

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0137
Expires March 31, 2007


APPLICATION FOR PERMIT TO DRILL OR REENTER

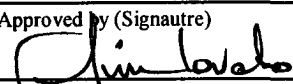
1a. Type of Work <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		2005 NOV 2 00 08 21		5. Lease Serial No. NM 013688
1b. Type of Well <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone				6. If Indian, Allottee or Tribe Name
2. Name of Operator Energex Resources Corporation		OTC FARMINGTON		7. Unit or CA Agreement Name and No.
3a. Address 2198 Bloomfield Highway Farmington, New Mexico 87401		3b. Phone No. (include area code) (505) 325-6800		8. Lease Name and Well No. Atlantic #205S
4. Location of Well (Report location clearly and in accordance with any State requirements)* At surface 1025' fsl, 940' fel At proposed prod. zone				9. API Well No. 30-045-33409
14. Distance in miles and direction from nearest town or post office* Approximately 8.0 miles north east of Aztec				10. Field and Pool, or Exploratory Basin Fruitland Coal
15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drg. unit line, if any) 940'		16. No. of Acres in lease 2440		11. Sec., T., R., M., or Blk. and Survey or Area P S22, T31N, R10W
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. Approx. 700'		19. Proposed Depth 3297'		12. County or Parish San Juan
21. Elevations (Show whether DF, KDB, RT, GL, etc.) GL 6318'		22. Approximate date work will start* 11/25/05		13. State NM
		23. Estimated duration 14 days		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification.
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature 	Name (Printed/Typed) Nathan Smith	Date 11/1/05
-----------------------------------------------------------------------------------------------------	---------------------------------------------	------------------------

Approved by (Signature) 	Name (Printed/Typed) Active Field Manager - Min.	Date 12/7/05
Title Active Field Manager - Min.	Office OIL CONS. DIV. DIST. 3	

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

*(Instructions on page 2)

DRILLING OPERATIONS AUTHORIZED ARE
SUBJECT TO COMPLIANCE WITH ATTACHED
"GENERAL REQUIREMENTS".

This action is subject to technical and
procedural review pursuant to 43 CFR 3165.3
and appeal pursuant to 43 CFR 3165.4

NMOCDD

District I
PO Box 1980, Hobbs, NM 88241-1980

District II
PO Drawer DD, Artesia, NM 88211-0719

District III
1000 Rio Brazos Rd., Aztec, NM 87410

District IV
PO Box 2088, Santa Fe, NM 87504-2088

State of New Mexico
Energy, Minerals & Natural Resources Department

OIL CONSERVATION DIVISION
PO Box 2088
Santa Fe, NM 87504-2088

Form C-102
Revised February 21, 1994
Instructions on back
Submit to Appropriate District Office
State Lease - 4 Copies
Fee Lease - 3 Copies

☐ AMENDED REPORT

2005 NOV 2 8 24

WELL LOCATION AND ACREAGE DEDICATION PLAT

*API Number 30-045-33 409		*Pool Code 71629	*Pool Name BASIN FRUITLAND COAL
*Property Code 21160	*Property Name ATLANTIC		*Well Number 205S
*OGRID No. 162928	*Operator Name ENERGEN RESOURCES CORPORATION		*Elevation 6318'

¹⁰ Surface Location

UL or lot no. P	Section 22	Township 31N	Range 10W	Lot Idn	Feet from the 1025	North/South line SOUTH	Feet from the 940	East/West line EAST	County SAN JUAN
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¹¹ 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 309.96 Acres - (E/2)					*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

