

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 35951	⁴ Property Name Osudo 32 State Com	⁵ API Number 30 - 025-38080
⁹ Proposed Pool 1 Wildcat Barnett Shale		⁶ Well No. 001

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
1	32	20S	36E	1	1980	SOUTH	660	EAST	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 3618"
¹⁶ Multiple N	¹⁷ Proposed Depth 11650"	¹⁸ Formation Barnett Shale	¹⁹ Contractor	²⁰ Spud Date
Depth to Groundwater 100'		Distance from nearest fresh water well 1 mile		Distance from nearest surface water 5 miles
Pit: Liner: Synthetic <input type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume: 20000 bbls Drilling Method: Fresh Water <input type="checkbox"/> Brine <input type="checkbox"/> Diesel/Oil-based <input type="checkbox"/> Gas/Air <input type="checkbox"/>				
Closed-Loop System <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	48	1875	2395	0
12.25	9.625	40	5175	3150	1500
8.75	7	26	10500	1926	
6.125	4.5	11.6	11650	Log Caliner	10,000

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.

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

Samson proposes to drill and test the Barnett Shale formations. Approximately 1875' of surface casing will be set/cemented. If commercial, Intermediate/production casing will be run/cemented, will perforate/stimulate as needed for production.

MUD PROGRAM 0-1875' Fresh Water
1875'-5175' Cut Brine
5175' - 10500' Cut Brine
10500' - 11650' Cut Brine

PROPOSED BOP PROGRAM Shaffer Double Ram, 10000 psi Working Pressure, 5000 psi, Test Pressure.

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.net

Date: 8/14/06

Phone: 432 682 0-457

OIL CONSERVATION DIVISION

Approved by:

Title:

Approval Date: AUG 22 2006

Expiration Date:

Conditions of Approval Attached ☐

DISTRICT I

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State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2006

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

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

API Number 30-025-38080	Pool Code ✓	Pool Name Wildcat
Property Code 35951	Property Name OSUDO 32 STATE	Well Number 1
OGRID No. 20165	Operator Name SAMSON RESOURCES	Elevation 3618'

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	32	20-S	36-E		1980	SOUTH	660	EAST	LEA

Bottom Hole Location If Different From Surface

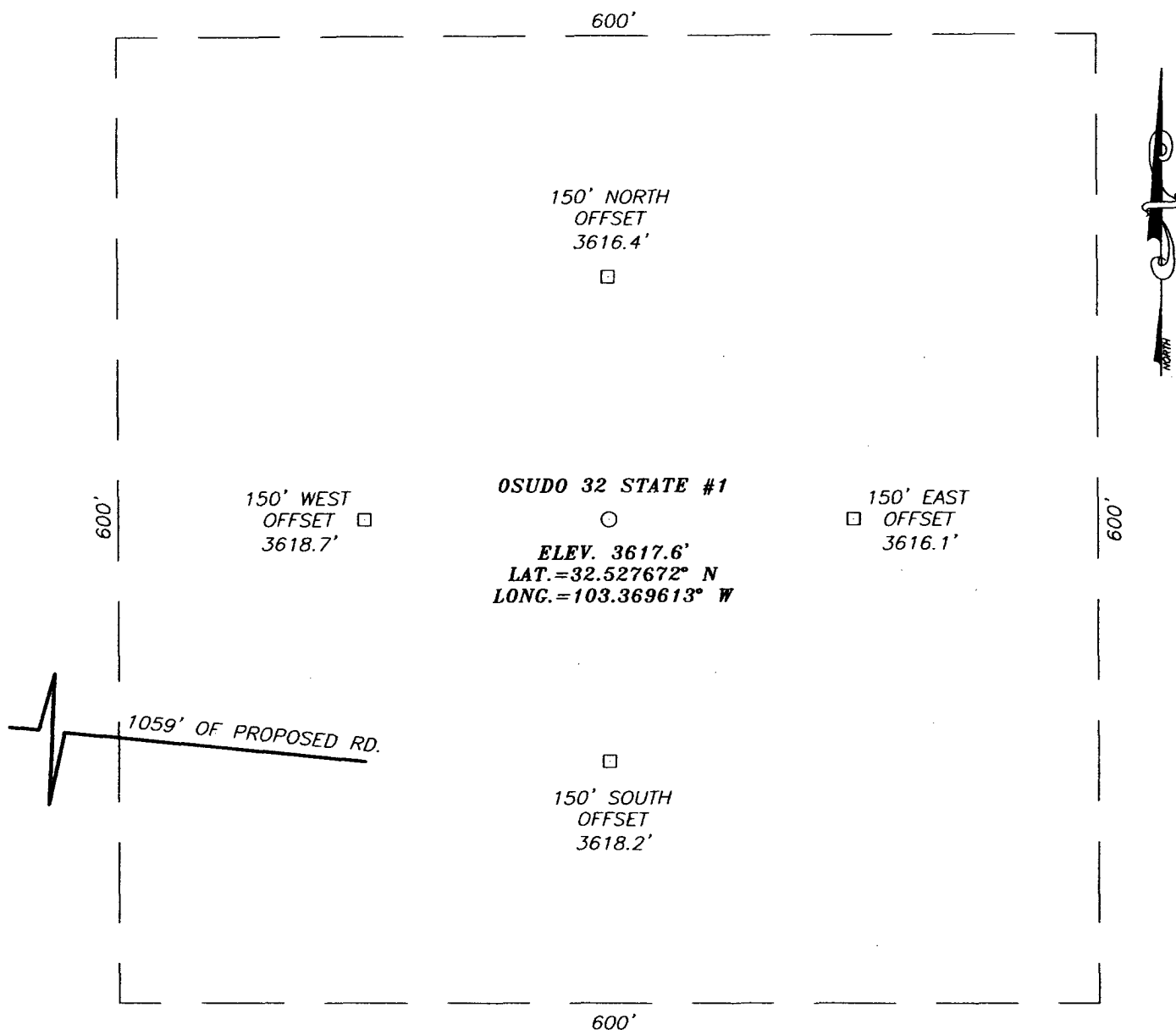
UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County

