

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

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

RECEIVED Form C-101
May 27, 2004

Submit to appropriate District Office

HOBBS OCD ☐ AMENDED REPORT

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

| | | |
|---|---|--|
| ¹ Operator Name and Address SAMSON RESOURCES COMPANY ATTN: DUKE ROUSH 200 N. LORAIN, SUITE 1010, MIDLAND, TX 79701 | | ² OGRID Number 20165 |
| ³ Property Code 36634 | ⁴ Property Name OSUDO 33 STATE COM | ⁵ API Number 30 - 025 - 39182 |
| ⁹ Proposed Pool 1 Osudo; Morrow, South | | ⁶ Well No. 2 |

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 |
|---------------|-----------|------------|------------|---------|---------------|------------------|---------------|----------------|------------|
| M | 33 | 20S | 36E | | 660 | SOUTH | 660 | 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 P | ¹⁵ Ground Level Elevation 3611' |
| ¹⁶ Multiple N | ¹⁷ Proposed Depth 11,800' | ¹⁸ Formation Morrow Sand | 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 checked="" type="checkbox"/> 12 mils thick Clay <input type="checkbox"/> Pit Volume 20000 bbls Drilling Method: Closed-Loop System <input type="checkbox"/> Fresh Water <input checked="" 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 1/2" | 13 3/8" | 48.0 | 400' | 300 sx | 0 |
| 12 1/4" | 9 5/8" | 40 | 5,175' | 3150 sx | 350' |
| 8 3/4" | 7" | 26 | 10,500' | 1926 sx | 5,100' |
| 6 1/8" | 4 1/2" | 11.6 | TD | Log Caliper | 10,400' |

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 RESOURCES COMPANY proposes to drill/test the Morrow formation. 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
5176-10,500' Cut Brine
10,500-11,800' Cut Brine

BOPE PROGRAM: Shaffer Double Ram
10000 psi Working Pressure,
5000 psi, Test Pressure.

Permit Expires 2 Years From Approval

²³ I hereby certify that the information given 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: **Duke Roush**

Title: **Landman**

E-mail Address: **droush@samson.com**

Date: **6/12/08**

Phone: **(432) 686-6336**

OIL CONSERVATION DIVISION

Approved by:

Title: **PETROLEUM ENGINEER**

Approval Date:

OCT 01 2008

Expiration Date:

Conditions of Approval Attached ☐

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

State of New Mexico
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
1220 S. ST. FRANCIS DR., SANTA FE, NM 87505

WELL LOCATION AND ACREAGE DEDICATION PLAT

☐ AMENDED REPORT

| | | |
|-----------------------------------|--|--|
| API Number 30-025-39182 | Pool Code 82200 | Pool Name Osudo Morrow South |
| Property Code 36634 | Property Name OSUDO 33 STATE COM | Well Number 2 |
| OGRID No. 20165 | Operator Name SAMSON RESOURCES | Elevation 3611' |

Surface Location

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|---------------|---------|----------|-------|---------|---------------|------------------|---------------|----------------|--------|
| M | 33 | 20-S | 36-E | | 660 | SOUTH | 660 | WEST | LEA |

