

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENTFORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS**
*Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.*5. Lease Serial No.
NMNM22634

6. If Indian, Allottee or Tribe Name

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

7. If Unit or CA/Agreement, Name and/or No.

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.

EAST PECOS FEDERAL 22 9H

2. Name of Operator

RKI EXPLORATION & PROD LLC

Contact: HEATHER BREHM

E-Mail: Heather.Brehm@wpenergy.com

9. API Well No.

30-015-43349-00-X1

3a. Address

210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 539-573-7512

10. Field and Pool, or Exploratory

UNDESIGNATED

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)

Sec 22 T26S R29E SWSW 150FSL 1330FWL

11. County or Parish, and State

EDDY COUNTY, NM

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input checked="" type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Change to Original A
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	PD

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recompleat horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompleat in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

WPX RESPECTFULLY REQUESTS TO MAKE THE FOLLOWING BHL CHANGES TO THE ORIGINAL APD. REVISED PLAT AND DRILLING PLAN ATTACHED.

First Take Last Take BHL
330? FSL & 330? FWL 330? FNL & 330? FWL 230? FNL & 330? FWL

NM OIL CONSERVATION
ARTESIA DISTRICT

JUN 10 2016

Accepted for record - NMOCD

RECEIVED

14. I hereby certify that the foregoing is true and correct.

Electronic Submission #338130 verified by the BLM Well Information System
For RKI EXPLORATION & PROD LLC, sent to the Carlsbad
Committed to AFMSS for processing by PRISCILLA PEREZ on 05/03/2016 (16PP1062SE)

Name (Printed/Typed) HEATHER BREHM

Title REGULATORY ANALYST

Signature (Electronic Submission)

Date 05/02/2016

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By REJECTED <u>mustafa Hague</u>	(BLM Approver Not Specified) Title PETROLEUM ENGINEER	Date 06/03/2016
Conditions of approval, if any, are attached. Approval of this notice 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.		
Office Carlsbad		

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****F3
6/20/16

DISTRICT I
1625 N. Francis Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6720

DISTRICT II
611 S. First St., Artesia, NM 88210
Phone: (575) 745-1283 Fax: (575) 745-9720

DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6175 Fax: (505) 334-6170

DISTRICT IV
1220 S. St. Francis Dr., Santa Fe, NM 87505
Phone: (505) 476-3460 Fax: (505) 476-3462

State of New Mexico
Energy, Minerals & Natural Resources Department
OIL CONSERVATION DIVISION
1220 South St. Francis Dr.
Santa Fe, New Mexico 87505

Form C-102
Revised August 1, 2011
Submit one copy to appropriate
District Office
☐ AMENDED REPORT

WELL LOCATION AND ACREAGE DEDICATION PLAT

API Number 30-015-43349	Pool Code 72897	Pool Name UNDESIGNATED WOLFCAMP
Property Code 40484	Property Name EAST PECOS FEDERAL 22	Well Number 9H
OGRID No. 246289	Operator Name RKI EXPLORATION & PRODUCTION	Elevation 2879

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	22	26S	29E		150	S	1330	W	EDDY

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
D	22	26S	29E		230	N	330	W	EDDY

Dedicated Acres	Joint or Infill	Consolidated Code	Order No.
320.0			

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>A 230'</p> <p>330'</p> <p>LAST TAKE 330' FNL 330' FWL NMSP-E (NAD 83) N (Y) = 376436.3' E (X) = 650056.9' LAT. = 32°02'03.88" N LONG. = 103°58'46.48" W NMSP-E (NAD 27) N (Y) = 376378.8' E (X) = 609771.3' LAT. = 32.0342851°N LONG. = 103.9790954°W</p>	<p>EAST PECOS FEDERAL 22 9H BHL NMSP-E (NAD 83) N (Y) = 376536.5' E (X) = 650955.8' LAT. = 32°02'04.87"N LONG. = 103°58'46.49"W NMSP-E (NAD 27) N (Y) = 376479.0' E (X) = 609770.2' LAT. = 32.0345604°N LONG. = 103.9790980°W</p>		
	<p>EAST PECOS FEDERAL 22 9H SHL NMSP-E (NAD 83) N (Y) = 371613.5' E (X) = 652009.9' LAT. = 32°01'16.11"N LONG. = 103°58'34.43"W NMSP-E (NAD 27) N (Y) = 371556.0' E (X) = 610824.1' LAT. = 32.0210176°N LONG. = 103.9757496°W</p>		
<p>FIRST TAKE 330' FSL 330' FWL NMSP-E (NAD 83) N (Y) = 371888.8' E (X) = 651007.1' LAT. = 32°01'18.65" N LONG. = 103°58'46.07" W NMSP-E (NAD 27) N (Y) = 371809.4' E (X) = 609821.3' LAT. = 32.0217233°N LONG. = 103.9788823°W</p>			