Dedicated Acres 320	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

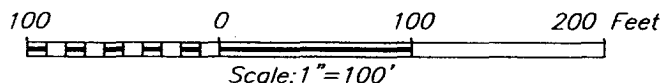
	OPERATOR CERTIFICATION I hereby certify that the information herein is true and complete to the best of my knowledge and belief, and that this organization either owns a working interest or unleased mineral interest in the land including the proposed bottom hole location or has a right to drill this 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 <u><i>[Signature]</i></u> Date <u>8/9/06</u> Printed Name <u>Don C. Deck</u>
	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 <u>JUNE 16, 2006</u> MR Signature <u><i>[Signature]</i></u> Seal of <u>GARY EIDSON</u> Professional Surveyor NEW MEXICO 06.11.1029 Certificate No. <u>GARY EIDSON 12641</u> <u>RONALD EIDSON 3239</u>

SECTION 32, TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

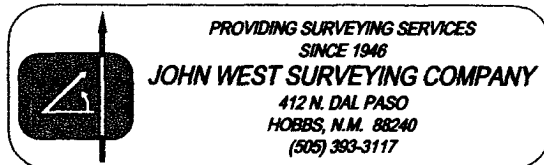
FROM THE INTERSECTION OF ST. RD. #176 AND CO. RD. E-30 (PEARSON RD.), GO NORTH ON PEARSON 0.5 MILES. VEER RIGHT AND GO NORTHEAST APPROX. 3.7 MILES. TURN RIGHT (ON DIRT RD.) AND GO EAST APPROX. 0.3 MILES. TURN RIGHT AT "T" INTERSECTION AND GO SOUTH APPROX. 0.4 MILES. THIS LOCATION IS APPROX. 1100 FEET EAST