16		2635.38'		2630.76'		17 OPERATOR CERTIFICATION	
2636.70'		LOT 4		LOT 3		I hereby certify that the information contained herein is true and complete to the best of my knowledge and belief	
		LOT 5		LOT 6		Signature <i>Nathan Smith</i>	
		LOT 12		LOT 11		Printed Name Nathan Smith	
		LOT 13		LOT 14		Title Drilling Engineer	
		LOT 15		LOT 16		Date 11/1/05	
		LOT 10		LOT 9		18 SURVEYOR CERTIFICATION	
		LOT 7		LOT 8		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.	
		LOT 2		LOT 1		Survey Date: SEPTEMBER 30, 2005	
		LOT 1		LOT 2		Signature and Seal of Professional Surveyor	
		LOT 3		LOT 4		JASON C. EDWARDS	
		LOT 5		LOT 6		NEW MEXICO	
		LOT 7		LOT 8		15269	
		LOT 9		LOT 10		REGISTERED PROFESSIONAL SURVEYOR	
		LOT 11		LOT 12		JASON C. EDWARDS	
		LOT 13		LOT 14		Certificate Number 15269	
		LOT 15		LOT 16			
		LOT 17		LOT 18			
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		LOT 48					

Submit 3 Copies To Appropriate District
Office
District I
1625 N. French Dr., Hobbs, NM 87240
District II
1301 W. Grand Ave., Artesia, NM 88210
District III
1000 Rio Brazos Rd., 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-103
May 27, 2004

OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, NM 87505

WELL API NO. 30-045-33409

5. Indicate Type of Lease

STATE ☐ FEE ☐

6. State Oil & Gas Lease No.

NMM 013688

7. Lease Name or Unit Agreement Name:

Atlantic

8. Well Number

205S

9. OGRID Number

162928

10. Pool name or Wildcat

Basin Fruitland Coal

SUNDRY NOTICES AND REPORTS ON WELLS

(DO NOT USE THIS FORM FOR PROPOSALS TO DRILL OR TO DEEPEN OR PLUG BACK TO A DIFFERENT RESERVOIR. USE "APPLICATION FOR PERMIT" (FORM C-101) FOR SUCH PROPOSALS.)

1. Type of Well:

Oil Well ☐ Gas Well ☒ Other

2. Name of Operator

Energen Resources Corporation

3. Address of Operator

2198 Bloomfield Highway, Farmington, NM 87401

4. Well Location

Unit Letter P: 1025' feet from the South line and 940' feet from the East line

Section 22 Township 31N Range 10W NMPM County San Juan

11. Elevation (Show whether DR, RKB, RT, GR, etc.)

6318' GL

Pit or Below-grade Tank Application ☒ or Closure ☐

Pit type Drill Depth to Groundwater >100' Distance from nearest fresh water well >1000' Distance from nearest surface water >200'

Pit Liner Thickness: 12 mil Below-Grade Tank: Volume _____ bbls; Construction Material _____

12. Check Appropriate Box to Indicate Nature of Notice, Report, or Other Data

NOTICE OF INTENTION TO:

PERFORM REMEDIAL WORK ☐ PLUG AND ABANDON ☐

TEMPORARILY ABANDON ☐ CHANGE PLANS ☐

PULL OR ALTER CASING ☐ MULTIPLE COMPLETION ☐

OTHER: Build drilling pit ☒

SUBSEQUENT REPORT OF:

REMEDIAL WORK ☐ ALTERING CASING ☐

COMMENCE DRILLING OPNS. ☐ PLUG AND ABANDONMENT ☐

CASING TEST AND CEMENT JOB ☐

OTHER: ☐

13. Describe proposed or completed operations. (Clearly state all pertinent details, and give pertinent dates, including estimated date of starting any proposed work). SEE RULE 1103. For Multiple Completions: Attach wellbore diagram of proposed completion or recompletion.

Energen Resources plans to build a lined pit according to "OCD Pit and Below-grade Tank Guidelines", as issued on November 1, 2004. Energen anticipates the submittal of a C-144 for closure of this pit in accordance with BIM and "OCD Pit and Below-grade Tank Guidelines".

