

OWST

For KCC Use: 8-23-2010  
Effective Date: 3  
District # 3  
SGA?  Yes  No

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form C-1  
March 2010  
Form must be Typed  
Form must be Signed  
All blanks must be Filled

NOTICE OF INTENT TO DRILL

Must be approved by KCC five (5) days prior to commencing well  
Form KSONA-1, Certification of Compliance with the Kansas Surface Owner Notification Act, MUST be submitted with this form.

Expected Spud Date: 09 01 2010  
month day year

OPERATOR: License# 34027  
Name: CEP Mid-Continent LLC  
Address 1: 15 West Sixth Street, Suite 1100  
Address 2:  
City: Tulsa State: OK Zip: 74119 + 5405  
Contact Person: Rodney Tate, D&C Engineer  
Phone: 918-877-2912, ext. 306

CONTRACTOR: License# 33832  
Name: Pense Bros. Drilling Co., Inc. / Scientific Drilling

Spot Description:  
SE SW Sec. 6 Twp. 33 S. R. 17  E  W  
(0/0/0/0) 336 feet from  N /  S Line of Section  
4,377 feet from  E /  W Line of Section

Is SECTION:  Regular  Irregular?

(Note: Locate well on the Section Plat on reverse side)

County: Montgomery  
Lease Name: KNISLEY Well #: 6-8X

Field Name: Cherokee Basin Coal Area

Is this a Prorated / Spaced Field?  Yes  No

Target Formation(s): Riverton

Nearest Lease or unit boundary line (in footage): 336'

Ground Surface Elevation: 802.4 feet MSL

Water well within one-quarter mile:  Yes  No

Public water supply well within one mile:  Yes  No

Depth to bottom of fresh water: 100'

Depth to bottom of usable water: 150'

Surface Pipe by Alternate:  I  II

Length of Surface Pipe Planned to be set: 175'

Length of Conductor Pipe (if any): None

Projected Total Depth: 2,862' MD

Formation at Total Depth: Riverton

Water Source for Drilling Operations:  
 Well  Farm Pond  Other: City

DWR Permit #: (Note: Apply for Permit with DWR)

Will Cores be taken?  Yes  No

If Yes, proposed zone:

Well Drilled For: Well Class: Type Equipment:

- |   |                                   |   |  |
|---|-----------------------------------|---|--|
| <input type="checkbox"/> Oil  | <input type="checkbox"/> Enh Rec  | <input checked="" type="checkbox"/> Infield | <input checked="" type="checkbox"/> Mud Rotary |
| <input checked="" type="checkbox"/> Gas                                 | <input type="checkbox"/> Storage  | <input type="checkbox"/> Pool Ext.          | <input type="checkbox"/> Air Rotary            |
| <input type="checkbox"/> Seismic ; _____ # of Holes                     | <input type="checkbox"/> Disposal | <input type="checkbox"/> Wildcat            | <input type="checkbox"/> Cable                 |
| <input type="checkbox"/> Other: <u>DRILL RIVERTON SIDETRACK LATERAL</u> | <input type="checkbox"/> Other    |   |  |

If OWWO: old well information as follows:

Operator:

Well Name:

Original Completion Date: Original Total Depth: ✓

X

Directional, Deviated or Horizontal wellbore?  Yes  No

If Yes, true vertical depth: 976' TVD (RIVERTON LATERAL)

Bottom Hole Location: 1,020' FSL & 1,216' FEL in SE/4 of Sec. 6, T33S, R17E

KCC DKT #: 11-cons-019-CHQR

AFFIDAVIT

The undersigned hereby affirms that the drilling, completion and eventual plugging of this well will comply with K.S.A. 55 et. seq.

It is agreed that the following minimum requirements will be met:

1. Notify the appropriate district office **prior** to spudding of well;
2. A copy of the approved notice of intent to drill **shall be** posted on each drilling rig;
3. The minimum amount of surface pipe as specified below **shall be set** by circulating cement to the top; in all cases surface pipe **shall be set** through all unconsolidated materials plus a minimum of 20 feet into the underlying formation.
4. If the well is dry hole, an agreement between the operator and the district office on plug length and placement is necessary **prior to plugging**;
5. The appropriate district office will be notified before well is either plugged or production casing is cemented in;
6. If an ALTERNATE II COMPLETION, production pipe shall be cemented from below any usable water to surface within **120 DAYS** of spud date. Or pursuant to Appendix "B" - Eastern Kansas surface casing order #133,891-C, which applies to the KCC District 3 area, alternate II cementing must be completed within 30 days of the spud date or the well shall be plugged. **In all cases, NOTIFY district office** prior to any cementing.

I hereby certify that the statements made herein are true and to the best of my knowledge and belief.

Date: 07-20-10 Signature of Operator or Agent: [Signature] Title: VP of Operations

For KCC Use ONLY

API # 15 - 125-31947-01-00

Conductor pipe required None feet

Minimum surface pipe required 20 feet per ALT.  I  II

Approved by: [Signature] 8-18-2010

This authorization expires: 8-18-2011  
(This authorization void if drilling not started within 12 months of approval date.)

Spud date: \_\_\_\_\_ Agent: \_\_\_\_\_

Remember to:

- File Certification of Compliance with the Kansas Surface Owner Notification Act (KSONA-1) with Intent to Drill;
- File Drill Pit Application (form CDP-1) with Intent to Drill;
- File Completion Form ACO-1 within 120 days of spud date;
- File acreage attribution plat according to field proration orders;
- Notify appropriate district office 48 hours prior to workover or re-entry;
- Submit plugging report (CP-4) after plugging is completed (within 60 days);
- Obtain written approval before disposing or injecting salt water.
- If well will not be drilled or permit has expired (See: authorized expiration date) please check the box below and return to the address below.

Well will not be drilled or Permit Expired Date: \_\_\_\_\_  
Signature of Operator or Agent:

Mail to: KCC - Conservation Division,  
130 S. Market - Room 2078, Wichita, Kansas 67202

6  
33  
17  
 E  
 W

For KCC Use ONLY

API # 15 - 125-31947-01-00

**IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW**

In all cases, please fully complete this side of the form. Include items 1 through 5 at the bottom of this page.

