600'. Actual TD will be spaced so that casing will be landed where the casing head can be screwed on. After electric-logging the open-hole interval, a string of 5-1/2" casing will be run and cemented from total depth to surface and the tubing head installed.

ESTIMATED FORMATION TOPS: (Log Depths)

Upper Permian Salado Fm	+2215 ft	970 ft MD	
Upper Permian Queen Fm	-70 ft	3255 ft MD	
Upper Permian San Andres Fm	-575 ft	3760 ft MD	
Upper Permian Glorieta Fm	-1710 ft	4895 ft MD	
Upper Permian Paddock Fm	-1835 ft	5020 ft MD	
Lower Permian Blinebry Fm	-2080 ft	5265 ft MD	*
Lower Permian Tubb Fm	-2735 ft	5920 ft MD	*
Lower Permian Drinkard Fm	-2870 ft	6055 ft MD	*
Lower Permian Abo Fm	-3210 ft	6395 ft MD	
PTD	-3415 ft	6600 ft MD	

*= Primary Reservoir Targets
+= Secondary Reservoir Targets

DETAILED DRILLING PROCEDURE

TIMES AND EVENTS TO NOTE ON DRILLING REPORT:

A. SPUD (date and time)
B. TD (each interval date and time)
C. Cement in place (date and time)
D. RIG RELEASE (date and time)

BOTTOM HOLE ASSEMBLIES

BHA #1: (0-1100') - Bit, 2-8" DC, 10-6.25" DC's

BHA #2: (1100'-5900') - Bit, (2) 6.25" DC's, IBS, 6,25" DC, IBS, (22) 6.25" DC's

BHA #3: (5900'-6600') - Bit, (22) 6.25" DC's

The IBS's will be layed down prior to drilling the Tubb.

USE OF RT TOOL

Two RT tools will be run, one 500' above the top of the collars and the other at 1500' above the top the first RT tool.

MUD PROGRAM

INTERVAL	MUD WEIGHT	FUNNEL VIS.	API Fluid Loss
0' - 1100'	8.4 – 9.4	32-34	NC
1200' - 6000'	10.0	28	NC
6000' - 6600'	10.0 – 10.2	30-33	10cc

1) Level and build an all-weather location and access road.

2) MIRU Adobe Rig #2. Perform rig safety inspection and ensure that everything is in proper working order prior to spudding well.

3) Notify NMOCD of intent to spud, run casing and cement each 24 hours in advance 505-748-1283.

4) Spud well with 11" mill tooth bit. BHA should consist of 3-8" drill collars and 6" drill collars. Drill to +/- 1100' with surveys at 500' and 1000' (Actual depth will be determined by the length of the casing). Circulate hole clean. Sweep and condition hole to run casing. Pull out of hole, lay down 11" BHA.

NOTE: Mud through this interval will be a native spud mud supplemented with Bentonite. Lime may be used to flocculate the mud and increase the yield point to clean the hole. Mix paper for seepage control. Utilize all solids control equipment to control drill solids. Run as fine of mesh shaker screens as

possible. Use water to control mud weight and viscosity. Maintain mud weight at 8.4 – 9.0 ppg.

5) Rig up casing crew and run 8-5/8", 24.0#, J-55, ST&C ($15.50/ft) as follows:

1-8-5/8" Texas Pattern Shoe
1-8-5/8" Insert Float Collar
1-8-5/8" x 12-1/4" Centralizer 10' above shoe
1-8-5/8" x 12-1/4" Centralizer every other joint
1-8-5/8" Stop Ring

6) Circulate for at least bottoms up plus one casing volume with mud prior to cementing. Cement surface casing according to cement recommendation. NOTE: Have field bin, cement, and circulating equipment on location prior to casing job.

a) Review rates, pressures, displacement volumes and casing pressure rating with Service Company and rig personnel. All cement slurries are to be lab tested; both a pilot test and a test of the actual field blend. Report results, including 24 hour compressive strengths, to the office. **(See Cement Testing Requirements below).** Also keep two samples of each of the dry cements in the event that a problem is encountered while cementing. Discard this sample if all indications are positive.

b) Cement well as follows: Pump 20 bbl fresh water followed by **650** sxs class "C" with 4 % gel, 2% CcCl2, @ 14.8ppg, Displace with fresh water, Bump plug with w/ 500 psi over final pump pressure.

c) If cement is not circulated to surface, contact the office and the NMOCDC and prepare to run 1" and top out cement. Have 1" pipe on location for possible top-out.

d) If cement falls, fill 12.25" X 8-5/8" annulus with cement.

7) Release pressure and check for flow back. Set casing on bottom. If float is holding, base nipple up of wellhead and BOP on the surface cement samples. Well must stand at least 8 hours total before any testing of casing is performed per NMOCD.

8) After Cementing casing, weld on 8-5/8" flange type casing head. Test BOP blind Rams & choke manifold 250# low & 3000# high. Pick up Bit #2 (7-7/8") & BHA , trip in hole, test BOP pipe rams 250# low & 3000#. **Pressure test casing to 1000 psi for 30 minutes prior to drilling out shoe.** Clearly report this test information of the daily drilling report.

MUD NOTES: See Mud Program for details

After cementing 8-5/8" casing circ pit with brine water. Mix paper for seepage control. Utilize pre-hydrated Gel/Lime sweeps for flushing the hole. Run all available solids control equipment to control weight. Add brine water as needed to maintain volume. Add LCM to system only as needed. Use batch LCM treatment if losses occur and maintain as needed.

9) Drill ahead with brine water in 7-7/8" hole taking deviation surveys every ±500' or nearest bit run per NMOCD rules. Use sweeps as needed to clean hole. Drill to +/-6600; exact TD will be determined by the length of the casing. Sweep and condition hole in preparation for logging. Spot a 50 bbl, 40-42 visc pill prior to POOH for logs. Strap out of hole.

