

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, PLUGBACK, OR ADD A ZONE

¹ Operator Name and Address Samson Resources 200 N. Loraine, Suite 1010 Midland, Texas 79701		² OGRID Number 20165
³ Property Code 35083		⁴ Property Name EAGLE 2 STATE
⁵ Proposed Pool 1 LEA BONE SPRINGS		⁶ Well No. 003

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
F	2	20S	34E	F	1980	NORTH	2130	WEST	LEA

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 NW	¹² Well Type Code G	¹³ Cable/Rotary R	¹⁴ Lease Type Code S	¹⁵ Ground Level Elevation 3675'
¹⁶ Multiple N	¹⁷ Proposed Depth 10,600'	¹⁸ Formation BONE SPRINGS DOLOMITE	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater 260'		Distance from nearest fresh water well 8200'		Distance from nearest surface water 6 miles
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 20000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input type="checkbox"/> Brine <input 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
17.5	13.375	54.5	1650	1350	0
12.250	9.625	40	5600	2000	1650
8.750	5.5	17	10600	1000	Cover Hydrocarbon
					Zones

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.

Samson proposes to drill and test the Bone Springs Dolomite formation. Approximately 1650' of surface casing will be set/cemented. If commercial, Intermediate/production casing will be run/cemented, will perforate/stimulate as needed for production.

WELL CONTROL NU 13-5/8" 10M WP double 3-5/8" 5M hydral annular preventer before drilling 12.25" & 8.75" holes. Perform 3M test before drilling 12.25" hole & 3M test before drilling 8.75" hole.

MUD PROGRAM 0-1650' FW/Spud Mud
1650' - 5650' Brine
5650' - 10,600' Cut Brine

**Permit Expires 1 Year From Approval
Date Unless Drilling Underway**

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: Don C. Deck

Title: Right of Way Agent

E-mail Address: deckrowagent@cox.ne

Date: 8-2-06

Phone: 432 682 0457

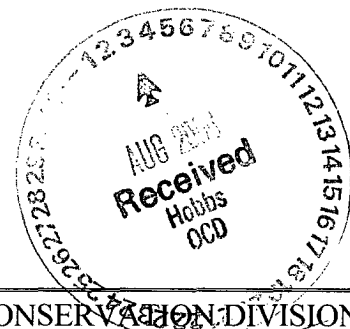
OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: AUG 07 2006

Expiration Date:

Conditions of Approval Attached ☐

PETROLEUM ENGINEER

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

State of New Mexico
Energy, Minerals and Natural Resources Department

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

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

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

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

Form C-102
Revised October 12, 2005
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 38-025-38042	Pool Code 37570	Pool Name Lea Bone Spring
Property Code 35083	Property Name EAGLE 2 STATE	Well Number 3
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3675'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
F	2	20-S	34-E		1980	NORTH	2130	WEST	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 80	Joint or Infill	Consolidation Code	Order No.						

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

LOT 4 40.65 AC	LOT 3 40.76 AC	LOT 2 40.85 AC	LOT 1 40.95 AC
GEODETIC COORDINATES NAD 27 NME Y=584356.0 N X=746752.1 E LAT.=32.603944° N LONG.=103.532060° W LAT.=32°36'14.20" N LONG.=103°31'55.41" W			

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.

Signature *[Signature]* **Date** **8-2-06**

Printed Name **Don C. Deck**

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.

