

For KCC Use: 7-20-2010  
 Effective Date: 3  
 District #: 3  
 SGA?  Yes  No

KANSAS CORPORATION COMMISSION  
 OIL & GAS CONSERVATION DIVISION

Form C-1  
 October 2007

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

Expected Spud Date: 6 1 2010  
 month day year

OPERATOR: License# 34027  
 Name: CEP MID CONTINENT LLC  
 Address 1: 15 WEST 6TH ST SUITE 1100  
 Address 2: \_\_\_\_\_  
 City: TULSA State: OK Zip: 74119 + 5415  
 Contact Person: VICKIE HARTER  
 Phone: 918-877-2923  
 CONTRACTOR: License# 33832  
 Name: PENSE BROS. DRILLING CO

Spot Description: 410 FNL-738 FWL-NW-NW  
SW - NE - NW - NW Sec. 8 Twp. 34 S. R. 15  E  W  
 (a/a/a) 410 feet from  N /  S Line of Section  
738 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: WHEELER HADDEN Well #: 8-1  
 Field Name: SUNWEST Cherokee Basin Coal Area

Is this a Prorated / Spaced Field?  Yes  No

Target Formation(s): RIVERTON

Nearest Lease or unit boundary line (in footage): 410

Ground Surface Elevation: 862 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: 140

Depth to bottom of usable water: 175

Surface Pipe by Alternate:  I  II

Length of Surface Pipe Planned to be set: 20'

Length of Conductor Pipe (if any): \_\_\_\_\_

Projected Total Depth: 3274

Formation at Total Depth: RIVERTON

Water Source for Drilling Operations:

Well  Farm Pond  Other: TRANSPORT

DWR Permit #: \_\_\_\_\_

(Note: Apply for Permit with DWR )

Will Cores be taken?  Yes  No

If Yes, proposed zone: \_\_\_\_\_

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Well Drilled For:  Oil  Gas  Enh Rec  Storage  Disposal  Seismic; # of Holes \_\_\_\_\_  
 Well Class:  Infield  Pool Ext.  Wildcat  Other  
 Type Equipment:  Mud Rotary  Air Rotary  Cable  
 Other: SIDE TRACK OF EXISTING WELL WHEELER HADDEN 8-1

If OWWO: old well information as follows:

Operator: Sunwest Petroleum Inc  
 Well Name: Wheeler-Hadden 8-1  
 Original Completion Date: 1-21-02 Original Total Depth: 1443

Directional, Deviated or Horizontal wellbore?  Yes  No

If Yes, true vertical depth: 1395

Bottom Hole Location: 1560' FSL 1085' FWL SEC 5 34S 15E 10 DEG. AZIM SW SW

KCC DKT #: 10-CONS-334-CHOR

**AFFIDAVIT**

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

JUN 21 2010

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

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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 correct to the best of my knowledge and belief.

Date: 5-21-10 Signature of Operator or Agent: [Signature] Title: V.P. OPERATIONS

**For KCC Use ONLY**  
 API # 15 - 125-30070-01-00  
 Conductor pipe required None feet  
 Minimum surface pipe required 20 feet per ALT.  I  II  
 Approved by: [Signature] 7-15-2010  
 This authorization expires: 7-15-2011  
 (This authorization void if drilling not started within 12 months of approval date.)  
 Spud date: \_\_\_\_\_ Agent: \_\_\_\_\_

**Remember to:**

- 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 this permit has expired (See: authorized expiration date) please check the box below and return to the address below.

Well Not Drilled - Permit Expired Date: \_\_\_\_\_  
 Signature of Operator or Agent: \_\_\_\_\_

8  
34  
15  
 E  
 W

IN ALL CASES PLOT THE INTENDED WELL ON THE PLAT BELOW

Plat of acreage attributable to a well in a prorated or spaced field

If the intended well is in a prorated or spaced field, please fully complete this side of the form. If the intended well is in a prorated or spaced field complete the plat below showing that the well will be properly located in relationship to other wells producing from the common source of supply. Please show all the wells and within 1 mile of the boundaries of the proposed acreage attribution unit for gas wells and within 1/2 mile of the boundaries of the proposed acreage attribution unit for oil wells.

API No. 15 - 125-30070-01-00
Operator: CEP MID CONTINENT LLC
Lease: WHEELER HADDEN
Well Number: 8-1
Field: SUNWEST
Number of Acres attributable to well:
QTR/QTR/QTR/QTR of acreage: - NW - NW

Location of Well: County: MONTGOMERY
410 feet from N / S Line of Section
738 feet from E / W Line of Section
Sec. 8 Twp. 34 S. R. 15 E W

