

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

Form C-101

May 27, 2004

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

Submit to appropriate District Office

☐ AMENDED REPORT

MAY 23 2008

OCD-ARTESIA

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address RKI EXPLORATION & PRODUCTION, LLC. 3817 NW EXPRESSWAY SUITE 950 OKLAHOMA CITY, OKLAHOMA 73112		² OGRID Number 246289
³ Property Code 36900	⁴ Property Name RDX "16"	⁵ API Number 30-015-36385
⁶ Proposed Pool 1 WILDCAT-BONE SPRING ✓		⁷ Proposed Pool 2

⁷ Surface Location

UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	26S	30E		330'	NORTH	990'	EAST	EDDY

⁸ Proposed 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

Additional Well Information

¹¹ Work Type Code N	¹² Well Type Code O	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3097'
¹⁶ Multiple NO	¹⁷ Proposed Depth 8370'	¹⁸ Formation BONE SPRING	¹⁹ Contractor PERMIAN DRILLING	²⁰ Spud Date WHEN APPROVED
Depth to Groundwater 150+		Distance from nearest fresh water well 1.5 Mi NW		Distance from nearest surface water Red Bluff Lake 7 Mi southwest
Pit: Liner: Synthetic <input type="checkbox"/> _____ mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Closed-Loop System <input checked="" type="checkbox"/> Fresh Water <input checked="" type="checkbox"/> Brine <input checked="" type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
26"	20"	Conductor	40'	Redi-mix	Surface
17 1/2"	13 3/8"	54.5#	450'	401 Sx.	Surface
11"	8 5/8"	32#	3360'	904 Sx.	Surface
7 7/8"	5 1/2"	17#	8370'	456 Sx.	2075' FS

²² Describe the proposed program. If this application is to DEEPEN or PLUG BACK, give the data on the present productive zone and proposed new productive zone. Describe the blowout prevention program, if any. Use additional sheets if necessary.

NOTE: NEW PIT RULE 19.15.17
NMAC.

SEE ATTACHED SHEET

For use of closed loop system-
complete new form C-144.**NOTE:** New Pit Rule
NMAC 19-15-17

²³ I hereby certify that the information given above is true and complete to the best of my knowledge and belief. I further certify that the drilling pit will be constructed according to NMOCD guidelines <input checked="" type="checkbox"/> , a general permit <input type="checkbox"/> , or an (attached) alternative OCD-approved plan <input type="checkbox"/> .		OIL CONSERVATION DIVISION	
Printed name: Joe T. Janica		Approved by: <i>Jim W. Green</i>	
Title: Permit Engineer		Title: <i>District II Supervisor</i>	
Approval Date: 6/18/08		Expiration Date: 6/18/10	
Email Address: joejanica@valornet.com			
Date: 05/22/08	Phone: 575-391-8503	Conditions of Approval Attached <input type="checkbox"/>	

1. Drill 26" hole to 40'. Set 40' of 20" conductor pipe and cement to surface with Redi-mix.
2. Drill 17½" hole to 450'. Run and set 450' of 13 3/8" 54.5# J-55 ST&C casing. cement with 201 Sx. of 35/65 Class "C" POZ + 6% Bentonite, + 5# Gilsonite/Sx. + .125# Celoflake/Sx + 3% CaCl, Yield 1.95. tail in with 200 Sx. of Class "C" cement + 2% CaCl, + .125# Celoflakes/Sx. Yield 1.34, circulate cement to surface.
3. Drill 11" hole to 3360'. Run and set 3360' of 8 5/8" 32# J-55 ST&C casing. Cement with 704 Sx. of 35/65 POZ Class "C" POZ + 5% Salt, + 6% Bentonite, + 4#/Sx of Gilsonite, + .125#/Sx. of polyflakes. Yield 2.04 Tail in with 200 Sx. of Class "C" cement + 1% CaCl, + .125#/Sx. of polyflakes. Yield 1.33, circulate cement.
4. Drill 7 7/8" hole to 8370'. Run and set 8370' of 5½" 17# J-55 LT&C casing. Cement with 256 Sx. of 40/60 (CemPlus blend/LITEFIL(243/CF), + .3% TIC DISPERSANT, + 1% Antisettling agent, + .4% Midtemp Retarder, + .125#/Sx polyflakes, + .2% antifoamer. Yield 2.32. Tail in with 200 Sx. of 40/60 (ChemPlus Blend/LITEFIL(24#/CF) + .3% Tic Dispersant, + 1% Anti Settling Agent, + .2% Antifoamer, + .4% Midtemp Retarder, + .125#/Sx. of polyflakes. Yield 2.00. Estimate TOC 2075' from surface.

