

State of New Mexico
Energy, Minerals and Natural Resources

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

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MAR 23 2009

HOBBSCO

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

1. Operator Name and Address ROCA OPERATING, INC. P. O. BOX 1981 MIDLAND, TX 79702		2. OGRID Number 152374
		3. API Number 30-025-39377
4. Property Code 37581	5. Property Name LANGLEY 21	6. Well No 001

7. Surface Location

UL - Lot	Section	Township	Range	Lot Idn	Feet From	N/S Line	Feet From	E/W Line	County
H	21	23S	36E	H	1980	N	800	E	LEA

8. Pool Information

Wildcat	Marrow	0
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Additional Well Information

9. Work Type New Well	10. Well Type GAS	11. Cable/Rotary	12. Lease Type Federal	13. Ground Level Elevation 3450
14. Multiple N	15. Proposed Depth 11500	16. Formation Morrow	17. Contractor	18. Spud Date
Depth to Ground water		Distance from nearest fresh water well		Distance to nearest surface water
Pit: Liner: Synthetic <input type="checkbox"/> mls thick Clay <input type="checkbox"/> Pit Volume: 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"/>				

19. Proposed Casing and Cement Program

Type	Hole Size	Casing Type	Casing Weight/ft	Setting Depth	Sacks of Cement	Estimated TOC
Surf	17.5	13.375	48	1250	1010	
Int1	12.25	9.625	40	5500	1640	
Prod	8.75	5.5	17	11500	1240	5000

Casing/Cement Program: Additional Comments

Please see the attached drilling program.

Proposed Blowout Prevention Program

Type	Working Pressure	Test Pressure	Manufacturer
Annular	1000	1000	3M
DoubleRam	3500	3500	5M
Annular	3150	3150	5M

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: Candyn Copeland
Title: Production Analyst
Email Address: candyn@rocaresource.com
Date: 1/29/09 Phone: 432-687-5554

OIL CONSERVATION DIVISION

Approved By: [Signature]
Title: DISTRICT SUPERVISOR
Approved Date: Expiration Date:

APR 03 2009

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DISTRICT I

1625 N. FRENCH DR., HOBBS, NM 88240

MAR 23 2009

State of New Mexico

Energy, Minerals and Natural Resources Department

Form C-102

Revised October 12, 2005

Submit to Appropriate District Office

State Lease - 4 Copies

Fee Lease - 3 Copies

DISTRICT II

1301 W. GRAND AVENUE, ARTESIA, NM 88210

HOBBSUGD

CONSERVATION DIVISION

1220 SOUTH ST. FRANCIS DR.

Santa Fe, New Mexico 87505

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 30-025-39377	Pool Code ✓	Pool Name wildcat
Property Code 37581	Property Name LANGLEY 21	Well Number 1
OGRID No. 158374	Operator Name ROCA OPERATING, INC.	Elevation 3450'

Surface Location

UL or lot No.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
H	21	23-S	36-E		1980	NORTH	800	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.			

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>Signature: <i>Candice Copeland</i> Date: 1/30/2009</p> <p>Printed Name: Candice Copeland</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>Date Surveyed: 1/30/2009</p> <p>Signature & Seal of Professional Surveyor: <i>Ronald J. Eidson</i></p> <p>Professional Surveyor: RONALD J. EIDSON, 3239</p>
	<p>Certificate No. GARY EIDSON 12641 RONALD J. EIDSON 3239</p>