Is Section: Regular or Irregular

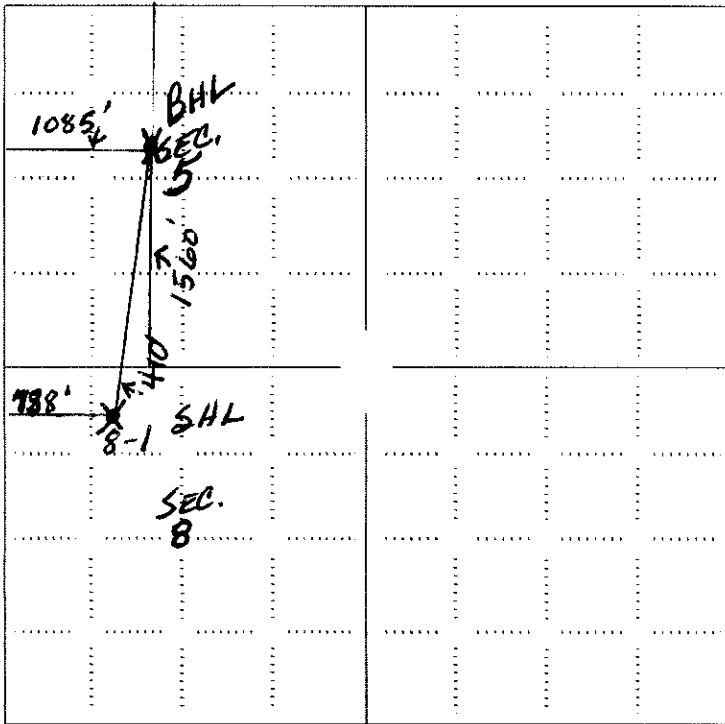
If Section is Irregular, locate well from nearest corner boundary.

Section corner used: NE NW SE SW

PLAT

(Show location of the well and shade attributable acreage for prorated or spaced wells.)

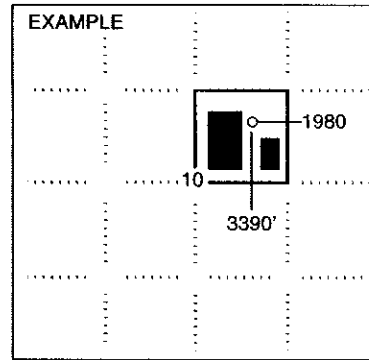
(Show footage to the nearest lease or unit boundary line.)



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

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

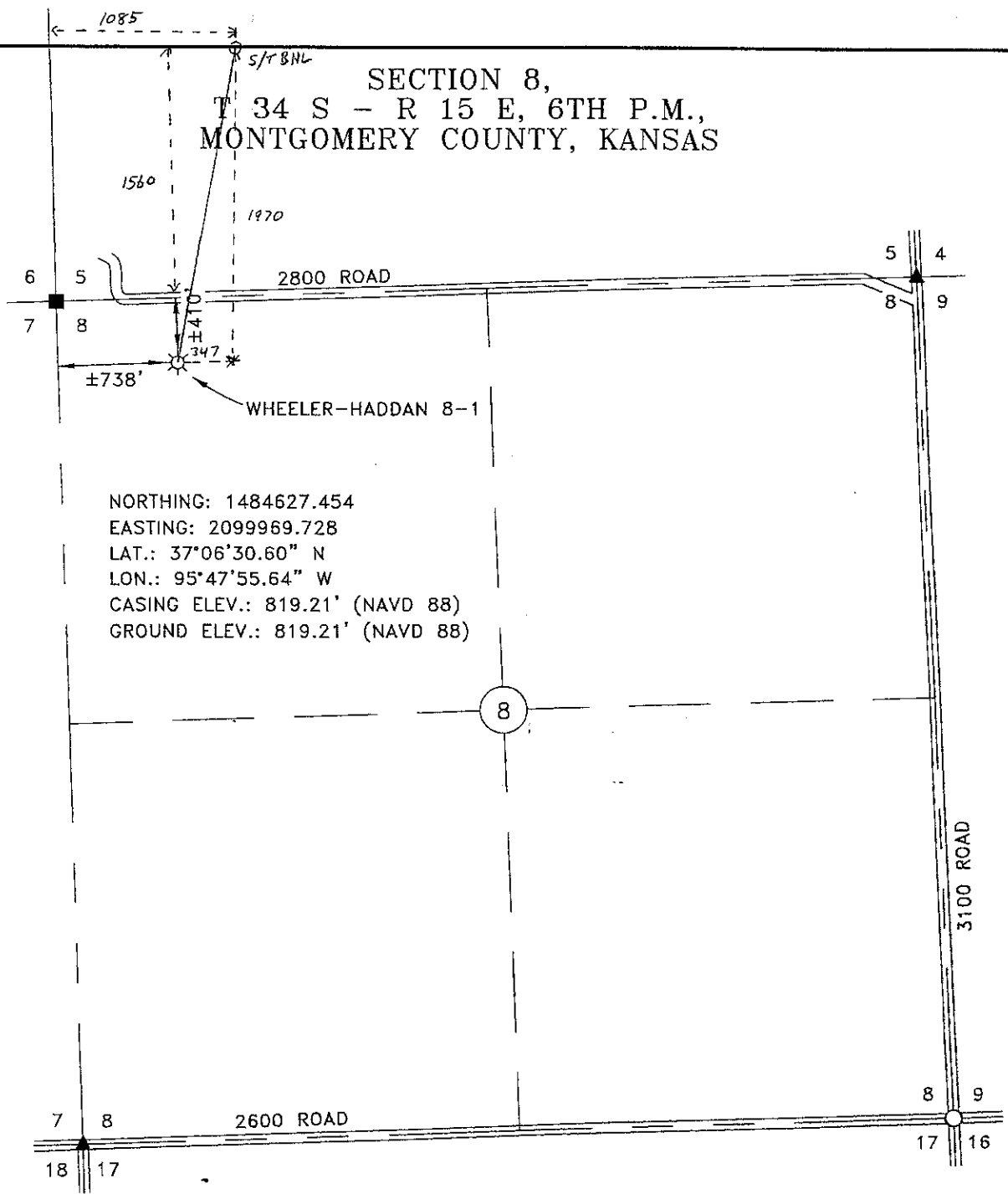
- 1. The manner in which you are using the depicted plat by identifying section lines, i.e. 1 section, 1 section with 8 surrounding sections, 4 sections, etc.
2. The distance of the proposed drilling location from the south / north and east / west outside section lines.
3. The distance to the nearest 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).