Operator: CEP Mid-Continent LLC  
 Lease: KNISLEY  
 Well Number: 6-8X  
 Field: Cherokee Basin Coal Area  
 Number of Acres attributable to well: 627.5  
 QTR/QTR/QTR/QTR of acreage: - - SE - SW

Location of Well: County: Montgomery  
 336 feet from  N /  S Line of Section  
 4,377 feet from  E /  W Line of Section  
 Sec. 6 Twp. 33 S. R. 17  E  W

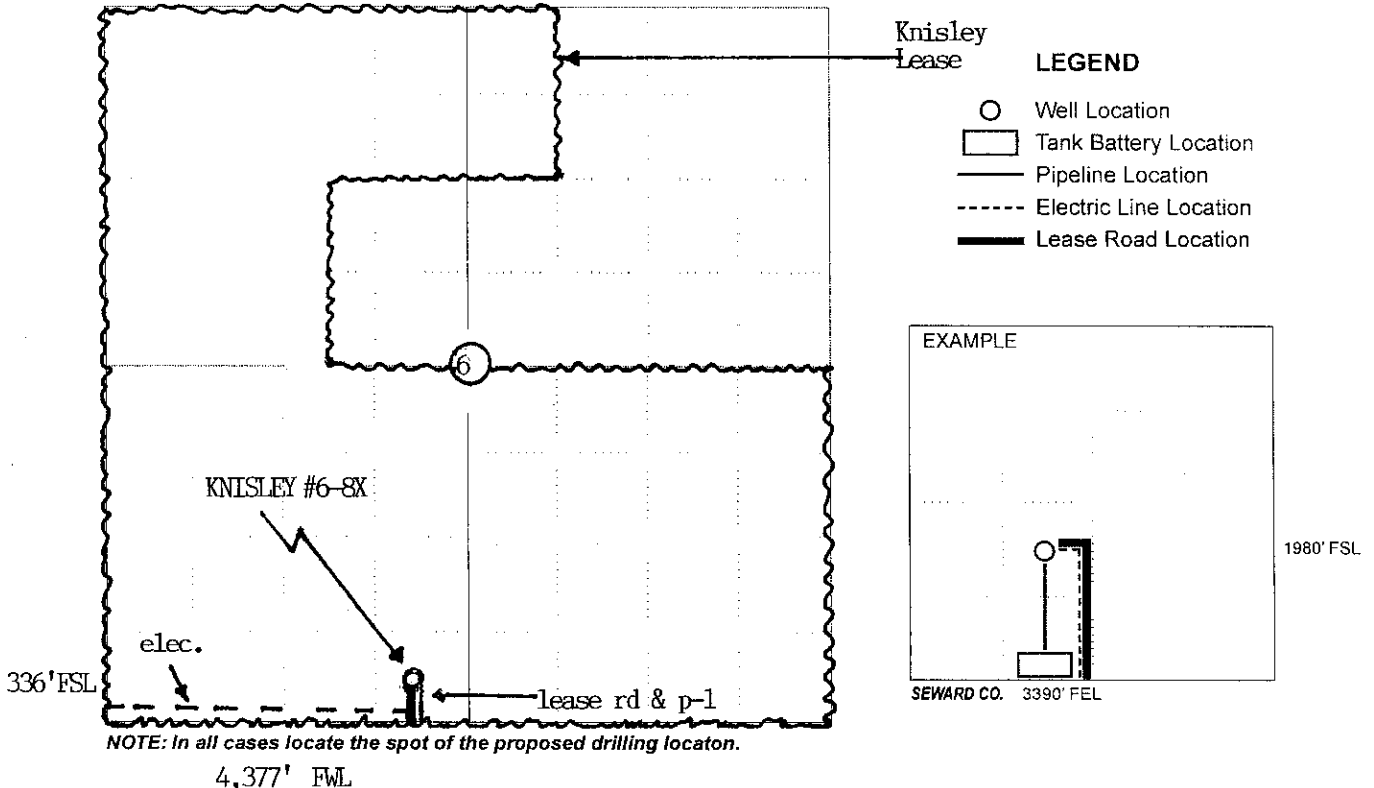
Is Section:  Regular or  Irregular

If Section is Irregular, locate well from nearest corner boundary.

Section corner used:  NE  NW  SE  SW

**PLAT**

Show location of the well. Show footage to the nearest lease or unit boundary line. Show the predicted locations of lease roads, tank batteries, pipelines and electrical lines, as required by the Kansas Surface Owner Notice Act (House Bill 2032). You may attach a separate plat if desired.



NOTE: In all cases locate the spot of the proposed drilling location.

In plotting the proposed location of the well, you must show:

1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
3. The distance to the nearest lease or unit boundary line (in footage).
4. If proposed location is located within a prorated or spaced field a certificate of acreage attribution plat must be attached: (CO-7 for oil wells; CG-8 for gas wells).
5. The predicted locations of lease roads, tank batteries, pipelines, and electrical lines.

**KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION  
APPLICATION FOR SURFACE PIT**

Form CDP-1  
May 2010  
Form must be Typed

*Submit in Duplicate*

Operator Name: <b>CEP Mid-Continent LLC</b>		License Number: <b>34027</b>
Operator Address: <b>15 West Sixth Street, Suite 1100</b>		<b>Tulsa OK 74119</b>
Contact Person: <b>Rodney Tate, D&amp;C Engineer</b>		Phone Number: <b>918-877-2912, ext. 306</b>
Lease Name & Well No.: <b>KNISLEY 6-8X</b>		Pit Location (QQQQ): _____ SE _____ SW
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input checked="" type="checkbox"/> Drilling Pit <input type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <small>(If WP Supply API No. or Year Drilled)</small>	Pit is: <input type="checkbox"/> Proposed <input checked="" type="checkbox"/> Existing If Existing, date constructed: <b>5/15/10, closed 5/25/10</b> Pit capacity: <b>1,710</b> (bbls)	Sec. <b>6</b> Twp. <b>33</b> R. <b>17</b> <input checked="" type="checkbox"/> East <input type="checkbox"/> West <b>336</b> Feet from <input type="checkbox"/> North / <input checked="" type="checkbox"/> South Line of Section <b>4,377</b> Feet from <input type="checkbox"/> East / <input checked="" type="checkbox"/> West Line of Section <b>Montgomery</b> County
Is the pit located in a Sensitive Ground Water Area? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		Chloride concentration: _____ mg/l <small>(For Emergency Pits and Settling Pits only)</small>
Is the bottom below ground level? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No	Artificial Liner? <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No	How is the pit lined if a plastic liner is not used? <b>Native clays</b>
Pit dimensions (all but working pits): <u>30</u> Length (feet) <u>40</u> Width (feet) <input type="checkbox"/> N/A: Steel Pits Depth from ground level to deepest point: <u>8</u> (feet) <input type="checkbox"/> No Pit		
If the pit is lined give a brief description of the liner material, thickness and installation procedure. <b>N/A</b>		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring. <b>N/A</b>
Distance to nearest water well within one-mile of pit: <u>N/A 5185</u> feet    Depth of water well <u>50</u> feet		Depth to shallowest fresh water <u>20</u> feet. Source of information: <input type="checkbox"/> measured <input type="checkbox"/> well owner <input type="checkbox"/> electric log <input checked="" type="checkbox"/> KDWR
<b>Emergency, Settling and Burn Pits ONLY:</b> Producing Formation: _____ Number of producing wells on lease: _____ Barrels of fluid produced daily: _____ Does the slope from the tank battery allow all spilled fluids to flow into the pit? <input type="checkbox"/> Yes <input type="checkbox"/> No		<b>Drilling, Workover and Haul-Off Pits ONLY:</b> Type of material utilized in drilling/workover: <u>Fresh water</u> Number of working pits to be utilized: <u>1</u> Abandonment procedure: <u>Air dry &amp; backfill</u> Drill pits must be closed within 365 days of spud date.
I hereby certify that the above statements are true and correct to the best of my knowledge and belief.		
<u>7-20-10</u> Date		<u>[Signature]</u> Signature of Applicant or Agent

