			PIPELINE R				
VARIATION TYPE:		Refinement:			Reroute:	Х	
	Centerline:	Х		Valve Site	e:		Pump Station:
LOCATION:	:	Sketch:	Att	tached	Pictures:	See attached.	_
State:	SD	County:	Jones		Quad Map:	N/A	
Township:	1S, 2S	Range:			·	See attached map	sheet
Section: 25	, 36, 31, 32, 5		Centerline:	3/26/2010	MP:	509.58	to 513.34
REASON FOR ROUTE	VARIATION	(Please inclu	ıde reason for rou	ute variation):			
north side and a broad side) and a very long be bores (> 300 ft) reduce east which has gentle s Another reason for the	right of way. Tore (~470 ft at the accuracy slopes (which i proposed rero bore, 340 ft lo ist in order to l	This crossing t current local and integrity requires regulated to the congression of the	location will requition). The deep be of the bore by the lar bore pits) on e e current crossing > 300 ft is an accord and highway it	ire a deep bore pit (ore pit (> 20 ft) prese contractor. Hence either side and has g location of Hwy 16 curacy and integrity independent of eac	> 20 ft deep which sents a high safety it is proposed to a a relatively narrow and South Dako concern, hence it h other. This reloce	n requires an engrisk, high costs elocate the cross Interstate highwards a State Railroad is proposed to	I near MP 510.1 which is relocate this crossing locat
DETAIL ROUTE VARIA	ATION (Dlage	e describe ro	urte variation in de	atail).			
	,				torling towards the	a couth coot. It o	ontinues in this direction fo
Along its path, it makes	a doviation to						
location is estimated to	S (Please incl s ~740 ft short be ~220 ft an ination of the c	lude any additer than the cid ~180 ft resengineered p	tional impacts wh current centerline. pectively. The bor it on north side is	ich may affect cost The bore lengths for re length at the pro	; crossings, inductor South Dakota Sposed location of l	ion bends, etc.): tate Railroad an -90 is estimated	terstate highway I-90 have
ADDITIONAL IMPACT The proposed reroute is location is estimated to savings due to the elim	S (Please incl s ~740 ft short be ~220 ft an ination of the c	lude any additer than the cid ~180 ft resengineered p	tional impacts wh current centerline. pectively. The bor it on north side is	ich may affect cost The bore lengths for re length at the pro	; crossings, inductor South Dakota Sposed location of l	ion bends, etc.): tate Railroad an -90 is estimated	: d Hwy 16 at the proposed
ADDITIONAL IMPACT The proposed reroute is location is estimated to savings due to the elim bore pit and well points	S (Please incl s ~740 ft short be ~220 ft an ination of the to avoid flood	lude any addi ter than the c id ~180 ft res engineered p ding of the bo	tional impacts wh current centerline. pectively. The boi it on north side is re pit.	ich may affect cost The bore lengths for re length at the pro	; crossings, inductor South Dakota Sposed location of l	ion bends, etc.): tate Railroad an -90 is estimated sed on a cost fo	: d Hwy 16 at the proposed
ADDITIONAL IMPACT The proposed reroute is ocation is estimated to savings due to the elim pore pit and well points	S (Please incl s ~740 ft short be ~220 ft an ination of the to avoid flood	lude any addi ter than the c id ~180 ft res engineered p ding of the bo	tional impacts wh current centerline. pectively. The boi it on north side is re pit.	ich may affect cost The bore lengths for re length at the pro	c crossings, inductor South Dakota S crossed location of I to be \$180,000 ba	ion bends, etc.): tate Railroad an -90 is estimated sed on a cost fo	: d Hwy 16 at the proposed I to be ~360 ft long. The co or shoring of the trench for t
ADDITIONAL IMPACT The proposed reroute is ocation is estimated to savings due to the elim pore pit and well points s there an increase/dec	S (Please incl s ~740 ft short be ~220 ft an ination of the c to avoid flood	lude any addi ter than the o d ~180 ft res engineered p ling of the bo	tional impacts wh urrent centerline. pectively. The bor it on north side is re pit.	ich may affect cost The bore lengths for re length at the pro roughly estimated	c crossings, inductor South Dakota S crossed location of I to be \$180,000 ba	ion bends, etc.): tate Railroad an -90 is estimated sed on a cost fo	: d Hwy 16 at the proposed I to be ~360 ft long. The co or shoring of the trench for t
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KEYSTONE XL PIPELINE PROJECT PHASE II PIPELINE ROUTE VARIATION FORM

4 LAND / UNIVERSAL FIELD Doug Reid	chley				
a) Is a new landowner affected by proposed va		Yes	X	No	
b) Is proposed realignment outside the easeme		Yes	X	No No	
c) Is realignment proposed to satisfy landowner		Yes		No No	X
		163		140	
-If yes, name of landowner(s)/track number(s):	_			
d) Has all the evaluation criteria been examined	d/provided for this specific discipline?	Yes	X	No	
If no, please explain why:					
