

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

APPLICATION FOR PERMIT TO DRILL, RE-ENTER, DEEPEN, JUN 28 2007
PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address RUBICON OIL & GAS, LLC 508 W. WALL ST MIDLAND, TX 79701		² GRID Number OCD-ARTESIA 217680 194266
³ Property Code 36592	⁵ Property Name LAKEWOOD 21-1	³ API Number 30 - 015 - 35687
⁹ Proposed Pool 1 Four mile Draw		⁶ Well No 1
UNDESIGNATED MORROW		

Surface Location

UL or lot no	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	21	19S	26E		1980	SOUTH	1200	WEST	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 NEW WELL	¹² Well Type Code GAS	¹³ Cable/Rotary ROTARY	¹⁴ Lease Type Code PRIVATE	¹⁵ Ground Level Elevation 3328'
¹⁶ Multiple NO	¹⁷ Proposed Depth 9800'	¹⁸ Formation MORROW	¹⁹ Contractor TBD	²⁰ Spud Date 7/15/2007
Depth to Groundwater 90'		Distance from nearest fresh water well 550'		Distance from nearest surface water >1000'
☐ Pit Liner Synthetic ☒ 12 mils thick Clay ☐		Pit Volume 5000 bbls		
☐ Closed-Loop System ☐		Drilling Method Fresh Water ☒ Brine ☐ Diesel/Oil-based ☐ Gas/Air		

²¹ Proposed Casing and Cement Program

Hole Size	Casing Size	Casing weight/foot	Setting Depth	Sacks of Cement	Estimated TOC
17 1/2"	13 3/8"	48	350'	390	SURF
12 1/4"	9 5/8"	36	1400'	650	SURF
8 3/4"	5 1/2"	17	9800'	1450	1200'

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

MUD PROGRAM: 0-350', MW 8.4-9 PPG FW NATIVE SPUD MUD. 350-7500', MW 8.4-8.6 PPG FW, 7500-9800' MW 8.8-9.4 CUT BRINE, KCD POLYMER.

BOPE - DIAGRAM ATTACHED

H2S- NO H2S SEEN IN IMMEDIATE AREA. WILL HAVE MINIMUM COMPLIANCE PKG SET UP PRIOR TO DRILLING OUT OF 9 5/8" CSG.

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 NMOC guidelines ☐ , a general permit ☐ , or an (attached) alternative OCD-approved plan ☐ . Signature <i>Kay Maddox / original</i>		OIL CONSERVATION DIVISION	
Printed name KAY MADDOX		Approved by BRYAN G. ARRANT	
Title REGULATORY AGENT		Title DISTRICT II GEOLOGIST	
E-mail Address Kay Maddox@yahoo.com		Approval Date JUN 28 2007 Expiration Date JUN 28 2008	
Date 6/27/2007 Phone (432) 638-8475		Conditions of Approval Attached ☒ See attached	

State of New Mexico

DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

Energy, Minerals and Natural Resources Department

Form C-102

DISTRICT II

1301 W GRAND AVENUE, ARTESIA, NM 88210

OIL CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

1620 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code 76960	Pool Name UNDESIGNATED MORROW
Property Code	Property Name LAKEWOOD	Well Number 21-1
OGRID No. 217680	Operator Name RUBICON OIL AND GAS, LLC	Elevation 3328'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
L	21	19-S	26-E		1980	SOUTH	1200	WEST	EDDY

