

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

RECEIVED

NOV 19 2004

☐ AMENDED REPORT

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

¹ Operator Name and Address Edge Petroleum Operating Company, Inc 1301 Travis, Suite 2000 Houston, Texas 77002		² OGRID Number 224400
		³ API Number 30 - 015-33740
⁴ Property Code	⁵ Property Name Red Lake 28 K State	⁶ Well No. 1
⁹ Proposed Pool 1 Gatesia Red Lake: Glorieta-Yeso, Northeast		¹⁰ Proposed Pool 2 Red Lake: Queen - Grayburg - San Andres

⁷ Surface Location

UL or lot no. K	Section 28	Township 17-S	Range 28-E	Lot Idn	Feet from the 1650	North/South line South	Feet from the 1650	East/West line West	County Eddy
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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
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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 3686'
¹⁶ Multiple N	¹⁷ Proposed Depth 3755'	¹⁸ Formation Yeso	¹⁹ Contractor United Drilling	²⁰ Spud Date December 15, 2004
Depth to Groundwater 190'		Distance from nearest fresh water well Over 1000'		Distance from nearest surface water Over 1000'
Pit: Liner: Synthetic <input checked="" type="checkbox"/> _____ 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#	400'	300'	Surface
7-7/8"	5-1/2"	14#	3755'	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 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 ☐.

Printed name: Randell K. Ford

Title: Consultant

E-mail Address: randell@rkford.com

Date: November 15, 2004

Phone: (432) 682-0440

OIL CONSERVATION DIVISION

Approved by:

TIM W. GUM

Title:

DISTRICT II SUPERVISOR

Approval Date: DEC 02 2004

Expiration Date: DEC 02 2005

Conditions of Approval 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

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT III

1000 Rio Brazos Rd., Aztec, NM 87410

DISTRICT IV

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number	Pool Code	Pool Name
Property Code	Property Name RED LAKE 28 K STATE	Well Number 1
OGRID No.	Operator Name EDGE PETROLEUM OPERATING COMPANY, INC.	Elevation 3686'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
K	28	17-S	28-E		1650	SOUTH	1650	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 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

<p>GEODETIC COORDINATES NAD 27 NME</p> <p>Y=655732.9 N X=546034.6 E</p> <p>LAT.=32°48'09.39" N LONG.=104°11'00.65" W</p>	<p>OPERATOR CERTIFICATION</p> <p>I hereby certify the the information contained herein is true and complete to the best of my knowledge and belief.</p> <p><i>Randell K. Ford</i> Signature</p> <p>Randell K. Ford Printed Name</p> <p>Consultant Title</p> <p>November 11, 2004 Date</p>
	<p>SURVEYOR CERTIFICATION</p> <p>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.</p> <p>NOVEMBER 2, 2004</p> <p>Date Surveyed Signature & Seal of Professional Surveyor <i>Gary A. Edson</i> 04.11/1454 Certificate No. GARY EDSON 12641</p>



Newpark Drilling Fluids, LLC



Edge Petroleum Corporation

Red Lake "28" K State No. 1

Section 28 , T-17-S, R-28-E

Eddy County, New Mexico

Mud Program Summary

<u>Depth</u>	<u>Hole Size</u>	<u>Casing Size</u>	<u>Mud Wt.</u>	<u>Viscosity</u>	<u>Fluid Loss</u>	<u>pH</u>
0' – 400'	12-1/4"	8-5/8"	8.6-9.0	34-36	N/C	N/C
400' – 2,500'	7-7/8"	-	9.0-9.5	28-38	N/C	9-10
2,500' – 3,850'	7-7/8"	5-1/2"	9.4-9.5	30-38	10-8	9-10

Potential Problems

Surface Interval 0 – 400'

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

Open Hole Interval 400' – 2,500'

- Moderate seepage.

Production Interval 2,500' – 3,850'

- Moderate seepage.

