

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

Carlsbad Field Office

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010**SUNDRY NOTICES AND REPORTS ON WELLS**
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.
NMNM21767

6. If Indian, Allottee or Tribe Name

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

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well

☐ Oil Well ☒ Gas Well ☐ Other

2. Name of Operator

RKI EXPLORATION & PROD LLC

Contact: HEATHER BREHM

E-Mail: Heather.Brehm@wpenergy.com

3a. Address

210 PARK AVE SUITE 900
OKLAHOMA CITY, OK 73102

3b. Phone No. (include area code)

Ph: 539-573-7512

Name and No.

EAST PECOS FEDERAL COM 22 13H

9. API Well No.

30-015-43585-00-X1

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

Sec 22 T26S R29E SESE 310FSL 1310FEL

10. Field and Pool, or Exploratory
UNDESIGNATED

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 & 990? FEL 330? FNL & 990? FEL 230? FNL & 990? FEL

Accepted for record - NMOCD

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

Electronic Submission #338136 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 (16PP1067SE)

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

mustafa Hague

(BLM Approver Not Specified)

Title

PETROLEUM ENGINEER

Date 06/02/2016

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 **

6/20/16
PS

DISTRICT I
1625 N. French Dr., Hobbs, NM 88240
Phone: (575) 393-6161 Fax: (575) 393-6720
DISTRICT II
811 S. First St., Artesia, NM 88210
Phone: (575) 748-1263 Fax: (575) 748-9720
DISTRICT III
1000 Rio Brazos Rd., Aztec, NM 87410
Phone: (505) 334-6178 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 30-015-43585	Pool Code 0897	Pool Name UNDESIGNATED WOLFCAMP
Property Code 39386	Property Name EAST PECOS FEDERAL COM 22	Well Number 13H
OGRID No. 246289	Operator Name RKI EXPLORATION & PRODUCTION	Elevation 2882

RECEIVED

Surface Location

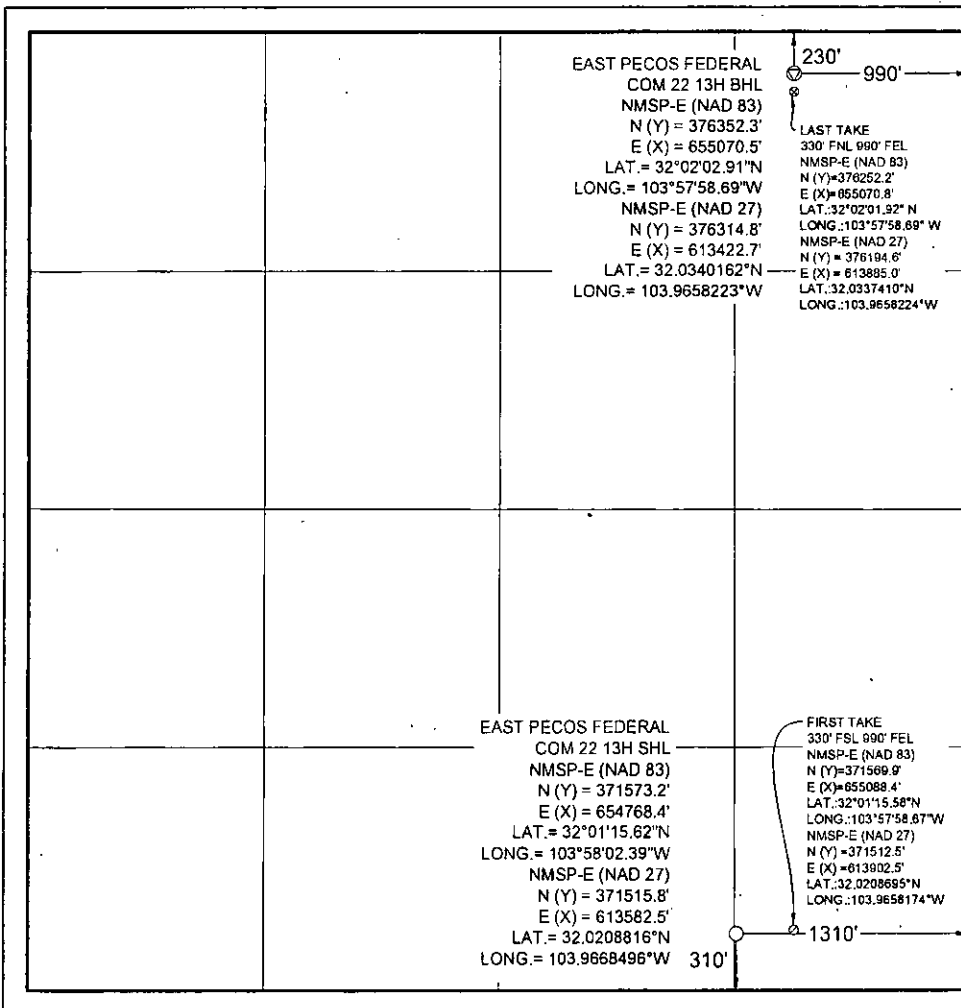
UL or lot no.	Section	Township	Range	Lot Idn	Feet from the	North/South line	Feet from the	East/West line	County
P	22	26S	29E		310	S	1310	E	EDDY

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
B	22	26S	29E		230	N	990	E	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.