15-205-31947-01-00

<b>KCC OFFICE USE ONLY</b>			
Date Received: <u>8-17-10</u>	Permit Number: _____	Permit Date: <u>8-17-10</u>	Lease Inspection: <input type="checkbox"/> Yes <input checked="" type="checkbox"/> No
<input type="checkbox"/> Liner <input type="checkbox"/> Steel Pit <input type="checkbox"/> RFAC <input type="checkbox"/> RFAS			

Mail to: KCC - Conservation Division, 130 S. Market - Room 2078, Wichita, Kansas 67202

15-125-31947-01-00

KANSAS CORPORATION COMMISSION  
OIL & GAS CONSERVATION DIVISION

Form KSONA-1

July 2010

Form Must Be Typed

Form must be Signed

All blanks must be Filled

**CERTIFICATION OF COMPLIANCE WITH THE  
KANSAS SURFACE OWNER NOTIFICATION ACT**

*This form must be submitted with all Forms C-1 (Notice of Intent to Drill); CB-1 (Cathodic Protection Borehole Intent); T-1 (Request for Change of Operator Transfer of Injection or Surface Pit Permit); and CP-1 (Well Plugging Application). Any such form submitted without an accompanying Form KSONA-1 will be returned.*

Select the corresponding form being filed:  C-1 (Intent)  CB-1 (Cathodic Protection Borehole Intent)  T-1 (Transfer)  CP-1 (Plugging Application)

OPERATOR: License # 34027  
Name: CEP Mid-Continent LLC  
Address 1: 15 West Sixth Street, Suite 1100  
Address 2: \_\_\_\_\_  
City: Tulsa State: OK Zip: 74119 + 5405  
Contact Person: Rodney Tate, D&C Engineer  
Phone: ( 918 ) 877-2919 Fax: ( 918 ) 877-2913  
Email Address: Rodney.Tate@cepllc.com

Well Location:  
\_\_\_\_\_ SE SW Sec. 6 Twp. 33 S. R. 17  East  West  
County: Montgomery  
Lease Name: KNISLEY Well #: 6-8X

*If filing a Form T-1 for multiple wells on a lease, enter the legal description of the lease below:*

**Surface Owner Information:**

Name: Carol & Shirley Knisley, Trustees of the Carol & Shirley Knisley Revoc. Living Trust  
Address 1: 5145 CR 4200  
Address 2: \_\_\_\_\_  
City: Cherryvale State: KS Zip: 67335 + \_\_\_\_\_

*When filing a Form T-1 involving multiple surface owners, attach an additional sheet listing all of the information to the left for each surface owner. Surface owner information can be found in the records of the register of deeds for the county, and in the real estate property tax records of the county treasurer.*

*If this form is being submitted with a Form C-1 (Intent) or CB-1 (Cathodic Protection Borehole Intent), you must supply the surface owners and the KCC with a plat showing the predicted locations of lease roads, tank batteries, pipelines, and electrical lines. The locations shown on the plat are preliminary non-binding estimates. The locations may be entered on the Form C-1 plat, Form CB-1 plat, or a separate plat may be submitted.*

**Select one of the following:**

I certify that, pursuant to the Kansas Surface Owner Notice Act (House Bill 2032), I have provided the following to the surface owner(s) of the land upon which the subject well is or will be located: 1) a copy of the Form C-1, Form CB-1, Form T-1, or Form CP-1 that I am filing in connection with this form; 2) if the form being filed is a Form C-1 or Form CB-1, the plat(s) required by this form; and 3) my operator name, address, phone number, fax, and email address.

I have not provided this information to the surface owner(s). I acknowledge that, because I have not provided this information, the KCC will be required to send this information to the surface owner(s). To mitigate the additional cost of the KCC performing this task, I acknowledge that I am being charged a \$30.00 handling fee, payable to the KCC, which is enclosed with this form.