10) RU Wire line Truck and Tools. Log well as instructed by Range Operating NM. Rotary sidewall cores may be required along with RFTs.

11) Make a conditioning trip prior to running casing. Trip into hole with BHA and drill pipe, break circulation at 6740'. Ream last two stands to bottom. Circulate and condition hole. Maintain viscosity of 28. TOH laying down 4-1/2" drill pipe and drill collars. Clear floor and prepare to run casing.

12) Rig up casing.crew and run 5-1/2" 17#, N-80, LT&C as follows:

a) Float shoe (thread-lock)
b) 2 jts. 5-1/2", 17#, N-80, LT&C casing (thread-lock)
c) Float collar (thread-lock)
d) 5-1/2", 17#, N-80, LT&C Casing to 3500'.
e) Cement Stage Tool @ 3500'
f) 5-1/2", 17#, N-80, LT&C Casing to surface

The two bottom joints of 5-1/2" casing and the float shoe and float collar should be thread-locked (do not weld pipe). Run 1 centralizer 5' above shoe with limit clamp, one on the next collar, one just below the float collar with limit clamp and one per joint up to 4500'.

13) Circulate mud for at least bottoms up plus one casing volume prior to cementing.

14) Cement the production casing as follows. Re-figure cement volumes on a basis of: caliper + 20% + 50 sx. Precede Cement with 20 bbl fresh water, 500 gals superflush, 20 bbl fresh water

Stage One (6600' to 3500'):

600 SACKS
Slurry: PVL Cement + 0.3% D-167 + 0.2% D-65 +0.1% D-13 +0.2% D46 + 4#/sk D-24 + 1#/sk D-44

Slurry Weight: 13.0 ppg Slurry Yield: 1.41 cuft/sk Water: 6.83 gals/sk

Stage Two (3500' to Surface):

500 SACKS
Slurry: PVL Slurry: 65/35 (Class C/POZ) + 6% D-20 + 5% D-44 + 0.3% S-1 + 4#/sk D-24 + 0.25#/sk
Slurry Weight: 12.4 ppg Slurry Yield: 2.21 cuft/sk Water: 12.11 gals/sk

Review rates, pressures, displacement volumes and casing pressure rating with Service Company and rig personnel. All cement slurries are to be lab tested; both a pilot test and a test of the actual field blend. Report results, including 24 hour compressive strengths, to the office. **(See Cement Testing Requirements below).** Also keep two samples of each dry cement.

a) Have additional water storage on location as necessary for mixing cement. Have water analyzed by cementing company for compatibility with cement and chemicals.

b) Reciprocate pipe during 1st Stage job. Take special care to move pipe very slowly on the down stroke. Pump spacer and cement at 7-8 BPM. When the last cement has been pumped, maintain rate at 7-8 BPM. Displace with fresh water. When reaching displacement to shoe joint minus 10 bbls slow pump rate to 2 barrels per minute or less prior to bumping plug. Bleed off pressure and check for backflow. If negative, remove the cap and drop the opening bomb for the second stage job. Wait 30 minutes then attempt to open stage tool. Circulate a minimum of 2 hours prior to pumping second stage job.

c) Cement second stage. Bump plug with 500 psi over final displacement pressure and hold pressure for 15 minutes.

d) If cement does not circulate notify NMOCD office.

15) Release pressure and check for flow back. If floats are holding, continue to make preparations to hang 5-1/2" casing one foot off bottom. If floats do not hold, wait 12 hours on cement.

16) Set 5-1/2" slips in "A" section with full string weight. Nipple down BOP, Nipple up well head.

17) Install cap. Clean mud pits and release rig.

CEMENT TESTING REQUIREMENTS:

Laboratory Blend: Obtain thickening time, rheology, water loss, and compressive strengths of the laboratory cement blend with a water sample of the actual water to be used in cementing for each cement slurry to be pumped.

Field Blend: Obtain thickening time of the field cement blend with a water sample of the actual water to be used in cementing for each slurry to be pumped. If the thickening time of the field blend is consistent with the thickening time of the laboratory blend, proceed with the cement job. If not, wait on the compressive strength results. Regardless of thickening time results, obtain all of the compressive strengths of field blend to compare with the compressive strengths of the laboratory blend.

Don Robinson	Drilling Manager	469-450-2281	972-317-8345	817-509-1506
George Allen Teer	VP of Operations	(817) 723-1107	(817) 491-3740	(817) 870-2601
Andrew Tullis	District Engineer	(817) 797-2804	(214) 505-0233	(817) 870-2601
Martin Emery	Chief Geologist	(817) 366-3693	(817) 430-4861	(817)870-2601
Linda Stiles	Regulatory Tech	(817) 291-4618	(817) 561-5544	817-810-1908

Adobe., Midland, TX	Rig Company	Larry Bohannon	(432)-552-5553
Adobe Rig #2	Rig Floor		
	Tool Pusher		
Suttles Logging, Inc. – Midland, TX	Mudlogging	Sam Samford	432-687-3148
Schlumberger-Artesia, NM	Cementing Service	Lynn Northcutt	(505)-748-1392 cell 505-365-7510
Nova Mud, Inc- Hobbs, NM	Drlg Mud	Dale Welch	(800) 530-8786
National – Hobbs, NM	Well Heads		(505) 393-9928
Master Tubulars – Midland, TX	Casing & Tubing	Randy Martin	(800) 682-8996
TFH –Hobbs, NM	Dirt Contractor		(505) 397-3270
Weatherford –Artesia, NM	Float Equipment		
Halliburton Logging –Hobbs, NM	Open Hole Logs	Michael Escriva Tommy Johnson	(505) 392-7543
Allen's Casing Crew -Hobbs, TX	Csg Crew		
Riverside- Carlsbad, TX	Water -		(505) 885-6663
National –Hobbs, NM	General Supplies		(505) 393-9928
TFH –Hobbs, NM	Fork Lift		(505) 397-3270
Adobe Rentails	Trailer, sewage, water		
Abbot Brothers	Conductor setting		
RTO Sales & Lease	Satellite Internet		432-550-5678

