KEYSTONE XL PIPELINE PROJECT

		NE XL PIPELINE PROJECT ROUTE VARIATION FORM		
ARIATION TYPE: Refinement:	Reroute:	X	Footprint:	Design:
Centerline: X	Pump Station:		Valve Site:	CAR:
OCATION: Sketch			Pictures: N/A	
	ounty: Harding		Quad Map: N/A	_
	ange: (07E), 08E		Aerial Map: See attached	l map sheet
Section: (025, 036), 031	Centerline:	3/14/2012	MP: 346.46	to 346.81
EASON FOR ROUTE VARIATION (Pleas	e include reason for rou	te variation):		
he primary reason for this reroute is to avo rossing.		,	te also eliminates reclamation	n issues at the drainage
he reroute has been proposed based on th	ne field reconnaissance	effort.		
ETAIL ROUTE VARIATION (Please descr	ribe route variation in de	etail):		
Coute variation starts near MP 346.4 and de ffectively avoids paralleling the Little Cowb				
o New Landowners are impacted by this ro IL-SD-HA-13010.000 and ML-SD-13020.00 IL-SD-HA-02990.000 (Saundra Lafiin & Dv IL-SD-HA-03000.000 (Dale D. Horton AKA	oute variation. Four trad 00 (both tracts: State of vight A. Reedy) Darwin Horton AKA Da	cts are impacted by reroute: South Dakota) Ile Darwin Horton)	, induction bends, etc.):	
DDITIONAL IMPACTS (Please include an lo New Landowners are impacted by this ro 1L-SD-HA-13010.000 and ML-SD-13020.00 IL-SD-HA-02990.000 (Saundra Laflin & Dv 1L-SD-HA-03000.000 (Dale D. Horton AKA dditional Savings include Reclamation issu	oute variation. Four trad 00 (both tracts: State of vight A. Reedy) Darwin Horton AKA Da	cts are impacted by reroute: South Dakota) Ile Darwin Horton)	, induction bends, etc.):	
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Document Control Number: KXL10-00006-01-AA-180 (Form 1)

KEYSTONE XL PIPELINE PROJECT

4 LAND / TransCanada	Tina Hall		
a) Is a new landowner affected by the proposed variation?	Yes	No	Х
b) Is the affected landowner/tract a possible condemnation?	Yes		
c) Does proposed route variation impact Tribal Lands?	Yes		
d) Does proposed route variation impact any Federal/State L			
-If yes, name type (i.e. USFWS, BLM, etc.):	State of Sou	·	
e) is proposed realignment outside the easement/workspace?	Yes		
f) Is realignment proposed to satisfy landowner request?	Yes	No	<u> </u>
-If yes, name of landowner(s)/track number(s)			
g) Has all the evaluation criteria been examined/provided for this	specific discipline? Yes	No	
If no, please explain why:			
5 ENGINEERING/CONSTRUCTION - TransCanada	Meera Kothari		
a) Maximum deviation perpendicular to proposed alignment:		103 ft.	
b) Does variation (CL) (including workspaces) falls within 50) ft. MDEQ Corridor? Yes		
c) Has the centerline been staked for construction?	Yes		
d) Does route variation affect HDD crossing alignment?	Yes		<u> </u>
e) Is realignment proposed for engineering/construction reasons?			
f) Will the route variation require the relocation of a pump station?			<u> </u>
g) Has all the evaluation criteria been examined/provided for this	specific discipline? Yes	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			
d) Does route variation impact ABB areas?	Yes		
e) Was variation proposed to satisfy environmental issues?	Yes		
 f) Was realignment proposed to satisfy environmental issues? 	Yes		X
1) was realignment proposed to satisfy agency request?		NO	
-If yes, name of agency(s):			
g) Environmental features:			
Added (+):	Subtracted (-):		
Watland ID # for newly impacted watland	5		
Wetland ID # for newly impacted wetland		No	
h) Has all the evaluation criteria been examined/provided for this		No	
		No	
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0292-SD-P4-346.4-346.8-I

KEYSTONE XL PIPELINE PROJECT

Date: 3/29/2012 Description: The primary reason for this reroute is to avoid paralleling creek (Little Covkoy Creek). The reroute also eliminates reclamation issues at the drainage crossing.	Tracking Number: 0292-SD-P4-346.4-346.8-1 MP: 346.5 to 346.8 Originated By: Engineering Variation Form Attached: Yes X No
TransCanada - Land Tina Hall Comments:	Variation: Approved Rejected Date: 1-16-12 If Rejected Why?
TransCanada- Engineering Meera Kothari Comments:	Variation: Approved Rejected Date: 4200-22
Exp - Engineering Butch Wallace	Variation: Approved Rejected <u>LA Grand Constant</u> Date: <u>9-17-2012</u> If Rejected Why?
Exp-Environmental Jonathan Minton Comments: Peabling Eur Survey.	Variation: Approved Rejected Date: 0110 If Rejected Why?
Stantec - Risk Assesment Heidi Tillquist Comments:	Variation: Approved Rejected Date: If Rejected Why?
TransCanada - Facilities Sandra Gigovic Comments:	Variation: Approved Rejected Date: If Rejected Why?
TransCanada - PM (Montana) Alan Lietz Comments:	Variation: Approved Rejected Date: If Rejected Why?
TransCanada - PM (South Dakota) James Odom Comments:	Variation: Approved Rejected Date: If Rejected Why?
TransCanada - PM (Nebraska) Robert Bradley Comments:	Variation: Approved Rejected Date: If Rejected Why?
TransCanada - Keystone XL Manager Steve Marr Comments:	Variation: Approved Rejected Date: If Rejected Why?

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