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

Form C-102
Revised October 12, 2005

Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number	Pool Code 96403	Pool Name WILDCAT-BONE SPRING
Property Code 36900	Property Name RDX "16"	Well Number 4
OGRID No. 246289	Operator Name RKI EXPLORATION & PRODUCTION	Elevation 3097'

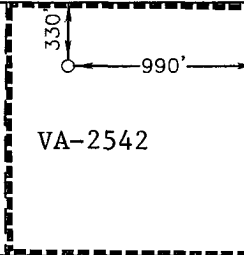
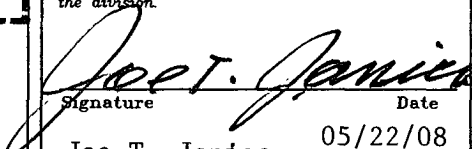
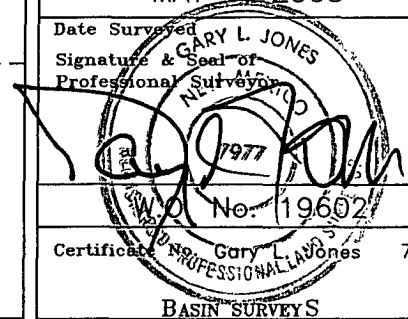
Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
A	16	26 S	30 E		330	NORTH	990	EAST	EDDY