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.

Signature: *Heather Brehm* Date: 05.02.16

Print Name: Heather Brehm

E-mail Address: heather.brehm@wpenergy.com

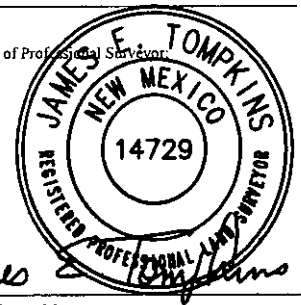
SURVEYORS CERTIFICATION

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



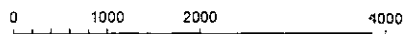
Job No.: WTC51102

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>



GRAPHIC SCALE 1" = 2000'

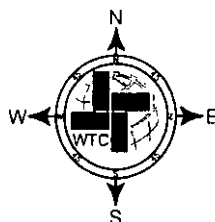
SECTION 22, T 26S, R 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL 22-13H



DRIVING DIRECTIONS:

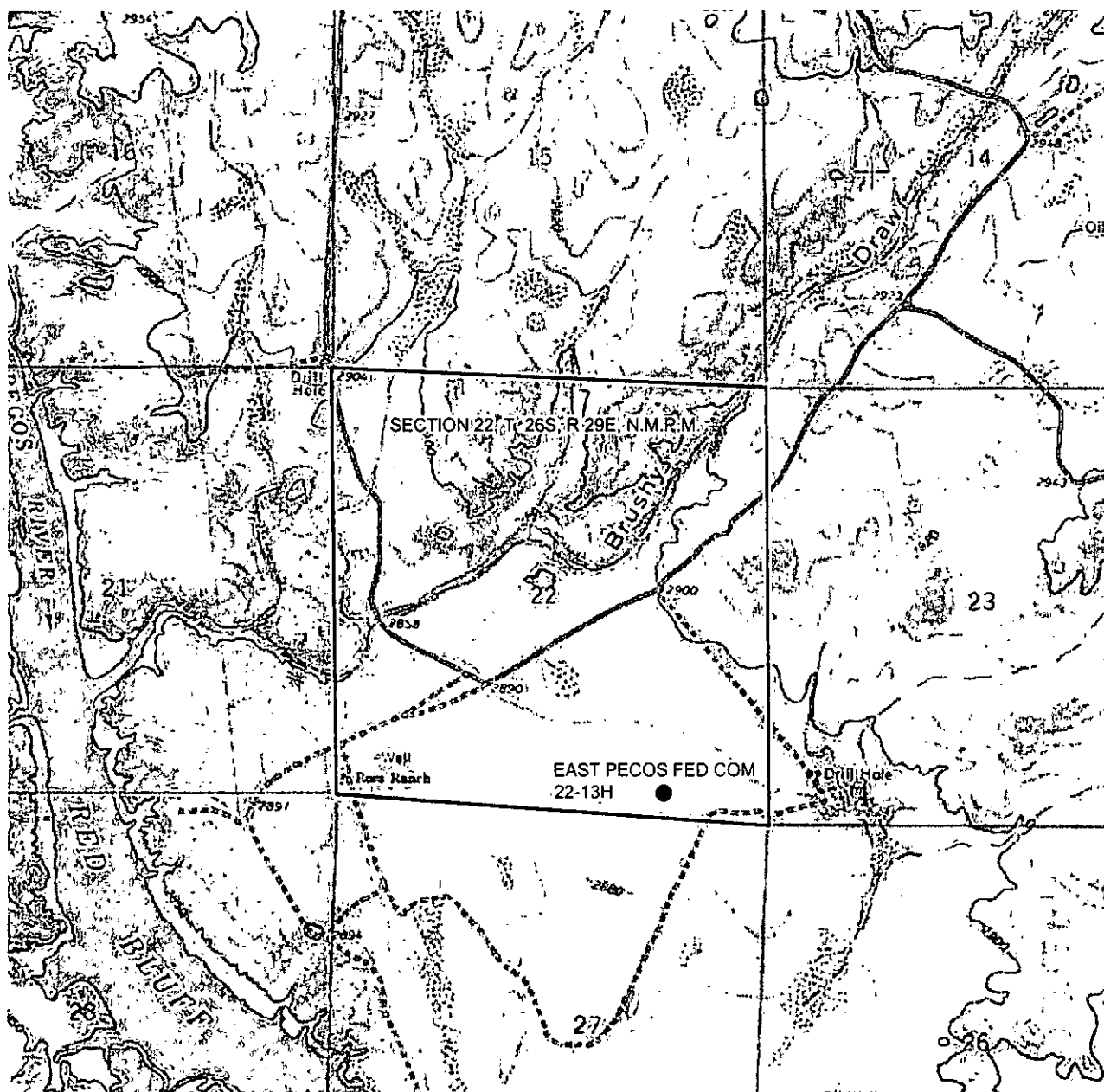
FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y", STAY RIGHT. GO 0.3 MILE IN SOUTHEASTERLY DIRECTON TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.