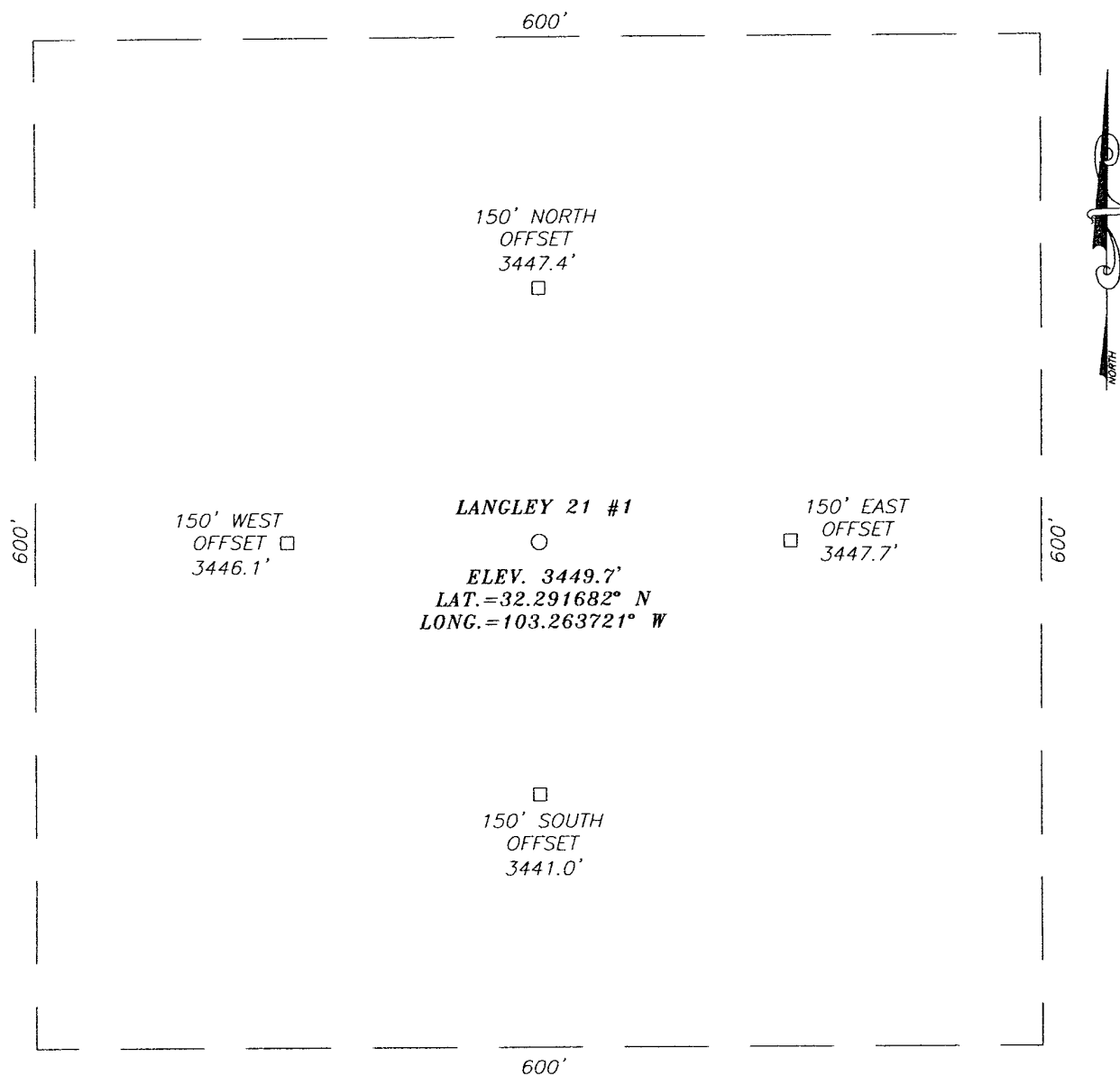
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7. Pressure Control Equipment: After setting 13-3/8" casing and installing 3M casing head, NU 13-5/8" 3M drilling spool and annular. Test BOP and casing to 1000 psi using clear fluid and rig pumps.
- After setting 9-5/8" casing and installing 5M casing spool, NU 11" 5M drilling spool, double ram and annular. Test stack to 3500 psi and casing to 3150 psi using clear fluid and 3rd party tester.