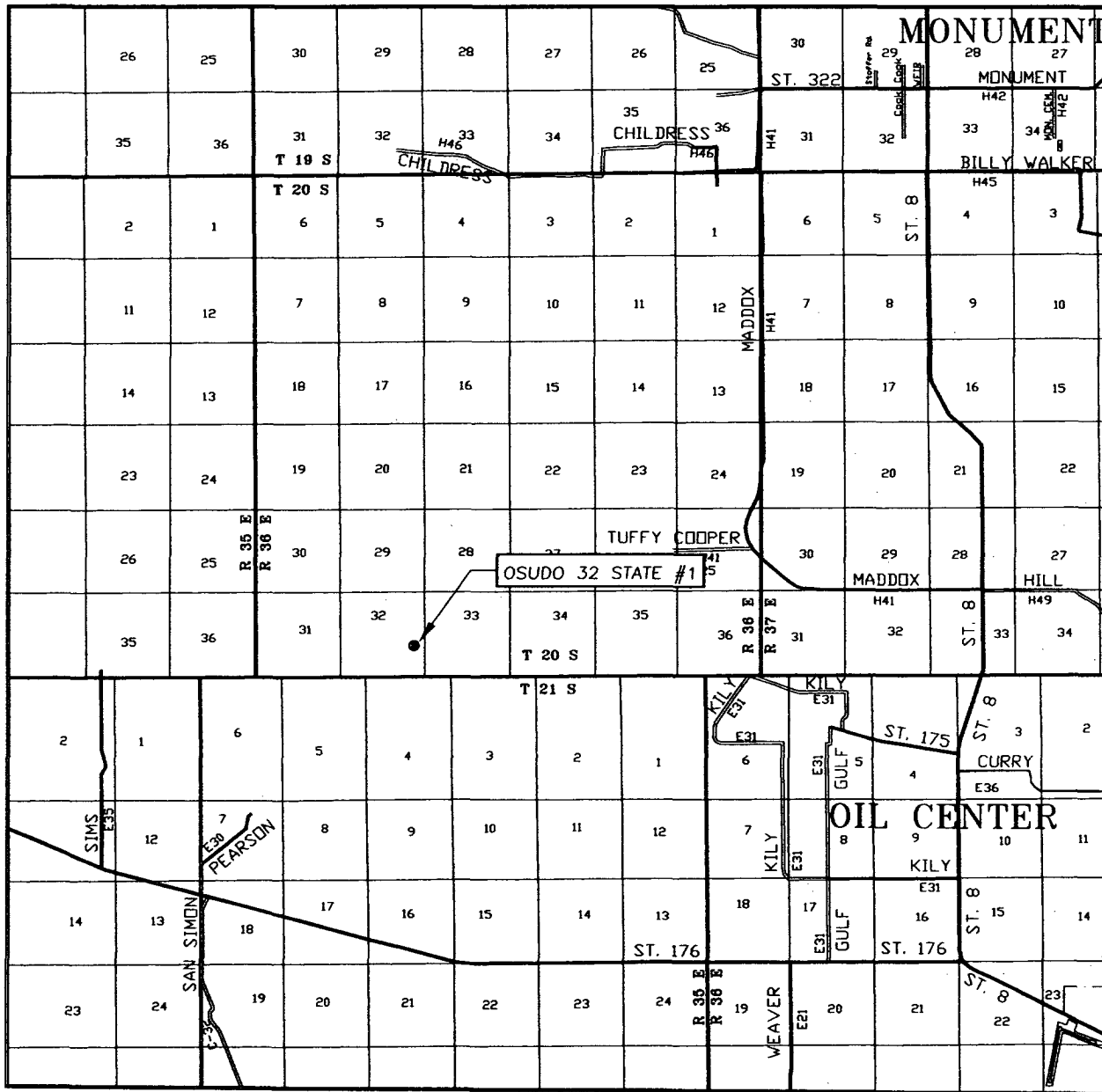
SAMSON RESOURCES

OSUDO 32 STATE #1
 LOCATED 1980 FEET FROM THE SOUTH LINE
 AND 660 FEET FROM THE EAST LINE OF SECTION 32,
 TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

Survey Date: 06/16/06	Sheet 1 of 1 Sheets
W.O. Number: 06.11.1029	Dr By: M.R. Rev 1:N/A
Date: 06/20/06	Disk: CD#6 06111029 Scale: 1"=100'