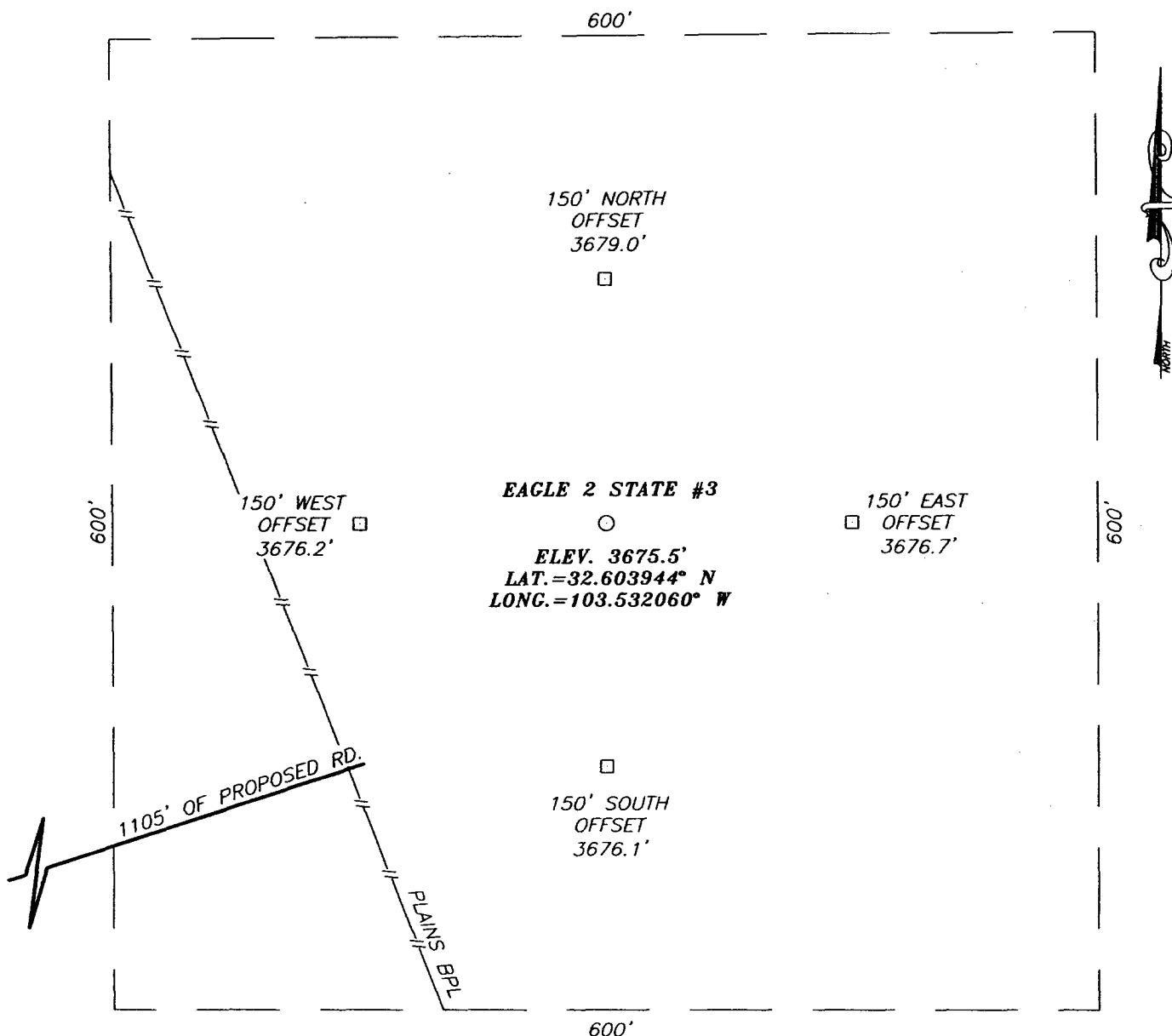
JUNE 15, 2006

Date Surveyed **MR**

Signature & Seal of Professional Surveyor *[Signature]* **6/27/06**

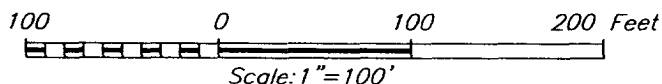
Certificate No. **GARY EIDSON** **12841**
RONALD V. EIDSON **3239**

SECTION 2, TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF U.S. HWY. 62-180 AND CO. RD. H-27 (MARATHON RD.), GO SOUTH ON MARATHON RD. APPROX. 1.4 MILES. TURN LEFT AND GO WEST APPROX. 0.7 MILES. TURN LEFT AND GO SOUTH APPROX. 0.95 MILES. TURN RIGHT AND GO WEST APPROX. 0.05 MILES. VEER LEFT AND GO SOUTHWEST APPROX. 0.25 MILES. TURN RIGHT AT "Y" INTERSECTION AND GO WEST APPROX. 0.12 MILES. TURN RIGHT AND GO NORTHWEST APPROX. 0.22 MILES TO A PROPOSED ROAD SURVEY. FOLLOW ROAD SURVEY APPROX. 1800 FEET EAST-NORTHEAST. THIS LOCATION IS APPROX. 212 FEET NORTHEAST.