15-125-30070-01-00

EXHIBIT "A"

SECTION 8,  
T 34 S - R 15 E, 6TH P.M.,  
MONTGOMERY COUNTY, KANSAS

BASIS OF BEARINGS: KANSAS STATE PLANE  
GPS - SOUTH ZONE NAD 83  
PLAT NORTH



NORTHING: 1484627.454  
 EASTING: 2099969.728  
 LAT.: 37°06'30.60" N  
 LON.: 95°47'55.64" W  
 CASING ELEV.: 819.21' (NAVD 88)  
 GROUND ELEV.: 819.21' (NAVD 88)

SCALE: 1"=1000'      DATE SURVEYED: 2/16/10  
 OPERATOR: CONSTELLATION ENERGY  
 LEASE NAME: WHEELER-HADDAN      WELL NO.: 8-1  
 TOPOGRAPHY & VEGETATION: PASTURE-EXISTING PUMPING UNIT

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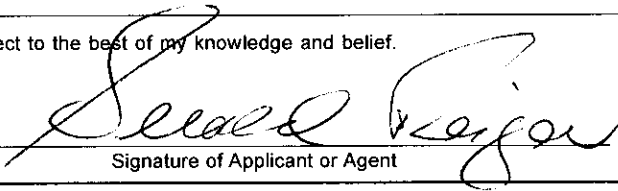
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WICHITA, KS

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

Form CDP-1  
April 2004  
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 6TH ST SUITE 1100</b>		<b>TULSA</b>	<b>OK 74119</b>
Contact Person: <b>VICKIE HARTER</b>		Phone Number: <b>918-877-2923</b>	
Lease Name & Well No.: <b>WHEELER HADDEN 8-1</b>		Pit Location (QQQQ): _____ - _____ - <b>NW</b> - <b>NW</b> Sec. <b>8</b> Twp. <b>34</b> R. <b>15</b> <input checked="" type="checkbox"/> East <input type="checkbox"/> West <b>410</b> Feet from <input checked="" type="checkbox"/> North / <input type="checkbox"/> South Line of Section <b>738</b> Feet from <input type="checkbox"/> East / <input checked="" type="checkbox"/> West Line of Section <b>MONTGOMERY</b> County	
Type of Pit: <input type="checkbox"/> Emergency Pit <input type="checkbox"/> Burn Pit <input type="checkbox"/> Settling Pit <input type="checkbox"/> Drilling Pit <input checked="" type="checkbox"/> Workover Pit <input type="checkbox"/> Haul-Off Pit <small>(If WP Supply API No. or Year Drilled)</small>		Pit is: <input checked="" type="checkbox"/> Proposed <input type="checkbox"/> Existing If Existing, date constructed: _____ Pit capacity: _____ (bbls)	
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>NA</b>		Describe procedures for periodic maintenance and determining liner integrity, including any special monitoring.  <b>NA</b>	
Distance to nearest water well within one-mile of pit <u>3000+</u> feet    Depth of water well <u>145</u> feet		Depth to shallowest fresh water <u>140</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 DRIED AND BACKFILLED</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.  <div style="display: flex; justify-content: space-between;"> <div style="text-align: center;"> <u>5-21-10</u> Date         </div> <div style="text-align: center;">  Signature of Applicant or Agent         </div> </div>			
<b>KCC OFFICE USE ONLY</b>			
		Steel Pit <input type="checkbox"/>	RFAC <input checked="" type="checkbox"/> RFAS <input type="checkbox"/>
Date Received: <u>6-21-10</u> Permit Number: _____		Permit Date: <u>6-23-10</u>	Lease Inspection: <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No

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WICHITA, KS

15-125-30070-01-DD

June 23, 2010

CEP Mid Continent LLC  
15 West 6<sup>th</sup> St Ste 1100  
Tulsa, OK 74119-5415

RE: Drilling Pit Application  
Wheeler Hadden Lease Well No. 8-1  
NW/4 Sec. 08-34S-15E  
Montgomery County, Kansas

Dear Sir or Madam:

District staff has inspected the above referenced location and has determined that the reserve pit shall be constructed **without slots**, the bottom shall be flat and reasonably level, and the free fluids must be removed. The fluids are to be removed from the reserve pit as soon as practical after drilling operations have ceased.

**If production casing is set all completion fluids shall be removed from the working pits daily. NO completion fluids or non-exempt wastes shall be placed in the reserve pit.**

The fluids should be taken to an authorized disposal well. Please call the District Office at (620) 432-2300 when the fluids have been removed. Please file form CDP-5 (August 2004), Exploration and Production Waste Transfer, within 30 days of fluid removal. Conservation division forms are available through our office and on the KCC web site:  
[www.kcc.state.ks.us/conservation/forms](http://www.kcc.state.ks.us/conservation/forms).

**A copy of this letter should be posted in the doghouse along with the approved Intent to Drill.**

If you have any questions or concerns please feel free to contact the undersigned at the above address.

Sincerely,

  
Kathy Haynes

Environmental Protection and Remediation Department

cc: File

15-125-30070-01-00

**Wheeler-Haddan 8-1 Sidetrack Drilling Procedure**

Written by: Rodney J. Tate - 04/16/10

CEP Mid-Continent, LLC  
NW/4 Section 08-T34S-R15E, Montgomery County, KS  
Surface Location: 410' FNL, 738' FWL

**Objective:**

Perforate and acidize the Riverton Coal. Set a CIBP and whipstock and cut a window out of the existing 5.5" casing. Drill a horizontal lateral into the Riverton Coal. Leave lateral as open hole. Run tubing/pump into vertical and return to production.