OPERATOR CERTIFICATION
I hereby certify that the information contained 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 a mineral or working interest, or to voluntary pooling agreement or a compulsory pooling order heretofore entered by the division.

Heather Brehm 05.02.16
Signature Date

Heather Brehm
Print Name

heather.brehm@wpenergy.com
E-mail Address

SURVEYORS 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.

MARCH 30, 2016
Date of Survey

Signature and Seal of Professional Surveyor

James E. Tompkins

JAMES E. TOMPKINS
NEW MEXICO
14729
REGISTERED PROFESSIONAL LAND SURVEYOR

Job No.: WTC51102
JAMES E. TOMPKINS 14729
Certificate Number

COORDINATES

<p>A. NW COR SEC 22 NMSP-E (NAD 83) N (Y) = 376782.0' E (X) = 650623.0' LAT.: 32°02'07.31"N LONG.: 103°58'50.35"W NMSP-E (NAD 27) N (Y) = 376724.4' E (X) = 609437.3' LAT.=32.0352382°N LONG.=103.9801694°W</p>	<p>B. N 1/4 COR SEC 22 NMSP-E (NAD 83) N (Y) = 376657.5' E (X) = 653340.8' LAT.: 32°02'05.99" LONG.: 103°58'18.78"W NMSP-E (NAD 27) N (Y) = 376600.0' E (X) = 612155.1' LAT.=32.0348713°N LONG.=103.9714005°W</p>	<p>C. NE COR SEC 22 NMSP-E (NAD 83) N (Y) = 376539.6' E (X) = 656059.9' LAT.: 32°02'04.73" N LONG.: 103°57'47.19"W NMSP-E (NAD 27) N (Y) = 376482.0' E (X) = 614874.2' LAT.=32.0345218°N LONG.=103.9626274°W</p>
<p>D. W 1/4 COR SEC 22 NMSP-E (NAD 83) N (Y) = 374169.5' E (X) = 650652.8' LAT.: 32°01'41.45" N LONG.: 103°58'50.10" W NMSP-E (NAD 27) N (Y) = 374112.0' E (X) = 609467.1' LAT.=32.0280564°N LONG.=103.9801009°W</p>		<p>E. E 1/4 COR SEC 22 NMSP-E (NAD 83) N (Y) = 373857.0' E (X) = 656068.2' LAT.: 32°01'38.18" N LONG.: 103°57'47.20"W NMSP-E (NAD 27) N (Y) = 373799.5' E (X) = 614882.4' LAT.=32.0271474°N LONG.=103.9626305°W</p>
<p>F. SW COR SEC 22 NMSP-E (NAD 83) N (Y) = 371559.8' E (X) = 650680.3' LAT.: 32°01'15.63" N LONG.: 103°58'49.88" W NMSP-E (NAD 27) N (Y) = 371502.4' E (X) = 609494.6' LAT.=32.0208821°N LONG.=103.9800399°W</p>	<p>G. S 1/4 COR SEC 22 NMSP-E (NAD 83) N (Y) = 371363.2' E (X) = 653380.8' LAT.: 32°01'13.59" N LONG.: 103°58'18.52" W NMSP-E (NAD 27) N (Y) = 371305.8' E (X) = 612195.0' LAT.=32.0203171°N LONG.=103.9713289°W</p>	<p>H. SE COR SEC 22 NMSP-E (NAD 83) N (Y) = 371166.9' E (X) = 656080.2' LAT.: 32°01'11.56" N LONG.: 103°57'47.17" W NMSP-E (NAD 27) N (Y) = 371109.5' E (X) = 614894.3' LAT.=32.0197524°N LONG.=103.9626219°W</p>

0 1000 2000 4000

GRAPHIC SCALE 1" = 2000'

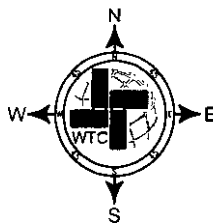
SECTION 22, T 26S, R 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 150' FSL & 1330' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-9H



DRIVING DIRECTIONS:

FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y". STAY RIGHT. GO 0.3 MILE IN SOUTHWESTERLY DIRECTON. LOCATION FLAG IS 241 FEET EAST.