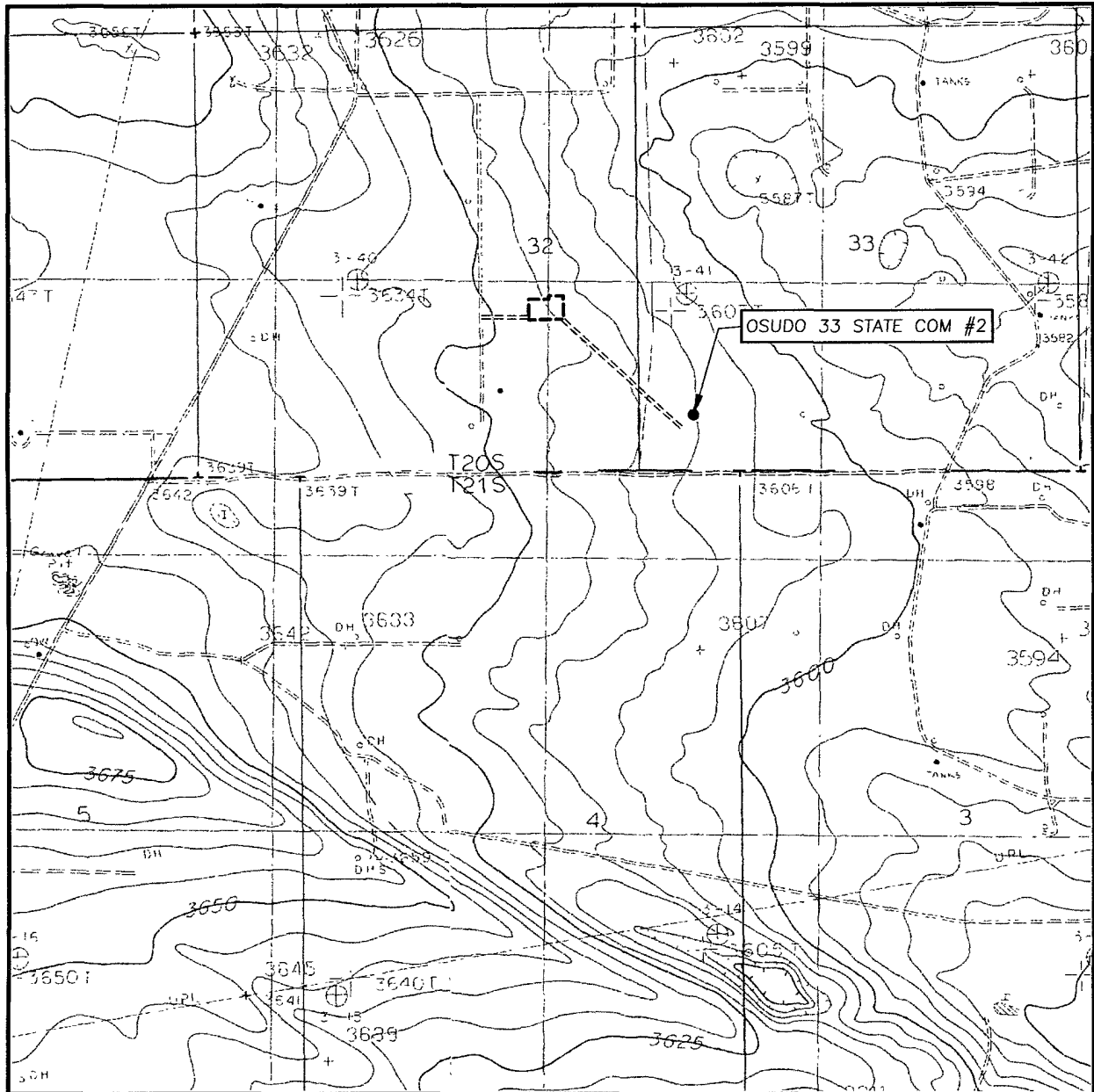
Bottom Hole Location If Different From Surface

| UL or lot No. | Section | Township | Range | Lot Idn | Feet from the | North/South line | Feet from the | East/West line | County |
|-------------------------------|-----------------|--------------------|-----------|---------|---------------|------------------|---------------|----------------|--------|
| | | | | | | | | | |
| Dedicated Acres 360 | 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>OPERATOR CERTIFICATION</p> <p>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.</p> <p><i>Duke Roush</i> 6/12/08 Signature Date DUKE ROUSH, LANDMAN Printed Name</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>GARY G. EIDSON 19...2008 Date Surveyed Signature & Seal of Professional Surveyor 12641 6/12/08 Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p> |
|--|--|

LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL:
MONUMENT SOUTH, N.M. — 5'

SEC. 33 TWP. 20-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

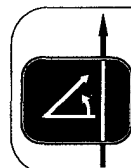
DESCRIPTION 660' FSL & 660' FWL

ELEVATION 3611'

