

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

123
7,7,9

0216-XX-P2-XXX.X-XXX.X-S

KEYSTONE PHASE IV, US PIPELINE PROJECT - STEELE CITY SEGMENT PIPELINE ROUTE VARIATION FORM	
1	VARIATION TYPE: Refinement: <input type="text"/> Reroute: <input checked="" type="checkbox"/> X Centerline: <input checked="" type="checkbox"/> X Valve Site: <input type="text"/> Pump Station: <input type="text"/>
2	LOCATION: Sketch: <input type="text"/> Attached Pictures: <input type="text"/> See attached. State: <input type="text"/> SD, NE County: <input type="text"/> Multiple Quad Map: <input type="text"/> N/A Township: <input type="text"/> Multiple Range: <input type="text"/> Multiple Aerial Map: <input type="text"/> See attached map sheet Section: <input type="text"/> Multiple Centerline: <input type="text"/> 11/18/2010 MP: <input type="text"/> XXX.X to <input type="text"/> XXX.X
3	REASON FOR ROUTE VARIATION (Please include reason for route variation): This report consists of 3 proposed route variations. These route variations are proposed to avoid side slopes and side hills. The reason for the route variation is listed in the "Supplemental Info" tab. The route variations have been proposed based on a combination of Flyover video of Centerline, LIDAR data, Pictometry and other aerals as an effort to determine reroutes through SD and NE.
	DETAIL ROUTE VARIATION (Please describe route variation in detail): Listed in "Supplemental Info" Tab. No new landowners have been affected by the proposed route variations.
	ADDITIONAL IMPACTS (Please include any additional Impacts which may affect cost; crossings, induction bends, etc.): Listed in "Cost Analysis" Tab.
9	Originator: <input type="text"/> Engineering Date: <input type="text"/> 7/6/2011
10	Received by: _____ Date: <input type="text"/> 7/6/2011 Fax to: ?
11	Assigned Tracking Number: <input type="text"/> 0216-XX-P2-XXX.X-XXX.X-S
12	Filed by: _____ Date: <input type="text"/> Fax to: ?

Keystone Phase IV, US - Supplemental Information for Route Variation Report 0216

Prepared: 2011-07-06

RV ID	MP Start	MP End	State	County	Section	Township	Range	Original Length (ft)	Reroute Length (ft)	Change in Length (ft)	Max. Perp. Deviation (ft)	Reason for Variation	Brief Variation Description	Additional Impacts/Comments	Number of New Landowners impacted by reroute	Number of Landowners on current route impacted by reroute	Number of tracts purchased on original route.	Civil Survey Complete?	Civil Survey Needed (ft)	Moves Pump Station?	Moves Valve Site?	In Co-located Area?	Biological Survey Complete for Existing Corridor?	Cultural Survey Complete for Existing Corridor?	Biological Survey Complete for Proposed Corridor?	Cultural Survey Complete for Proposed Corridor?	Estimated Length Requiring new Environmental Surveys (ft)	Originator
0216-01	538.23	539.18	SD	Lyman	20, 21	103N	78W	5,027	4,351	-676	1142	To reroute C/L off side slope.	Route variation starts at MP 538.2 and deviates -30° southeast from C/L for -4,351 ft to rejoin the current C/L near MP 539.2.	- Entry/Exit point of White River needs to be shifted further south to avoid PI	0	1		NO	4,351	NO	NO	NO	Yes	Yes	No	No	4,351	Engineering
0216-02	540.75	543.28	SD	Tripp	33,34 03,10,11	103N 102N	78W	13,386	13,665	279	810	To reroute C/L off side hill; To avoid C/L running under field rd, shift out of field road.	Route variation starts at MP 540.8 and deviates -9.5° northeast for -3,826 ft. Then it turns slightly south almost paralleling the current C/L for -4,523 ft. Then it continues for - 4,760 paralleling an existing field road until it shifts east -555 ft. towards the current C/L to rejoin it near MP 543.3.	- Approximately -5626 ft. off sideslope construction eliminated.	0	1		NO	13,665	NO	NO	NO	Yes	Yes	No	No	13,665	Engineering
0216-03	711.80	712.92	NE	Greeley	9,16,15	19N	10W	5,905	5,967	62	558	To reroute to better location for road crossing to avoid side slopes.	Route variation starts at MP 711.8 and deviates -7.5° east of current C/L. It continues in this direction for -617 ft. Then turns southeast for -5,350 ft to rejoin the C/L near MP 712.9.	- Approximately -1680 ft. off sideslope construction eliminated.	0	2		NO	5,967	NO	NO	NO	Yes	Yes	No	No	5,967	Engineering