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



LOCATION VERIFICATION MAP



0 1000 2000 4000

GRAPHIC SCALE 1" = 2000'

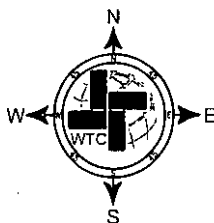
SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL COM 22-13H



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 SOUTHEASTERLY DIRECTION TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.

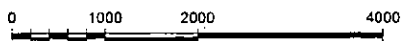
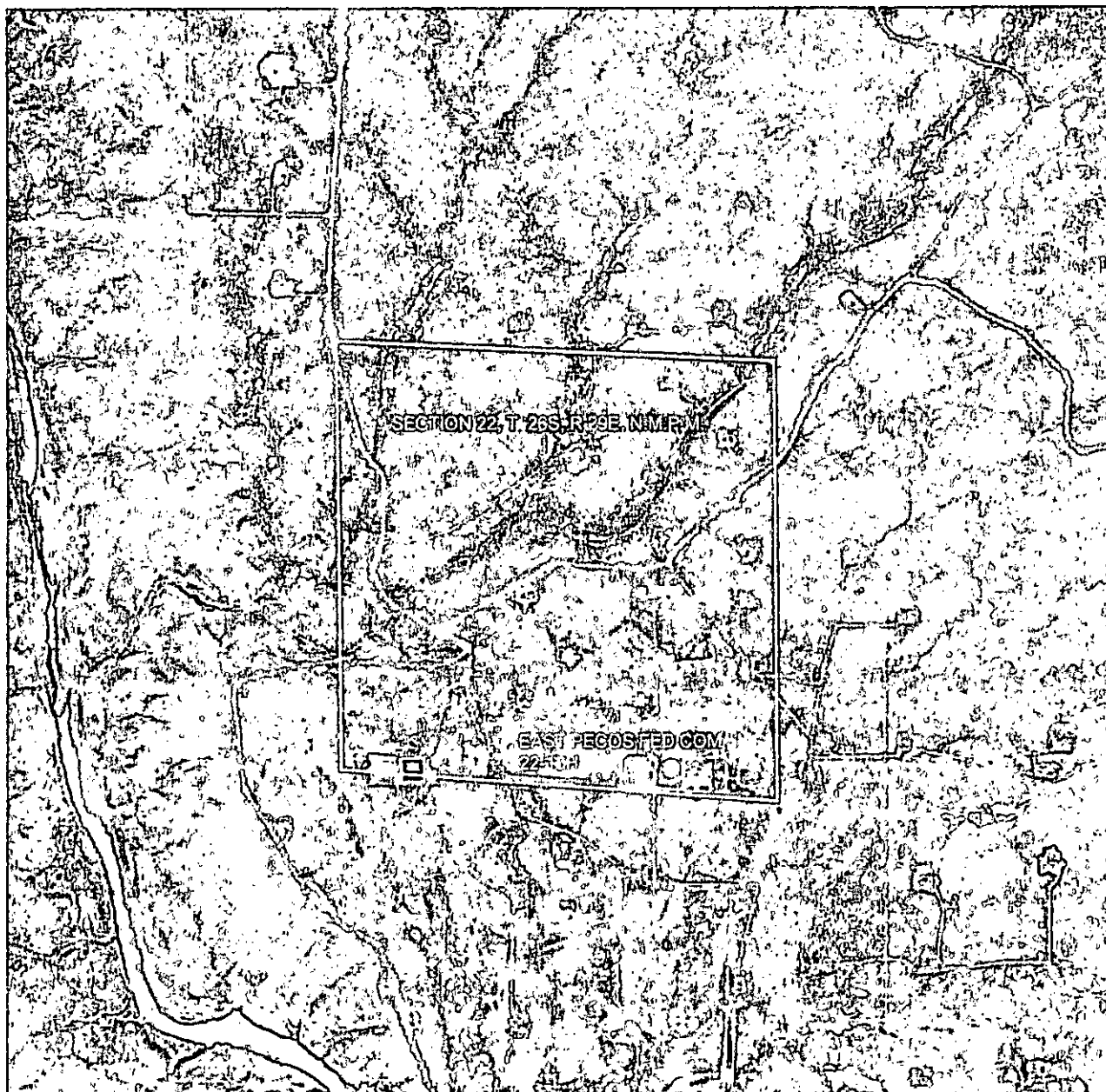


W T C, INC.
405 S.W. 1st Street
Andrews, TX 79714
(432) 523-2181



JOB No.: WTC51102

AERIAL MAP



GRAPHIC SCALE 1" = 2000'