OPERATOR SAMSON RESOURCES

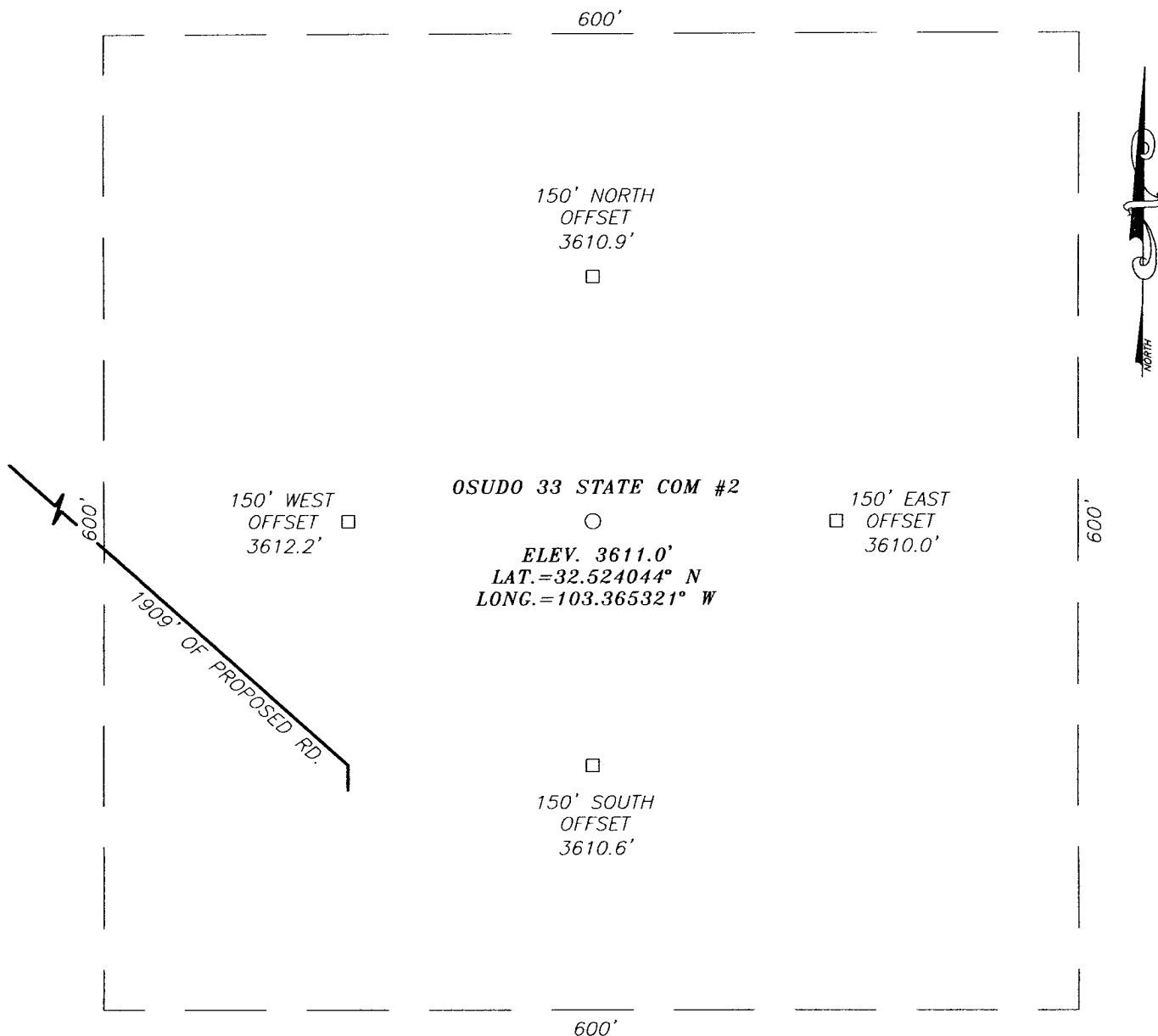
LEASE OSUDO 33 STATE COM

U.S.G.S. TOPOGRAPHIC MAP
MONUMENT SOUTH, N.M.



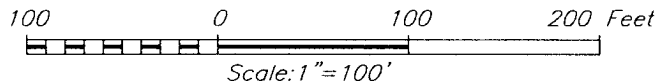
PROVIDING SURVEYING SERVICES
SINCE 1946
JOHN WEST SURVEYING COMPANY
412 N. DAL PASO
HOBBS, N.M. 88240
(505) 393-3117

SECTION 33, TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF HWY. #176 AND PEARSON ROAD, GO NORTH-NORTHEAST ON PEARSON RD. APPROX. 2.0 MILES. VEER LEFT AROUND RANCH HOUSE AND CONTINUE NORTH-NORTHEAST APPROX. 2.2 MILES. TURN RIGHT AND GO EAST APPROX. 0.3 MILES. TURN RIGHT AND GO SOUTH APPROX. 0.5 MILES. TURN LEFT AND GO EAST APPROX. 0.2 MILES TO THE SOUTHEAST CORNER PAD OF THE OSUDO 32 #1 WELL PAD. FOLLOW STAKED ROAD SOUTHEAST APPROX. 1900 FEET TO THE SOUTHWEST CORNER PROPOSED PAD.