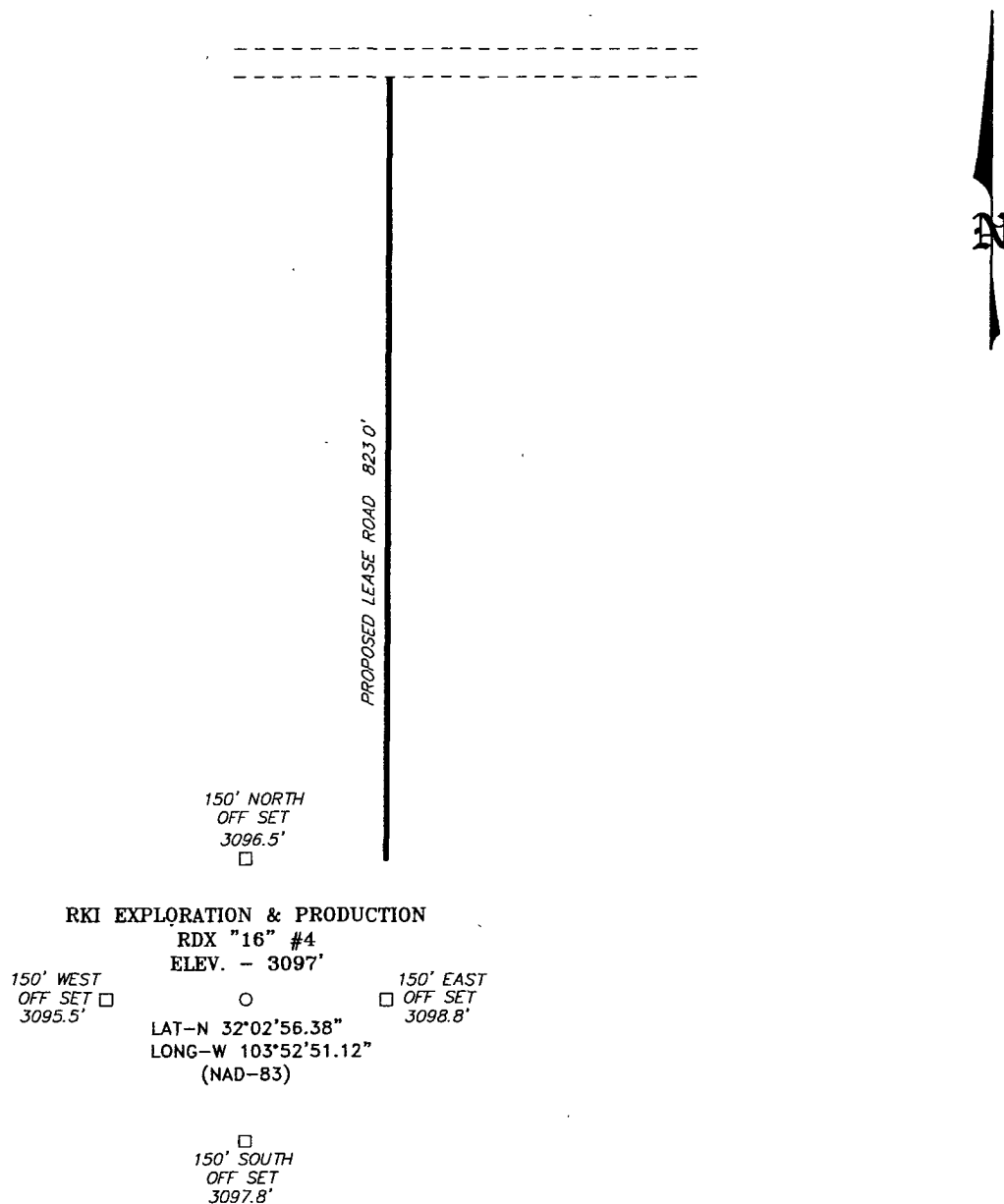
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 40	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

		SURFACE LOCATION LAT N.: 32°02'56.38" LONG W.: 103°52'51.12" SPC N.: 381855.4 E.: 681522.6 (NAD-83)		OPERATOR CERTIFICATION I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location pursuant to a contract with an owner of such a mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.  Signature Date Joe T. Janica 05/22/08 Printed Name
				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 supervision, and that the same is true and correct to the best of my belief. MAY 6, 2008 Date Surveyed Signature & Seal of Professional Surveyor  Certificate No. 19602 7977 BASIN SURVEYS

SECTION 16, TOWNSHIP 26 SOUTH, RANGE 30 EAST, N.M.P.M.,
EDDY COUNTY, NEW MEXICO.



DIRECTIONS TO LOCATION:

FROM THE JUNCTION OF HWY 285 AND WHITETHORN,
GO EAST AND FOLLOW EPNG PIPELINE FOR 10.4
MILES, TURN SOUTH FOR 0.9 MILES, THENCE TURN
EAST FOR 0.9 MILES TO PROPOSED LEASE ROAD.



SCALE: 1" = 200'