5	D. 140 iv.				
ENGINEERING/CONSTRUCTION / STATE PI	_		0.040		
a) Maximum deviation perpendicular to propose	· ·		2,640		
b) Has the centerline been staked for construct	ion?	Yes		No	X
c) Does route variation affect HDD crossing alig	gnment?	Yes		No	X
d) Is realignment proposed for engineering/con	struction reasons?	Yes	X	No	
e) Will the route variation require the relocation	of a pump station?	Yes		No	Х
f) Has all the evaluation criteria been examined	/provided for this specific discipline?	Yes	Х	No	
If no, please explain why:					
6					
ENVIRONMENTAL / TROW Jonathan					
a) Has the corridor been environmentally surve	yed?	Yes	X	No	
b) Has the proposed variation been environmen	ntally surveyed?	Yes		No	X
c) Was variation proposed to satisfy environme	ental issues?	Yes		No	Х
d) Was realignment proposed to satisfy agency	request?	Yes		No	Х
-If yes, name of agency(s):					
e) Environmental features:					
Added (+): Add 4 des	ktop wetlands	Subtracted (-):	2 wetlands		
710000 (7). 7100 1 000	mop wouldness	000000000000000000000000000000000000000	2 1100001100		
		_			
Wetland ID # for newly	· ·				
Wetland ID # for newly f) Has all the evaluation criteria been examined	· ·	Yes	X	No	
	· ·	Yes	X	No	
f) Has all the evaluation criteria been examined	· ·	Yes	X	No	
f) Has all the evaluation criteria been examined If no, please explain why: 7	/provided for this specific discipline?	Yes	X	No	
f) Has all the evaluation criteria been examined If no, please explain why: 7 ENGINEERING / FACILITIES AND HYDRAUL	/provided for this specific discipline? Neil Lewis		X		X
f) Has all the evaluation criteria been examined If no, please explain why: FIGURE IN THE INTERIOR OF THE IN	/provided for this specific discipline? Neil Lewis	Yes	X	No	X
f) Has all the evaluation criteria been examined If no, please explain why: The examined of	/provided for this specific discipline? LICS Neil Lewis of a pump station?	Yes Yes	X	No	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w	/provided for this specific discipline? LICS Neil Lewis of a pump station? atter crossing?	Yes Yes Yes		NoNo	
f) Has all the evaluation criteria been examined If no, please explain why: The examined of	/provided for this specific discipline? LICS Neil Lewis of a pump station? atter crossing?	Yes Yes	X	No	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w	/provided for this specific discipline? LICS Neil Lewis of a pump station? atter crossing?	Yes Yes Yes		NoNo	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w. d) Has all the evaluation criteria been examined If no, please explain why:	/provided for this specific discipline? LICS Neil Lewis of a pump station? atter crossing?	Yes Yes Yes		NoNo	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w d) Has all the evaluation criteria been examined If no, please explain why:	/provided for this specific discipline? LICS Neil Lewis of a pump station? atter crossing?	Yes Yes Yes		NoNo	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w d) Has all the evaluation criteria been examined If no, please explain why:	/provided for this specific discipline? LICS Neil Lewis of a pump station? ater crossing? d/provided for this specific discipline? Bud Andersen	Yes Yes Yes Yes		No No No No	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w. d) Has all the evaluation criteria been examined If no, please explain why: STAKEHOLDER RELATIONS / TCPL a) Does the variation result in any new stakeholder.	/provided for this specific discipline? LCS Neil Lewis of a pump station? ater crossing? d/provided for this specific discipline? Bud Andersen Iders?	Yes Yes Yes Yes		No No No No	Х