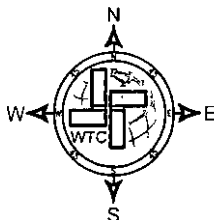
SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL COM 22-13H



DRIVING DIRECTIONS:

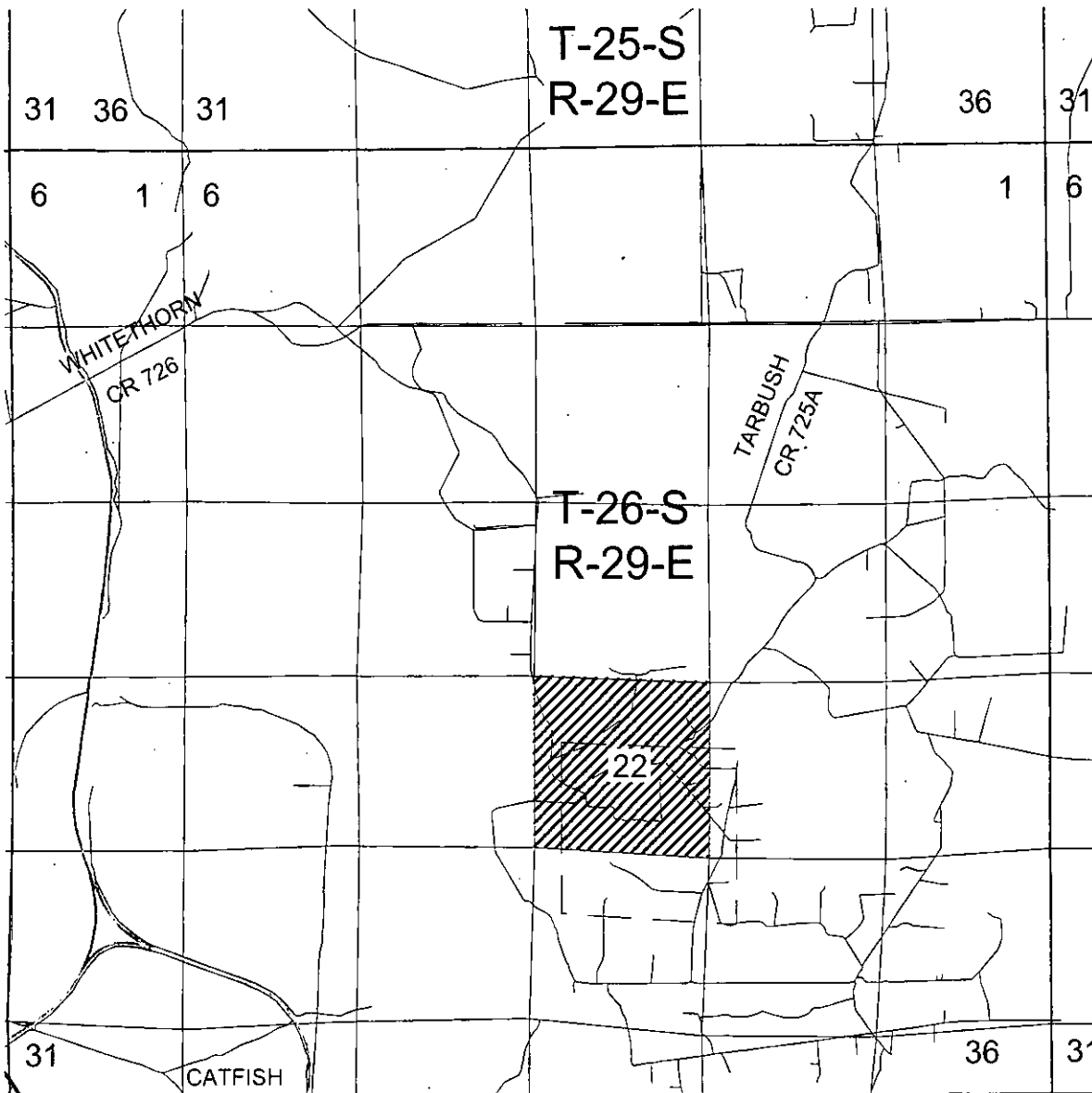
FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/ NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y", STAY RIGHT. GO 0.3 MILE IN SOUTHEASTERLY DIRECTON TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.



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



VICINITY MAP



GRAPHIC SCALE 1" = 1 MILE

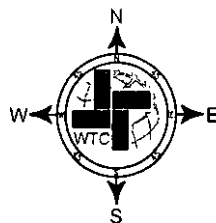
SECTION 22, T. 26S, R. 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL COM 22-13H



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 SOUTHEASTERLY DIRECTION TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.