**Note:** Prior to whipstock operation, Riverton will be perforated and acidized. Frac is not recommended due to adjacent Mississippian formation. See separate stimulation recommendation for perf guidelines.

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**Whipstock Setting Procedure:**

- 1) MIRU workover rig. TOH existing 2.375" tubing, rods, pump.
- 2) RU wireline unit and set top of 5.5" CIBP @ 1,191' 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 CIBP to window.  
Nearest collars: 1,111', 1,143', 1,175', WINDOW, 1,207', 1,240', 1,272'.

- 3) Load hole, pressure up on casing to ensure CIBP 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 1,210' 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 CIBP @ 1,191'. Bottom of window will be @ 1,187'. Top of window will be @ 1,180'. Top of whipstock will be @ 1,179'. Orient whipstock 10 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.
- 12) Drill approximately 2' with the starter mill. Circulate clean, TOO. H.

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.

NOTE: Joint directly above mill will incur abnormal stress and should be tagged after use and inspected prior to any further use.

13) PU 4.75" window mill and 1/5" watermelon mill. TIH. Drill another 3', circulate clean, and TOO, LD tools. Run mills a couple times to make sure window is dressed off.

NOTE: Final TD after drilling starter hole should be 1,197' 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"

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***Horizontal Drilling Procedure:***

- 1) MIRU drilling rig. PU 4.75" 537 or 547 Type (or similar) bit, 3.76 adj. housing motor, SDI BHA components, and 2.875" drill pipe. TIH to total measured depth of 1,197' MD GL (1,202' MD KB).
- 2) Gyro-steer drill a 4.75" hole, 10 deg. azimuth at a build rate approximately 45.67°/100' to a TVD of 1,328' or at an inclination of 90 deg. (Drill with a gyro on the 1<sup>st</sup> 60'). Measured depth should be 1,400'.

Hold angle until Riverton coal is found. Drill hole with fresh water and polymer sweeps as needed. TOH with build assembly.

- 3) TIH with hold assembly, same bit, 1.69 adj. housing motor, SDI BHA components (including GAIN Module) (or SDI's Smart Motor) and 2.875" DP. Drill 1,874' of coal or more if able at a hold angle of 90.7 deg. Drill lateral with fresh water and polymer sweeps as needed. TOO. LD directional tools and DP.
- 4) Release drilling rig.

***Whipstock Retrieval / CIBP drilling / Run Tubing Procedure:***

- 1) MIRU workover rig.
- 2) NU BOP.
- 3) PU retrieving tool, jars, 2.875" tubing. RIH.
- 4) Latch onto whipstock and release.
- 5) TOO, LD tubing, tools, whipstock.
- 6) PU sand line drill. TIH to CIBP and hammer drill out and push to bottom. TOO w/ drill.
- 7) PU mud anchor, working barrel, 2.375" tubing. RIH back to original set depth. ND BOP. Flange up tubing and hang off.
- 8) PU plunger, 0.75" rods, sub, polish rod and RIH.
- 9) RDMO.

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# Constellation Energy Partners

Montgomery County, KS  
Section 8 - 34S - 15E  
Wheeler-Hadden 8-1

Sidetrack Wellpath

Plan: Plan #2

## Standard Planning Report

15 April, 2010

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# Scientific Drilling International

## Planning Report



**Database:** EDMOKC  
**Company:** Constellation Energy Partners  
**Project:** Montgomery County, KS  
**Site:** Section 8 - 34S - 15E ✓  
**Well:** Wheeler-Hadden 8-1 ✓  
**Wellbore:** Sidetrack Wellpath  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well Wheeler-Hadden 8-1  
**TVD Reference:** WELL @ 824.0ft (Original Well Elev)  
**MD Reference:** WELL @ 824.0ft (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 8 - 34S - 15E, SHL: 410 FNL 738 FWL				
<b>Site Position:</b>		<b>Northing:</b>	1,484,627.46 ft	<b>Latitude:</b>	37° 6' 30.597 N
<b>From:</b>	Map	<b>Easting:</b>	2,099,969.72 ft	<b>Longitude:</b>	95° 47' 55.639 W
<b>Position Uncertainty:</b>	0.0 ft	<b>Slot Radius:</b>	0"	<b>Grid Convergence:</b>	1.66°

<b>Well:</b>	Wheeler-Hadden 8-1, Riverton Co					
<b>Well Position</b>	<b>+N/-S</b>	0.0 ft	<b>Northing:</b>	1,484,627.46 ft ✓	<b>Latitude:</b>	37° 6' 30.597 N
	<b>+E/-W</b>	0.0 ft	<b>Easting:</b>	2,099,969.72 ft ✓	<b>Longitude:</b>	95° 47' 55.639 W
<b>Position Uncertainty</b>		0.0 ft	<b>Wellhead Elevation:</b>	824.0 ft	<b>Ground Level:</b>	819.0 ft ✓

<b>Wellbore</b>	Sidetrack Wellpath				
<b>Magnetics</b>	<b>Model Name</b>	<b>Sample Date</b>	<b>Declination (°)</b>	<b>Dip Angle (°)</b>	<b>Field Strength (nT)</b>
	IGRF2010	2010/04/13	3.40	65.60	52,221