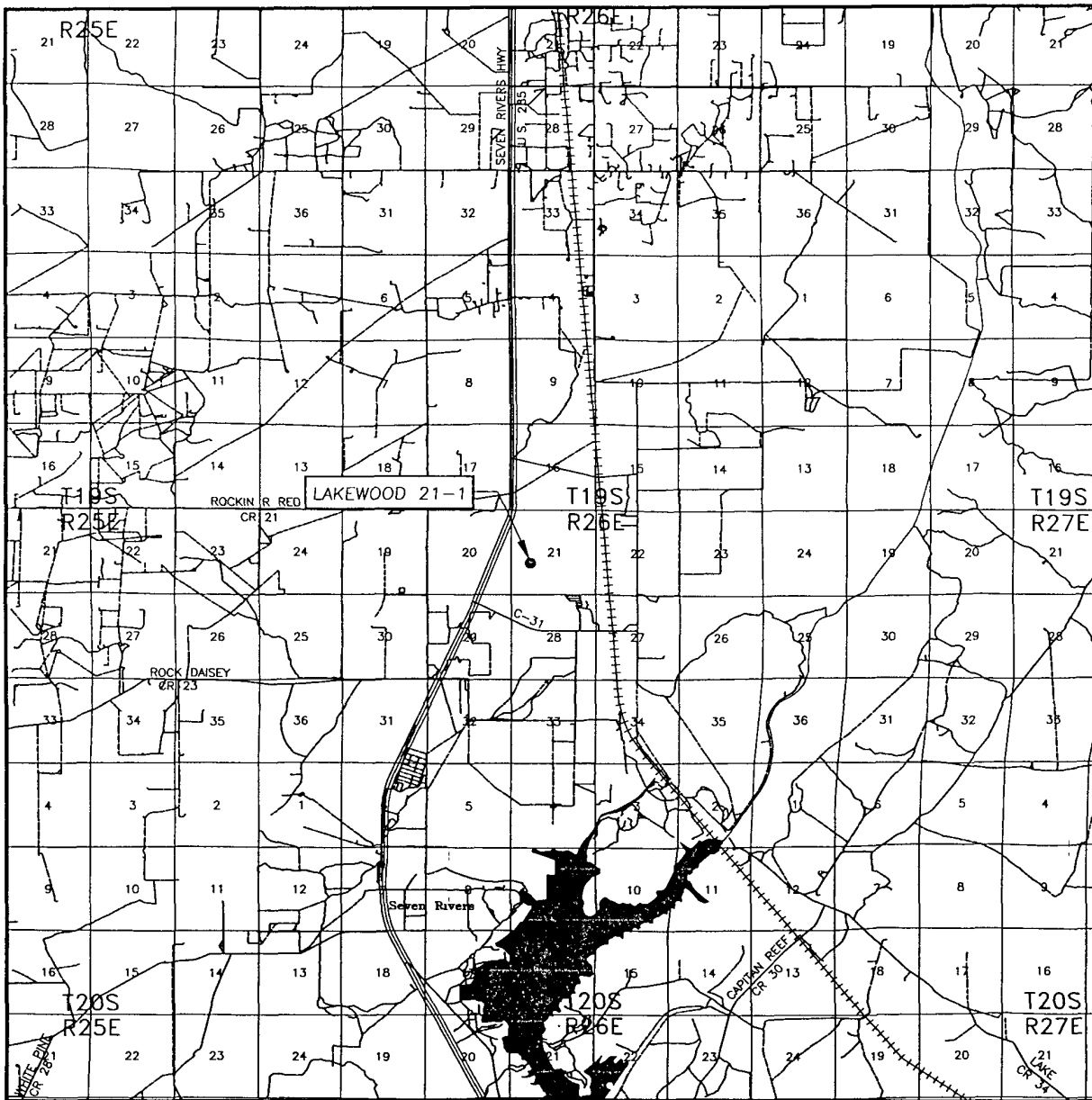
Bottom Hole Location If Different From Surface

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
Dedicated Acres 320	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 that the information 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 or has a right to drill this well at this location pursuant to a contract with an owner of such mineral or working interest, or to a voluntary pooling agreement or a compulsory pooling order heretofore entered by the division Kay Maddox 6/26/07 Signature Date KAY MADDOX 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.
	Date Surveyed Signature & Seal of Professional Surveyor Certificate No GARY EIDSON 12641 RONALD J. EIDSON 3239

VICINITY MAP



SCALE: 1" = 2 MILES

SEC 21 TWP. 19-S RGE. 26-E

SURVEY _____ N M P M.

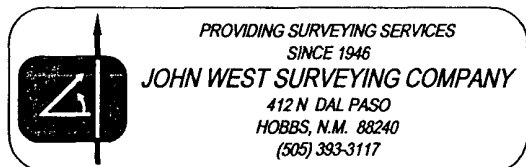
COUNTY EDDY STATE NEW MEXICO

DESCRIPTION 1980' FSL & 1200' FWL

ELEVATION 3328'

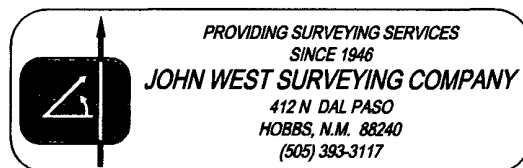
OPERATOR RUBICON OIL AND GAS, LLC

LEASE LAKEWOOD



CONTOUR INTERVAL ·
DAYTON, N.M. - 10'
LAKE MCMILLAN - NORTH, N.M. - 10'

U.S.G.S. TOPOGRAPHIC MAP
DAYTON, N.M.