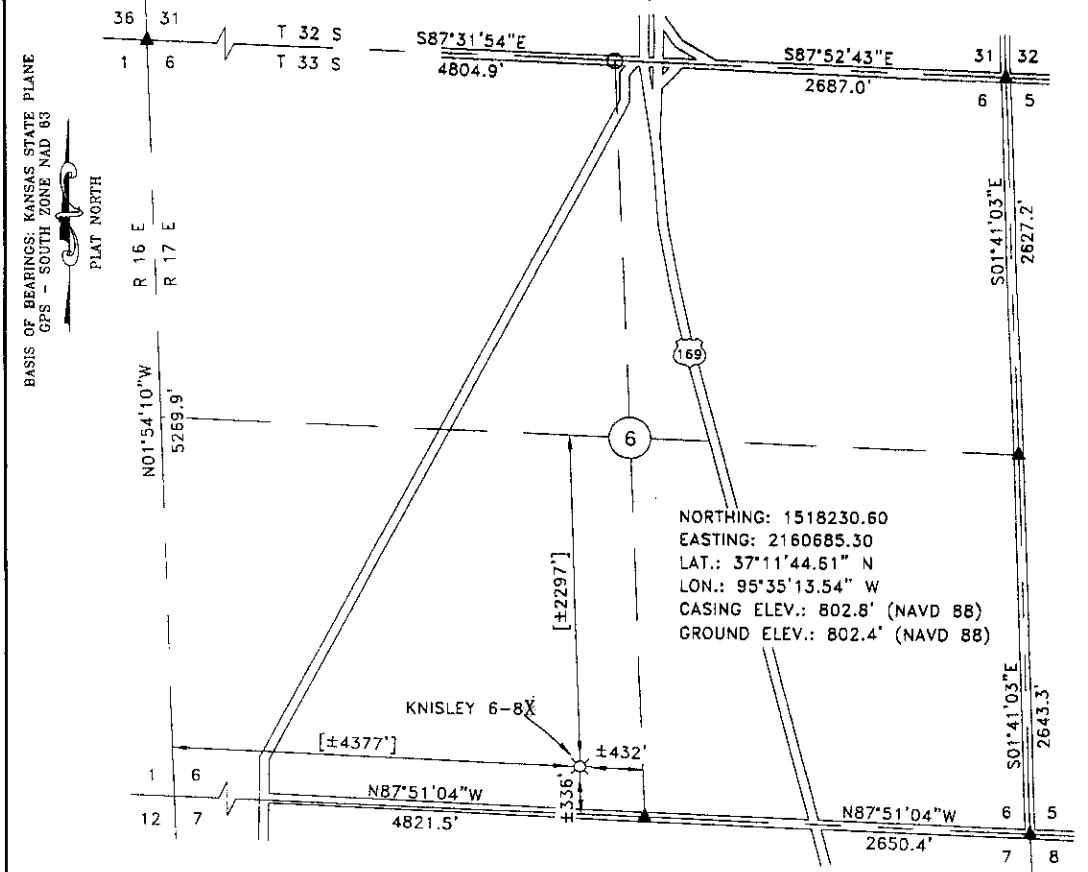
*If choosing the second option, submit payment of the \$30.00 handling fee with this form. If the fee is not received with this form, the KSONA-1 form and the associated Form C-1, Form CB-1, Form T-1, or Form CP-1 will be returned.*

I hereby certify that the statements made herein are true and correct to the best of my knowledge and belief.

Date: 7-20-10 Signature of Operator or Agent: [Signature] Title: VP of Operations

NON-STANDARD, SECTION 6,  
T 33 S - R 17 E, 6TH P.M.,  
MONTGOMERY COUNTY, KANSAS

LEGAL SECTION



SCALE: 1"=1000' DATE SURVEYED: 5/26/10  
 OPERATOR: CONSTELLATION ENERGY  
 LEASE NAME: KNISLEY WELL NO.: 6-8X  
 TOPOGRAPHY & VEGETATION: EXISTING LOCATION

LEGEND

- = FOUND ORIGINAL GLO MONUMENT
- ▲ = FOUND OR SET, AND RECORDED MONUMENT
- = FOUND MONUMENT (UNKNOWN ORIGIN)
- = LOCAL OCCUPATION EVIDENCE

**NOTE:**  
 This map represents an existing well site and does not represent a true boundary survey. It has been created using monumentation shown hereon and local occupation but its accuracy is not guaranteed. Coordinates and elevations have been gathered utilizing RTK GPS equipment and has been post processed utilizing OPUS. Review this plat and notify Gateway Services Group, L.L.C. immediately of any possible discrepancy.

Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO distances and have not been measured.

**Constellation NewEnergy**    CONSTELLATION MID-CONTINENT L.L.C.  
 15 WEST 6TH STREET, SUITE 1100  
 TULSA, OK 74119

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Gateway Services Group  
 PO BOX 980, MEKKER, OK 74805  
 Phone: 405-273-0934  
 Fax: 405-273-0360  
 C.A. NO.: LS-209  
 EXP. DATE: 12-31-2010

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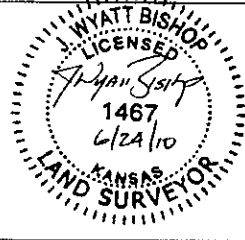
**WELL SITE SURVEY**  
 KNISLEY 6-8X  
 SECTION 6,  
 T 33 S - R 17 E, 6TH P.M.,  
 MONTGOMERY COUNTY, KANSAS

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DRAWN BY: BAL    DATE: 5-26-10    SCALE: 1"=1000'    CH:JWB  
 DWG. No.: 10-0368-001R    APE#:

REV.	DESCRIPTION	DWN.	DATE
1	ADDED BEARINGS AND DISTANCES	BAL	6-24-10

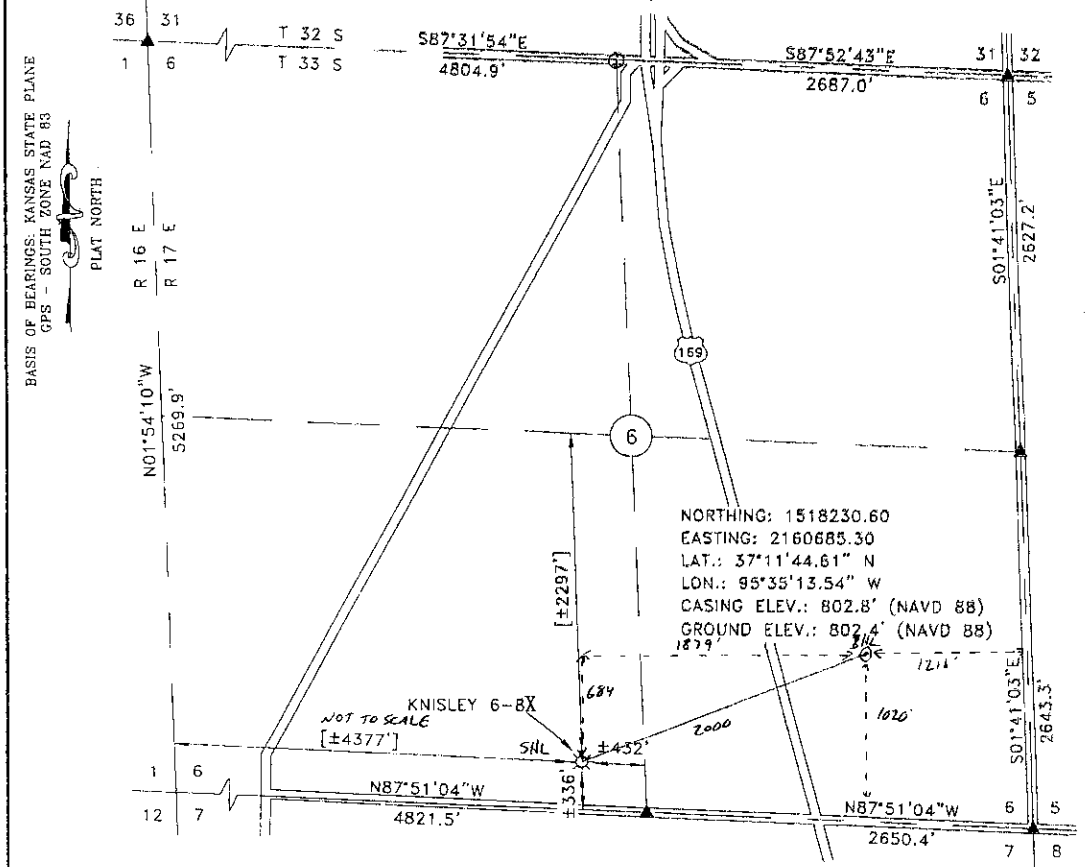
J. WYATT BISHOP    6/24/10    DATE  
 KANSAS L.P.L.S. NO.: 1467