<b>Design</b>	Plan #2				
<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	10.00	

Plan Sections											
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build 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		
1,202.0	0.00	0.00	1,202.0	0.0	0.0	0.00	0.00	0.00	0.00		
1,400.6	90.70	10.00	1,327.5	125.1	22.0	45.67	45.67	0.00	10.00		
3,274.0	90.70	10.00	1,304.6	1,969.9	347.2	0.00	0.00	0.00	0.00	TGT Wheeler-Hadd	

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# Scientific Drilling International

## Planning Report



**Database:** EDMOKC  
**Company:** Constellation Energy Partners  
**Project:** Montgomery County, KS  
**Site:** Section 8 - 34S - 15E  
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**Local Co-ordinate Reference:** Well Wheeler-Hadden 8-1  
**TVD Reference:** WELL @ 824.0ft (Original Well Elev)  
**MD Reference:** WELL @ 824.0ft (Original Well Elev)  
**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)
<i>KOP</i> - 1,202.0	0.00	0.00	1,202.0	0.0	0.0	0.0	0.00	0.00	0.00
1,300.0	44.75	10.00	1,290.3	35.8	6.3	36.4	45.67	45.67	0.00
1,313.6	50.95	10.00	1,299.4	45.7	8.1	46.4	45.67	45.67	0.00
<b>Rowe Co</b>									
1,399.7	90.27	10.00	1,327.5	124.1	21.9	126.1	45.67	45.67	0.00
<b>Riverton Co</b>									
1,400.0	90.42	10.00	1,327.5	124.5	21.9	126.4	45.67	45.67	0.00
1,400.6	90.70	10.00	1,327.5	125.1	22.0	127.0	45.67	45.67	0.00
1,500.0	90.70	10.00	1,326.2	222.9	39.3	226.4	0.00	0.00	0.00
1,600.0	90.70	10.00	1,325.0	321.4	56.7	326.4	0.00	0.00	0.00
1,700.0	90.70	10.00	1,323.8	419.9	74.0	426.4	0.00	0.00	0.00
1,800.0	90.70	10.00	1,322.6	518.4	91.4	526.4	0.00	0.00	0.00
1,900.0	90.70	10.00	1,321.4	616.8	108.7	626.3	0.00	0.00	0.00
2,000.0	90.70	10.00	1,320.1	715.3	126.1	726.3	0.00	0.00	0.00
2,100.0	90.70	10.00	1,318.9	813.8	143.4	826.3	0.00	0.00	0.00
2,200.0	90.70	10.00	1,317.7	912.3	160.8	926.3	0.00	0.00	0.00
2,300.0	90.70	10.00	1,316.5	1,010.7	178.2	1,026.3	0.00	0.00	0.00
2,400.0	90.70	10.00	1,315.2	1,109.2	195.5	1,126.3	0.00	0.00	0.00
2,500.0	90.70	10.00	1,314.0	1,207.7	212.9	1,226.3	0.00	0.00	0.00
2,600.0	90.70	10.00	1,312.8	1,306.2	230.2	1,326.3	0.00	0.00	0.00
2,700.0	90.70	10.00	1,311.6	1,404.6	247.6	1,426.3	0.00	0.00	0.00
2,800.0	90.70	10.00	1,310.4	1,503.1	264.9	1,526.3	0.00	0.00	0.00
2,900.0	90.70	10.00	1,309.1	1,601.6	282.3	1,626.3	0.00	0.00	0.00
3,000.0	90.70	10.00	1,307.9	1,700.1	299.7	1,726.3	0.00	0.00	0.00
3,100.0	90.70	10.00	1,306.7	1,798.5	317.0	1,826.3	0.00	0.00	0.00
3,200.0	90.70	10.00	1,305.5	1,897.0	334.4	1,926.3	0.00	0.00	0.00
3,274.0	90.70	10.00	1,304.6	1,969.9	347.2	2,000.3	0.00	0.00	0.00

TGT Wheeler-Hadden 8-1

### Design Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
TGT Wheeler-Hadder	0.00	0.00	1,304.6	1,969.9	347.2	1,486,606.60	2,100,259.74	37° 6' 50.073 N	95° 47' 51.352 W
- hit/miss target									
- Shape									
- plan hits target center									
- Point									

### Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
933.0	933.0	IronPost Co		-0.70	10.00
960.0	960.0	Oakley Sh		-0.70	10.00
1,085.0	1,085.0	Weir-Pitt Co		-0.70	10.00
1,177.0	1,177.0	Bluejacket Co		-0.70	10.00
1,313.6	1,299.4	Rowe Co		-0.70	10.00
1,399.7	1,327.5	Riverton Co		-0.70	10.00

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**Scientific Drilling International**  
Planning Report



**Database:** EDMOKC  
**Company:** Constellation Energy Partners  
**Project:** Montgomery County, KS  
**Site:** Section 8 - 34S - 15E  
**Well:** Wheeler-Hadden 8-1  
**Wellbore:** Sidetrack Wellpath  
**Design:** Plan #2

**Local Co-ordinate Reference:** Well Wheeler-Hadden 8-1  
**TVD Reference:** WELL @ 824.0ft (Original Well Elev)  
**MD Reference:** WELL @ 824.0ft (Original Well Elev)  
**North Reference:** True  
**Survey Calculation Method:** Minimum Curvature