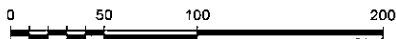
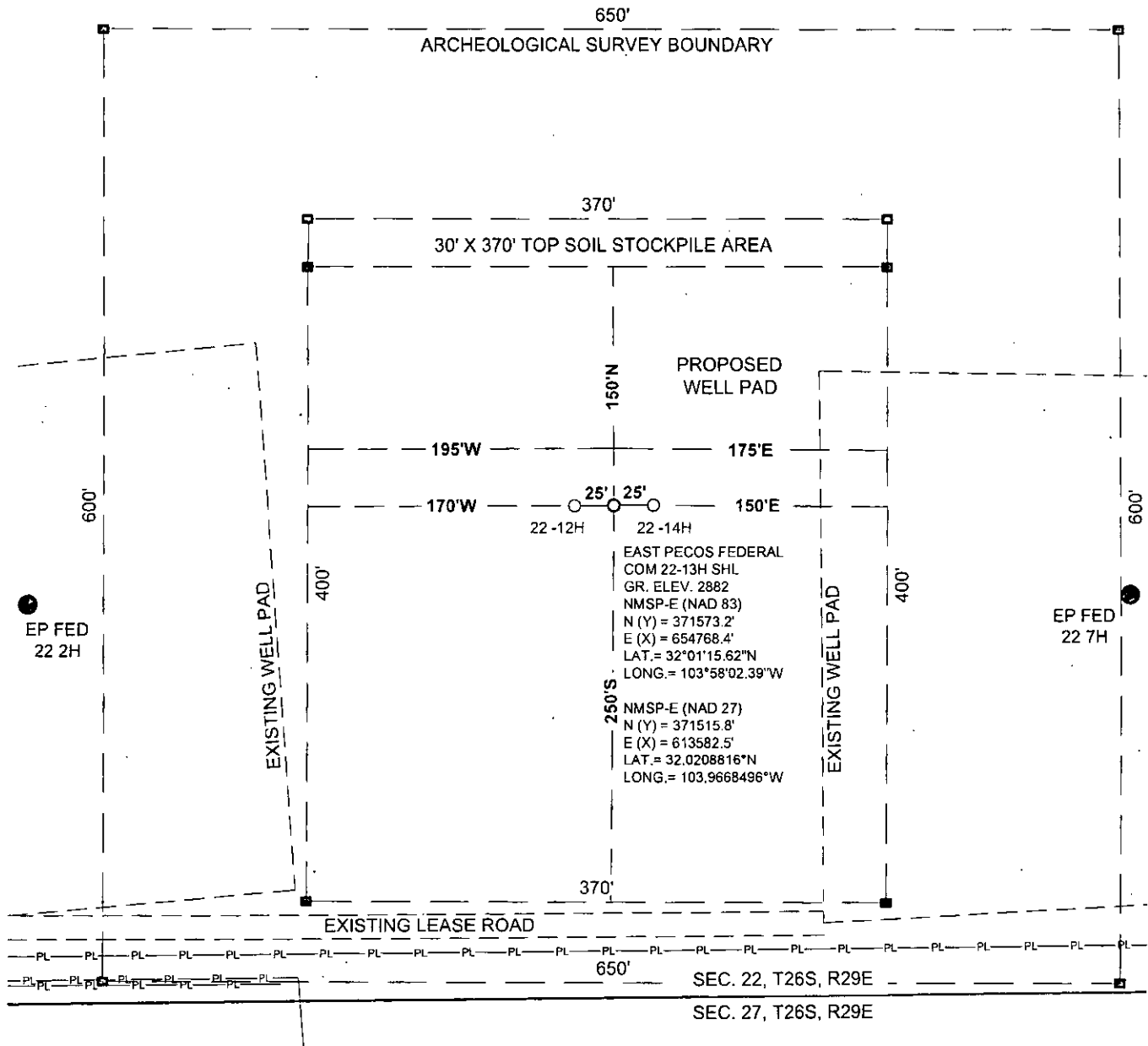
WTC, INC.

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



JOB No.: WTC51102

SITE LOCATION



GRAPHIC SCALE 1" = 100'

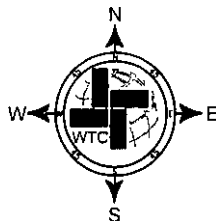
SECTION 22, T 26S, R 29E, N.M.P.M.

COUNTY: EDDY STATE: NM

DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL COM 22-13H



DRIVING DIRECTIONS:

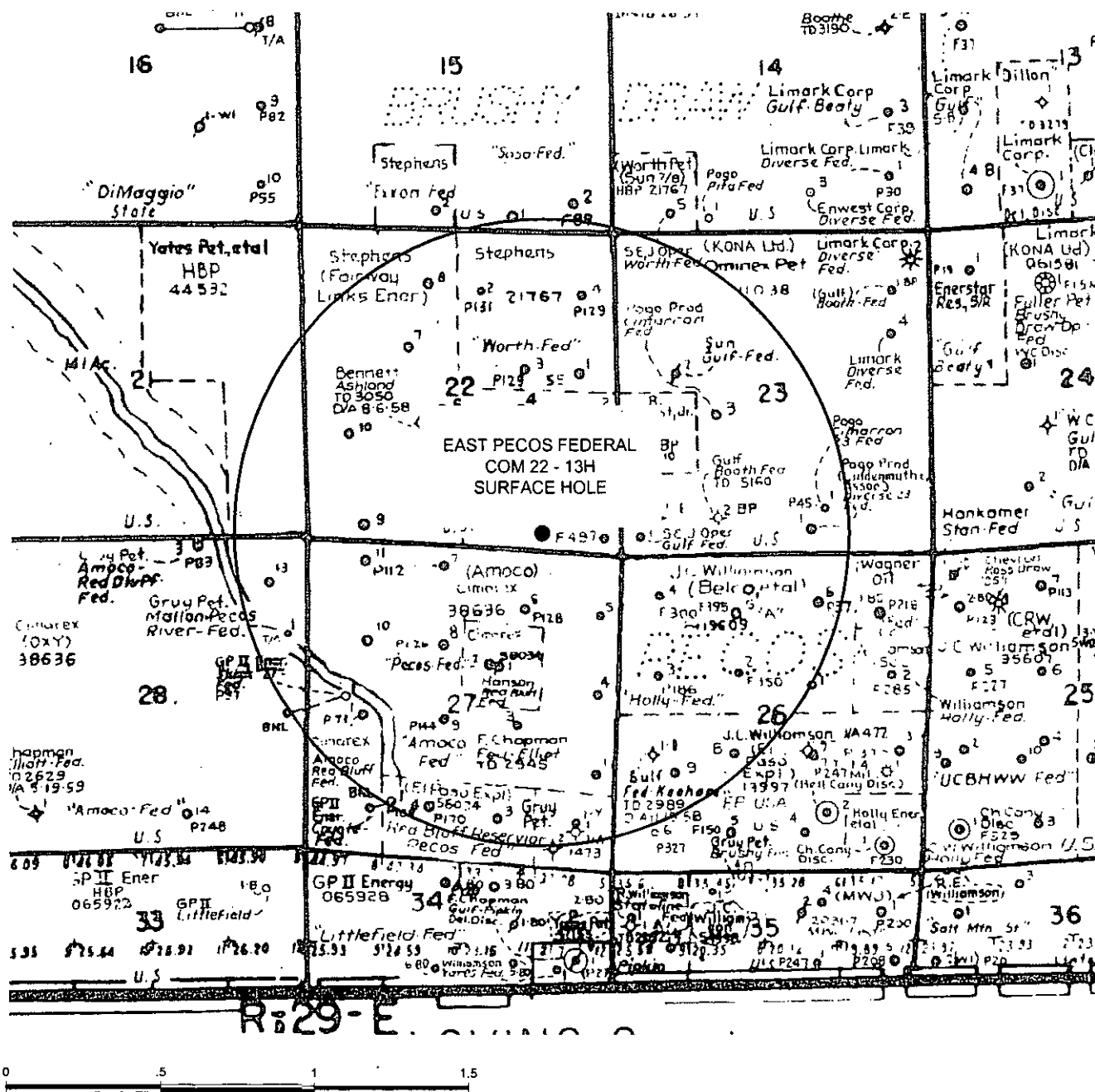
FROM THE INTERSECTION OF STATE HIGHWAY 285 AND LONGHORN COUNTY ROAD 725. GO EAST/NORTHEAST ON LONGHORN COUNTY ROAD 725 FOR 6.7 MILES TO A "Y", STAY RIGHT. GO 0.3 MILE IN SOUTHEASTERLY DIRECTON TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.



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



SURFACE HOLE LOCATION



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

COUNTY: EDDY STATE: NM

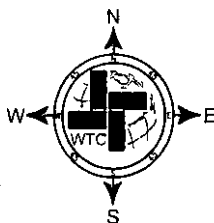
DESCRIPTION: 310' FSL & 1310' FEL

OPERATOR: RKI EXPLORATION & PRODUCTION

WELL NAME: EAST PECOS FEDERAL COM 22-13H SHL

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 SOUTHEASTERLY DIRECTION TO A LEASE ROAD LEFT. GO EAST ON LEASE ROAD 0.3 MILE. LOCATION FLAG IS 264 FEET NORTH.



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



JOB No.: WTC51102

JOB No.: WTC51102

RKI Exploration & Production, LLC
Drilling Program

Well Location East Pecos Fed 22-13H
Surface: 310 FSL 1,310 FEL Sec. 22-26S-29E
Bottom Hole: 230 FNL 990 FEL Sec. 22-26S-29E

County Eddy
State New Mexico

- 1) The elevation of the unprepared ground is 25 KB 2,882 feet above sea level.
2,907
2) A rotary rig will be utilized to drill the well to 14,561 feet and run casing.
This equipment will then be rigged down and the well will be completed with a workover rig
3) Proposed depth is 14,561 feet measured depth

4) Estimated tops:

	MD	TVD	Thickness	Fluid
Rustler	800	800		Freshwater
Salado	1,100	1,100		
Base Lamar Lime	2,856	2,856		
Delaware Top	3,001	3,000		Oil 8HP
Cherry Canyon Sand	3,929	3,928		Oil 1,728 psi
Topper Green				Oil
Kingrea	5,630	5,528		Oil
Bone Spring Lime	6,640	6,638		Oil 2,921 psi
Bone Spring 1st SS	7,545	7,543		Oil
Bone Spring 2nd SS	8,356	8,354		Oil 3,676 psi
Bone Spring 3rd SS	9,402	9,400		Oil 4,136 psi
KOP	9,398	9,396		Oil 4,134 psi
Wolfcamp	9,767	9,740		Oil 4,286 psi
Wolfcamp Target Top	10,398	10,040		Oil 4,418 psi
Landing Point	10,398	10,040		4,418 psi
				- psi
Total Depth	14,561	10,040		230 Degrees F
Lateral Length	4,163 MD			

*Note: All mineral resources encountered will be protected by running casing and raising cement across all encountered resources

5) Casing program:

Hole Size	Top	Bottom	OD Csg	Weight	Grade	Connection	Burst	Pressure Max	Burst SF
17 1/2"	0	1,000	13 3/8"	54.5	J-55	STC	2730	468	5.83
12 1/4"	0	6,640	9 5/8"	40	HCL-80	LTC	5750	3453	1.67
8 3/4"	0	14,561	5 1/2"	20	P-110	BTC	12630	10000	1.26

*Burst SF = Burst / Pmax

Hole Size	Top	Bottom	OD Csg	Weight	Grade	Connection	Collapse	Mud Weight	Collapse SF
17 1/2"	0	1,000	13 3/8"	54.5	J-55	STC	1580	9.0	3.38
12 1/4"	0	6,640	9 5/8"	40	HCL-80	LTC	4230	10.0	1.23
8 3/4"	0	14,561	5 1/2"	20	P-110	BTC	12100	11.5	1.39

*Collapse SF = [Collapse/(mw x 0.052 x Depth)]

Hole Size	Top	Bottom	OD Csg	Weight	Grade	Connection	Tension	Tension Load	Tension SF
17 1/2"	0	1,000	13 3/8"	54.5	J-55	STC	420000	54500	7.71
12 1/4"	0	6,640	9 5/8"	40	HCL-80	LTC	936000	265600	3.52
8 3/4"	0	14,561	5 1/2"	20	P-110	BTC	641000	291220	2.20

*All casing load assumptions are based on Air Wt. Burst design assumes Max Frac Pressure (10K), & Collapse design assumes evacuated & max Mud Weight during interval.

Minimum Design Standards

Collapse	1.1
Burst	1
Tension	1.9

All casing will be new

Casing design subject to revision based on geologic conditions encountered

Cement program:

6) Surface 17 1/2" hole
Pipe OD 13 3/8"
Setting Depth 1,000 ft
Annular Volume 0.6947 cf/ft
Tail 200
Shoe joint 36.5
Excess 1 100 %
383 ft

Lead 642 sx 1.75 cf/sk 13.5 ppg 9.13 gal/sk
Tail 200 sx 1.33 cf/sk 14.8 ppg 6.32 gal/sk

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
3 centralizers on bottom 3 jts 1 per jt, then 1 every other jt

Intermediate 12 1/4" hole
Pipe OD 9 5/8"
Setting Depth 6,640 ft
Annular Volume 0.3132 cf/ft 0.323 cf/ft
DV Tool 5,500 ft
Excess 1st Stage 0.6 60 %
2nd Stage 1.6 160 %

Stage 1:
Lead 386 sx 1.48 cf/sk 13 ppg 7.609 gal/sk
Tail 175 sx 1.33 cf/sk 14.8 ppg 6.331 gal/sk

Lead: PVL + 1.3% PF44 + 5% PF174 + .5% PF606 + .4% PF13 + .1% PF153 + .4 pps PF45
Tail: "C" + 2% PF13
Top of cement: SURFACE
1 per joint bottom 3 joints, then 1 every 3th jt

Stage 2:
Lead 1308 sx 2.87 cf/sk 11.6 ppg 16.793 gal/sk
Tail 175 sx 1.33 cf/sk 14.8 ppg 6.331 gal/sk

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
1 per joint bottom 3 joints, then 1 every 3th jt

Production 8 3/4" hole
Pipe OD (in OH) 5 1/2"
Setting Depth 14,561 ft
Annular Volume 0.2526 cf/ft 0.2526 cf/ft
Excess 0.35 35 %

Lead 660 sx 1.47 cf/sk 13 ppg gal/sk
Tail 932 sx 1.89 cf/sk 13 ppg 9.632 gal/sk

Lead: PVL + 1.3% PF44 + 5% PF174 + .5% PF606 + .3% PF813 + .1% PF153 + 4pps PF45
Tail: AcidSolid PVL + 5% PF174 + .7% PF606 + .2% PF153 + .5% PF13 + 30% PF151 + .4 pps PF47
Top of cement: 6,340 ft
1 per joint bottom 3 joints, then every 3rd joint to top of cement