KNISLEY #6-8X

PROPOSED BHL PLAT

NON-STANDARD, SECTION 6,  
T 33 S - R 17 E, 6TH P.M.,  
MONTGOMERY COUNTY, KANSAS



NORTHING: 1518230.60  
EASTING: 2160685.30  
LAT.: 37°11'44.61" N  
LON.: 95°35'13.54" W  
CASING ELEV.: 802.8' (NAVD 88)  
GROUND ELEV.: 802.4' (NAVD 88)

SCALE: 1"=1000' DATE SURVEYED: 5/26/10  
OPERATOR: CONSTELLATION ENERGY  
LEASE NAME: KNISLEY WELL NO.: 6-8X  
TOPOGRAPHY & VEGETATION: EXISTING LOCATION

LEGEND

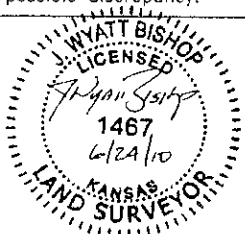
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- ▲ = FOUND OR SET, AND RECORDED MONUMENT
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Distances shown in (parenthesis) are calculated based upon the Quarter Section being 2640 feet, those shown in [brackets] are based on GLO distances and have not been measured.

*J. Wyatt Bishop*  
J. WYATT BISHOP  
KANSAS L.P.L.S. NO.: 1467  
DATE: 6/24/10



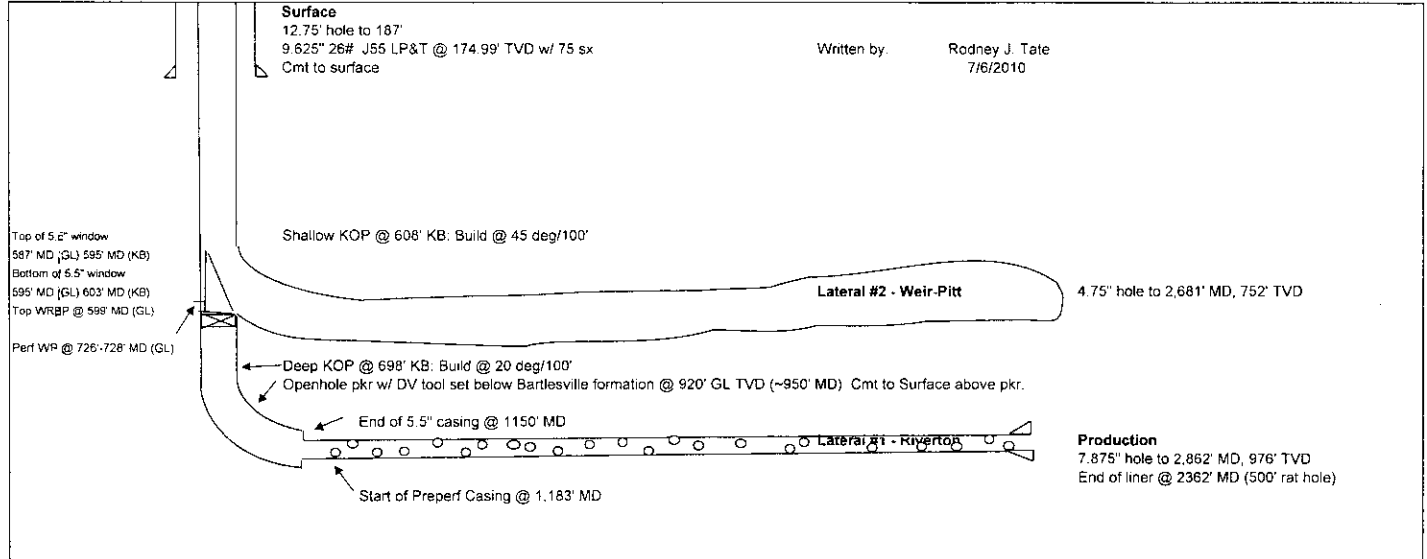
		CONSTELLATION MID-CONTINENT L.L.C. 15 WEST 6TH STREET, SUITE 1100 TULSA, OK 74119	
Gateway Services Group	PO BOX 265 HENNER, OK 74555 Phone: 405-273-0964 Fax: 405-273-0560 C/A. NO. 16-206 EXP. DATE: 12-31-2010		
WELL SITE SURVEY KNISLEY 6-8X SECTION 6, T 33 S - R 17 E, 6TH P.M., MONTGOMERY COUNTY, KANSAS			
DRAWN BY: BAL	DATE: 5-28-10	SCALE: 1"=1000'	CHKD BY:
DWG. No.: 10-0368-001R		APPX:	
REV.	DESCRIPTION	DWN.	DATE
1	ADDED BEARINGS AND DISTANCES	BAL	6-24-10