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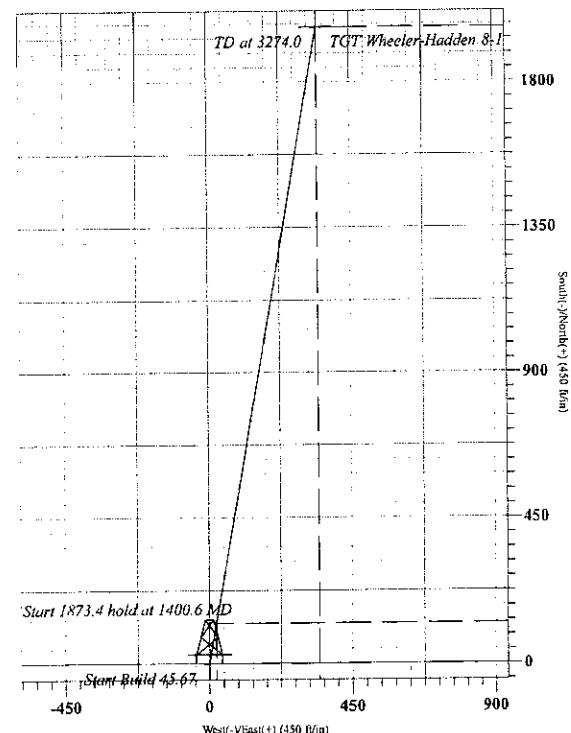
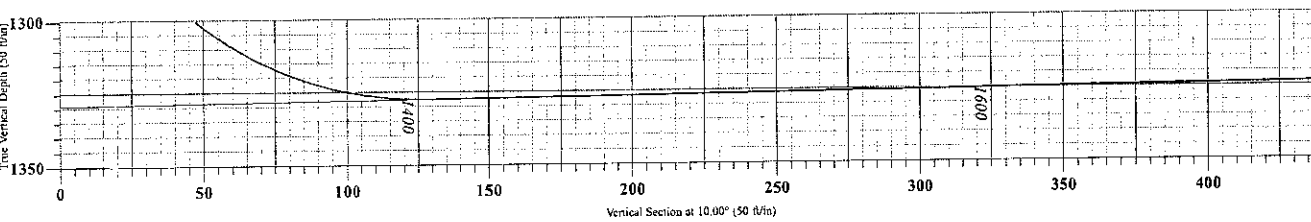
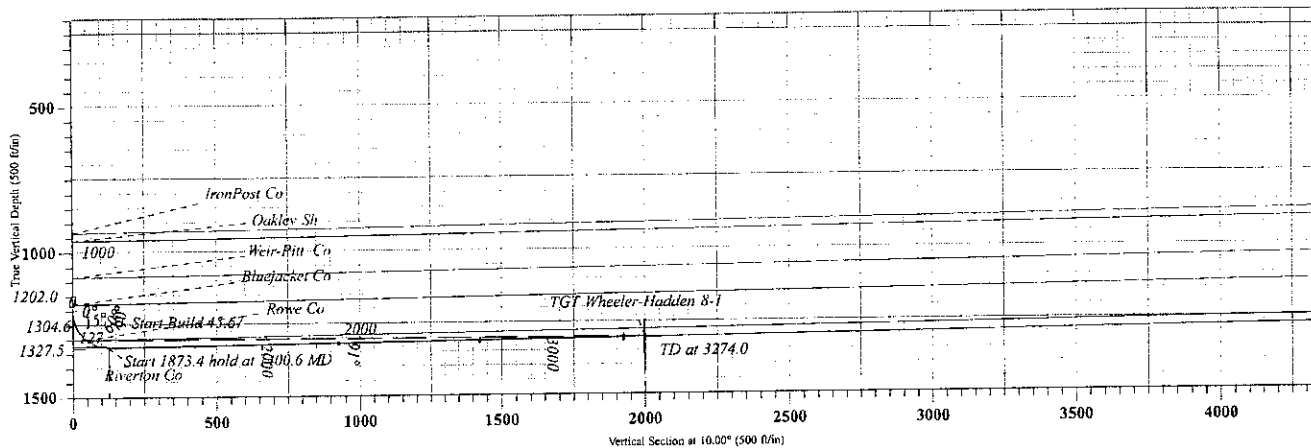
# Constellation Energy Partners

Field: Montgomery County, KS  
Site: Section 8 - 34S - 15E  
Well: Wheeler-Hadden 8-1  
Wellpath: Sidetrack Wellpath  
Plan: Plan #2



Azimuths to True North  
Magnetic North: 3.40°

Magnetic Field  
Strength: 52221.5nT  
Dip Angle: 65.60°  
Date: 04/13/2010  
Model: IGRF2010



WELL DETAILS: Wheeler-Hadden 8-1				Vertical Section Azimuth 10.00		
+N-S 0.0	+E-W 0.6	Northing 1434627.45	Eastings 2099969.73	Latitude 37° 6' 30.597 N	Longitude 95° 47' 53.639 W	

TARGET DETAILS				SECTION DETAILS							Target
Name	TVD	+N-S	+E-W	Inc	Asc	TVD	+N-S	+E-W	Dip	T/Face	V/Sec
TGT Wheeler-Hadden 8-1	1704.6	1969.9	347.2	1486006.00	2100259.74	0.0	0.0	0.0	0.0	0.0	0.0
				1202.0	0.0	1202.0	0.0	0.0	0.0	0.0	0.0
				1400.6	90.70	10.00	1327.5	125.1	22.0	45.67	10.00
				3274.0	90.70	10.00	1304.6	1969.9	347.2	0.00	0.00