**EDGE PETROLEUM OPERATING COMPANY INC.
WELL SUMMARY**

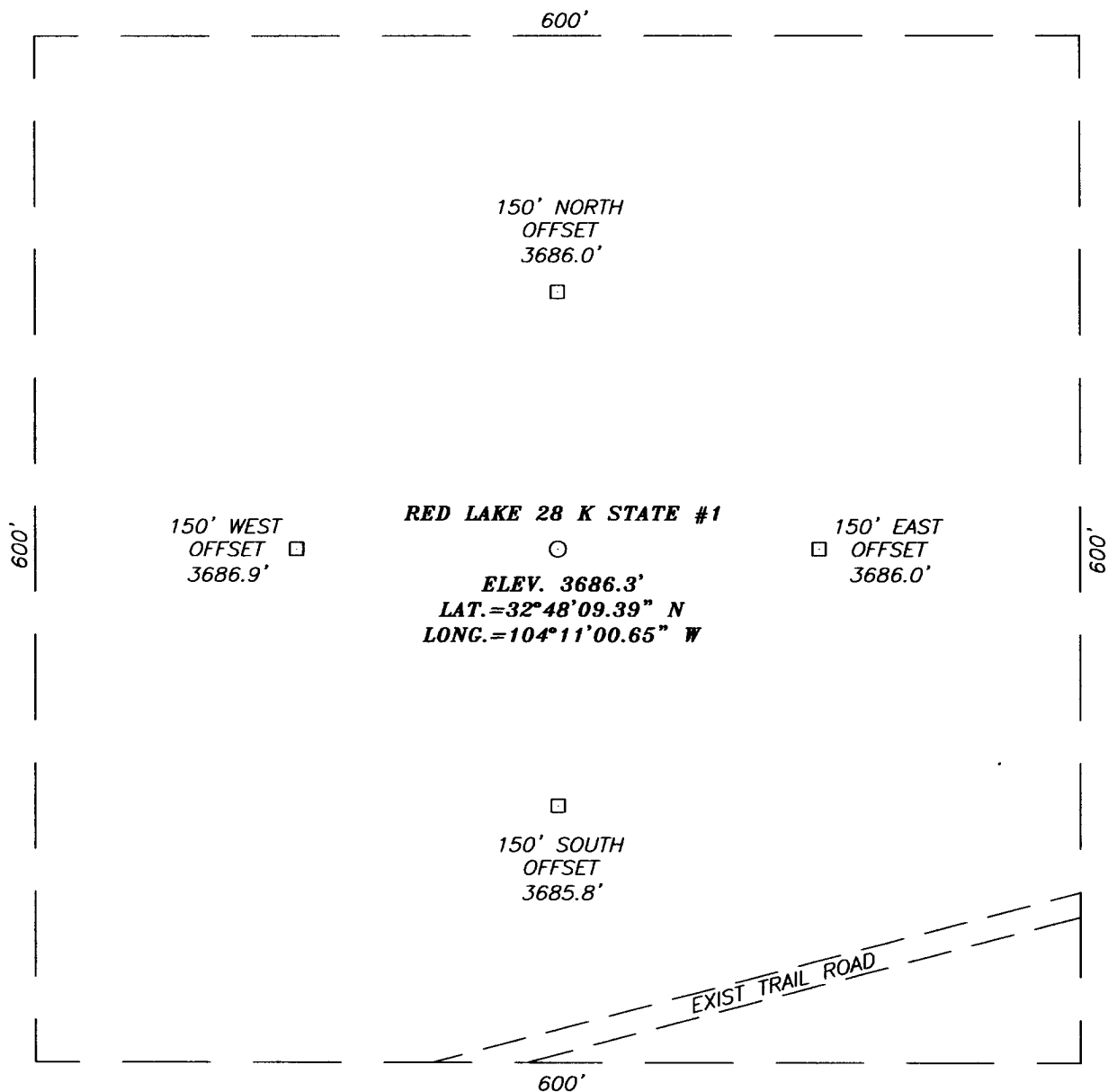
LEASE: RED LAKE 28 K STATE
WELL: No. 1
AREA: EDDY CO., NM
FIELD: RED LAKE SHALLOW

SURF LOC: SWNESW SEC 28 T17S R28E
BHL: STRAIGHT HOLE
X:
Y:

ENGR: JIM KEISLING
RIG:
ELEV. 3600'
KB:

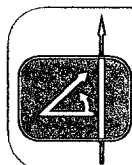
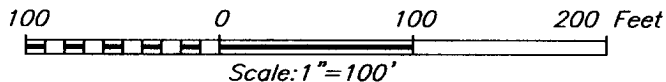
DIRECTIONAL	OPEN HOLE LOGGING	SANDS/ MARKERS	DEPTH		CASING PROFILE		HOLE SIZE	CASING DETAILS	MUD WT. & TYPE	MAXIMUM DOGLEG SEVERITY
			TVD	MD						
			40'	40'			PRESET	16" Conductor		
			400'	400'			12-1/4"	8-5/8", 24.0 ppf J-55, STC	SPUD MUD 8.8 PPG	1"/100'
		Yates	645'	645'					9.0-9.5 ppg nondispersed	
		Queen	1260'	1260'			7 7/8"			
		Grayburg	1695'	1695'						
		Premier	1945'	1945'						
		San Andres	1975'	1975'						
		Glorieta	3350'	3350'						
		Yeso	3455'	3455'						
STRAIGHT HOLE	<u>E-LOGS</u> Triple Combo 400' to 3755'	TD	3755'	3755'				5 1/2", 14#, J-55, STC 0'-3755'	9.5 ppg	2"/100'

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



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY #82 AND ST. HWY. #360, GO WEST ON U.S. HWY. #82 FOR APPROX. 1.1 MILES TO A CALICHE ROAD ON THE RIGHT. TURN RIGHT (NORTH) AND GO APPROX. 0.3 MILES TO A TRAIL ROAD ON THE RIGHT. TURN RIGHT (EAST) AND GO APPROX. 0.3 MILES. PROPOSED LOCATION IS APPROX. 300' NORTH.