Keystone Phase IV, US - Cost Analysis for Route Variation Report 0216

Prepared: 2011-07-06

RV ID	Additional length (ft)	Cost \$360/ft	Additional length of wetland construction (ft)	Cost \$195/ft	Additional length of side hill construction (ft)	Cost \$19/ft	Additional bore length (ft)	Cost \$540/ft	Additional Waterbody crossings	Cost (\$77,250/EA btw 10' - 19') (\$32,500/EA < 10')	Cost of Environmental survey (\$5,300/mile)	Cost of Civil survey (\$5,000/mile)	Approximate cost for land purchased on current centerline	Miscellaneous cost for additional impacts	Total Cost
0216-01	-676	\$ (243,360.79)	0	\$ -	-676	\$ (12,844.00)	0	\$ -	0	\$ -	\$ 4,367.23	\$ 4,120.02	\$ -		\$ (247,717.54)
0216-02	279	\$ 100,280.32		\$ -	-5626	\$(106,894.00)	0	\$ -	0	\$ -	\$ 13,716.28	\$ 12,939.88	\$ -	\$ (100,000.00)	\$ (79,957.52)
0216-03	62	\$ 22,329.74	0	\$ -	-1680	\$ (31,920.00)	0	\$ -	0	\$ -	\$ 5,989.46	\$ 5,650.44	\$ -	\$ (20,000.00)	\$ (17,950.36)

Overall Estimated Costs of Routes Variations= \$ (345,625.42)

Keystone Phase IV, US - Approval form for Route Variation Report 0216

Prepared: 2011-07-06

RV ID		0216-01	0216-02	0216-03
LAND (UFS) Doug Riechley	Approval (Y/N)	Y	Y	Y
	Comments	- No Issues	- Landowner is difficult to deal with but will approve if compensated accordingly.	- Permit. No requirements on road crossing in Greeley County. - No Land Issues.
ENGINEERING (TransCanada) Meera Kothari / David Guien	Approval (Y/N)	Y	Y	Y
	Comments			
ENGINEERING (exp) Butch Wallace	Approval (Y/N)	Y	Y	Y
	Comments	Route Variation tweaked and reviewed by Engineering.		
CONSTRUCTION (TransCanada) Bobby Curbow	Approval (Y/N)	Y	Y	Y
	Comments			
ENVIRONMENTAL (exp) Jonathan Minton	Approval (Y/N)	Y	Y	Y
	Comments	- Requires additional Env. Survey	- Requires additional Env. Survey.	- Requires additional Env. Survey.
SAFETY (exp.) Jason Milenbruch	Approval (Y/N)	N/A	N/A	N/A
	Comments			
FACILITIES (TransCanada) Sandra Gigovic	Approval (Y/N)	N/A	N/A	N/A
	Comments			
PROJECT MANAGEMENT (TransCanada) Alan Lietz	Approval (Y/N)	Y	Y	Y
	Comments			
PROJECT MANAGEMENT (TransCanada) Steve Marr	Approval (Y/N)	Y - SM	Y - SM	Y - SM
	Comments	8/31/11	8/31/11	8/31/11