**Rubicon Oil & Gas, LLC
Lakewood Prospect**

KB: NA'
GL: 3328'

1980' FSL & 1200' FWL
Sec. 21, T19S, R26E, UL L
Eddy County, NM

**Lakewood 21-1
Eddy County, New Mexico
Proposed Wellbore**

TD'd: NA
Spud: 7/2007

Bit Size: 17-1/2"
8.4 MW, 32+ Vis, Spud Mud

13-3/8" 48.0# H-40@ 350' w/ ~390sx C 2% CC
Cmt circ to surface

Bit Size: 12-1/4"
8.4 MW, Sweeps as needed

9-5/8" 36# J55 @ 1400' CMT w/ ~450 sks C Lite, 200 sks C
Neat Cmt circ to surface

Bit Size: 8-3/4"
If 8-3/4" have contingent 7" casing.
1400'-7,500 8.4-8.6 MW FW & sweeps
7,500'-9,800 8.8-9.2 MW cutbrine XCD & Starch

5-1/2" 17# L-80 LTC 9,800'

- w/ 1) Cement 9800' to 6000' 325 sks Lite + 470 sks H Poz
2) Cement 6,000' to 1,200' 600 sks C Lite + 100 sks C neat

PBTD (FC): ~9,760' TD: ~9,800'

San Andres ~1200'

TOC ~1,200'

Yeso ~3000'
Wolfcamp ~6900'

DV @ ~6000'

Atoka ~ 9,000'
Morrow Clastics ~9400'
TD Miss ~ 9800'

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1220 S St Francis Dr , Santa Fe, NM 87505

State of New Mexico
Energy Minerals and Natural Resources

Form C-144
June 1, 2004

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

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 Rubicon Oil & Gas, LLC Telephone 432-684-8006 e-mail address hlee@adventureexpl.com
Address 508 W Wall Ste 500 Midland, TX 79701
Facility or well name Lakewood 21-1 API # 30-015XXXXX U/L or Qtr/Qtr L Sec 21 T 19-S R 26-E
County Eddy Latitude 32-38-38.4 N Longitude 104-23-27.23W NAD 1927 (X) 1983 ☐
Surface Owner Federal ☐ State ☐ Private ☒ Indian ☐

Pit	Below-grade tank	
Type <u>Drilling</u> ☒ Production ☐ Disposal ☐ Workover ☐ Emergency ☐ Lined ☒ Unlined ☐ Liner type <u>Synthetic</u> ☒ Thickness <u>12</u> mil Clay ☐ Pit Volume <u>5000</u> bbl	Volume <u> </u> bbl Type of fluid <u> </u> Construction material <u> </u> Double-walled, with leak detection? Yes ☐ If not, explain why not <u> </u>	
Depth to ground water (vertical distance from bottom of pit to seasonal high water elevation of ground water) <u>90'</u> per NM Office of State Eng.	Less than 50 feet	(20 points)
	50 feet or more, but less than 100 feet	(10 points)
	<u>100 feet or more</u>	(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)	<u>Yes Windmill 550' East of well</u>	(20 points)
	No	(0 points)
Distance to surface water (horizontal distance to all wetlands, playas, irrigation canals, ditches, and perennial and ephemeral watercourses)	Less than 200 feet	(20 points)
	200 feet or more, but less than 1000 feet	(10 points)
	<u>1000 feet or more</u>	(0 points)
Ranking Score (Total Points)		30

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 you 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

