

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

RECEIVED Submit to appropriate District Office

AUG 20 2004

☐ AMENDED REPORT

OIL ARTESIA

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

¹ Operator Name and Address Edge Petroleum Operating Company, Inc. 1301 Travis, Suite 1700 Houston, Texas 77002		² OGRID Number 224400
		³ API Number 30 - 015 - 33579
⁴ Property Code	⁵ Property Name Red Lake 29 I State	⁶ Well No. #1
⁹ Proposed Pool 1 Artesia Red Lake Glorieta-Yeso, Northeast		¹⁰ Proposed Pool 2 Red Lake; Queen - Grayburg - San Andres

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
I	29	17-S	28-E		1650'	South	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 R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3678'
¹⁶ Multiple No	¹⁷ Proposed Depth 3800'	¹⁸ Formation Yes	¹⁹ Contractor United Drilling	²⁰ Spud Date September 1, 2004
Depth to Groundwater 250'		Distance from nearest fresh water well Over 1000'		Distance from nearest surface water Over 1000'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: _____ bbls Drilling Method: Closed-Loop System <input 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
12 1/4	8 5/8	24#	520'	350	Surface
7 7/8	5 1/2	14#	3800'	450	Surface

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.

Drill, case and complete well in the Glorieta-Yeso, Northeast or Queen-Grayburg-San Andres formation
BOP's include: 1) Hydrill double Ram 10" X 3000 psi
2) Double Ram 10" X 3000 psi
3) Choke Manifold 3" X 3000 psi
4) Three Station accumulator closing unit with remote control

Sources at Edge Petroleum Operating Company, Inc advised me that they do not anticipate enough H₂S from the surface to TD to meet the OCD's minimum requirements for the submission of a contingency plan per Rule 118, however H₂S monitoring equipment will be on location from below surface casing to TD.
Mud program attached.

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 ☒, a general permit ☐, or an (attached) alternative OCD-approved plan ☐.

OIL CONSERVATION DIVISION

Approved by:

TIM W. GUM

DISTRICT II SUPERVISOR

Printed name: **Randell K. Ford**

Title:

Title: **Consultant**

Approval Date: **AUG 25 2004**

Expiration Date: **AUG 25 2005**

E-mail Address: **Randell@rkford.com**

Date: **August 19, 2004**

Phone: **(432)682-0440**

Conditions of Approval Attached ☐

DISTRICT I

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DISTRICT II

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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
Property Code	Property Name RED LAKE 29 I STATE		Well Number 1
OGRID No. 224400	Operator Name EDGE PETROLEUM OPERATING COMPANY, INC.		Elevation 3678'

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	29	17-S	28-E		1650	SOUTH	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.
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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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=655674.7 N X=543394.6 E</p> <p>LAT.=32°48'08.85" N LONG.=104°11'31.58" W</p>	<p>990'</p>	
	<p>1650'</p>	
	<p>DATE SURVEYED JULY 29, 2004</p>	
	<p>SIGNATURE & SEAL OF PROFESSIONAL SURVEYOR</p> <p>GARY L. EDSON 8/2/04</p> <p>04.11.0948</p>	

OPERATOR CERTIFICATION

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

Signature

Randell K. Ford

Printed Name

Consultant

Title

August 3, 2004

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
supervision and that the same is true and
correct to the best of my belief.