f) Has all the evaluation criteria been examined If no, please explain why: Table Table Table Table Table Table	/provided for this specific discipline? LICS Neil Lewis of a pump station? ater crossing? d/provided for this specific discipline? Bud Andersen Iders? cific stakeholder groups?	Yes Yes Yes Yes Yes		No No No No No	Х
f) Has all the evaluation criteria been examined If no, please explain why: ENGINEERING / FACILITIES AND HYDRAUL a) Will the route variation require the relocation b) Will route variation impact hydraulics? c) Are additional valves required at HCA's or w. d) Has all the evaluation criteria been examined If no, please explain why: STAKEHOLDER RELATIONS / TCPL a) Does the variation result in any new stakehod b) Does the variation require follow-up with spec.) Was the variation proposed to satisfy stakehod.	/provided for this specific discipline? LICS Neil Lewis of a pump station? ater crossing? d/provided for this specific discipline? Bud Andersen Iders? cific stakeholder groups?	Yes Yes Yes Yes		No No No No	Х
f) Has all the evaluation criteria been examined If no, please explain why: Table Table Table Table Table Table	/provided for this specific discipline? LICS Neil Lewis of a pump station? ater crossing? d/provided for this specific discipline? Bud Andersen Iders? cific stakeholder groups?	Yes Yes Yes Yes Yes		No No No No No	Х
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0167-SD-P2-509.6-513.3-S

KEYSTONE XL PIPELINE PROJECT PHASE II PIPELINE ROUTE VARIATION AUTHORIZATION FORM

	KEYSTONE 3		T PHASE - STEELE CITY S UTHORIZATION FORM	SEGMENT			
Date:	Hwy 16 and I-90 Relocation	/23/2010	Tracking Number: 0167-SD-P2-509.6-513.3-S MP: 509.6 to 513.3				
	,		Originated By: Variation Form Attached:	Engin	eering No		
Universal Fig	eld - Land	Doug Reichley	Variation: Approved Doug Reichley	X Reject	ted		
			If Rejected Why?				
State PM - C Comments:	onstruction / Eng.	David Guien	Variation: Approved David Guien	X Reject	ted26/2010		
comments.			If Rejected Why?	Date. 472	20/2010		
Trow - Envir		Jonathan Minton	Variation: Approved	X Reject			
Comments:	Requires bio and cultural	survey	Jonathan Minton If Rejected Why?	Date: 5/	5/2010		
Project Man	agement	Butch Wallace	Variation: Approved	X Reject	ed		
Comments:			R.E. Wallace If Rejected	Date:5/	4/2010		
			Why?				
Stakeholder	Relations	Bud Andersen	Variation: Approved	Reject	ed		
Comments:			Name?	Date:			
			If Rejected Why?				
Facilities:		Neil Lewis	Variation: Approved	X Reject	ed		
Comments:			Neil Lewis If Rejected	Date: 4/2	26/2010		
			Why?				
TransCanad	<u>a:</u>	Alan Lietz	Variation: Approved	XReject	ed		
Comments:			Alan Lietz If Rejected	Date: 5/	6/2010		
			Why?				
TransCanad	<u>a:</u>	Steve Hicks	Variation: Approved	X Reject	ed		
Comments:			Steve Hicks	Date: 5/	9/2010		
			If Rejected Why?				
Forward to:	Butch Wallace David Guien Doug Reichley	X Jonathan X Bud Ande X Neil Lewis	ersen X	Alan Lietz Steve Hicks	X		
	olution, if Required:	Yes	No	. Vos	No		
Comments:			Teleconference Required Decision:	d: Yes	IVU =		
Database -	?		Database - ?				
Filed By: Date:			Filed By:		-		
Fax to: ?			Fax to: ?				

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