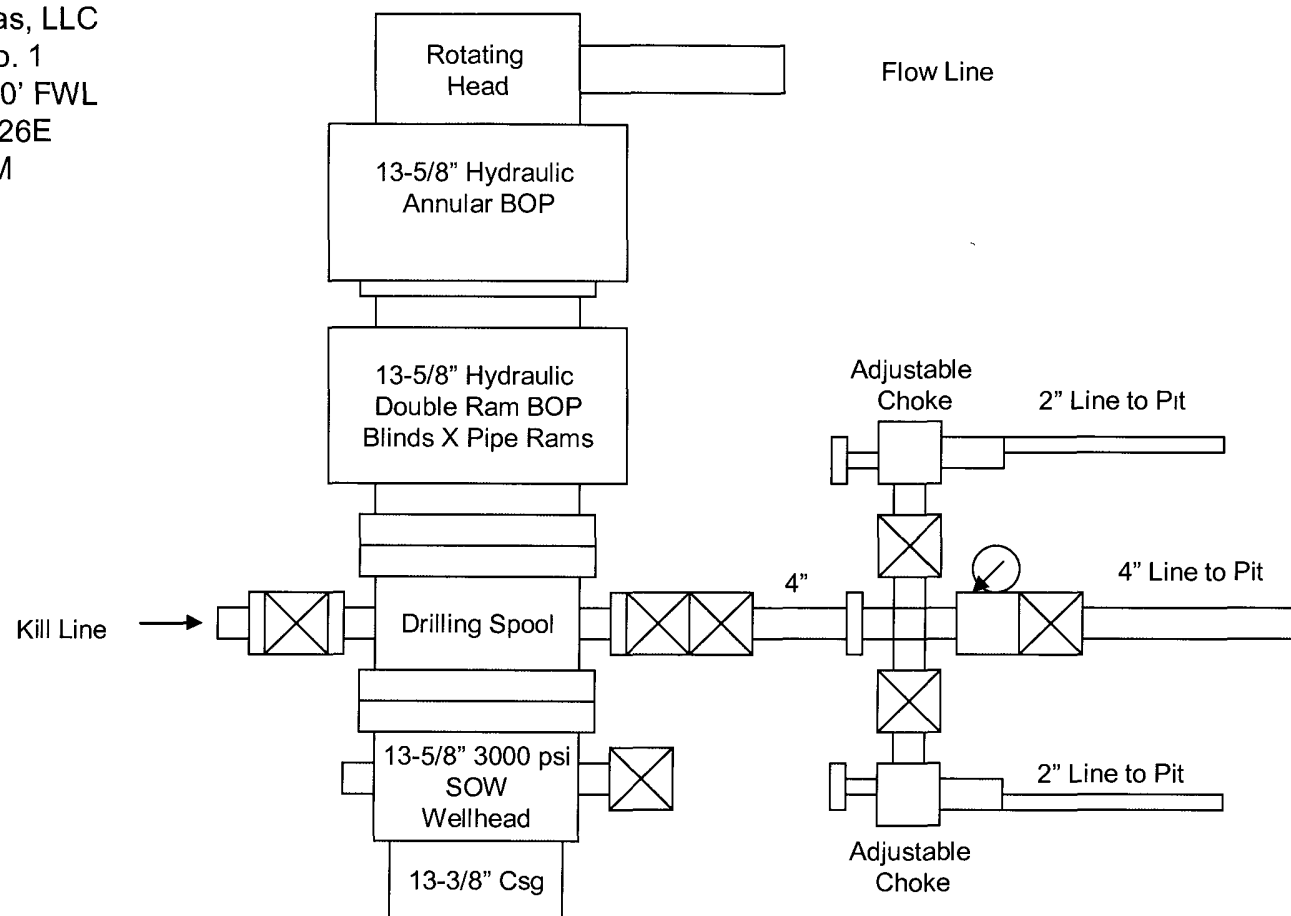
I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that the above-described pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒, a general permit ☐ or an (attached) alternative OCD-approved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