JULY 29, 2004

Date Surveyed

LA

Signature & Seal of
Professional Surveyor

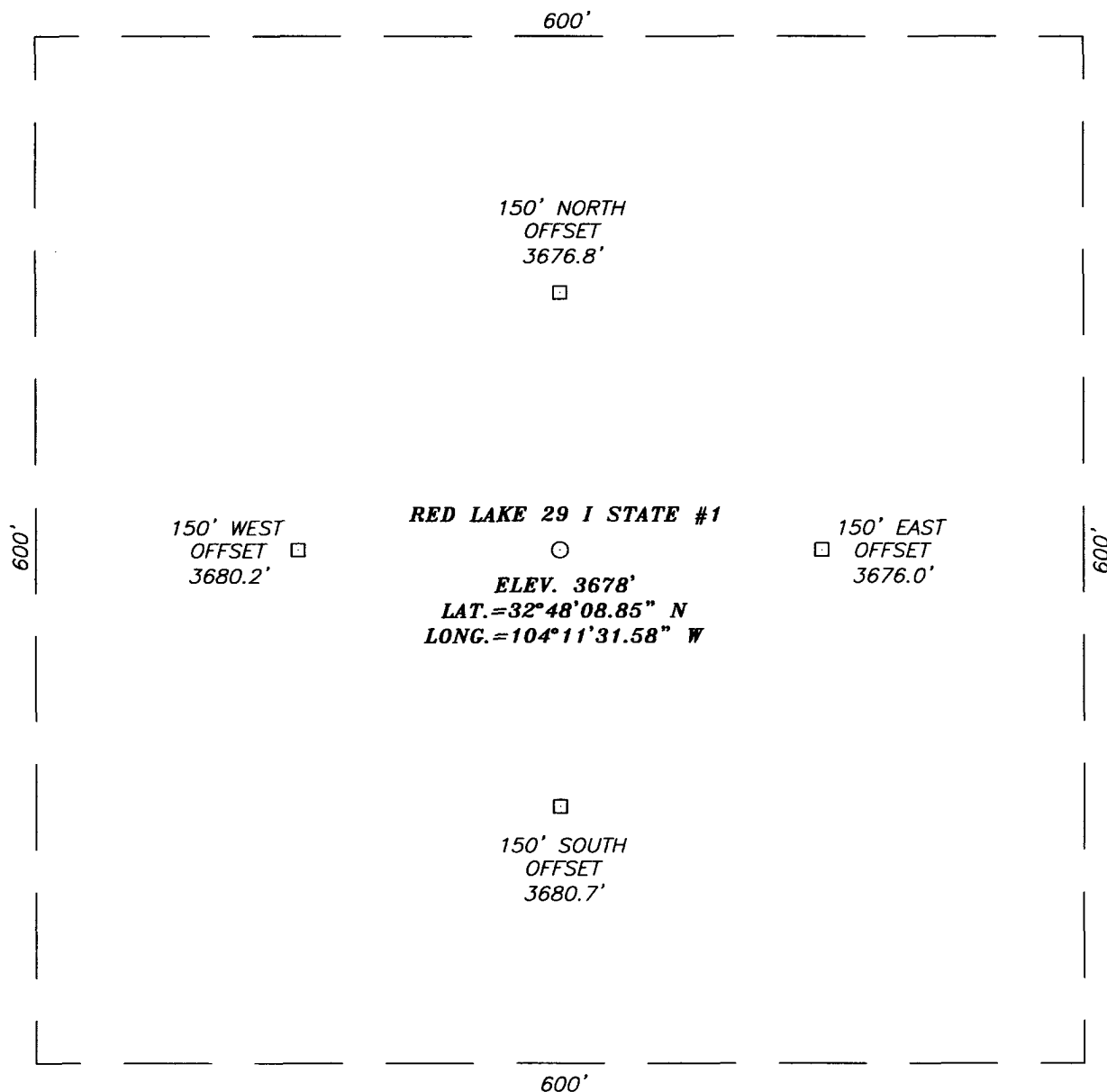
GARY L. EDSON 8/2/04

04.11.0948

Certificate No. GARY EDSON

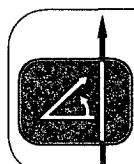
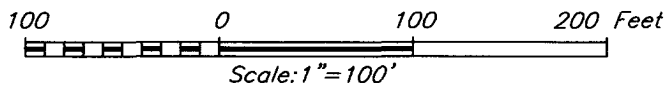
12641

SECTION 29, TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

APPROX. 200' WEST OF MILE MARKER #120 ON
 U.S. HWY. #82. GO NORTH ON CALICHE ROAD 0.3
 MILES. THEN GO WEST 0.2 MILES. LOOK NORTH
 APPROX. 350' TO THIS LOCATION.



