## KEYSTONE XL PIPELINE PROJECT

PIPEL	STONE XL PIPELINE PROJECT LINE ROUTE VARIATION FORM		
/ARIATION TYPE: Refinement: Rerou	ute: X	Footprint: X	Design:
Centerline: X Pump Stati	on:	Valve Site: X	CAR: X
LOCATION: Sketch:		Pictures: N/A	
State: <u>SD</u> County: <u>Haakon</u>	-	Quad Map: N/A	11
Township:    03N    Range:    21E, 22E      Section:    12, 13, 18    Centerl	ine: 3/14/2012	Aerial Map: See attached map MP: 461.34	to 461.78
		WIF. 401.04	401.78
REASON FOR ROUTE VARIATION (Please include reason for	route variation):		
The primary reason for this reroute is to eliminate PI and straigh CL/workspaces away from an existing culvert (located south of		ill place MLV-19A on higher gro	und, move
The reroute has been proposed based on the field reconnaissan	nce emons.		
DETAIL ROUTE VARIATION (Please describe route variation in	n detail):		
Route variation starts near MP 461.3 and deviates ~17° east of 461.8. Along this section reroute eliminates 1 PI.	CL. The reroute extends in this dire	ction for ~2,276 ft and rejoins th	e current CL near MP
ADDITIONAL IMPACTS (Please include any additional impacts	; which may affect cost; crossings, ir	duction bends, etc.):	
No New Landowners are impacted by this route variation. Thre	e tracts are impacted by reroute:	duction bends, etc.):	
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4 LAND / TransCanada	Tina Hall		
a) Is a new landowner affected by the proposed variation?	Yes		No X
b) is the affected landowner/tract a possible condemnation?	Yes		No
c) Does proposed route variation impact Tribal Lands?	Yes		No X
d) Does proposed route variation impact any Federal/State L			No X
-If yes, name type (i.e. USFWS, BLM, etc.):	100		
e) Is proposed realignment outside the easement/workspace?	Yes	X I	No
f) Is realignment proposed to satisfy landowner request?	Yes	·	No <u>X</u>
-If yes, name of landowner(s)/track number(s	):		
g) Has all the evaluation criteria been examined/provided for this	specific discipline? Yes	i I	No
If no, please explain why:			
5 ENGINEERING/CONSTRUCTION - TransCanada	Meera Kothari		
a) Maximum deviation perpendicular to proposed alignment:		315 ft.	
b) Does variation (CL) (including workspaces) falls within 50	0 ft. MDEQ Corridor? Yes		No
	Yes		No X
c) Has the centerline been staked for construction?			
d) Does route variation affect HDD crossing alignment?	Yes		No <u>X</u>
e) Is realignment proposed for engineering/construction reasons			No
f) Will the route variation require the relocation of a pump station?			No <u>X</u>
g) Has all the evaluation criteria been examined/provided for this	specific discipline? Yes	i I	No
If no, please explain why:			
6 ENVIRONMENTAL / exp	Jonathan Minton		
a) Has the corridor been environmentally surveyed?	Yes	X	No
b) Has the proposed variation been environmentally surveyed?	Yes		No X
c) Does proposed route variation impact Sage Grouse areas			No X
d) Does route variation impact ABB areas?	Yes		No X
e) Was variation proposed to satisfy environmental issues?	Yes		No X
f) Was realignment proposed to satisfy environmental issues?	Yes		No X
i) was realignment proposed to satisfy agency request:	163	·	
-If yes, name of agency(s):			
g) Environmental features:			
5,			
	Subtracted (-):		
Added (+):	Subtracted (-):		
	Subtracted (-):		
	Subtracted (-):		
Added (+):			
Added (+):	s:		
Added (+): Wetland ID # for newly impacted wetland h) Has all the evaluation criteria been examined/provided for this	s:		No
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0286-SD-P4-461.3-461.8-I

## KEYSTONE XL PIPELINE PROJECT

KEYSTONE XL PIPELINE PROJECT ROUTE VARIATION AUTHORIZATION FORM 0286-SD-P4-461.3-461.8-I Date: 3/22/2012 Tracking Number: 0286-SD-P4-461.3-461.8-I MP: 461.3 to 461.8 Description: The primary reason for this reroute is to smooth out and shorten (eliminate 1 PI) the route through the area. Originated By: Engineering Variation Form Attached: Yes x No Variation: Approved × Rejected Tina Hall TransCanada - Land h Date: 4-16-12 Comments: If Rejected Why? Rejected 427-Der 122 TransCanada- Engineering Meera Kothari Variation: Approved 2 Comments: Date If Rejected Why? IV Exp - Engineering **Butch Wallace** Variation: Rejected rulling 4-17-2012 Date: Comments: If Rejected Why Variation: Approv Exp - Environmental Jonathan Minton Rejected Approved -11-17 Comments: fending Survey If Rejecte Why Stantec - Risk Assesment Heidi Tillquist Variation: Approved Rejected Comments: Date If Rejected Rejected Facilities - TransCanada Sandra Gigovic Variation: Approved Comments: Date: If Rejected Why? TransCanada - PM (Montana) Alan Lietz Variation: Approved Rejected Date: Comments: If Rejected Why? Rejected TransCanada - PM (South Dakota) James Odom Approv Variation: ntted Date: May 23,2012 Comments If Rej Why TransCanada - PM (Nebraska) **Robert Bradley** Variation: Approved Rejected Date: Comments: If Rejecter Why Rejected TransCanada - Keystone XL Manager Steve Marr Variation: Slep Comments: A Date: Jun15/12 If Rejected Why Forward to: Tina Hall Meera Kothari Butch Wallace Jonathan Minton Heidi Tillquist Sandra Gigovic Alan Lietz James Odom Robert Bradley Steve Marr