I hereby certify that the information above is true and complete to the best of my knowledge and belief. I further certify that any pit or below-grade tank has been/will be constructed or closed according to NMOCD guidelines ☒ , a general permit ☐ or an (attached) alternative OCD-approved plan ☐

SIGNATURE Nathan Smith TITLE Drilling Engineer DATE 11/01/05

Type or print name Nathan Smith

E-mail address: nsmith@energen.com
Telephone No. 505.325.6800

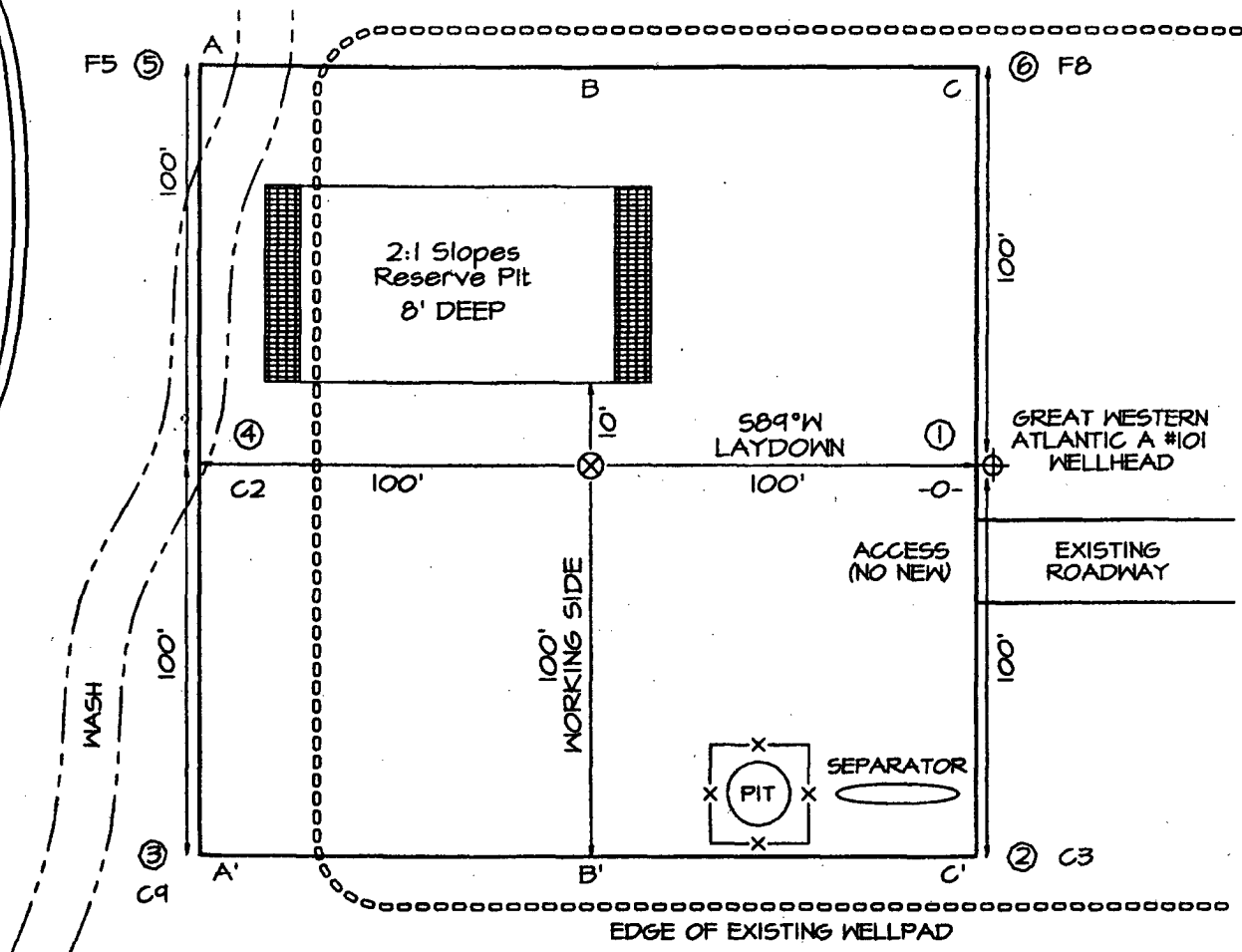
For State Use Only

APPROVED BY [Signature] TITLE DEPUTY OIL & GAS INSPECTOR, DIST. IV DATE DEC 13 2005

Conditions of Approval, if any:

ENERGEN RESOURCES CORPORATION ATLANTIC #205S
1025' FSL & 940' FEL, SECTION 22, T31N, R10W, NMPM
SAN JUAN COUNTY, NEW MEXICO GROUND ELEVATION: 6318'

LATITUDE: 36°52'47"
 LONGITUDE: 107°51'49"
 DATUM: NAD1927



A-A'						
6328'						
6318'						
6308'						

B-B'						
6328'						
6318'						
6308'						

C-C'						
6328'						
6318'						
6308'						

Note: Contractor should call One-Call for location of any marked or unmarked buried pipelines or cables on well pad and/or access road at least two (2) working days prior to construction

Operations Plan

November 1, 2005

Atlantic #205S

General Information

Location	1025' fsl, 940' fsl T22S, T31N, R10W San Juan County, New Mexico
Elevations	6318' GL
Total Depth	3297' (MD)
Formation Objective	Basin Fruitland Coal

Formation Tops

Nacimiento	Surface
Ojo Alamo Ss	1558'
Kirtland Sh	1628'
Fruitland Fm	2797'
Top Coal	2838'
Bottom Coal	3097'
Pictured Cliffs Ss	3097'
Total Depth	3297'

Drilling

The 12 1/4" wellbore will be drilled with a fresh water mud system.

The 7 7/8" wellbore will be drilled with a low solids fresh water/polymer mud system. Weighting materials will be drill cuttings and if needed barite. Mud density is expected to range from 8.3 ppg to 8.9 ppg.

Blowout Control Specifications:

A 2000 psi minimum double ram or annulus BOP stack (figure 1) will be used following nipple up of casing head. A 2" nominal, 2000 psi minimum choke manifold will also be used. An upper Kelly Cock valve handle and drill string valve should be available to fit each drill string and be available on the rig floor during drilling operations.

Logging Program:

Open hole logs: Induction/Gamma Ray and Density Logs

Coring: None

Surveys: Surface and/or every 500' to TD.

Tubulars

Casing, Tubing, & Casing Equipment:

String	Interval	Wellbore	Casing	Csg Wt	Grade
Surface	0'-300	12 ¼"	8 5/8"	24.0 ppf	J-55 ST&C
Production	300'-3297'	7 7/8"	5 ½"	15.5 ppf	J-55 LT&C
Tubing	0'-3200'		2 3/8"	4.7 ppf	J-55

Casing Equipment:

Surface Casing: Depending on wellbore conditions, a Texas Pattern Guide Shoe on bottom. Casing centralization with standard bow spring centralizers to achieve optimal standoff.

Production Casing: Depending on wellbore conditions, a Cement nose guide shoe with self fill insert float collar on top of bottom joint and casing centralization with standard bow spring centralizers to optimize standoff. Two turbolating centralizers at the base of the Ojo Alamo are recommended.

Wellhead

8 5/8" 2000 x 5 ½" Larkin casing head. 5 ½" 2000 x 2" tubing head.

Cementing

Surface Casing: 175 sks Std (class B) with 2.0 % CaCl₂ and ¼ #/sk Flocele (15.6 ppg, 1.18 ft³/sk 207 ft³ of slurry, 100% excess to circulate to surface). WOC 12 hours. Pressure test surface casing to 1000 psi for 30 min.