BASIN SURVEYS P.O. BOX 1786 - HOBBS, NEW MEXICO

W.O. Number: 19602 Drawn By: J. M. SMALL

Date: 05-07-2008 Disk: JMS 19602

RKI EXPLORATION & PRODUCTION

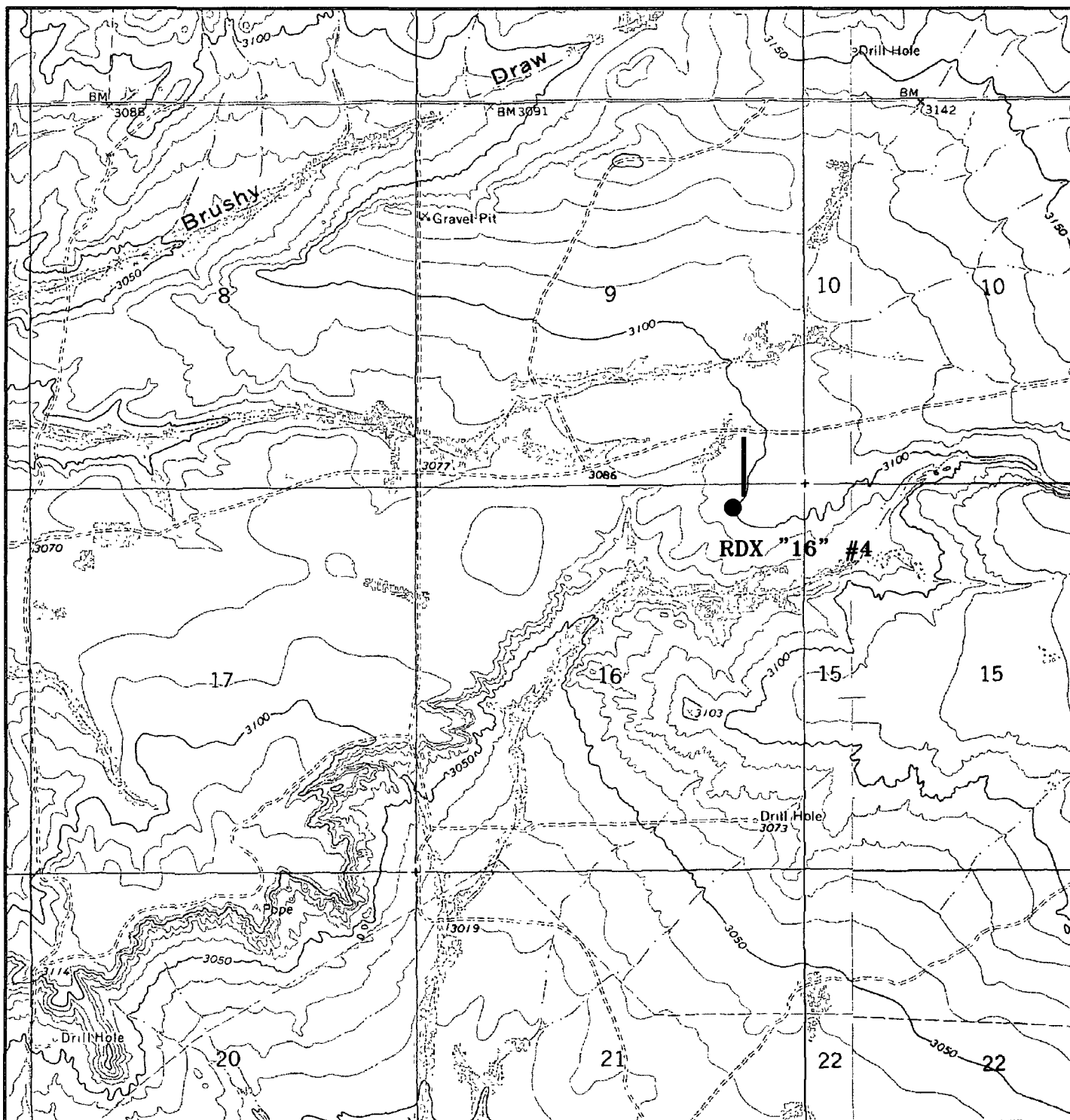
REF: RDX "16" #4 / Well Pad Topo

THE RDX "16" #4 LOCATED 330' FROM

THE NORTH LINE AND 990' FROM THE EAST LINE OF
SECTION 16, TOWNSHIP 26 SOUTH, RANGE 30 EAST,

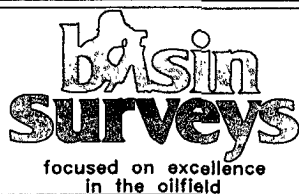
N.M.P.M., EDDY COUNTY, NEW MEXICO.