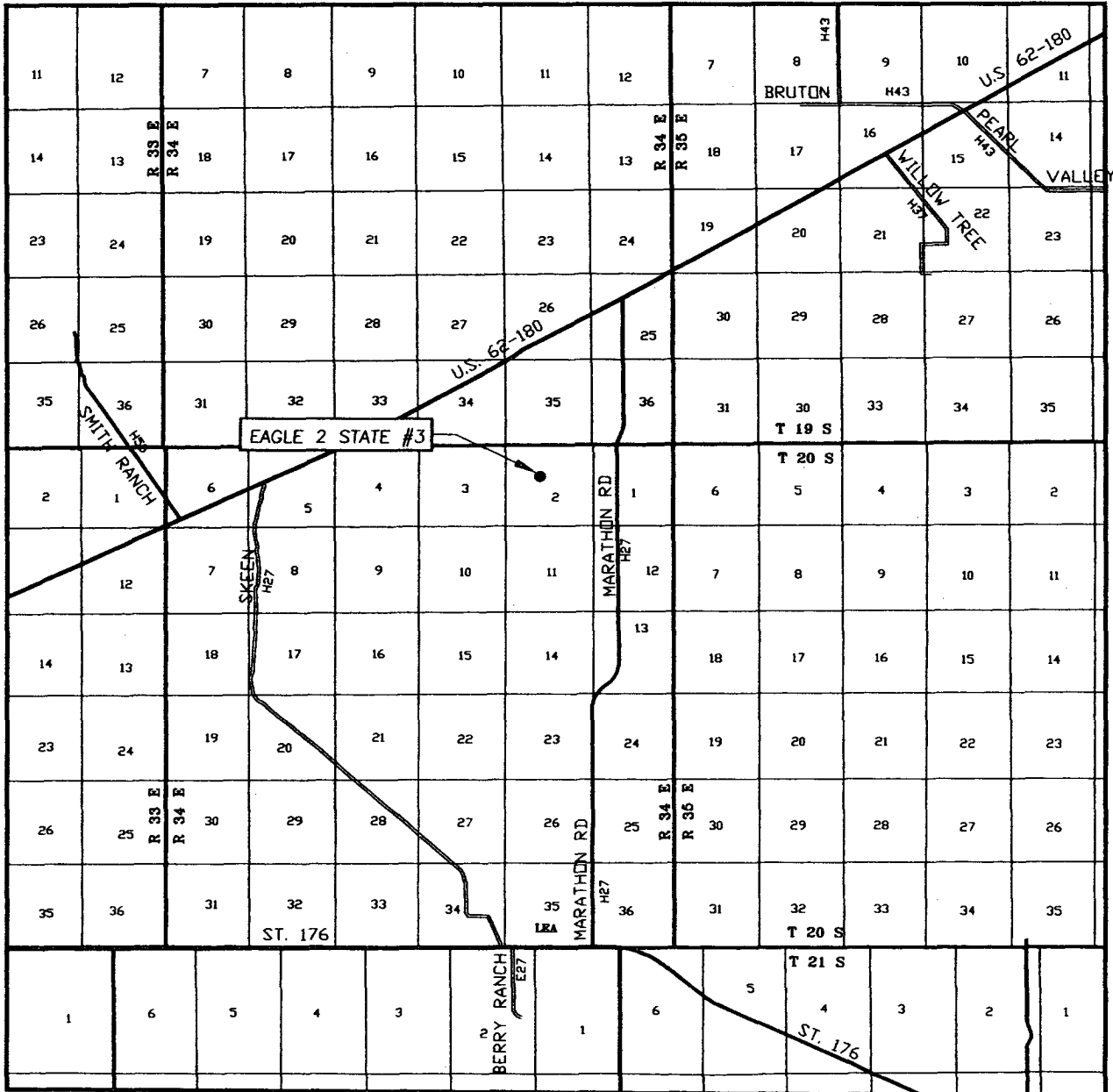
SAMSON RESOURCES

EAGLE 2 STATE #3
 LOCATED 1980 FEET FROM THE NORTH LINE
 AND 2130 FEET FROM THE WEST LINE OF SECTION 2,
 TOWNSHIP 20 SOUTH, RANGE 34 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 06/15/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1002	Dr By: M.R. Rev 1:N/A
Date: 06/22/06	Disk: CD#6 06111002 Scale: 1"=100'

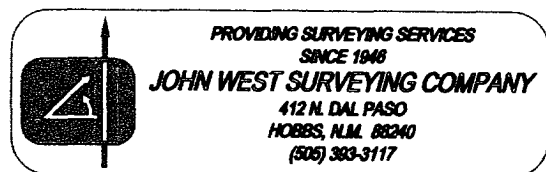
PROVIDING SURVEYING SERVICES
 SINCE 1946
JOHN WEST SURVEYING COMPANY
 412 N. DAL PASO
 HOBBS, N.M. 88240
 (505) 383-3117