TITLE PAGE/ABSTRACT/ NEGATIVE SITE REPORT

1/03 CFO/RFO

1. BLM Report No.	2. Reviewer's Initials/Date_____ ACCEPTED ( ) REJECTED ( )	3. NMCRIS No.: 93816

4. Type of Report: Negative (X) Positive ( )

5. Title of Report: Class III archaeological survey of a pad and access road for the Tarantula "3" Fed. well No. 1.
Author(s): Ann Boone

6. Fieldwork Date: 18 July 2005

7. Report Date: 20 July 2005

8. Consultant Name & Address:
Boone Archaeological Services
2030 North Canal
Carlsbad, NM 88220
Direct Charge: Danny Boone
Field Personnel Name: Danny Boone
Phone: (505) 885-1352

9. Cultural Resource Permit No.
BLM: 190-2920-05-G
STATE: NM-05-157

10. Consultant Report No.
BAS 07-05-31

11. Customer Name: Range Operating NM
Responsible Individual: Gary Benham
Address: P.O. Box 300
Loving, New Mexico 88256
Phone: (505) 441-0178

12. Customer Project No.:

13.Land Status	BLM	STATE	PRIVATE	OTHER	TOTAL
a. Area Surveyed (acres)	0	0	8.38 (+/-) Fed. Min.	0	8.38
b. Area of Effect (acres)	0	0	4.42 (-/+)	0	4.42

14. Linear: Length: 655' (Total) 50' Survey Width: 100'
Block: 600' x 600'

15. Location: (Maps Attached if Negative Survey)
a. State: New Mexico
b. County: Lea
c. BLM Field Office: Carlsbad
d. Nearest City or Town: Jal, NM
e. Legal Location: T 25S, R 37E, Section 3, NE¼ NE¼.
f. Well Pad Footages: 990' FNL, 330' FEL
g. USGS 7.5 Map Name(s) and Code Number(s): JAL NW, NM (1969, Photo Rev. 1979) 32103-B2

16. Project Data:

a. Records Search: Date of BLM File Review: 18 July 2005 Name of Reviewer: Danny Boone

Date of ARMS Data Review: 18 July 2005 Name of Reviewer: Ann Boone

Findings: LA 98596 is within 1.0 mile.

b. Description of Undertaking: The pad survey area has had impact from at least three buried pipelines, one old well pad (Inj. well) and related road. The proposed access road begins at Lea County Road J-4 and trends west across the southern portion of the pad survey area then north to a point approximately 150 feet inside of the southwest part. An estimated 605 feet of the access road is within the pad survey area, therefore survey acres were estimated on the 600 feet by 600 feet pad plus 50 feet in length by 100 feet in width of access road. Impact acres are unknown but were estimated on a 400 feet by 400 feet pad plus 655 feet in length by 50 feet in width of access road. Plats for the project are attached to this report.

c. Environmental Setting:

Topography: West sloping, on the east side of an unamed ephemeral drainage.

Vegetation: Overall goundcover is approximately 35% consisting primrily of mesquite, broom snakeweed, prickly pear cactus, various grasses and other flora.

NRCS: Simona-Tonuco association: Nearly level and gently undulating, loamy and sandy soils that are shallow to indurated caliche.

d. Field Methods:

Transects: A parallel grid spaced 15 meters or less apart for the pad and one spaced up to 15 meters on each side of staked centerline for the access road.

Crew Size: One

Time in Field: 2.5 hours.

e. Artifacts Collected: None

17. Cultural Resource Findings:

a. Identification and description: None

b. Evaluation of significance of Each Resource:

18. Management Summary (Recommendations):

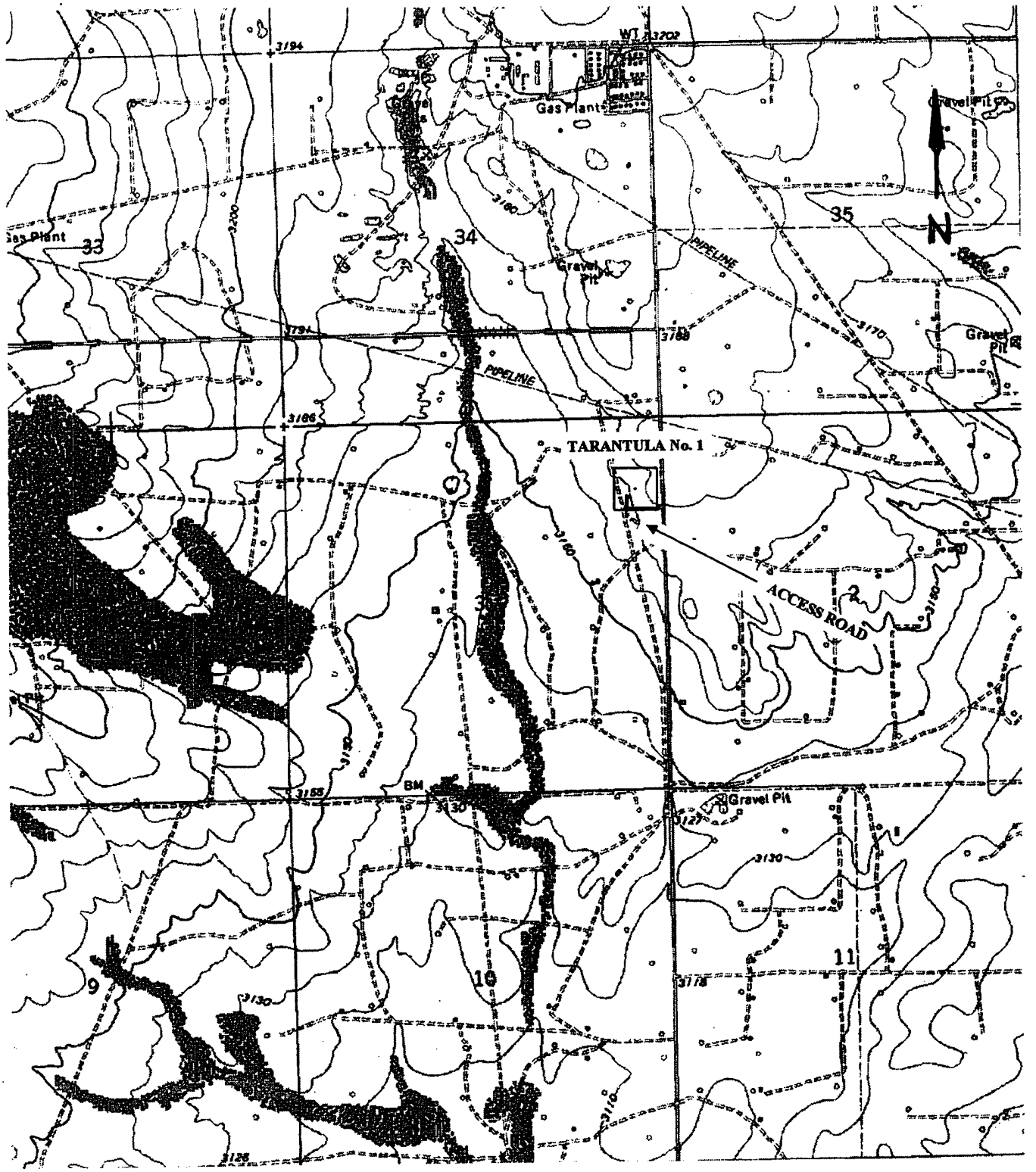
Archaeological clearance of a pad and access road for the Tarantula "3" Fed. well No. 1 for Range Operating New Mexico, Inc. as presently staked is recommended. If cultural resources are encountered at any time all activity should cease and the BLM archaeologist notified immediately.

19.

I certify that the information provided above is correct and accurate and meets all appreciable BLM standards.

Responsible Archaeologist Danny Boone 21 July 2005

Signature Date



Location Map of a pad and access road for the Tarantula "3" Fed. well No. 1 for Range Operating New Mexico, Inc. in Section 3, T25S, R37E, NMPM, LEA County, NM.
Map Reference: USGS 7.5' Series; JAL NW, NM (1969, Photo Rev. 1979) 32103-B2