Survey Date: 05-06-2008 Sheet 1 of 1 Sheets



RDX "16" #3

Located at 330' FNL AND 990' FEL
Section 16, Township 26 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.



P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

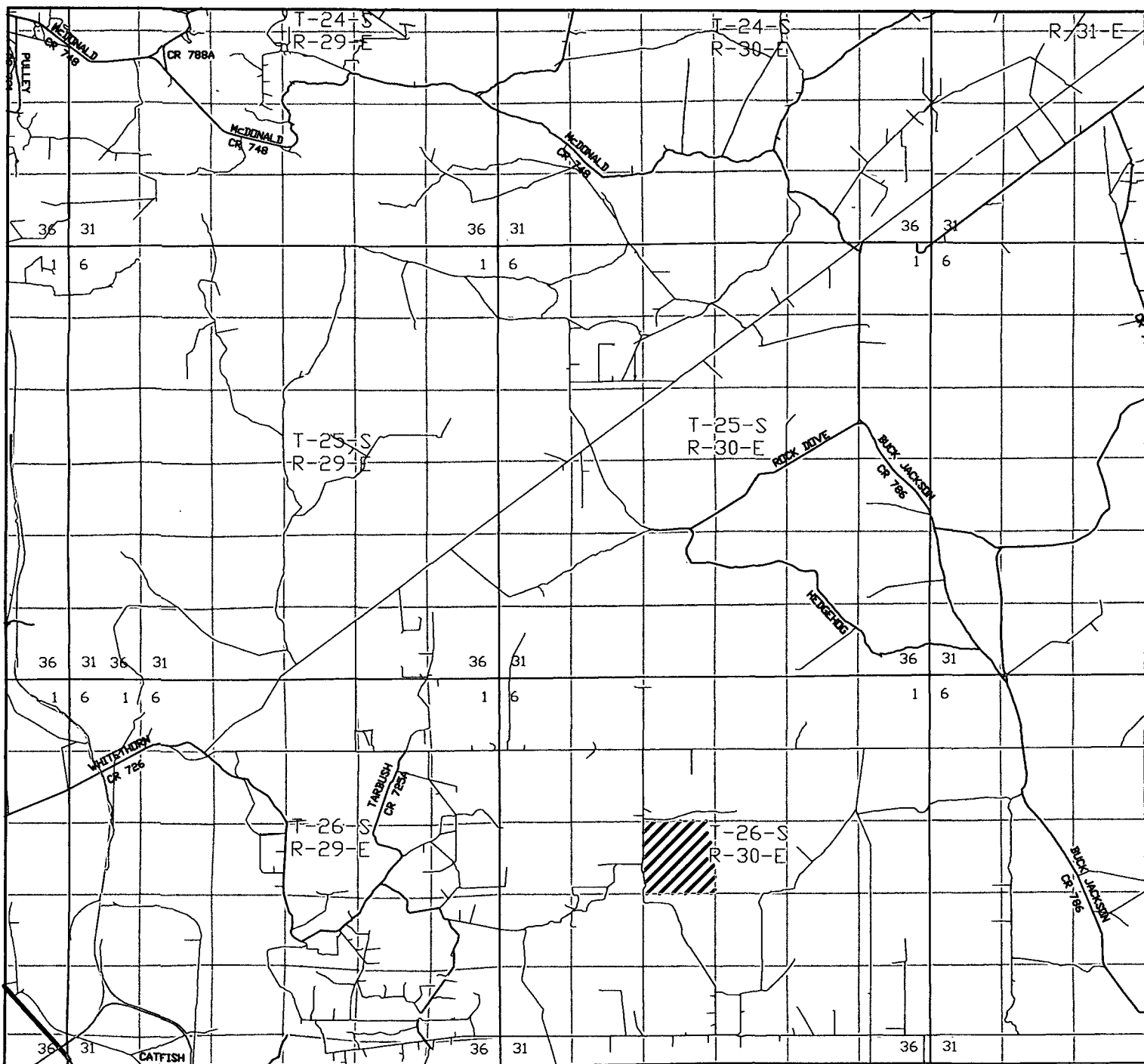
W.O. Number: 19602

Survey Date: 05-06-2008

Scale: 1" = 2000'