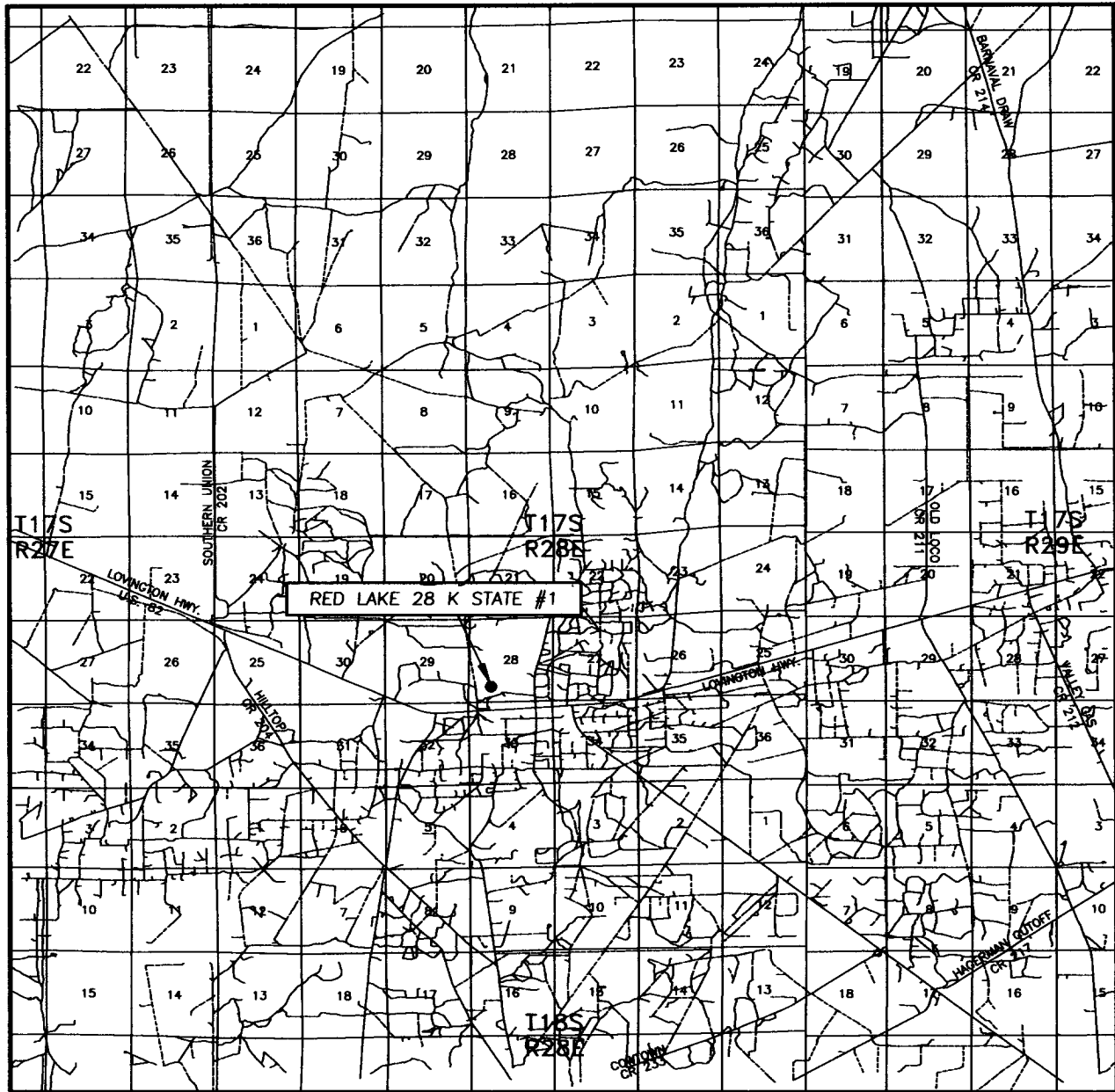
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 393-3117

EDGE PETROLEUM OPERATING COMPANY, INC.

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

Survey Date: 11/2/04		Sheet 1 of 1 Sheets	
W.O. Number: 04.11.1454		Dr By: J.R.	Rev 1:N/A
Date: 10/5/04	Disk: CD#10	04111454	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

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

SURVEY N.M.P.M.