Production Casing: Before cementing, circulate hole at least 1 ½ hole volumes of mud and reduce funnel viscosity to minimum to aide in hole cleanout. Depending on wellbore conditions, cement may consist of 500 sks 65/35 with 6.0 % Bentonite, 2.0 % CaCl₂, 10 #/sk Gilsonite, and ½ #/sk Flocele (12.3 ppg, 1.96 ft³/sk) and a tail of 145 sks of Standard (Class B) cement with 5.0 #/sk Gilsonite, and ¼ #/sk Flocele (15.2ppg, 1.24 ft³/sk). (1160 ft³ of slurry, 100 % excess to circulate to surface).

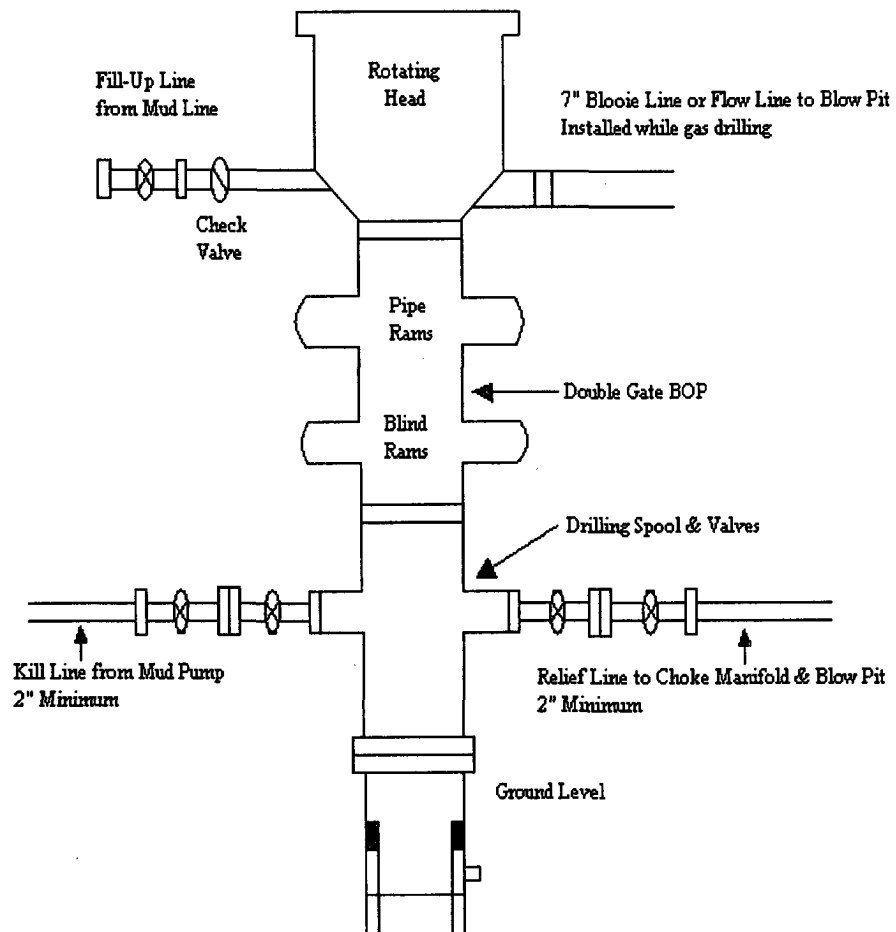
Pump 30 sks of flyash scavenger spacer consisting of 15.0 % Benonite and 0.15 % HR-5 ahead of cement

Other Information

- 1) This well will be cased and the Basin Fruitland Coal fracture stimulated.
- 2) If lost circulation is encountered, sufficient LCM will be added to the mud system to maintain well control. **The production string may need to be cemented in multiple stages** with a slurry design deviated from that listed above.
- 3) If high reservoir pressures or water flows are encountered slurry design may need to be deviated to from those listed above to satisfy wellbore and formation conditions.
- 4) No abnormal temperatures or pressures are anticipated.
- 5) This gas is dedicated.