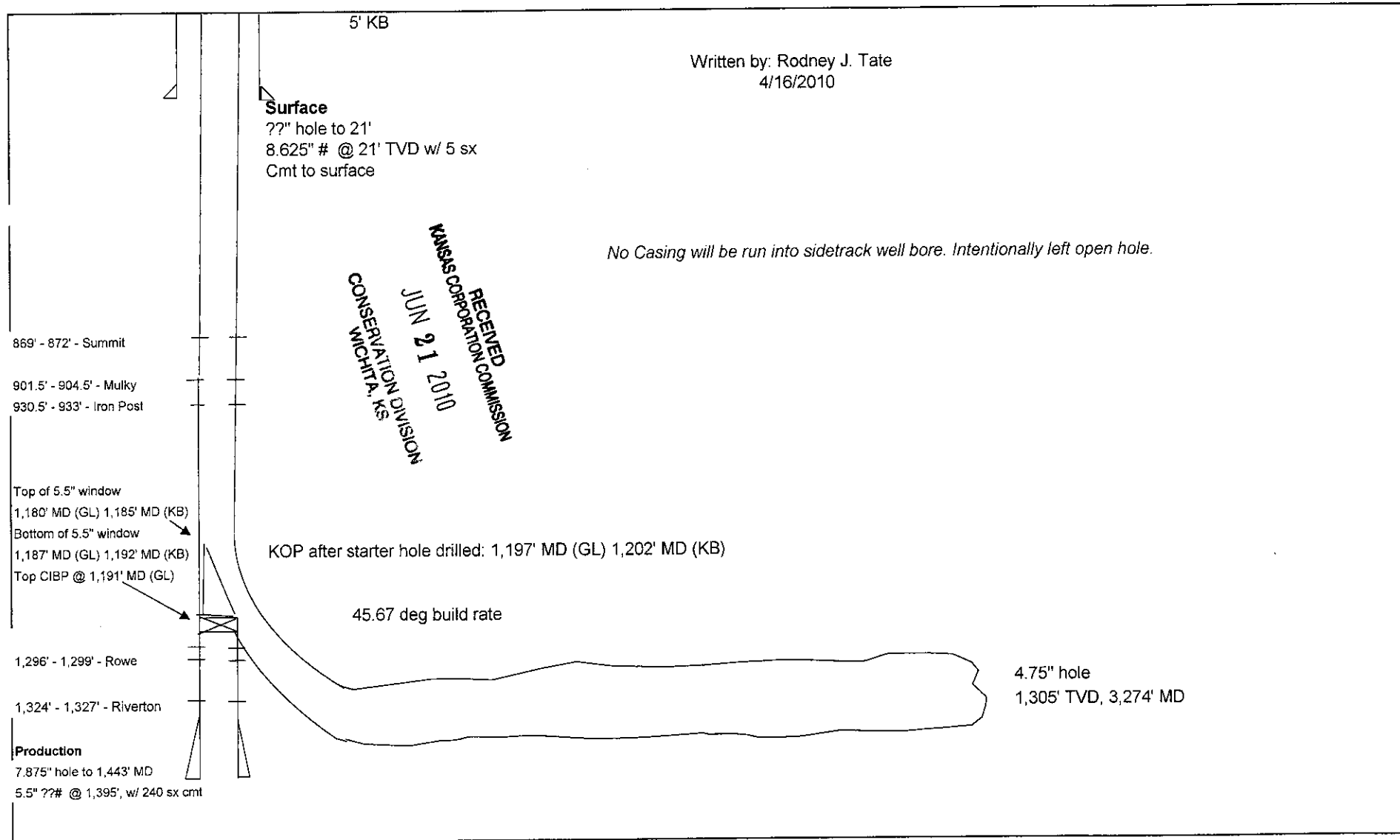
Plan: Plan #2 (Wheeler-Hadden 8-1/Sidetrack Wellpath)  
Created By: Genie Lighfoot Date: 9:16, April 15 2010

FORMATION TOP DETAILS				
TVDPath	MDPath	Formation	DipAngle	DipDir
933.0	933.0	IronPost Co	-0.70	10.00
960.0	960.0	Oakley Sh	-0.70	10.00
1085.0	1085.0	Weir-Pitt Co	-0.70	10.00
1177.0	1177.0	Bluejacket Co	-0.70	10.00
1299.4	1313.6	Rowe Co	-0.70	10.00
1327.5	1399.7	Riverport Co	-0.70	10.00

**Proposed Re-entry Wheeler-Haddan 8-1 Wellbore Diagram**

Actual Surface Loc: NW/4 Sec 08 T34S - R15E - Kanmap  
 Actual Surface Loc: 410' FNL, 738' FWL, ELEV 819'  
 Proposed BHL for Weir-Pitt Lateral: SW/4 Sec 05 T34S - R15E - Sunwest  
 Proposed BHL, Start of Target: 285' FNL, 760' FWL Sec 08  
 Proposed BHL, End of Target: 1,560' FSL, 1,085' FWL Sec 05, 10° Azim ←  
 Proposed Vertical Section: 2,000'  
 Proposed Lateral Length: 1,874'  
 Horizontal Sidetrack Riverton Coal

Casing	Size	Wt	# Jts.	Length	MD	TVD
Surface Casing	8.625			21.00	21.00	21
Orig. Production Csg	5.5			1,395.00	1,395.00	1,395