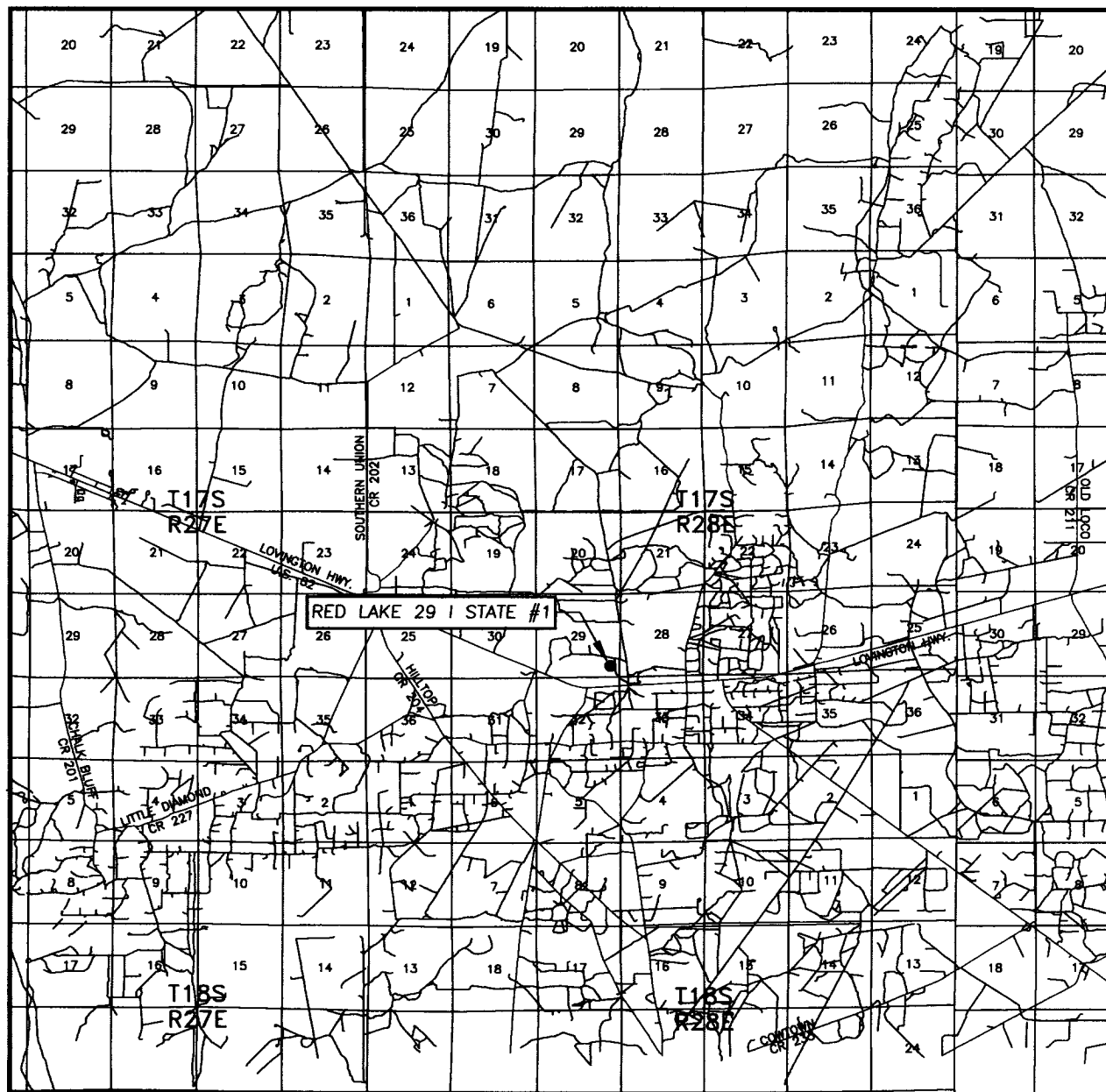
PROVIDING SURVEYING SERVICES
 SINCE 1948
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

EDGE PETROLEUM OPERATING COMPANY, INC.

RED LAKE 29 I STATE #1 WELL
 LOCATED 1650 FEET FROM THE SOUTH LINE
 AND 990 FEET FROM THE EAST LINE OF SECTION 29,
 TOWNSHIP 17 SOUTH, RANGE 28 EAST, N.M.P.M.,
 EDDY COUNTY, NEW MEXICO.

Survey Date: 7/29/04		Sheet 1 of 1 Sheets	
W.O. Number: 04.11.0948		Dr By: LA	Rev 1:N/A
Date: 8/02/04	Disk: CD#3	04110948	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 29 TWP. 17-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY

DESCRIPTION 1650' FSL & 990' FEL

ELEVATION 3678'