SCALE 1:24000

1 0 ½ 1 MILE

1000 0 1000 2000 3000 4000 5000 6000 7000 FEET

1 .5 0 1 KILOMETER

BAS

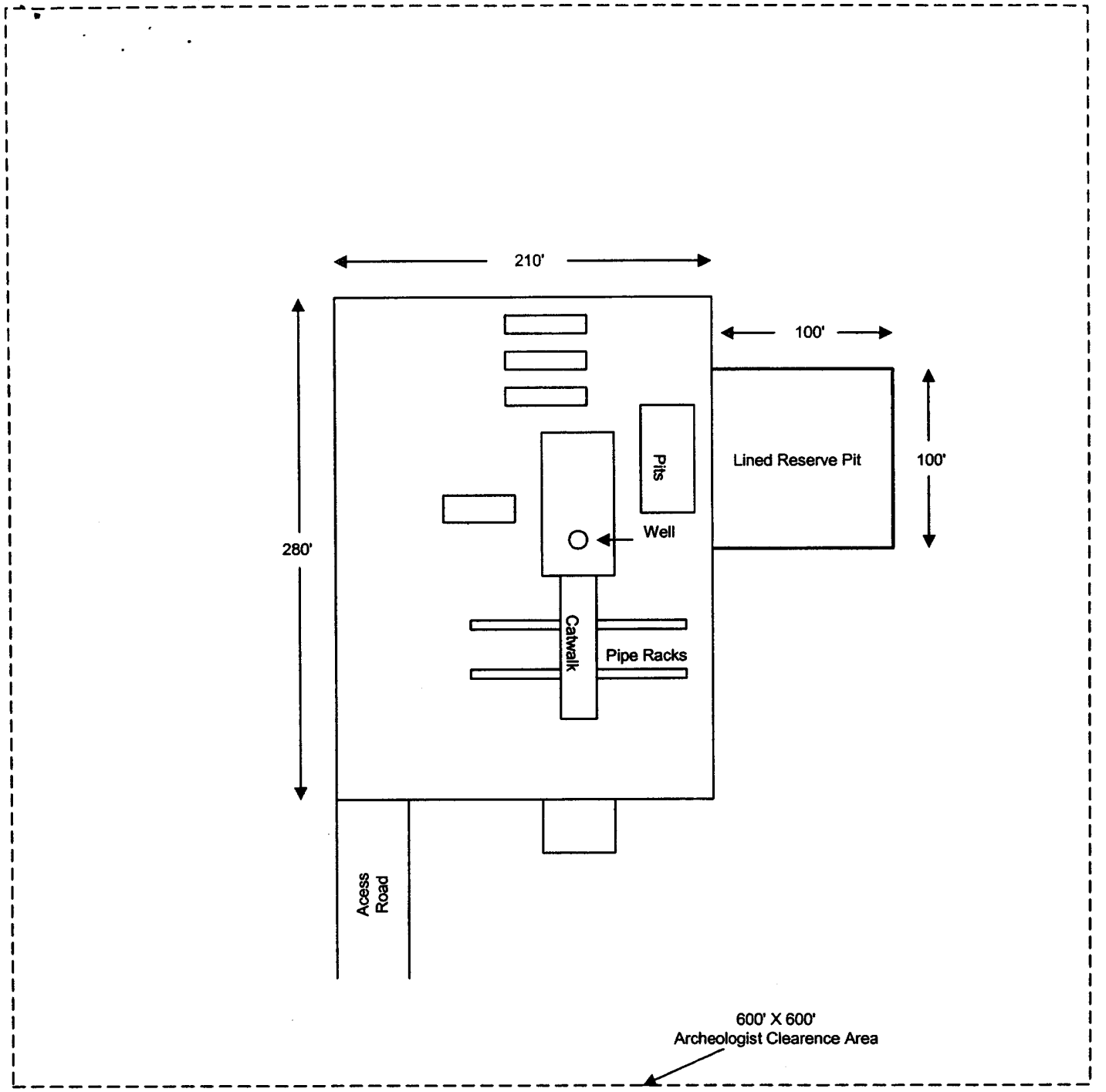


Exhibit C
Rig and Location Layout

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

ROSWELL FIELD OFFICE
2909 West Second Street
Roswell, New Mexico 88201

Statement Accepting Responsibility for Operations

Operator Name:	Range Operating New Mexico, Inc.
Street or Box:	777 Main Street Suite 800
City, State:	Fort Worth TX
Zip Code:	76102

The undersigned accepts all applicable terms, conditions, stipulations, and restrictions concerning opertions conducted on the leased land or portion thereof, as described below:

Lease No.:	LC032592A
Legal Description of land:	East quarter of Sec. 3, T25S, R37E
Formations:	Blinbry, Tubb, Drinkard
Bond Coverage: (State, Natonwide or Individual)	Statewide
BLM Bond File No.:	NM 2399

Authorized Signature: _____

Title: Petroleum Engineer

Date: 8-08-2005

Bobby Ebeier

From: Bobby Ebeier
Sent: Monday, August 08, 2005 4:22 PM
To: Linda Stiles
Cc: Andrew Tullis
Subject: Surface Damages--Tarantula "3" Fed #1 well

Linda:

Please accept this e-mail as my testimony that I have made an agreement to pay surface damages to Mr. and Mrs. Kennann for the Tarantula "3" Fed #1 well located in the E/2 E/2 of Section 3, T-25-S, R-37-E, Lea County, NM. The Kennanns are represented by Mr. Leo V. "Flap" Sims, II of Hobbs, NM (505.393.3024). Please call me if you have any questions. Thanks.

Robert Ebeier
Senior Landman

SPECIAL DRILLING STIPULATIONS

THE FOLLOWING DATA IS REQUIRED ON THE WELL SIGN

Operator's Name Range Operating New Mexico Inc. Well Name & No. Tarantula Federal 3 #1
Location 990 FNL & 330 FEL Sec. 3, T. 25 S, R 37 E.
Lease No. LC-032592-A County Lea State New Mexico

The Special stipulations check marked below are applicable to the above described well and approval of this application to drill is conditioned upon compliance with such stipulations in addition to the General Requirements. The permittee should be familiar with the General Requirements, a copy of which is available from a Bureau of Land Management office. EACH PERMITTEE HAS THE RIGHT OF ADMINISTRATIVE APPEAL TO THESE STIPULATIONS PURSUANT TO TITLE 43 CRF 3165.3 AND 3165.4.

This permit is valid for a period of one year from the date of approval or until lease expiration or termination whichever is shorter.

I. SPECIAL ENVIRONMENT REQUIREMENTS

( ) Lesser Prairie Chicken (stips attached)
( ) San Simon Swale (stips attached)
( ) Flood plain (stips attached)
( ) Other

II. ON LEASE - SURFACE REQUIREMENTS PRIOR TO DRILLING

(X) The BLM will monitor construction of this drill site. Notify the (X) Carlsbad Field Office at (505) 234-5972 ( ) Hobbs Office (505) 393-3612, at least 3 working days prior to commencing construction.

(X) Roads and the drill pad for this well must be surfaced with 6 inches of compacted caliche.

( ) All topsoil and vegetation encountered during the construction of the drill site area will be stockpiled and made available for resurfacing of the disturbed area after completion of the drilling operation. Topsoil on the subject location is approximately _____inches in depth. Approximately _____cubic yards of topsoil material will be stockpiled for reclamation.

( ) Other.

III. WELL COMPLETION REQUIREMENTS

( ) A Communlitization Agreement covering the acreage dedicated to the well must be filed for approval with the BLM. The effective date of the agreement must be prior to any sales.

(X) Surface Restoration: If the well is a producer, the reserve pit(s) will be backfilled when dry, and cut-and-fill slopes will be reduced to a slope of 3:1 or less. All areas of the pad not necessary for production must be re-contoured to resemble the original contours of the surrounding terrain, and topsoil must be re-distributed and re-seeded with a drill equipped with a depth indicator (set at depth of ½ inch) with the following seed mixture, in pounds of Pure Live Seed (PLS), per acre.

(X) A. Seed Mixture 1 (Loamy Sites)
Side Oats Grama (*Bouteloua curtipendula*) 5.0
Sand Dropseed (*Sporobolus cryptandrus*) 1.0

( ) B. Seed Mixture 2 (Sandy Sites)
Sand Dropseed (*Sporobolus crptandrus)* 1.0
Sand Lovegrass (*Eragostis trichodes*) 1.0
Plains Bristlegrass (*Setaria magrostachya*) 2.0

( ) C. Seed Mixture 3 (Shallow Sites)
Side oats Grama (*Boute curtipendula*) 1.0

( ) D. Seed Mixture 4 (Gypsum Sites)
Alkali Sacaton (*Sporobollud airoides*) 1.0
Four-Wing Saltbush (*Atriplex canescens*) 5.0

( ) OTHER SEE ATTACHED SEED MIXTURE

Seeding should be done either late in the fall (September 15 - November 15, before freeze up, or early as possible the following spring to take advantage of available ground moisture.