8. Proposed Mud Circulating System

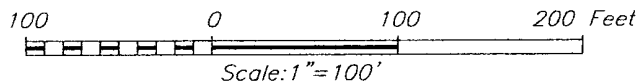
<u>Interval</u>	<u>Mud Wt.</u>	<u>FV</u>	<u>FL</u>	<u>Type Mud System</u>
0' - 1250'	8.4 - 8.9	28 - 34	NC	Fresh water spud mud. Add paper for seepage.
1250' - 5500'	10.0 - 10.2	NC	NC	Saturated brine. Salt gel / paper and / or PHPA sweeps for seepage and hole cleaning.
5500' - 9300'	8.5 - 8.7	NC	NC	Fresh water. Viscous bentonite-paper and / or PHPA sweeps for seepage and hole cleaning.
9300' - 11500'	8.6 - 9.0	32 - 34	<12	Reduce FL w/ additions of bentonite, pac and starch. Spot high-vis pill at TD.

SECTION 21, TOWNSHIP 23 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO



DIRECTIONS TO LOCATION

FROM THE INTERSECTION OF STATE HIGHWAY 18
AND COUNTY RD. E11 (TEAGUE SWITCH), GO
WEST ON COUNTY ROAD E11 APPROX. 4.5
MILES. TURN LEFT AND GO SOUTHWEST APPROX.
0.7 MILES. VEER RIGHT AND GO WEST APPROX.
0.6 MILES. TURN RIGHT AND GO NORTH
APPROX. 0.15 MILES. TURN RIGHT AND GO
EAST APPROX. 0.15 MILES TO A P. & A. PAD.
THIS LOCATION IS APPROX. 513 FEET NORTH.



ROCA OPERATING, INC.

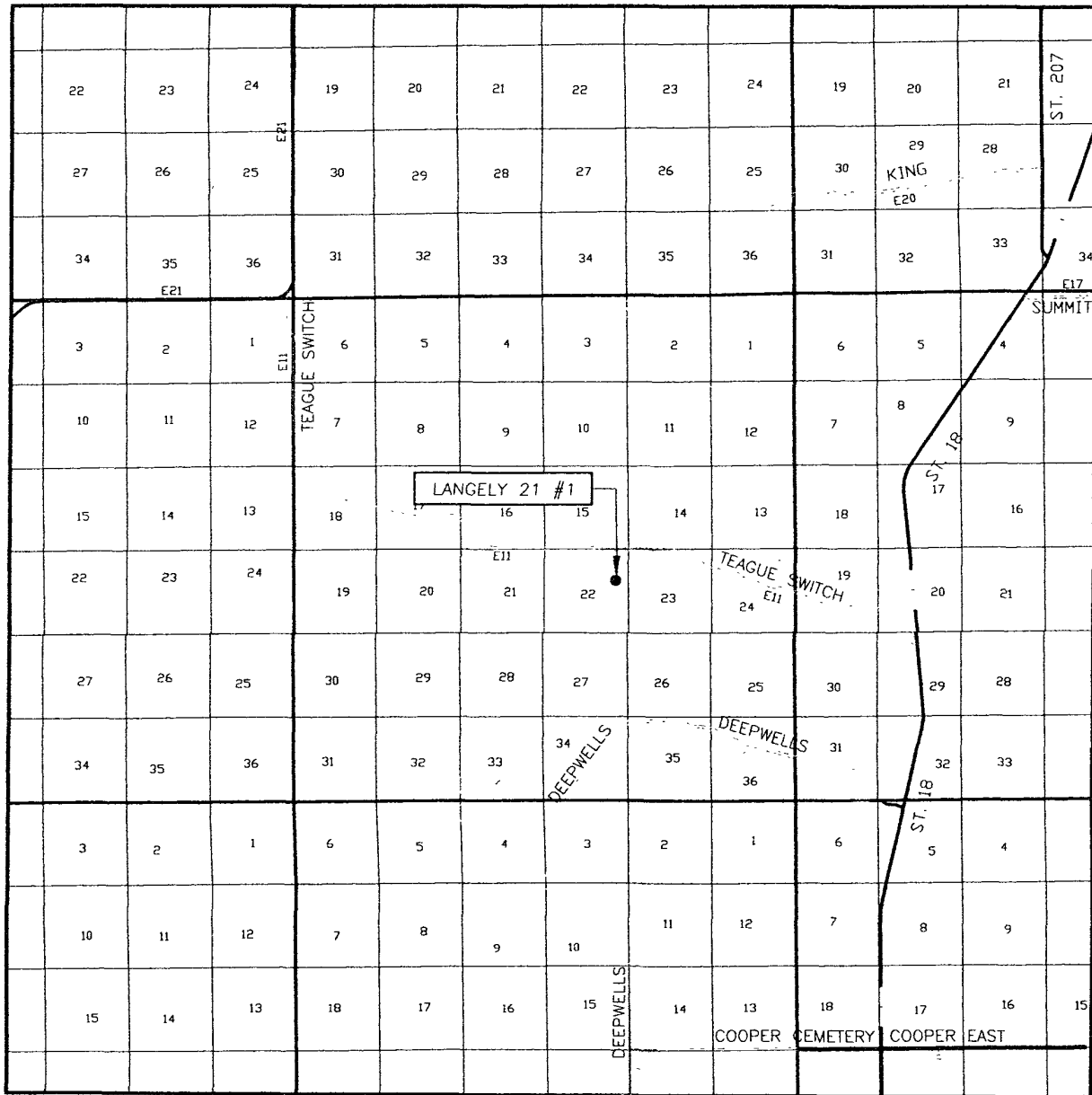
LANGLEY 21 #1 WELL
LOCATED 1980 FEET FROM THE NORTH LINE
AND 800 FEET FROM THE EAST LINE OF SECTION 21,
TOWNSHIP 23 SOUTH, RANGE 36 EAST, N.M.P.M.,
LEA COUNTY, NEW MEXICO.