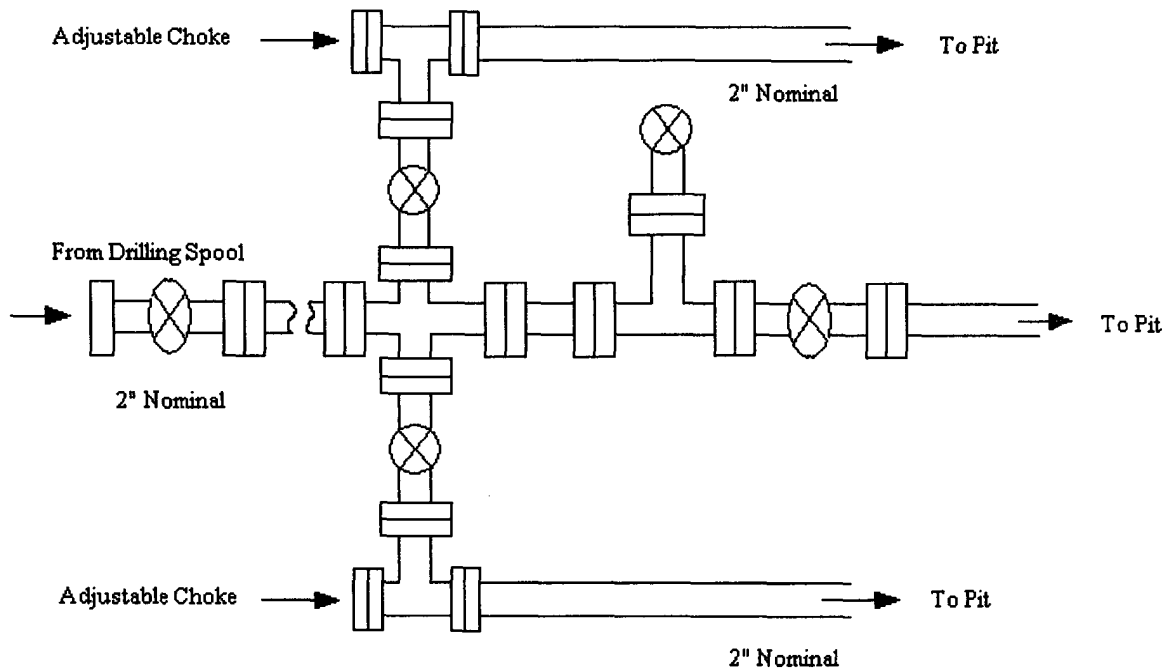
Energen Resources Corporation

Typical BOP Configuration for Gas Drilling



Energen Resources Corporation

Typical 2000 psi Choke Manifold Configuration



Choke manifold installed from surface to TD

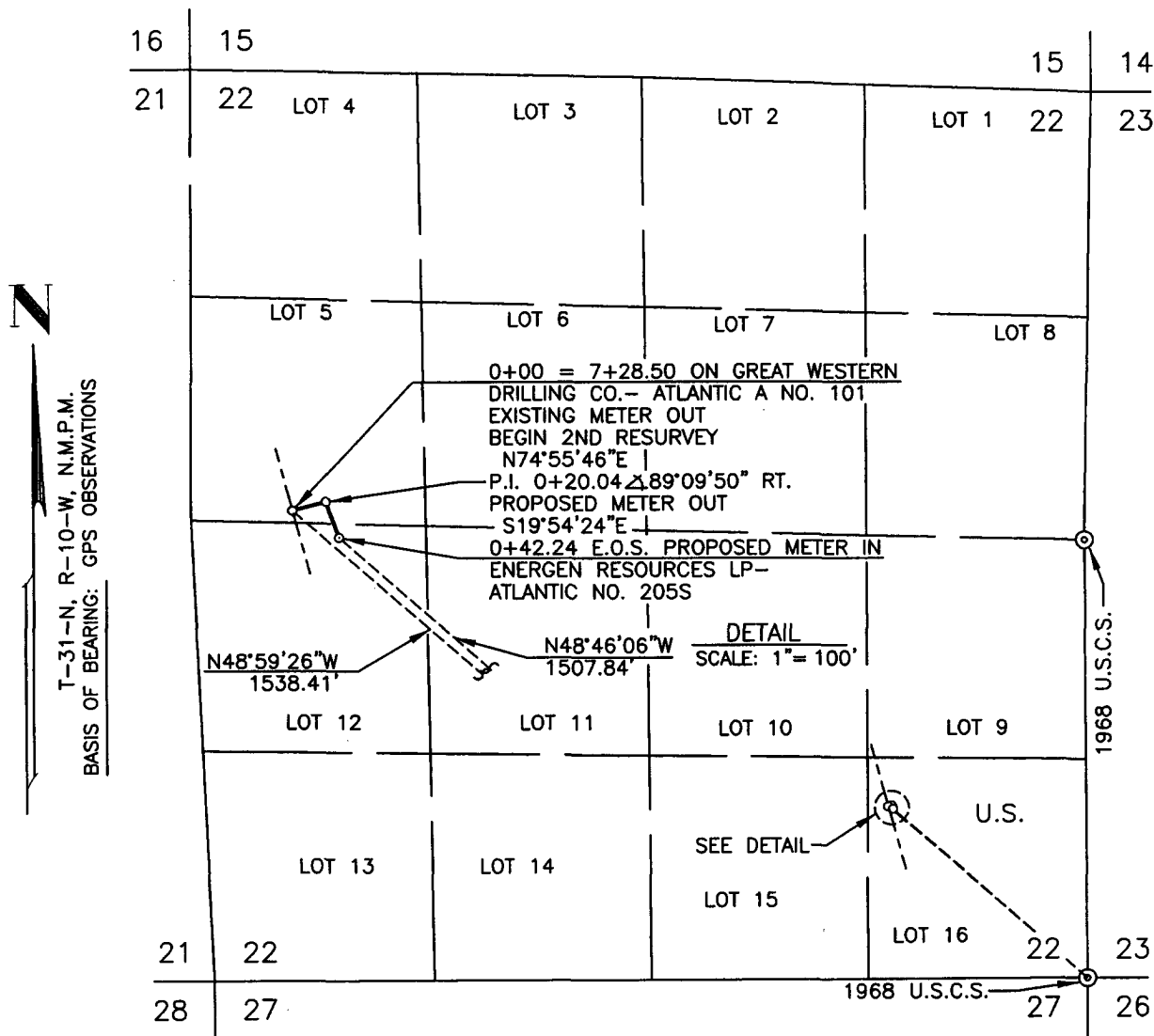
LINE ENERGEN RESOURCES CORP.— ATLANTIC NO. 205S

FROM 0+00 = 7+28.50 ON GREAT WESTERN DRILLING CO.- ATLANTIC A NO. 101

(BLH10-43-1, R/W NO. 8270893)(MC NO. 94574)

COUNTY SAN JUAN STATE NEW MEXICO SECTION 22 TOWNSHIP 31-N

RANGE 10-W, N.M.P.M.



DWN. BY TC CONSTR. COMMENCED _____ APPL. DWG. _____ SLACK CHAIN _____
CKD. BY MD CONSTR. COMPLETED _____ DATE _____ PIPE SIZE 4.50" O.D.

[illegible]

NOTE: WELL FLAG
PROPOSED LOCATION ADJOINS EXISTING WELL LOCATION
LOCATION NOT BUILT
PROPOSED PARALLEL METER RUN

OWNERSHIP	SUBDIVISION	OWNER	LESSEE	METER(S)	RODS	ACRE(S)
	ALL SECTION 22	UNITED STATES	JIM T. DUNLAP		2.560	0.039
REV.	1- REVISED PER RESURVEY NOTES DATED 10/14/05 (10/19/05/TC)					