( ) Other.

RESERVE PIT CONSTRUCTION STANDARDS 12- Ref: C-144

The reserve pit shall be constructed entirely in cut material and lined with 8 mil plastic.

Mineral material extracted during construction of the reserve pit may be used for development of the pad and access road as needed. Removal of any additional material on location must be purchased from BLM.

Reclamation: Reclamation of this type of deep pit will consist of pushing the pit walls into the pit when sufficiently dry to support track equipment. The pit liner is NOT TO BE RUPTURED to facilitate drying; a ten month period after completion of the well is allowed for drying of the pit contents.

The pit area must be contoured to the natural terrain with all contaminated drilling mud buried with at least 3 feet of clean soil. The reclaimed area will then be seeded as specified in this permit.

OPTIONAL PIT CONSTRUCTION STANDARDS

The reserve pit may be constructed in predominantly fill material if:

(1) Lined as specified above and

(2) A borrow/caliche/gravel pit can be constructed immediately adjacent to the reserve pit and it capable of containing all reserve pit contents. The mineral material removed in the process can be used for pad and access road construction. However, a material sales contract must be purchased from the BLM prior to removal of the material.

Reclamation of the reserve pit consists of bulldozing all reserve pit contents and contaminants into the borrow pit and covering with a minimum of 3 feet of clean soil material. The entire area must be recontoured, all trash removed, and reseeded as specified in this permit.

CULTURAL

Whether or not an archaeological survey has been completed and notwithstanding that operations are being conducted as approved, the lessee/operator/grantee shall notify the BLM immediately if previously unidentified cultural resources are observed during surface disturbing operations. From the time of the observation, the lessee/operator/grantee shall avoid operations that will result in disturbance to these cultural resources until directed to processed by BLM.

TRASH PIT STIPS

All trash, junk, and other waste material shall be contained in trash cages or bins to prevent scattering and will be removed and deposited in an approved sanitary landfill. Burial on site is not permitted.

CONDITIONS OF APPROVAL - DRILLING

Operator's Name: Range Operating New Mexico Inc. Well No. 1 – Trantula Federal 3
Location: 990' FNL & 330' FEL sec. 3, T. 25 S., R. 37 E.
Lease: LC-032592(a)

.....

I. DRILLING OPERATIONS REQUIREMENTS:

1. The Bureau of Land Management (BLM) is to be notified at (505) 393-3612 in sufficient time for a representative to witness:

A. Spudding

B. Cementing casing: **8-5/8** inch **5-1/2** inch

2. Unless the production casing has been run and cemented or the well has been properly plugged, the drilling rig shall not be removed from over the hole without prior approval of this office.

3. Include the API No. assigned to well by NMOCD on the subsequent report of setting the first casing string.

II. CASING:

1. **8-5/8** inch surface casing should be set **at approximately 1100 feet in the Rustler Anhydrite above the top of the Salt**, below usable water and circulate cement to the surface. If cement does not circulate to the surface, the Hobbs BLM office shall be notified and a temperature survey or cement bond log shall be run to verify the top of the cement. Remedial cementing shall be completed prior to drilling out that string.

2. Minimum required fill of cement behind the **5-1/2** inch production casing is **sufficient to circulate to the surface.**

III. PRESSURE CONTROL:

1. Before drilling below the **8-5/8** inch surface casing, the blowout preventer assembly shall consist of a minimum of One Annular Preventer or Two Ram-Type Preventers and a Kelly Cock/Stabbing Valve.

2. Minimum working pressure of the blowout preventer and related equipment (BOPE) shall be **2000** psi.

3. Before drilling below the **8-5/8** inch surface casing, the BOPE shall be tested as described in Onshore Order No. 2. Any equipment failing to test satisfactorily shall be repaired or replaced.

A. The results of the test will be reported to the BLM Hobbs Office at 414 West Taylor, Hobbs, New Mexico 88240.

B. Testing fluid must be water or an appropriate clear liquid suitable for sub-freezing temperatures. Use of drilling mud for testing is not permitted since it can mask small leaks.

C. Testing must be done in a safe workman like manner. Hard line connections shall be required.

BLM Serial Number: LC-032592-A
Company Reference: Range Operating
Well No. & Name: Tarantula Federal 3 #1

STANDARD STIPULATIONS FOR PERMANENT RESOURCE ROADS
CARLSBAD FIELD OFFICE

A copy of the grant and attachments, including stipulations and map, will be on location during construction. BLM personnel may request to view a copy of your permit during construction to ensure compliance with all stipulations.

The holder/grantee/permittee shall hereafter be identified as the holder in these stipulations. The Authorized Officer is the person who approves the Application for Permit to Drill (APD) and/or Right-of-Way (ROW).

GENERAL REQUIREMENTS

A. The holder shall indemnify the United States against any liability for damage to life or property arising from the occupancy or use of public lands under this grant.

B. The holder shall comply with all applicable Federal laws and regulations existing or hereafter enacted or promulgated. In any event, the holder shall comply with the Toxic Substances Control Act of 1976, as amended (15 U.S.C. 2601, *et. seq.*) with regard to any toxic substances that are used, generated by or stored on the right-of-way or on facilities authorized by this grant. (See 40 CFR, Part 702-799 and especially, provisions on polychlorinated biphenyls, 40 CFR 761.1-761.193.) Additionally, any release of toxic substances (leaks, spills, etc.) in excess of the reportable quantity established by 40 CFR, Part 117 shall be reported as required by the Comprehensive Environmental Response, Compensation and Liability Act, Section 102b. A copy of any report required or requested by any Federal agency or State government as a result of a reportable release or spill of any toxic substances shall be furnished to the Authorized Officer concurrent with the filing of the reports to the involved Federal agency or State government.