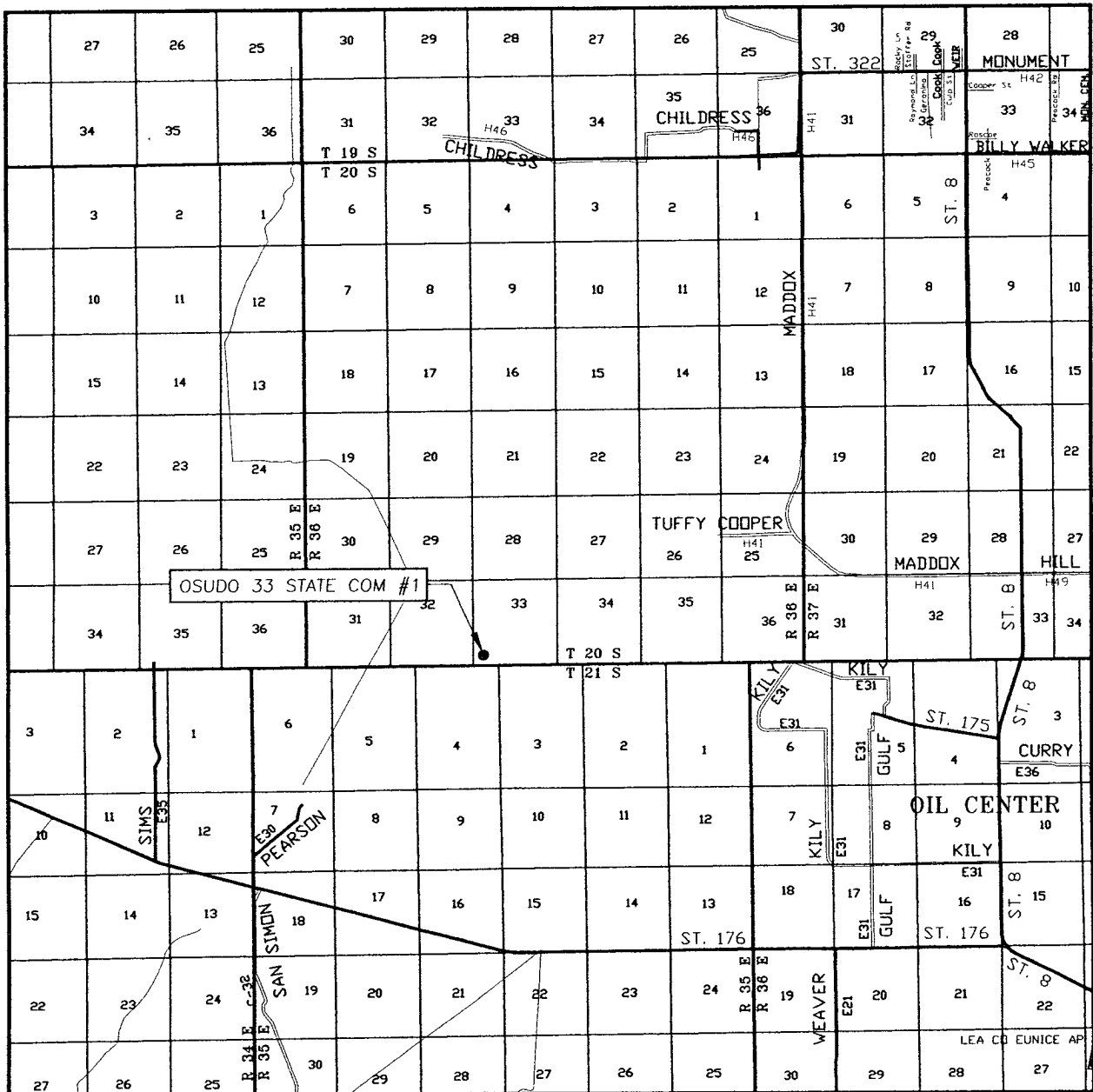
SAMSON RESOURCES

OSUDO 33 STATE COM #2 WELL
 LOCATED 660 FEET FROM THE SOUTH LINE
 AND 660 FEET FROM THE WEST LINE OF SECTION 33,
 TOWNSHIP 20 SOUTH, RANGE 36 EAST, N.M.P.M.,
 LEA COUNTY, NEW MEXICO.

| | |
|-------------------------|---------------------|
| Survey Date: 6/19/07 | Sheet 1 of 1 Sheets |
| W.O. Number: 07 11.0762 | Dr By: AR |
| Date: 6/21/07 | Disk: 07110762 |
| | Scale: 1"=100' |

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

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 33 TWP. 20-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

DESCRIPTION 660' FSL & 660' FWL

ELEVATION 3611'

OPERATOR SAMSON RESOURCES

LEASE OSUDO 33 STATE COM