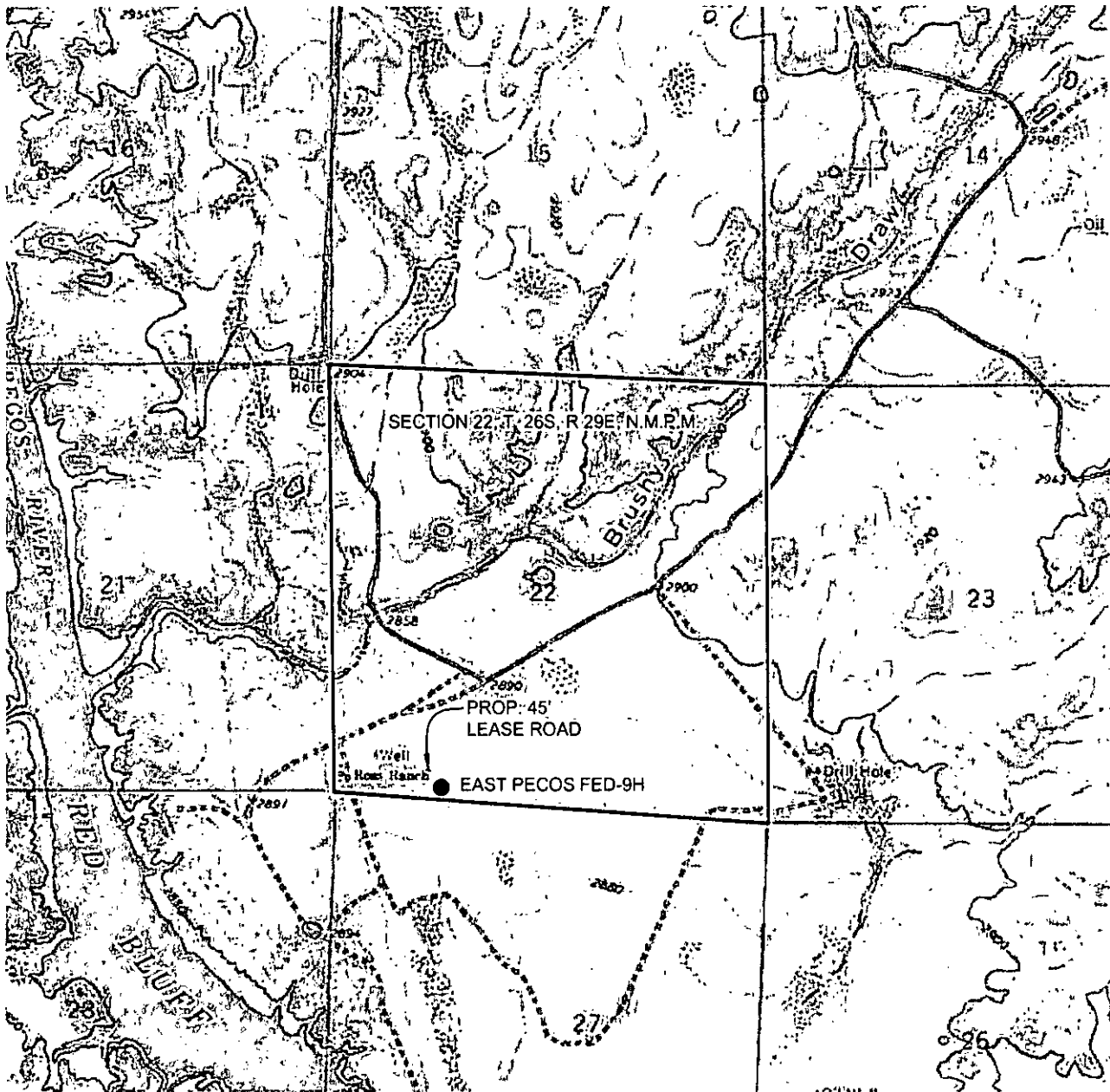


W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



JOB No.: 51102

LOCATION VERIFICATION MAP



0 1000 2000 4000

GRAPHIC SCALE 1" = 2000'

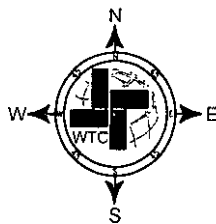
SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 150' FSL & 1330' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-9H



DRIVING DIRECTIONS:

FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y". STAY RIGHT. GO 0.3 MILE IN SOUTHWESTERLY DIRECTION. LOCATION FLAG IS 241 FEET EAST.