Proposed BHL Plat: RJF 6/24/10

**Proposed Dual Lateral Knisley 6-8X Wellbore Diagram**

Actual Surface Loc: SW/4 Sec 06 T33S - R17E - Liberty  
 Actual Surface Loc: 336' FSL, 4,377' FWL, ELEV 802.4'  
 Lateral #1 Actual Bottomhole Loc: SE/4 Sec 6 T33S - R17E  
 Lateral #1 Actual Bottomhole Loc, Start of Target: 435' FSL, 2,824' FEL Sec 06  
 Lateral #1 Actual Bottomhole Loc, End of Target: 1,020' FSL, 1,216' FEL Sec 6 Azim 70°  
 Lateral #1 Actual Lateral Length: 1,712'  
 Lateral #1 Vertical Section: 2,000'  
 Lateral #2 Actual Bottomhole Loc: SE/4 Sec 6 T33S - R17E  
 Lateral #2 Actual Bottomhole Loc, Start of Target: 435' FSL, 2,824' FEL Sec 06  
 Lateral #2 Actual Bottomhole Loc, End of Target: 1,020' FSL, 1,216' FEL Sec 6 Azim 70°  
 Lateral #2 Actual Lateral Length: 1,874'  
 Lateral #2 Vertical Section: 2,000'  
 Horizontal Riverton / Sidetrack Weir-Pitt Lateral Coal

	Size	Wt	# Its.	Length	MD	TVD	Inc.
Surface Casing	9.625"	26#	NA	174.99	174.99	175	0
Production Casing	5.5"	10.5#	30	972.00	972.00	932	54.8
Stage Tool	5.5"			2.00	974.00	933	55.2
Ann. Csg. Pkr	5.5"			26.00	1,000.00	947	60.4
Production Casing	5.5"	10.5#	5	150.00	1,150.00	984	90.3
5.5" x 3.5" X-over				1.00	1,151.00	984	90.3
Blank Liner	3.5"	9.3#	1	32.00	1,183.00	984	90.3
Preperf Liner	3.5"	9.3#	36	1,152.00	2,335.00	978	90.3
Tapered liner	3.5"			27.00	2,362.00	976	90.3



Constellation Energy Partners Mid-Continent, LLC  
SW/4 Section 06 T33S – R17E  
Surface Location: 336' FSL, 4,377' FWL

**Objective:**

Drill a horizontal lateral into the Riverton coal. Run 3.5" pre-perforated casing in the lateral along with an external cement packer above the lateral. *Note: ECP needs to be set below Bartlesville formation.* Circulate cement above the ECP to surface. Perforate, stimulate Weir-Pitt coal. Set a WRBP and whipstock and drill a sidetrack lateral into the Weir-Pitt Coal. Leave open hole. Pull whipstock and plug and run tubing, rods and pump and put on production.

***Surface Casing Drilling and kick off procedure:***

- 1.) Drill a 12.75" hole to 175' and cement 9.625" surface casing to surface.
- 2.) Drill a 7.875" hole from surface casing to kick off point of 690' MD (GL elevation) 698' MD KB). TOOH and RDMO. Prepare for kick off.

*NOTE: 6-8 vertical hole driller's log indicated excessive water production while drilling through Bartlesville formation at approximately 860' MD (GL) to 920' MD (GL). This may affect directional drilling program.*

***Riverton Horizontal Drilling Procedure:***

- 1.) MIRU directional drilling rig.
- 4.) TIH with SDI BHA and drill a 7.875" hole, 70° Azimuth at a build rate approximately 20°/100' to an approximate TVD of 985', 1150' MD or at an inclination of 90°. Hold angle until Riverton coal is found. Drill hole with fresh water, and polymer sweeps as needed. TOH with build assembly.
- 5.) TIH with hold assembly. Drill approximately 1,712' of coal. Drill hole with fresh water, and polymer sweeps as needed. Estimated TD is 2,862' MD and 976' TVD. TOH. LD directional tools and DP.
- 6.) PU 3.5" 9.3# pre-perforated casing with turn down collars, tapered perf liner on bottom jt, ECP, 5.5" 15.5# above ECP to surface. Inflate ECP. Open port hole above ECP and cmt to surface. Release drilling rig.

*NOTE: Second phase of completion requires information obtained in Riverton drilling phase. Second phase is written in draft form until after Riverton drilling is completed, casing and a CBL is run.*



**Weir-Pitt Whipstock Setting Procedure:**

*NOTE: Prior to whipstock setting, drill through openhole packer and run a CBL to inspect cement column quality and identify casing collars for whipstock set depth. Weir-Pitt also will need to be perforated and stimulated.*

- 1) MIRU workover rig.
- 2) RU wireline unit and set top of 5.5" WRBP @ 599' MD. Use CCL/GR to correlate depth to ground level. RDMO wireline unit.

NOTE: Ensure window will not be over a collar by measuring length from WRBP to window.  
Nearest collars: ', ', ', WINDOW, ', ', '.

- 3) Load hole, pressure up on casing to ensure WRBP holds pressure and does not leak.
- 4) Pick up 2.875" DP elevators.
- 5) Tally DP & Weatherford/SDI equipment.

NOTE: Ensure there is sufficient weight to set whipstock slips and shear off starter mill bolt. Ensure there is enough DP to reach depth (at least 620' less all subs and BHA components).

- 6) PU 2.875" reg. DP joint, SDI sub, box-box 2.875" bit sub, Weatherford starting mill, whipstock. Use anti-galling thread dope for connections. Use 10,000# shear bolt on whipstock.
- 7) MU 'American Open Hole x H-90' thread crossover sub. SDI sub is AOH thread. HWDP is H-90 thread.
- 8) TIH. PU rest of spiral DP, other DP. Use 1,200 ft-lb torque to make connections.
- 9) MU 'H-90 x AOH crossover' to last joint of HWDP.
- 10) Set whipstock down on top of WRBP @ 599'. Bottom of window will be @ 595'. Top of window will be @ 587'. Top of whipstock will be @ 588'. Orient whipstock 70 degrees to true north. Set slips by applying 3,900# force on CIBP. After slips are set, shear off whipstock with 10,000#. PU and rotate DP to ensure the whipstock is set and the shear bolt has sheared.
- 11) RU power swivel. Begin milling with 4.75" starter mill using 40-60 rpm with low bit weight.  
NOTE: Too much weight may cause bit to bind and the whipstock to rotate. When the bit is one foot below the toe of the whipstock the weight on bit can be gradually increased.
- 12) Drill approximately 2' with the starter mill.  
NOTE: Joint directly above mill will incur abnormal stress and should be tagged after use and inspected prior to any further use.
- 13) Drill another 3', circulate clean, and TOOH, LD tools. Run mills a couple times to make sure window is dressed off.  
NOTE: Final TD after drilling starter hole should be 600' MD GL.
- 14) RDMO workover rig. **Please provide orientation paperwork to Rodney Tate immediately after completion of orientation of whipstock.**