C. The holder agrees to indemnify the United States against any liability arising from the release of any hazardous substance or hazardous waste (as these terms are defined in the Comprehensive Environmental Response, Compensation and Liability Act of 1980, 42 U.S.C. 9601, *et. seq.* or the Resource Conservation and Recovery Act, 42 U.S.C. 6901, *et. seq.*) on the right-of-way (unless the release or threatened release is wholly unrelated to the right-of-way holder's activity on the right-of-way). This agreement applies without regard to whether a release is caused by the holder, its agent, or unrelated third parties.

D. If, during any phase of the construction, operation, maintenance, or termination of the road, any oil or other pollutant should be discharged, impacting Federal lands, the control and total removal, disposal, and cleaning up of such oil of other pollutant, wherever found, shall be the responsibility of the holder, regardless of fault. Upon failure of the holder to control, dispose of, or clean up such discharge on or affecting Federal lands, or to repair all damages to Federal lands resulting there from, the Authorized Officer may take such measures as deemed necessary to control and cleanup the discharge and restore the area, including, where appropriate, the aquatic environment and fish and wildlife habitats, at the full expense of the holder. Such action by the Authorized Officer shall not relieve the holder of any liability or responsibility.

E. The holder shall minimize disturbance to existing fences and other improvements on public domain surface. The holder is required to promptly repair improvements to at least their former state. Functional use of these improvements will be maintained at all times.

The holder will make a documented good-faith effort to contact the owner of any improvements prior to disturbing them. When necessary to pass through a fence line, the fence shall be braced on both sides of the passageway prior to cutting of the fence.

F. The Holder shall ensure that the entire right-of-way, including the driving surface, ditching and drainage control structures, road verges and any construction sites or zones, will be kept free of the following plant species: Malta starthistle, African rue, Scotch thistle and salt cedar.

Holder agrees to comply with the following stipulations:

1. ROAD WIDTH AND GRADE

The road will have a driving surface of 14 feet (all roads shall have a minimum driving surface of 12 feet, unless local conditions dictate a different width). The maximum grade is 10 percent unless the box below is checked. Maximum width of surface disturbance from construction will be 30 feet.

/__/ Those segments of road where grade is in excess of 10% for more than 300 feet shall be designed by a professional engineer.

2. CROWNING AND DITCHING

Crowning with materials on site and ditching on one side of the road on the uphill side will be required. The road cross-section will conform to the cross section diagrams in Figure 1. If conditions dictate, ditching may be required for both sides of the road; if local conditions permit, a flat-bladed road may be considered (if these conditions exist, check the appropriate box below). The crown shall have a grade of approximately 2% (i.e., 1" crown on a 12' wide road).

/_X_/ Ditching will be required on both sides of the roadway as shown on the attached map or as staked in the field.

/__/ Flat-blading is authorized on segment(s) delineated on the attached map.

3. DRAINAGE

Drainage control shall be ensured over the entire road through the use of borrow ditches, outsloping, insloping, natural rolling topography, lead-off (turnout) ditches, culverts, and/or drainage dips.

A. All lead-off ditches shall be graded to drain water with a 1 percent minimum to 3 percent maximum ditch slope. The spacing interval for lead-off ditches shall be determined according to the following table, but may be amended depending upon existing soil types and centerline road slope (in %):

SPACING INTERVAL FOR TURNOUT DITCHES

Percent slope	Spacing interval
0% - 4%	400' - 150'
4% - 6%	250' - 125'
6% - 8%	200' - 100'
8% - 10%	150' - 75'

A typical lead-off ditch has a minimum depth of 1 foot below and a berm 6 inches above natural ground level. The berm will be on the down-slope side of the lead-off ditch. The ditch end will tie into vegetation whenever possible.

For this road the spacing interval for lead-off ditches shall be at

/_x_/ 400 foot intervals.

/__/ _____ foot intervals.

/__/ locations staked in the field as per spacing intervals above.

/__/ locations delineated on the attached map.

B. Culvert pipes shall be used for cross drains where drainage dips or low water crossings are not feasible. The minimum culvert diameter must be 18 inches. Any culvert pipe installed shall be of sufficient diameter to pass the anticipated flow of water. Culvert location and required diameter are shown on the attached map (Further details can be obtained from the Roswell District Office or the appropriate Resource Area Office).

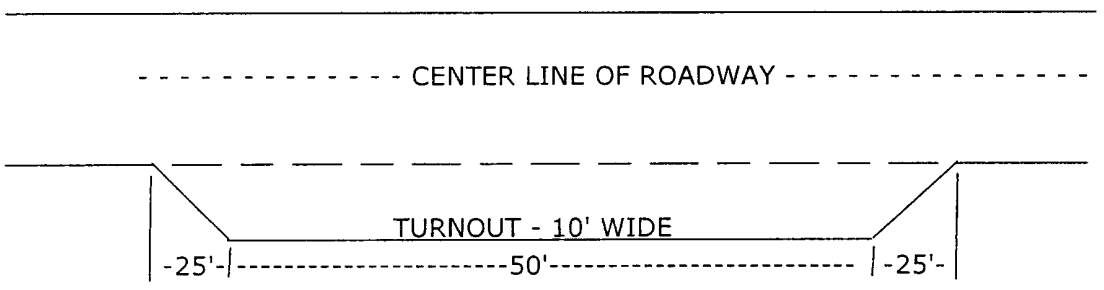
C. On road slopes exceeding 2%, drainage dips shall drain water into an adjacent lead-off ditch. Drainage dip location and spacing shall be determined by the formula:

$$\text{spacing interval} = \frac{400'}{\text{road slope in \%}} + 100'$$

Example: 4% slope: spacing interval = $\frac{400}{4} + 100 = 200$ feet

4. TURNOUTS

Unless otherwise approved by the Authorized Officer, vehicle turnouts will be required. Turnouts will be located at 2000-foot intervals, or the turnouts will be intervisible, whichever is less. Turnouts will conform to the following diagram:



STANDARD TURNOUT - PLAN VIEW

5. SURFACING

Surfacing of the road or those portions identified on the attached map may, at the direction of the Authorized Officer, be required, if necessary, to maintain traffic within the right-of-way with caliche, gravel, or other surfacing material which shall be approved by the Authorized Officer. When surfacing is required, surfacing materials will be compacted to a minimum thickness of six inches with caliche material. The width of surfacing shall be no less than the driving surface. Prior to using any mineral materials from an existing or proposed Federal source, authorization must be obtained from the Authorized Officer.