Date: 05-07-2008

RKI
**EXPLORATION &
PRODUCTION**



RDX "16" #4

Located at 330' FNL and 990' FEL

Section 16, Township 26 South, Range 30 East,
N.M.P.M., Eddy County, New Mexico.

basin
surveys
focused on excellence
in the oilfield

P.O. Box 1786
1120 N. West County Rd.
Hobbs, New Mexico 88241
(505) 393-7316 - Office
(505) 392-3074 - Fax
basinsurveys.com

W.O. Number: JMS 19602

Survey Date: 05-06-2008

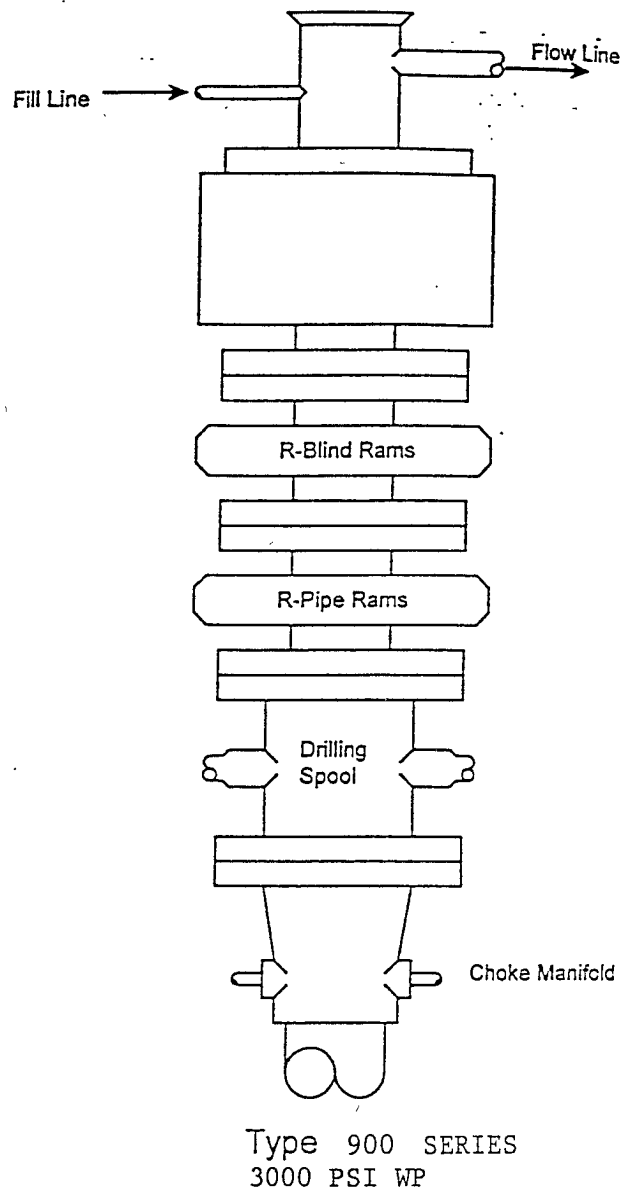
Scale: 1" = 2 MILES

Date: 05-07-2008

RKI
**EXPLORATION &
PRODUCTION**

BLOWOUT PREVENTER SYSTEM

3000 PSI



Choke Manifold Assembly for 5M WP System