## Geological Well Prognosis

Date:	12-Apr-10	SHL	BHL
API#:	1512530070	Qtr/Qtr:	NW NW SW SW
Well Name:	<b>Wheeler-Hadden</b>	Section:	8 5
Well Number:	<b>8-1</b>	Township:	34S 34S
Field:	Sunwest	Range:	15E 15E
Lease:	Wheeler-Hadden	Footage Call:	410 FNL 738 FWL
County:	Montgomery	Elevation(ft):	819 GL
State:	KS	Latitude:	37 06' 30.60" NAD 83
		Longitude:	-95 47' 55.64" NAD 83

### Casing Details

Surface Hole(in):	Production Hole(in):
Surface Casing(in):	Production Casing(in): 5.5
Surface Depth(ft):	<b>Total Depth(ft):</b>

<u>Formation Tops</u>	Top ft, (GL)	Top ft, (KB)	Thickness ft	Sub Sea Top ft
IronPost Co	928	<b>933</b>		-109
Oakley Sh	955	<b>960</b>		-136
Weir-Pitt Co	1080	<b>1085</b>		-261
Bluejacket Co	1172	<b>1177</b>		-353
Rowe Co	1295	<b>1300</b>		-476
<b>Riverton Co</b>	1324	<b>1329</b>	2.5	-505

### Objective

Sidetrack existing 5-1/2" well to the north in the Riverton coal

### Hazards & Faults

None identified

### Notes

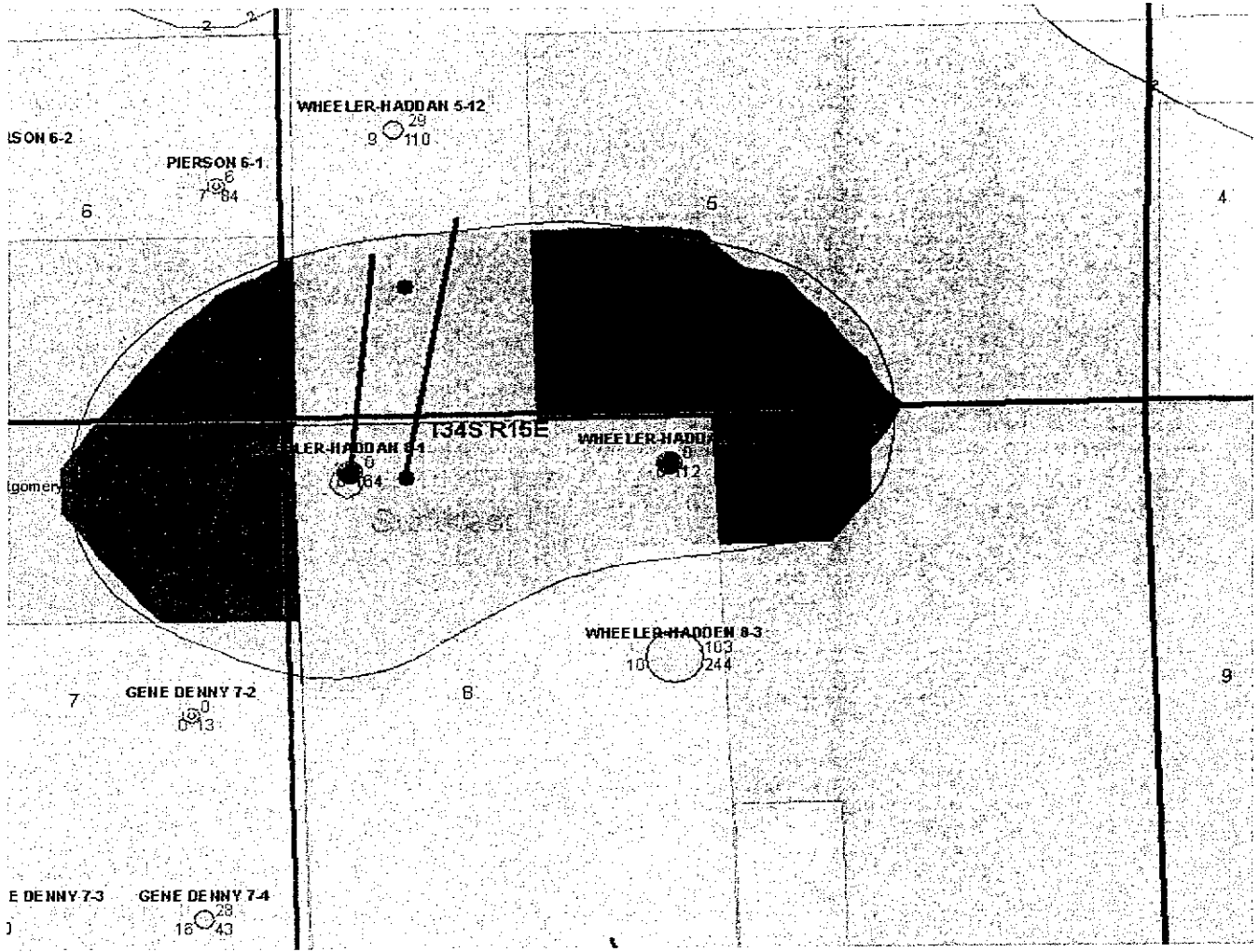
Location and elevation taken from March 2010 survey

### Lateral Information

**Azimuth of 10 degrees was selected to avoid intersecting target well Wheeler-Hadden 5-12**

10 ° Azimuth (True North)  
**1329** ft. TVD (KB) 0' VS  
**1328** ft. TVD (KB) 150' VS  
**1325** ft. TVD (KB) 500' VS  
**1316** ft. TVD (KB) 1500' VS  
 90.7 ° dip along well path  
 2000 ft. VS Total

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