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

Survey Date: 5/20/08	Sheet 1 of 1 Sheets
W.O. Number: 08.11.0759	Dr By: LA
Date: 5/22/08	Scale: 1"=100'

VICINITY MAP



SCALE: 1" = 2 MILES

SEC. 21 TWP. 23-S RGE. 36-E

SURVEY N.M.P.M.

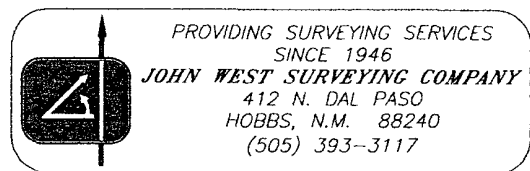
COUNTY LEA STATE NEW MEXICO

DESCRIPTION 1980' FNL & 800' FEL

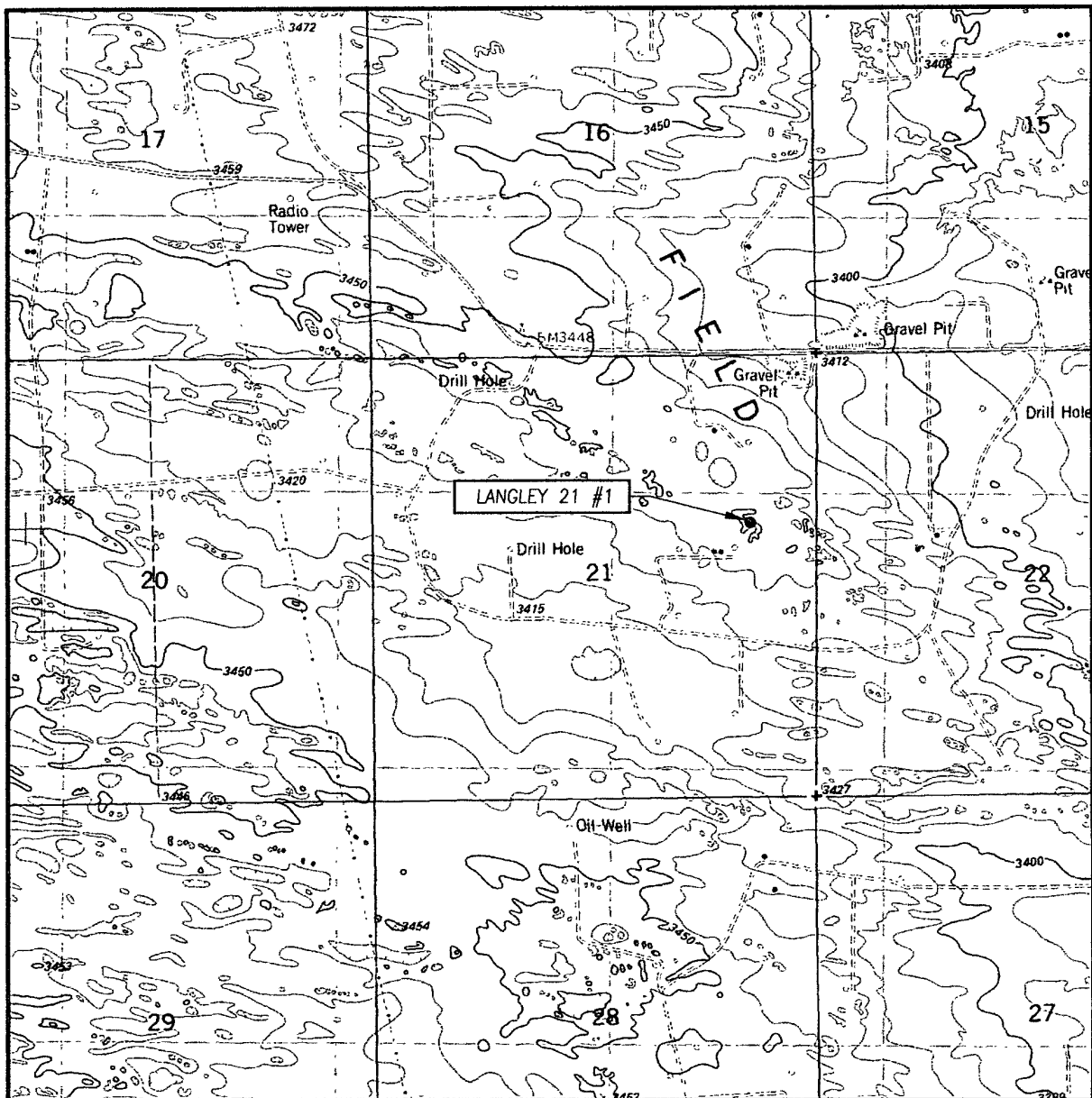
ELEVATION 3450'

OPERATOR ROCA OPERATING, INC.

LEASE LANGLEY 21



LOCATION VERIFICATION MAP



SCALE: 1" = 2000'

CONTOUR INTERVAL: 10'
EAST LAKE, N.M.

SEC. 21 TWP. 23-S RGE. 36-E

SURVEY N.M.P.M.

COUNTY LEA STATE NEW MEXICO

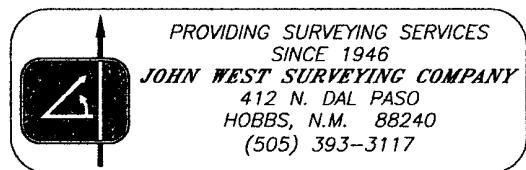
DESCRIPTION 1980' FNL & 800' FEL

ELEVATION 3450'

OPERATOR ROCA OPERATING, INC.

LEASE LANGLEY 21

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



ROCA Operating, Inc. – Langley 21 No. 1

Pad Lay-Out w/ Reserve Pits

Permian Drilling Rig 5