W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



AERIAL MAP



0 1000 2000 4000

GRAPHIC SCALE 1" = 2000'

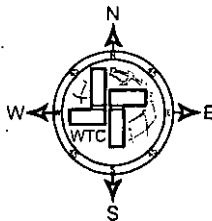
SECTION 22, T 26S, R 29E, N1/4

COUNTY: EDDY STATE: NM

DESCRIPTION: 150' FSL & 1330' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-9H



DRIVING DIRECTIONS:

FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y". STAY RIGHT. GO 0.3 MILE IN SOUTHWESTERLY DIRECTION. LOCATION FLAG IS 241 FEET EAST.

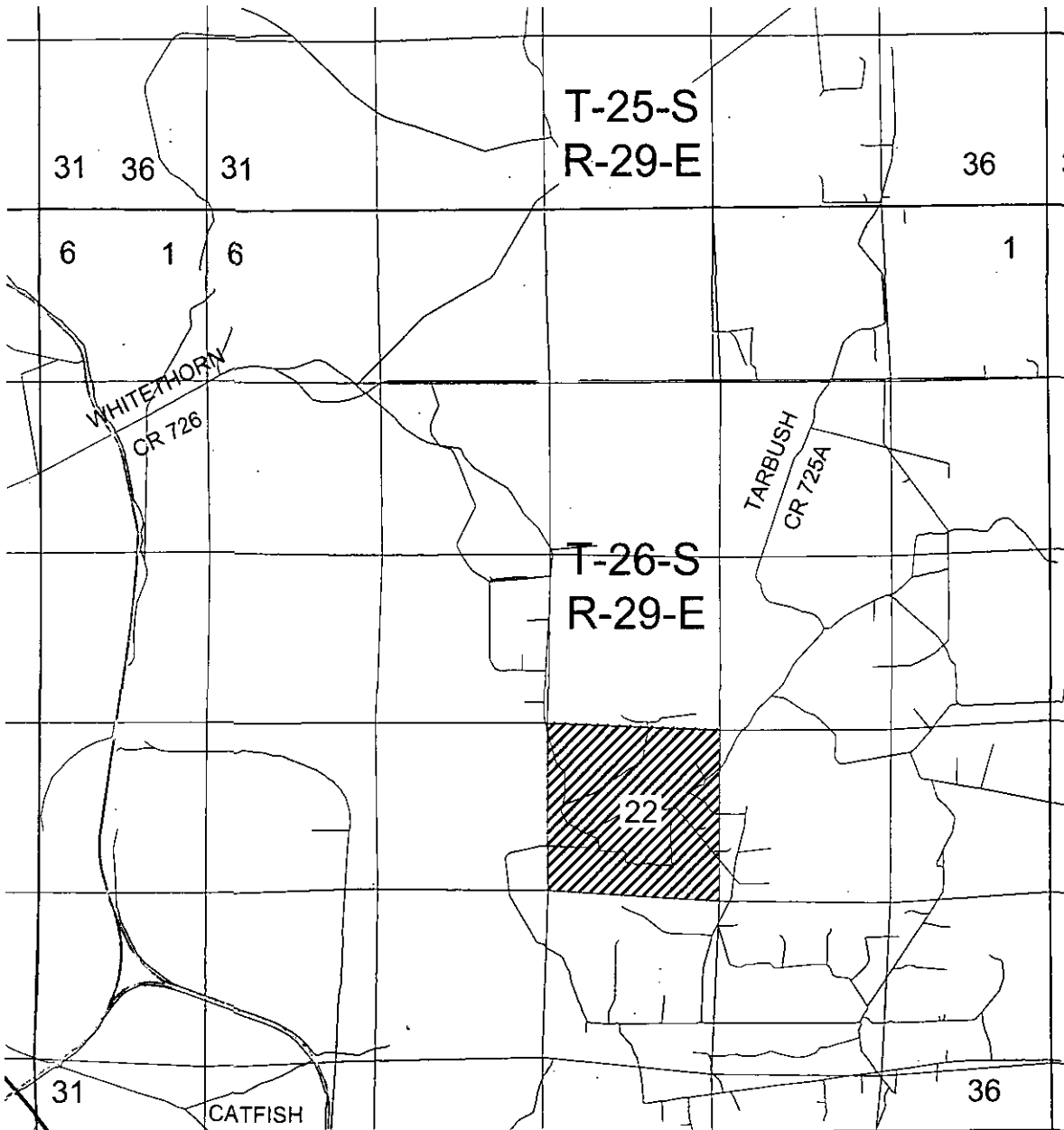


WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



JOB No.: WTC51102

VICINITY MAP



GRAPHIC SCALE 1" = 1 MILE

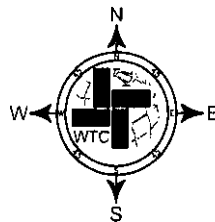
SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 150' FSL & 1330' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-9H



DRIVING DIRECTIONS:

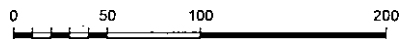
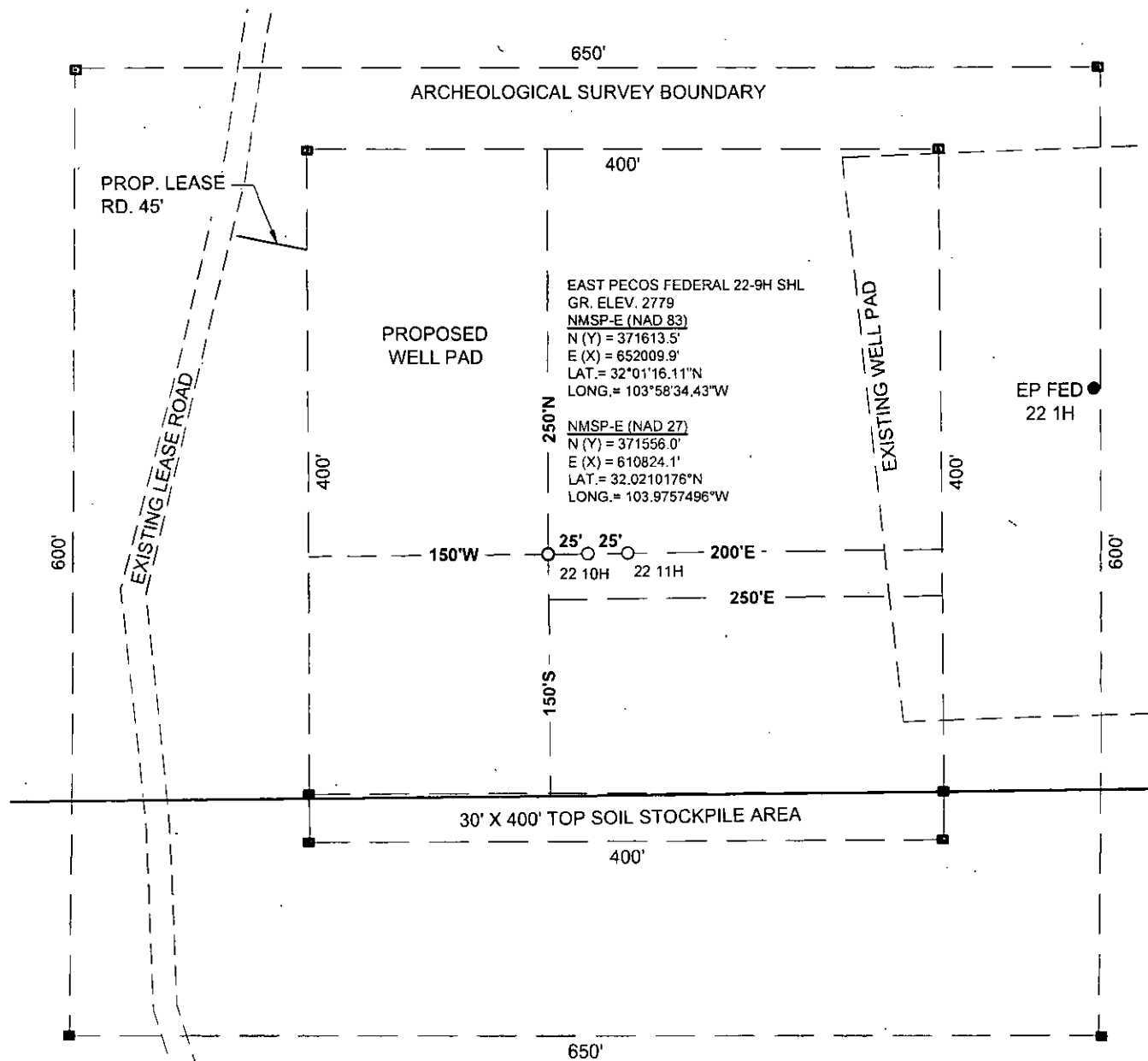
FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y". STAY RIGHT. GO 0.3 MILE IN SOUTHWESTERLY DIRECTION. LOCATION FLAG IS 241 FEET EAST.



WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



SITE LOCATION



GRAPHIC SCALE 1" = 100'

SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

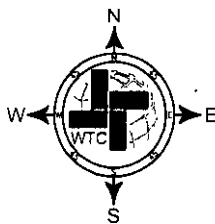
DESCRIPTION: 150' FSL & 1330' FWL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-9H

DRIVING DIRECTIONS:

FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y", STAY RIGHT. GO 0.3 MILE IN SOUTHWESTERLY DIRECTION. LOCATION FLAG IS 241 FEET EAST.



WTC, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



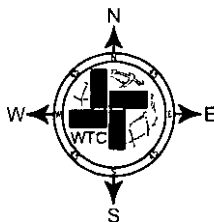
JOB No.: WTC51102

[illegible]

RKI
Exploration
& Production

[illegible]

WELL NAME: EAST PECOS FEDERAL 22-9H BHL



FROM THE INTERSECTION OF STATE HIGHWAY 285
AND LONGHORN COUNTY ROAD 725. GO EAST/
NORTHEAST ON LONGHORN COUNTY ROAD 725
FOR 6.7 MILES TO A "Y", STAY RIGHT. GO 0.3 MILE IN
SOUTHWESTERLY DIRECTON. LOCATION FLAG IS
241 FEET EAST.



405 S.W. 1st Street
Andrews, TX 78714
(432) 523-2181



RKI Exploration & Production, LLC

Well East Pecos Federal 22-9H
 Location Surface: 150 FSL 1,330 FWL 22-26S-29E
 Bottom Hole: 230 FNL 330 FWL 22-26S-29E

County Eddy
 State NM

1) The elevation of the unprepared ground is 2,879 feet above sea level.

2) The geologic name of the surface formation is Quaternary - Alluvium.

3) A rotary rig will be utilized to drill the well to 14,510 feet and run casing and cement.
 This equipment will then be rigged down and the well will be completed with a workover rig.

4) Proposed depth is 14,510 feet MD

5) Estimated tops:

	MD	TVD		
Rustler	950	950		
Salado	1,100	1,100		BHP = .44 psi/ft x depth
Lamar Lime	2,885	2,856		1,269 psi
Delaware Top	3,003	3,000		1,321 psi
Cherry Canyon Sand	3,988	3,928	Oil	1,755 psi
Bone Spring Lime	6,717	6,638	Oil	2,955 psi
Bone Spring 1st SS	7,622	7,543	Oil	3,354 psi
Bone Spring 2nd SS	8,432	8,353		3,710 psi
KOP	9,475	9,395	Oil	4,169 psi
Bone Spring 3rd SS	9,480	9,400		4,171 psi
Landing Point (Wolfcamp)	10,475	10,039	Oil	4,609 psi
TD	14,510	10,039		6,384 psi

6) Casing program:

Hole Size	Top	Bottom	OD Csg	Wt/Grade	Connection	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"	0	1,000	13 3/8"	54.5#/I-55	ST&C	2.57	12.41	9.43
12 1/4"	0	6,717	9-5/8"	40#/L-80	LT&C	1.43	1.15	4.79
8-3/4"	-	14,510	5 1/2"	23#/P-110	BTC	2.51	1.26	2.00
Collapse	1.125							
Burst	1.0							
Tension	2.0							

7) Cement program:

Surface	17 1/2" hole			
Pipe OD	13 3/8"			
Setting Depth	1,000 ft			
Annular Volume	0.69462 cf/ft			
Excess	1	100 %		
Lead	794 sx	1.75 cf/sk	9.13 gal/sk	13.5 ppg
Tail	200 sx	1.33 cf/sk	6.32 gal/sk	14.8 ppg
Lead: "C" + 4% PF20 (gel) + 2% PF1 (CC) + .125 pps PF29 (CelloFlake) + .4 pps PF46 (antifoam)				
Tail: "C" + 1% PF1 (CC)				
Top of cement:		Surface		

Intermediate				
Pipe OD	9-5/8"			
Setting Depth	6,717 ft			
Annular Volume	0.3132 cf/ft	0.3627 cf/ft	1000 ft	
Excess	0.35	35 %		
DV Tool Depth	5500 ft	Top of Cement		
Stage 1				
Lead:	348 sx	1.48 cf/sk	7.58 gal/sk	13.0 ppg
Lead: PVL + 1.3% PF44 + 5% PF174 + .5% PF606 + .35% PF813 + .1% PF153 + .4 pps PF46				
Top of cement:		DV tool		
Stage 2				
Lead:	1,143 sx	1.89 cf/sk	10.06 gal/sk	12.9 ppg
Tail:	175 sx	1.33 cf/sk	6.32 gal/sk	14.8 ppg
Lead: 35/65 Poz "C" + 5% PF44 + 6% PF20 + .2% PF13 + .125 ps PF29 + .4 pps PF46				
Tail: "C" + .2% PF13				
Top of cement:		Surface - ft		

Production	8-3/4" hole			
Pipe OD	5 1/2"			
Setting Depth	14,510 ft			
Annular Volume	0.2526			
Excess	0.32			
Lead:	1,479 sx	1.87 cf/sk	9.52 gal/sk	13.0 ppg
Lead: AcidSolid PVL + 5% PF174 + .7% PF606 + .2% PF153 + .5% PF13 + 30% PF151 + .4 pps PF46				
Top of cement:		6,217 ft		

8) Pressure control equipment:

The blowout preventer equipment (BOP) shown in Exhibit #1 will consist of a double ram type (5,000 psi WP) preventer, a bag-type annular preventer (5,000 psi WP), and rotating head. Both units will be hydraulically operated and the ram type preventer will be equipped with blind rams on top and pipe rams (sized to accommodate the drill pipe size being utilized) on bottom. A 13 3/8" SOW x 13 5/8" 5M casing head will be installed on the 13 3/8" casing and utilized until total depth is reached. All BOP and associated equipment will be tested to 5,000 psi and the annular will be tested to 1,500 psi after setting 13-3/8" casing string & 9 5/8" casing string. The 13 3/8" and 9 5/8" casing will be tested to .22 psi per ft of casing string length or 1500 psi whichever is greater, but not to exceed 70% of the minimum yield.

The 9 5/8" casing will be hung in the casing head and the stack will not be nipped down at this point.

The stack will not be isolated and tested after running the 9 5/8" casing, but will be tested along with the 9 5/8" casing. Pipe rams will be operated and checked each 24 hour period and each time the drill string is out of the hole.

These function test will be documented on the daily driller's log.

A drilling spool or blowout preventer with 2 side outlets (choke side shall be 3" minimum diameter, kill side shall be at least 2" diameter).

2 kill line valves and a check valve.

2 chokes on the manifold along with a pressure gauge, with one remotely controlled from rig floor.

Upper kelly cock valve with handle available.

Safety valve and subs to fit all drill string connections in use.

All BOP equipment connections subjected to pressure will be flanged, welded, or clamped.

Fill up line above the upper most preventer.

9) Mud program:

Top	Bottom	Mud Wt.	Vis	PV	YP	Fluid Loss	Type System
0	1,000	8.5 to 8.9	32 to 36	1 - 6	1 - 6	NC	Fresh Water
1,000	6,717	9.8 to 10.0	28 to 30	1 - 3	1 - 3	NC	Brine
6,717	14,510	9.6 to 10.2	35 to 40	20-22	8 - 10	<20	White Starch

10) Logging, coring, and testing program:

No drill stem test are planned

KOP to intermediate: CNL, Caliper, GR, DLL,

Intermediate to surface: CNL, GR

No coring is planned

11) Potential hazards:

No abnormal pressure or temperature is expected. No H2S is known to exist in the area.

Lost circulation can occur in, lost circulation material will be on location and readily available if needed.

12) Anticipated start date

ASAP

Duration

40 days