*AOHS-135 2.875" reg. DP Specs:*

Weight: 10.4 lb/ft  
Grade: S-135  
Nom. wall thickness: 0.362"  
Tool joint OD: 3.875"  
Tool joint ID: 2.156"  
Tube ID: 2.151"  
Drift: 1.963"  
Rec. make up torque: 5,300 ft-lb.  
Internal capacity: 0.189 gal/ft  
Thread: 4 threads/inch  
Max Hook Load: 385,800 lbs.  
Burst/Collapse: 29,700 psi

*SL H-90 HWDP Specs:*

Weight: 15.1 lb/ft  
Nom. Wall thickness: 0.531"  
Tool Joint OD: 3.75"  
Tool Joint ID: 2.1875"  
Tube ID: 2.1875"  
Drift: 2.000"  
Rec. make up torque: 5,000 ft-lb.  
Internal Capacity: 0.184 gal/ft  
Thread: 3.5 threads/inch  
Max Hook Load: 362,400 lbs.  
Burst/Collapse: 30,500 psi

*5.5" Casing Specs:*

Weight: 15.5 lb/ft  
Grade: J-55  
ID: 4.950"  
Drift: 4.825"

***Weir-Pitt Horizontal Drilling Procedure:***

- 1.) MIRU directional drilling rig.
- 3.) PU 7.875" OD Type 517 or 527 button bit, near bit gamma, motor, float sub, UBHO, NMDC, 3-1/2" IF DP. TIH.
- 4.) Drill a 4.75" hole, 70° Azimuth at a build rate approximately 45°/100' to an approximate TVD of 735', 807' MD or at an inclination of 89.5°. Hold angle until Weir-Pitt coal is found. Drill hole with fresh water, and polymer sweeps as needed. TOH with build assembly.
- 5.) TIH with hold assembly. Drill approximately 1,874' of coal. Drill hole with fresh water, and polymer sweeps as needed. Estimated TD is 2,681' MD and 752' TVD. TOH. LD directional tools and DP.

***Whipstock Retrieval / WRBP retrieval / Run Tubing Procedure:***

- 1) MIRU workover rig.
- 2) NU BOP.
- 3) PU retrieving tool, jars, 2.875" tubing. RIH.
- 4) Latch onto shallow whipstock and release.
- 5) TOOH, LD tubing, tools, whipstock.
- 6) RIH with wireline.
- 7) Latch onto WRBP and release.
- 8) TOOH, LD WRBP.
- 9) PU mud anchor, working barrel, 2.375" tubing. RIH back to original set depth. ND BOP. Flange up tubing and hang off.
- 10) PU plunger, 0.75" rods, sub, polish rod and RIH.
- 11) RDMO.



## Geological Well Prognosis

Revised: 18-Jun-2010  
 API#: 1512531947  
 Well Name: **Knisley**  
 Well Number: **6-8X**  
 Field: Liberty  
 Lease: Knisley  
 County: Montgomery  
 State: Kansas

**SL BHL**  
 Qtr/Qtr: SE SW NE SE  
 Section: 6 6  
 Township: 33S 32S  
 Range: 17E 17E  
 Footage Call: 336 FSL 4377 FWL  
 GL Elevation(ft): 802  
 Latitude: 37 11 44.61 NAD 83  
 Longitude: -95 35 13.54 NAD 83

KB: 5

### Casing Details

Surface Hole(in): Production Hole(in):  
 Surface Casing(in): Production Casing(in):  
 Surface Depth(ft): **Total Depth(ft):**

### Formation Tops

	Top ft, (GL)	Top ft, (KB)	Thickness ft	Sub Sea Top ft
Higginsville Lm	479	484		323
L Osage Sh	517	522		285
Mulky Sh	546	551		256
Iron Post Co	574	579		228
Bevier Co	581	586		221
Oakley Sh	598	603		204
Croweburg Co	601	606		201
Mineral Co	645	650		157
WP Stray	706	711		96
<b>Weir-Pitt Co</b>	<b>726</b>	<b>731</b>	<b>From 2 to 5</b>	<b>76</b>
Bville SS	858	863		-56
<b>Riverton Co</b>	<b>978</b>	<b>983</b>	<b>2.0</b>	<b>-176</b>

### Objective

Sidetrack in the Ri and WP coals to the ENE toward the #6-6

### Hazards & Faults

**Please note Riverton coal could flatten-out closer to the target well #6-6**  
 Weir-Pitt coal expected to be dipping gently

### Notes

Surface location and elevation are taken from May 2010 survey

Lateral 1 Riverton:	Lateral 2 Weir-Pitt:
70 ° Azimuth (True North)	70 ° Azimuth (True North)
<b>983</b> ft. TVD (KB), Zero VS	<b>731</b> ft. TVD (KB), Zero VS
<b>982</b> ft. TVD (KB), 150' VS	<b>732</b> ft. TVD (KB), 150' VS
<b>981</b> ft. TVD (KB), 500' VS	<b>735</b> ft. TVD (KB), 500' VS
<b>976</b> ft. TVD (KB), 1500' VS	<b>742</b> ft. TVD (KB), 1500' VS
90.3 ° inclination <b>**see notes</b>	89.5 ° inclination
2000 ft. VS, TD	2000 ft. VS, TD

Prepared by: N. Rice



# **Constellation Energy Partners**

**Montgomery County, KS**

**Section 6 - 33S - 17E**

**Knisley 6-8X**

**Lateral #1 - Riverton**

**Plan: Plan #1**

## **Standard Planning Report**

**07 July, 2010**





# Scientific Drilling International

## Planning Report



**Database:** EDMOKC  
**Company:** Constellation Energy Partners  
**Project:** Montgomery County, KS  
**Site:** Section 6 - 33S - 17E  
**Well:** Knisley 6-8X  
**Wellbore:** Lateral #1 - Riverton  
**Design:** Plan #1

**Local Co-ordinate Reference:** Well Knisley 6-8X  
**TVD Reference:** WELL @ 810.0ft (Original Well Elev)  
**MD Reference:** WELL @ 810.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