*NOTE: A cement bond log will be ran across 9 5/8" Intermediate casing

7) Pressure control equipment:

The blowout preventer equipment will be 5,000 psi rated as shown in the attached BOP diagram and consist of the following

- Annular preventer
- Pipe rams
- Blind rams
- Pipe rams
- Drilling spool or blowout preventer with 2 side outlets (choke side shall be a 3" minimum diameter, kill side shall be at least 2" diameter)
- Choke line shall be 3" minimum diameter
- 2 choke line valves, 3" minimum diameter
- 2 chokes with 1 remotely controlled from the rig floor
- Kill line, 2" minimum diameter
- 2 kill line valves and a check valve, 2" minimum diameter
- Upper and lower kelly cock valves with handles readily available
- Safety valves and subs to fit all drill string connections in use shall be readily available
- Inside BOP or float available
- Pressure gauge on choke manifold
- All BOPs subjected to pressure shall be flanged, welded, or clamped
- Fill-up line above uppermost preventer

A 13 3/8" SOW x 13 5/8" 5M multi-bowl casing head will be installed and utilized until Total Depth is reached.

The 9 5/8" casing will be landed in the head on a casing mandrel, and the stack will not be broken until total depth has been reached. Before drilling out the 9 5/8" casing will be tested to .22 psi/ft of casing setting depth or 1,500 psi whichever is greater, but not exceeding 70% of the burst rating of the pipe.

After drilling approximately 10 feet of new formation an EMW test of 11.0 ppg will be performed.

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.

8) Mud program:

Top	Bottom	Mud Wt.	Vis	PV	YP	Fluid Loss	Type System
0	1,000	8.3 to 8.5	28 to 30	1 - 6	1 - 6	NC	Fresh Water ND
1,000	6,640	9.8 to 10	28 to 30	1 - 10	1 - 12	NC	Brine
6,640	9,398	8.8 to 9.3	35 to 40	8 - 10	10 - 12	NC	Cut Brine
9,398	14,561	9.3 to 10.5	45 to 55	8 - 12	6 - 10	10 to 15	Cut Brine

*Enough Barite will be stored on location to weight up mud system to an 11.5 ppg mud weight if needed (2751 sx from 9.3 ppg to 11.5 ppg - 2000 bbl system). Formula: Barite Required (lbs) = $[(35.05 \times (Wf - Wi)) / (35.05 - Wf)] \times \text{Mud Volume (gals)}$

*Pason PVT equipment will monitor all pit levels at all times, in the event an influx occurred

9) Logging, coring, and testing program:

No drill stem test or cores are planned

Neutron/Density, Resistivity, Gamma Ray, Caliper will be run at Pilot Hole Total Depth

Neutron, Gamma Ray, Caliper will be run from TD to surface

10) Potential hazards:

No H2S is known to exist in the area.

Lost circulation can occur, lost circulation material will be readily available if needed

11) Anticipated start date ASAP

Duration 35 days

RKI Exploration & Production, LLC
Completion Procedure

Well Location: East Pecos Fed 22-13H
Surface: 310 FSL 1,310 FEL Sec. 22-26S-29E
Bottom Hole: 230 FNL 990 FEL Sec. 22-26S-29E

County: Eddy
State: New Mexico

Hole Size	Top	Bottom	OD Csg	Wt/Grade	Connection	Collapse Design Factor	Burst Design Factor	Tension Design Factor
17 1/2"		0	1000 13 3/8"		54.5 J-55		3.38	5.83
12 1/4"		0	6640 9 5/8"		40 HCL-80		1.23	1.67
8 3/4"		0	14561 5 1/2"		20 P-110		1.39	1.26

TD 14,961 ft MD 10,040 ft TVD

1) MIRU work over rig and NU BOP. Run CBL/GR log to confirm TOC

2) Fracture stimulate in 10 to 15 stages:

2500 gal				15% HCl
25000 gal				Linear 25# gel
30000 gal	0.5 ppg		15000 100 mesh	Linear 25# gel
20000 gal				Lightning 20
20000 gal	0.5 ppg		10000 40/70 White Sand	Lightning 20
30000 gal	1 ppg		13000 40/70 White Sand	Lightning 20
20000 gal	1.5 ppg		37500 40/70 White Sand	Lightning 20
20000 gal	2 ppg		50000 40/70 White Sand	Lightning 20
25000 gal	2.5 ppg		95500 40/70 White Sand	Lightning 20
30000 gal	3 ppg		95500 40/70 White Sand	Lightning 20
15000 gal	2 ppg		95500 40/70 CRC Sand	Lightning 20
Flush	237500 gal total		250000 lb total	Treated Water

Repeat for remaining stages

3) Flow back and test

4) THH and drill out frac plugs or sleeves

5) Run production equipment and place well on production

6) Stimulation Fluid: See attached chemical sheet

Surface treating pressure 6500 psi
Max injection pressure 8500 psi
Anticipated frac height 75 ft
Anticipated frac length 500 ft
Disposal
Disposal