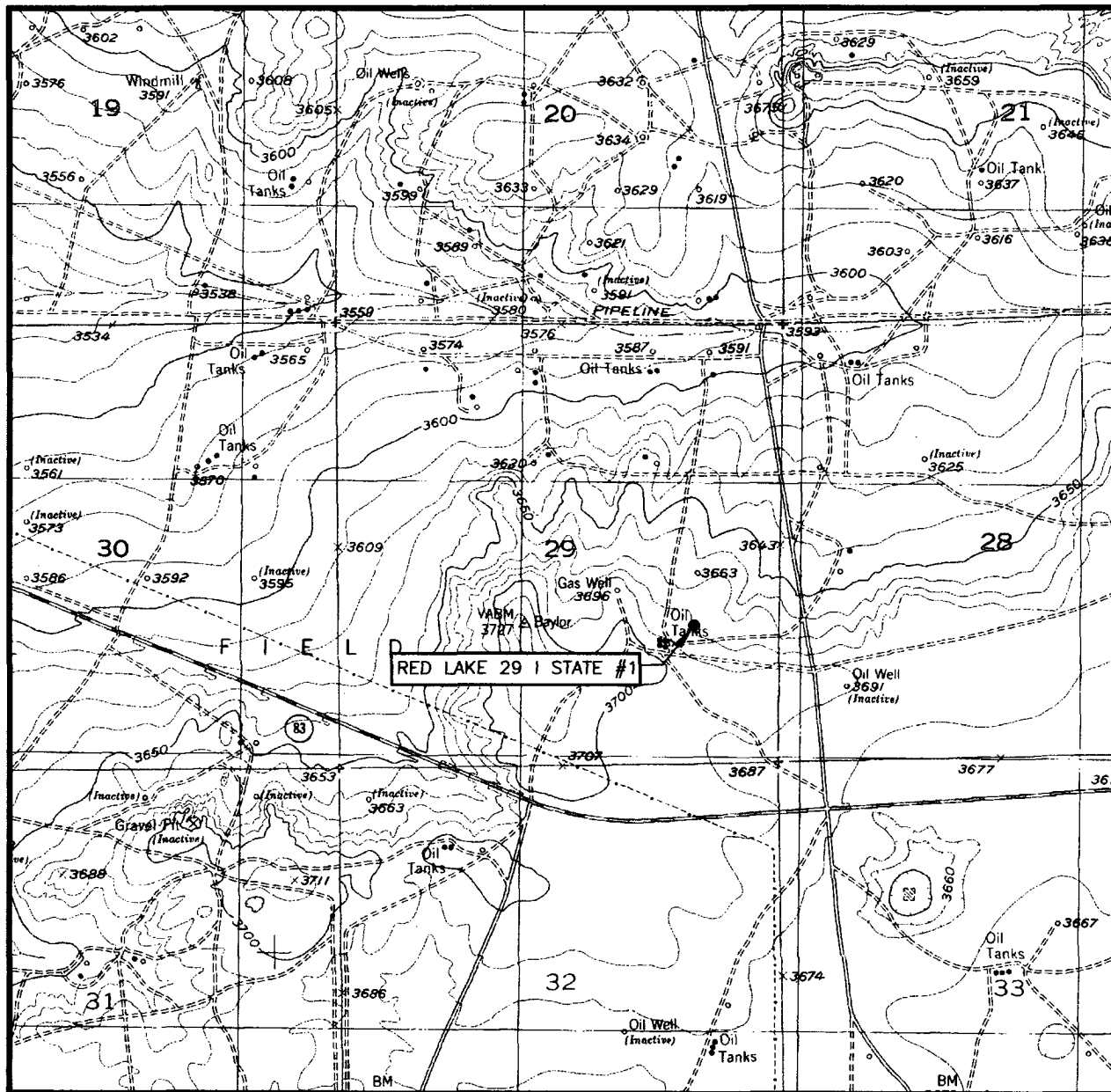
OPERATOR EDGE PETROLEUM
OPERATING COMPANY, INC.

LEASE RED LAKE 29 I STATE



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
RED LAKE SE, N.M. - 10'

SEC. 29 TWP. 17-S RGE. 28-E

SURVEY N.M.P.M.

COUNTY EDDY

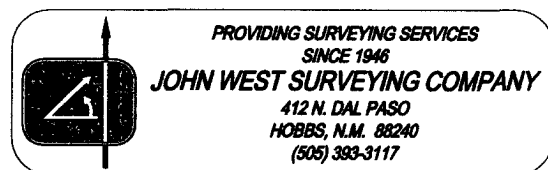
DESCRIPTION 1650' FSL & 990' FEL

ELEVATION 3678'

OPERATOR EDGE PETROLEUM
OPERATING COMPANY, INC.

LEASE RED LAKE 29 I STATE

U.S.G.S. TOPOGRAPHIC MAP
RED LAKE SE, N.M.





Newpark Drilling Fluids, LLC



Edge Petroleum Operating Company Inc.
Red Lake 29 "I" State No. 1
Section 29, T-17-S, R-28-E
Eddy County, New Mexico

Mud Program Summary

<u>Depth</u>	<u>Hole Size</u>	<u>Casing</u>	<u>Mud Wt.</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>pH</u>
0' – 520'	12-1/4"	8-5/8"	8.6-8.8	32-34	N/C	N/C
520' – 2,500'	7-7/8"	-	9.0-9.5	28-29	N/C	9-10
2,500' – 3,800'	7-7/8"	5-1/2"	9.4-9.5	30-38	8-10	9-10

Potential Problems

Surface Interval 0 – 520'

- Severe seepage.
- Poorly consolidated formations, may require higher than normal viscosity.

Intermediate Interval 520' – 2,500'

- Moderate seepage.

Production Interval 2,500' – 3,800'

- Moderate seepage.