<b>Project</b>	Montgomery County, KS		
<b>Map System:</b>	US State Plane 1983	<b>System Datum:</b>	Mean Sea Level
<b>Geo Datum:</b>	North American Datum 1983		
<b>Map Zone:</b>	Kansas Southern Zone		

<b>Site</b>	Section 6 - 33S - 17E				
<b>Site Position:</b>	<b>Northing:</b>	1,518,230.60 ft	<b>Latitude:</b>	37° 11' 44.608 N	
<b>From:</b> Map	<b>Easting:</b>	2,160,685.30 ft	<b>Longitude:</b>	95° 35' 13.541 W	
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	0"	<b>Grid Convergence:</b>	1.79°

<b>Well</b>	Knisley 6-8X, Lat #1 Riverton, Lat #2 Weir-Pitt					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,518,230.60 ft	<b>Latitude:</b>	37° 11' 44.608 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,160,685.30 ft	<b>Longitude:</b>	95° 35' 13.541 W
<b>Position Uncertainty</b>	0.0 ft	<b>Wellhead Elevation:</b>	810.0 ft	<b>Ground Level:</b>	802.0 ft	

<b>Wellbore</b>	Lateral #1 - Riverton				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	06/03/10	3.23	65.68	52,262

<b>Design</b>	Plan #1			
<b>Audit Notes:</b>				
<b>Version:</b>	<b>Phase:</b>	PLAN	<b>Tie On Depth:</b>	0.0
<b>Vertical Section:</b>	<b>Depth From (TVD) (ft)</b>	<b>+N/-S (ft)</b>	<b>+E/-W (ft)</b>	<b>Direction (°)</b>
	0.0	0.0	0.0	70.00

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Bull Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
698.0	0.00	0.00	698.0	0.0	0.0	0.00	0.00	0.00	0.00	
1,149.5	90.30	70.00	984.5	98.5	270.6	20.00	20.00	0.00	70.00	
2,861.6	90.30	70.00	975.5	684.2	1,879.3	0.00	0.00	0.00	0.00	Lat #1 Riverton 6-8.



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## Planning Report



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**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

### Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
698.0	0.00	0.00	698.0	0.0	0.0	0.0	0.00	0.00	0.00
700.0	0.40	70.00	700.0	0.0	0.0	0.0	20.00	20.00	0.00
714.0	3.20	70.00	714.0	0.2	0.4	0.4	20.00	20.00	0.00
<b>WP Stray</b>									
734.1	7.21	70.00	734.0	0.8	2.1	2.3	20.00	20.00	0.00
<b>Weir-Pitt Co</b>									
800.0	20.40	70.00	797.9	6.1	16.9	18.0	20.00	20.00	0.00
878.4	36.08	70.00	866.7	18.8	51.6	54.9	20.00	20.00	0.00
<b>Bville SS</b>									
900.0	40.40	70.00	883.7	23.4	64.2	68.3	20.00	20.00	0.00
1,000.0	60.40	70.00	947.1	49.6	136.2	145.0	20.00	20.00	0.00
1,100.0	80.40	70.00	980.5	81.7	224.3	238.7	20.00	20.00	0.00
1,149.2	90.24	70.00	984.5	98.4	270.3	287.7	20.00	20.00	0.00
<b>Riverton Co</b>									
1,149.5	90.30	70.00	984.5	98.5	270.6	288.0	20.00	20.00	0.00
1,200.0	90.30	70.00	984.2	115.8	318.0	338.5	0.00	0.00	0.00
1,300.0	90.30	70.00	983.7	150.0	412.0	438.5	0.00	0.00	0.00
1,400.0	90.30	70.00	983.2	184.2	506.0	538.5	0.00	0.00	0.00
1,500.0	90.30	70.00	982.7	218.4	599.9	638.5	0.00	0.00	0.00
1,600.0	90.30	70.00	982.1	252.6	693.9	738.5	0.00	0.00	0.00
1,700.0	90.30	70.00	981.6	286.8	787.9	838.5	0.00	0.00	0.00
1,800.0	90.30	70.00	981.1	321.0	881.8	938.5	0.00	0.00	0.00
1,900.0	90.30	70.00	980.6	355.2	975.8	1,038.5	0.00	0.00	0.00
2,000.0	90.30	70.00	980.0	389.5	1,069.8	1,138.4	0.00	0.00	0.00
2,100.0	90.30	70.00	979.5	423.7	1,163.7	1,238.4	0.00	0.00	0.00
2,200.0	90.30	70.00	979.0	457.9	1,257.7	1,338.4	0.00	0.00	0.00
2,300.0	90.30	70.00	978.5	492.1	1,351.7	1,438.4	0.00	0.00	0.00
2,400.0	90.30	70.00	977.9	526.3	1,445.6	1,538.4	0.00	0.00	0.00
2,500.0	90.30	70.00	977.4	560.5	1,539.6	1,638.4	0.00	0.00	0.00
2,600.0	90.30	70.00	976.9	594.7	1,633.6	1,738.4	0.00	0.00	0.00
2,700.0	90.30	70.00	976.4	628.9	1,727.5	1,838.4	0.00	0.00	0.00
2,800.0	90.30	70.00	975.9	663.1	1,821.5	1,938.4	0.00	0.00	0.00
2,861.6	90.30	70.00	975.5	684.2	1,879.3	2,000.0	0.00	0.00	0.00

Lat #1 Riverton 6-8X

### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
Lat #1 Riverton 6-8X	0.00	0.00	975.5	684.2	1,879.3	1,518,973.16	2,162,542.34	37° 11' 51.372 N	95° 34' 50.314 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									



**Scientific Drilling International**  
Planning Report



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**Survey Calculation Method:** Minimum Curvature

**Formations**

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
487.0	487.0	Higginsville Lm		-0.30	70.00
525.0	525.0	L Osage Sd		-0.30	70.00
554.0	554.0	Mulky Sh		-0.30	70.00
582.0	582.0	Iron Post Co		-0.30	70.00
589.0	589.0	Bevier		-0.30	70.00
606.0	606.0	Oakley Sh		-0.30	70.00
609.0	609.0	Croweburg Co		-0.30	70.00
653.0	653.0	Mineral Co		-0.30	70.00
714.0	714.0	WP Stray		-0.30	70.00
734.1	734.0	Weir-Pitt Co		-0.30	70.00
878.4	866.7	Bville SS		-0.30	70.00
1,149.2	984.5	Riverton Co		-0.30	70.00