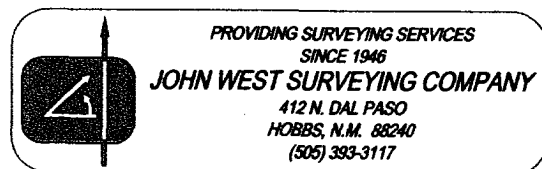


VICINITY MAP

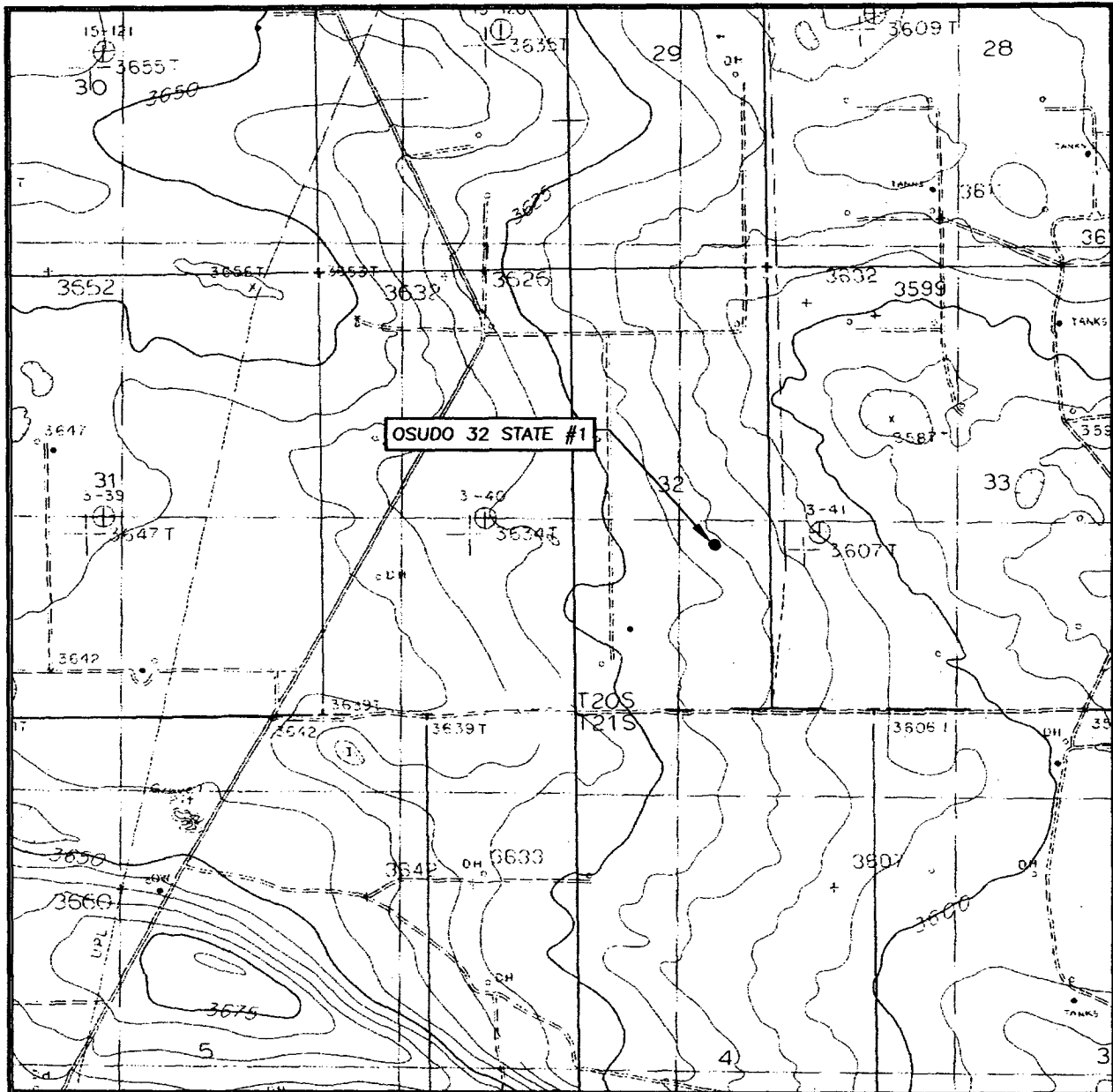


SCALE: 1" = 2 MILES

SEC. 32 TWP. 20-S RGE. 36-E
 SURVEY N.M.P.M.
 COUNTY LEA STATE NEW MEXICO
 DESCRIPTION 1980' FSL & 660' FEL
 ELEVATION 3618'
 OPERATOR SAMSON RESOURCES
 LEASE OSUDO 32 STATE



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
MONUMENT SOUTH, N.M. - 5'
MONUMENT SW, N.M. - 5'

SEC. 32 TWP. 20-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FSL & 660' FEL

ELEVATION 3618'

OPERATOR SAMSON RESOURCES

LEASE OSUDO 32 STATE

U.S.G.S. TOPOGRAPHIC MAP

MONUMENT SOUTH, N.M.