Date 6/26/2007
Printed Name/Title Hal Lee / Agent Signature Hal Lee

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 Signature Date

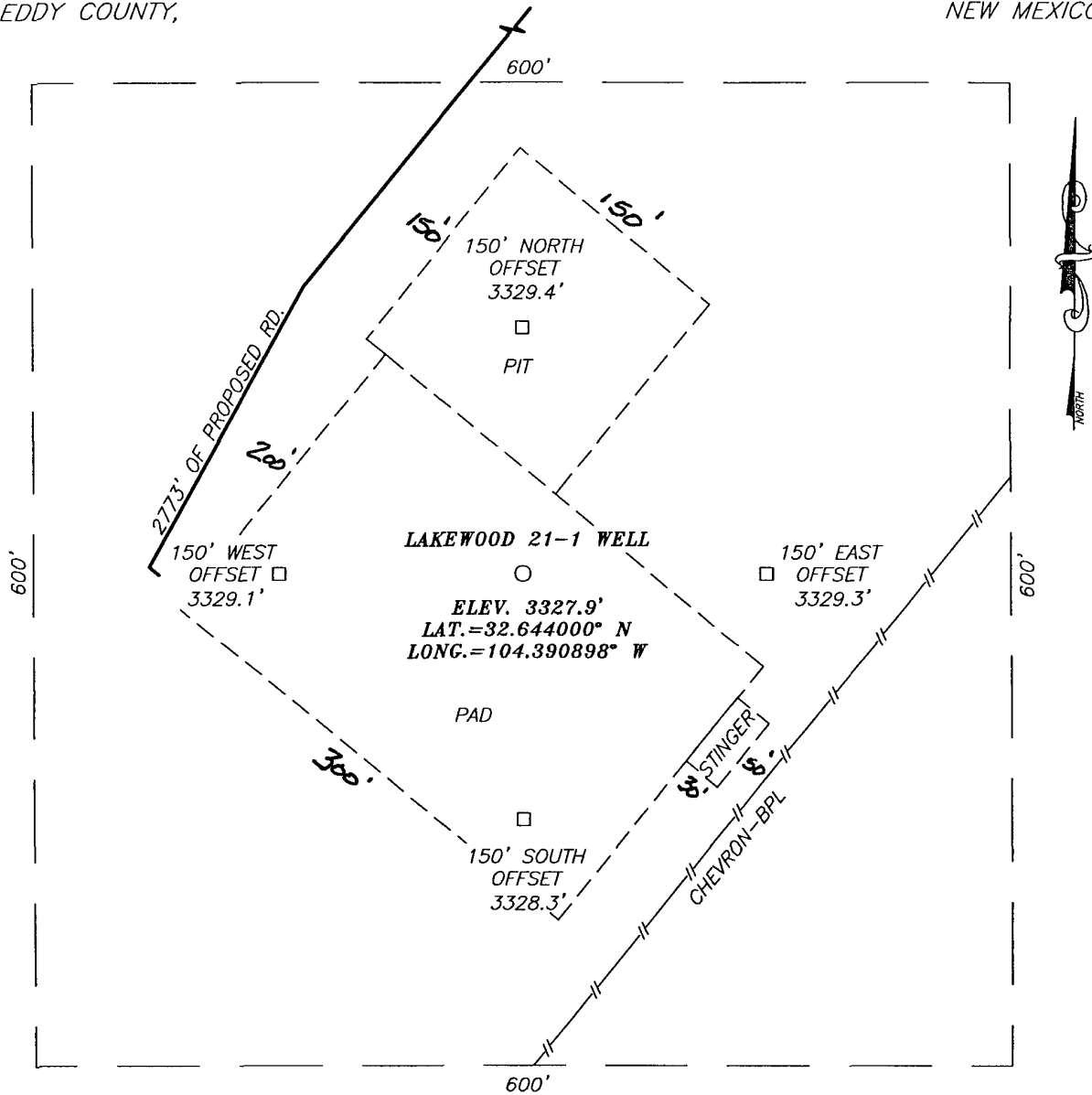
Rubicon Oil & Gas, LLC
Lakewood 21 No. 1
1980' FSL & 1200' FWL
Sec 21, T19S, R26E
Eddy County, NM



3000 psi Working Pressure
BOPE Configuration
And Choke Manifold

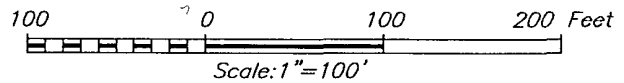
Exhibit "___"

SECTION 21, TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. #285
 (SEVEN RIVERS HWY.) AND CO. RD. #31
 (LAKEWOOD ROAD), GO NORTHEAST ON HWY. #285
 APPROX. 1.0 MILE. TURN RIGHT AND GO EAST
 APPROX. 0.1 MILE. TURN RIGHT ON RANCH ROAD
 GO SOUTH-SOUTHEAST APPROX. 0.5 MILES TO A
 STAKED ROAD. TURN RIGHT AND GO SOUTH
 APPROX. 926 FEET TO SOUTHWEST CORNER
 LOCATION.