VICINITY MAP

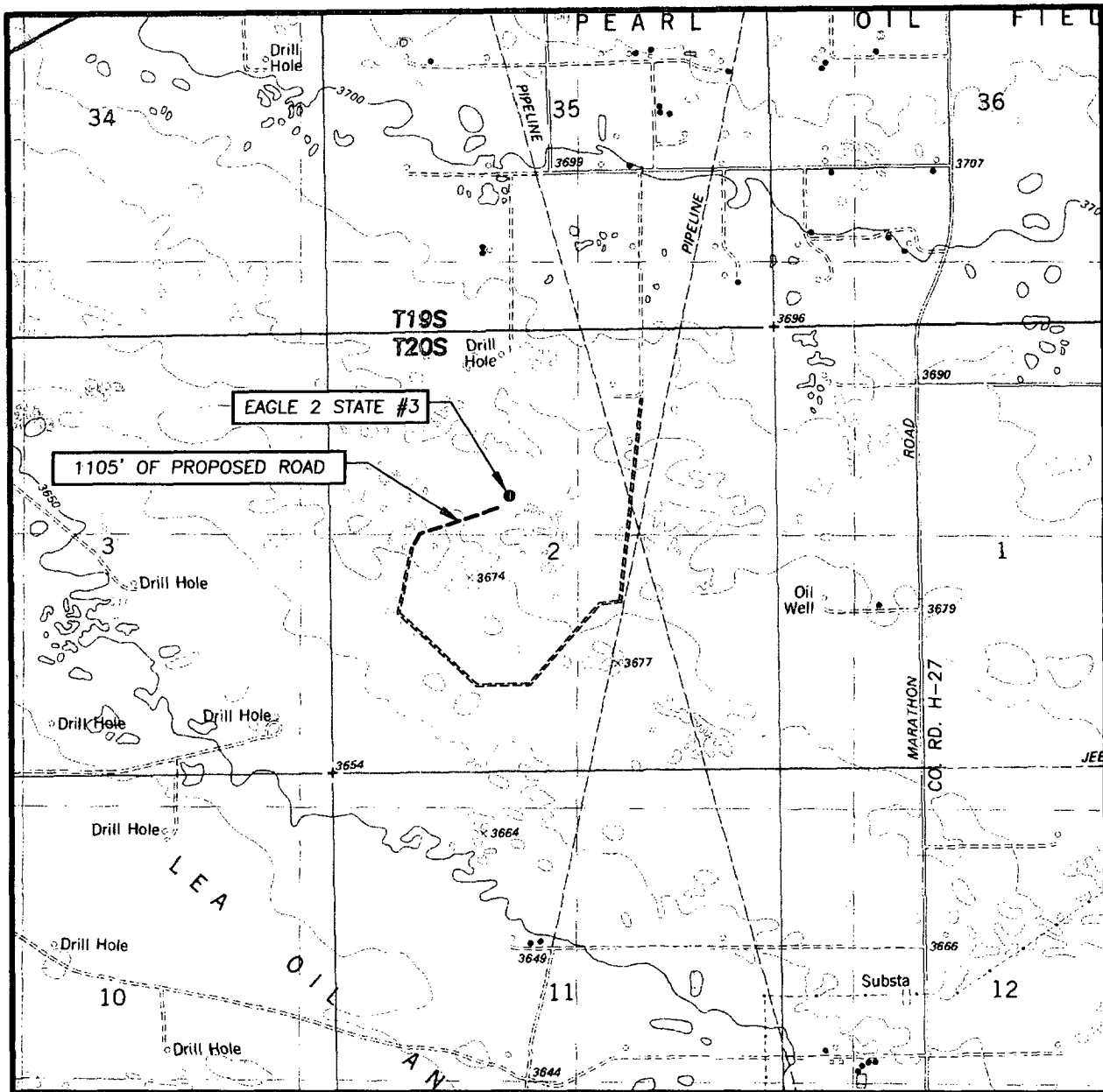


SCALE: 1" = 2 MILES

SEC. 2 TWP. 20-S RGE. 34-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 1980' FNL & 2130' FWL
 ELEVATION 3675'
 OPERATOR SAMSON RESOURCES
 LEASE EAGLE 2 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
LEA, N.M. - 10'

SEC. 2 TWP. 20-S RGE. 34-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FNL & 2130' FWL

ELEVATION 3675'

OPERATOR SAMSON RESOURCES

LEASE EAGLE 2 STATE

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