A sales contract for the removal of mineral materials (caliche, sand, gravel, fill dirt, etc.) from an authorized pit, site, or on location must be obtained from the BLM prior to using any such mineral material from public lands. Contact the BLM solid minerals staff for the various options to purchase mineral material.

6. CATTLEGUARDS

Where used, all cattleguard grids and foundation designs and construction shall meet the American Association of State Highway and Transportation Officials (AASHTO) Load Rating H-20, although AASHTO U-80 rated grids shall be required where heavy loads (exceeding H-20 loading), are anticipated (See BLM standard drawings for cattleguards). Cattleguard grid length shall not be less than 8 feet and width of not less than 14 feet. A wire gate (16-foot minimum width) will be provided on one side of the cattleguard unless requested otherwise by the surface user.

7. MAINTENANCE

The holder shall maintain the road in a safe, usable condition. A maintenance program shall include, but not be limited to blading, ditching, culvert installation, culvert cleaning, drainage installation, cattleguard maintenance, and surfacing.

8. PUBLIC ACCESS

Public access along this road will not be restricted by the holder without specific written approval being granted by the Authorized Officer. Gates or cattleguards on public lands will not be locked or closed to public use unless closure is specifically determined to be necessary and is authorized in writing by the Authorized Officer.

9. CULTURAL RESOURCES

Any cultural and/or paleontological resource (historic or prehistoric site or object) discovered by the holder, or any person working on the holder's behalf, on public or Federal land shall be immediately reported to the authorized officer. The holder shall suspend all operations in the immediate area of such discovery until written authorization to proceed is issued by the authorized officer. An evaluation of the discovery will be made by the authorized officer to determine appropriate actions to prevent the loss of significant cultural or scientific values. The holder will be responsible for the cost of evaluation and any decision as to the proper mitigation measures will be made by the authorized officer after consulting with the holder.

10. SPECIAL STIPULATIONS:

District I
1625 N. French Dr., Hobbs, NM 88240
District II
1301 W. Grand Avenue, Artesia, NM 88210
District III
1000 Rio Brazos Road, Aztec, NM 87410
District IV
1220 S. St. Francis Dr., Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Oil Conservation Division
1220 South St. Francis Dr.
Santa Fe, NM 87505

Form C-144
June 1, 2004

For drilling and production facilities, submit to appropriate NMOCD District Office.
For downstream facilities, submit to Santa Fe office

Pit or Below-Grade Tank Registration or Closure

Is pit or below-grade tank covered by a "general plan"? Yes ■ No ☐
Type of action: Registration of a pit or below-grade tank ■ Closure of a pit or below-grade tank ☐

Operator: Range Operating New Mexico, Inc. Telephone: (817) 810-1908 e-mail address: lstiles@rangeresources.com
Address: 777 Main Street Suite 800 Fort Worth TX 76102
Facility or well name: Trantula 3 Federal 1 API #: 30-025- 37451 U/L or Qtr/Qtr 1 Sec 3 T 25S R 37E
County: Lea Latitude 32°09'49.51" N Longitude 103°08'34.16" W NAD: 1927 ■ 1983 ☐
Surface Owner: Federal ■ State ☐ Private ☐ Indian ☐

Pit	Below-grade tank	
Type: Drilling ■ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ■ Unlined ☐ Liner type: Synthetic ☐ Thickness 12 mil Clay ☐ Pit Volume 14,000 bbl	Volume: ____bbl Type of fluid: _____ Construction material: _____ Double-walled, with leak detection? Yes ☐ If not, explain why not.	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water.)	Less than 50 feet 50 feet or more, but less than 100 feet X 100 feet or more	(20 points) (10 points) X (0 points)
Wellhead protection area: (Less than 200 feet from a private domestic water source, or less than 1000 feet from all other water sources.)	Yes No X	(20 points) (0 points) X
Distance to surface water: (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses.)	Less than 200 feet 200 feet or more, but less than 1000 feet 1000 feet or more X	(20 points) (10 points) (0 points) X
	Ranking Score (Total Points)	

If this is a pit closure: (1) Attach a diagram of the facility showing the pit's relationship to other equipment and tanks. (2) Indicate disposal location: (check the onsite box if your are burying in place) onsite ☐ offsite ☐ If offsite, name of facility_____. (3) Attach a general description of remedial action taken including remediation start date and end date. (4) Groundwater encountered: No ☐ Yes ☐ If yes, show depth below ground surface_____ft. and attach sample results.
(5) Attach soil sample results and a diagram of sample locations and excavations.

Additional Comments:

I hereby certify that the information above is true and complete to the best of my knowledge and belief. **I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ■, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.**

Date: 9-12-2005
Printed Name/Title Linda C. Stiles St. Engineering Tech Signature Linda C. Stiles

Your certification and NMOCD approval of this application/closure does not relieve the operator of liability should the contents of the pit or tank contaminate ground water or otherwise endanger public health or the environment. Nor does it relieve the operator of its responsibility for compliance with any other federal, state, or local laws and/or regulations.

Approval:
Printed Name/Title PETROLEUM ENGINEER Signature _____ Date: SEP 13 2005