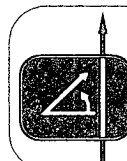
COUNTY EDDY

DESCRIPTION 1650' FSL & 1650' FWL

ELEVATION 3686'

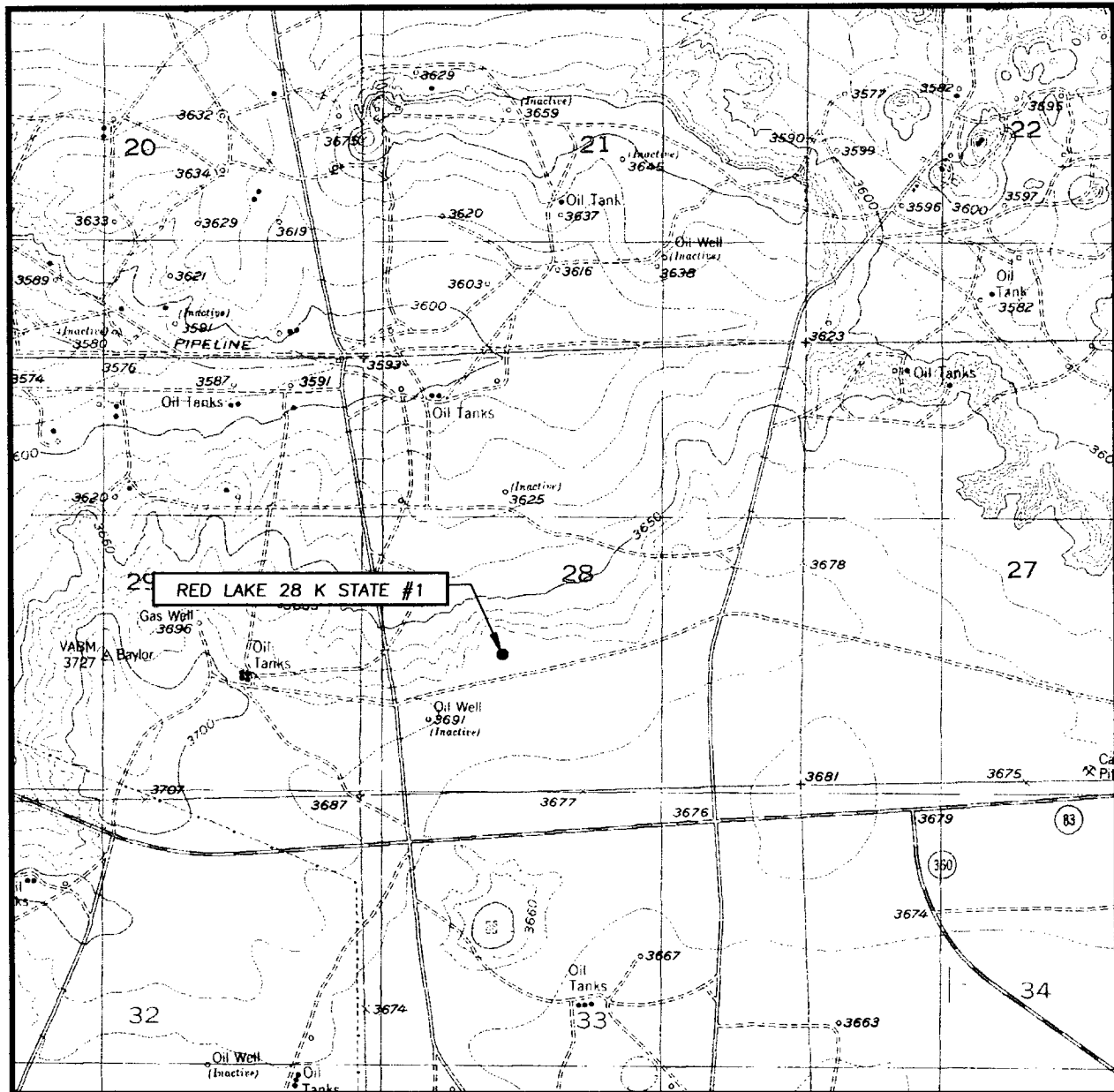
EDGE PETROLEUM
OPERATOR OPERATING COMPANY, INC.

LEASE RED LAKE 28 K STATE



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

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

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

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

SURVEY N.M.P.M.

COUNTY EDDY

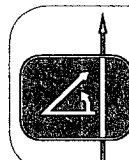
DESCRIPTION 1650' FSL & 1650' FWL

ELEVATION 3686'

EDGE PETROLEUM
OPERATOR OPERATING COMPANY, INC.

LEASE RED LAKE 28 K STATE

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



PROVIDING SURVEYING SERVICES
SINCE 1946
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