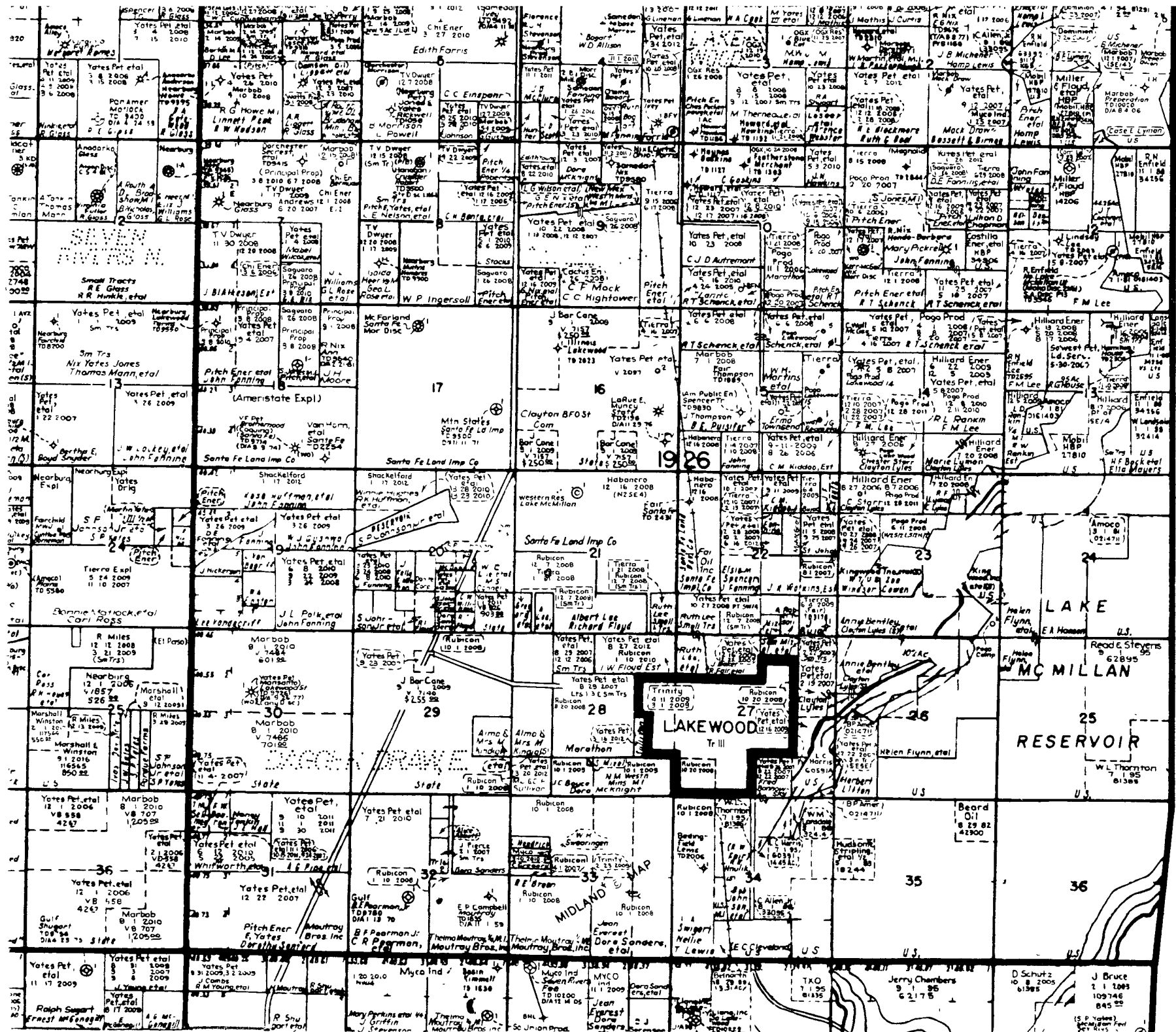
RUBICON OIL AND GAS, LLC

LAKEWOOD 21-1 WELL
 LOCATED 1980 FEET FROM THE SOUTH LINE
 AND 1200 FEET FROM THE WEST LINE OF SECTION 21,
 TOWNSHIP 19 SOUTH, RANGE 26 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 6/11/07		Sheet 1 of 1 Sheets	
W.O. Number: 07.11 0723		Dr By. AR	Rev 1:N/A
Date: 6/14/07	Disk:	07110723	Scale: 1"=100'



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



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LAKE
McMILLAN
RESERVOIR

LAKEWOOD
Tr III

MIDLAND & MAP