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230

KEYSTONE XL PIPELINE PROJECT - STEELE CITY SEGMENT PIPELINE ROUTE VARIATION FORM	
1	VARIATION TYPE: Refinement: <input type="text"/> Reroute: <input checked="" type="checkbox"/> X Centerline: <input checked="" type="checkbox"/> X Valve Site: <input checked="" type="checkbox"/> X Pump Station: <input type="text"/>
2	LOCATION: Sketch: <input type="text"/> Attached Pictures: <input type="text"/> See attached State: <input type="text"/> Multiple County: <input type="text"/> Multiple Quad Map: <input type="text"/> N/A Township: <input type="text"/> Multiple Range: <input type="text"/> Multiple Aerial Map: <input type="text"/> See attached map sheet Section: <input type="text"/> Multiple Centerline: <input type="text"/> 11/18/2010 MP: <input type="text"/> XXX.X to <input type="text"/> XXX.X
3	REASON FOR ROUTE VARIATION (Please include reason for route variation): The Reason for each Route Variation (RV) is given with the respective RV file. These reroutes are proposed based on aerial/pictometry/Lydar/flyover analysis of current line through Montana, South Dakota, and Nebraska.
	DETAIL ROUTE VARIATION (Please describe route variation in detail): See respective Route Variation Files. No new landowners were affected by the proposed route variations. RVs included: Discussed prior to 6/20/2011: Western Prairie Fringe Orchid Reroute (RV-0194) John Harter Reroute (RV-0195) Buzek Reroute (RV-0197) Discussed during 6/20/2011 Meeting: Reroute away from sidehill (SOM Land) (RV-0209) Discussed during 6/21/2011 Meeting: Reroutes to avoid creek Crossings (RV-0199) MP 475 Reroute (RV-0200) Reroutes to lessen/reduce PIs (RV-0213) Reroutes to avoid waterwell; fence (RV-0214) Reroutes to avoid creeks, dropoffs, wetlands, etc. (RV-0215) Reroutes to avoid sideslopes/hills (RV-0216) Reroutes to avoid pivot centers (RV-0217) Discussed during 8/10/2011 Meeting: HWY 73 Reroute (RV-0196) HWY 56 Reroute (RV-0219) Bad River HDD realignment reroute (RV-0220) MP 396 Reroute (RV-0224) Yellowstone River HDD Entry Pt (RV-0227) PI Breakdowns of all previous RV's for new CL (RV-0228 and RV-0229) CK-MLV-06 and CK-11 Valves relocation (RV-0230)
	ADDITIONAL IMPACTS (Please include any additional impacts which may affect cost; crossings, induction bends, etc.): <div style="border: 1px solid black; height: 40px; width: 100%;"></div>
	Is there an increase/decrease in the number of crossings? Yes <input type="text"/> No <input type="text"/> If yes, please list: <input type="text"/> <input type="text"/>
9	Originator: <input type="text"/> Multiple Date: <input type="text"/> 8/12/2011
10	Received by: <input type="text"/> Date: <input type="text"/> 8/12/2011 Fax to: ?
11	Assigned Tracking Number: <input type="text"/> RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230
12	Filed by: <input type="text"/> Date: <input type="text"/> Fax to: ?

RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT) ROUTE VARIATION AUTHORIZATION FORM			
Date:	8/12/2011	Tracking Number:	RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230
Description:	Western Prairie Fringe Orchid Reroute (RV-0194) John Harter Reroute (RV-0195) Buzek Reroute (RV-0197) Reroute away from sidehill (SOM Land) (RV-0209)	MP: XXXX to XXXX	Originated By: Multiple
Universal Field - Land	Doug Reichley	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Variation Form Attached: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Comments:	<i>Pending civil survey</i>	Date: 6/20, 6/21, & 8/10/11	If Rejected Why? <i>By S. King 10/5/11</i>
TransCanada - Engineering	Meera Kothari	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:	and by David Gulen on the 6/20 and 6/21 meetings.	If Rejected Why?	
Exp - Engineering	Butch Wallace	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:		If Rejected Why?	
TransCanada - Construction	Bobby Curbow	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:		If Rejected Why?	
Exp - Environmental	Jonathan Minton	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:		If Rejected Why?	
AECOM - Risk Assessment	Heidi Tillquist	Variation: Approved <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: _____
Comments:	N/A.	If Rejected Why?	
Facilities	Sandra Gigovic	Variation: Approved <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: _____
Comments:	N/A. Does not affect Facilities.	If Rejected Why?	
TransCanada - PM (NE)	Robert Bradley	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 8/10/2011
Comments:		If Rejected Why?	
TransCanada - Senior PM	Alan Lietz	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:	<i>Confidential approvals pending appropriate Regulatory approvals</i>	If Rejected Why?	
TransCanada - Manager	Steve Marr	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 8/9/11
Comments:		If Rejected Why?	
Forward to:	Doug Reichley <input checked="" type="checkbox"/> Meera Kothari <input checked="" type="checkbox"/> Butch Wallace <input checked="" type="checkbox"/> Bobby Curbow <input checked="" type="checkbox"/>	Jonathan Minton <input checked="" type="checkbox"/> Heidi Tillquist <input checked="" type="checkbox"/> Robert Bradley <input checked="" type="checkbox"/> Sandra Gigovic <input type="checkbox"/>	Alan Lietz <input checked="" type="checkbox"/> Steve Marr <input checked="" type="checkbox"/>

RV-0194-0197, RV-0199-0200, RV-0209, RV-0213-0217, RV-0219-0220, RV-0224, RV-0227-0230

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

KEYSTONE XL PIPELINE PROJECT - STEELE CITY SEGMENT
PIPELINE ROUTE VARIATION FORM

1 **VARIATION TYPE:** Refinement: Reroute: X
Centerline: X Valve Site: X Pump Station:

2 **LOCATION:** Sketch: Attached Pictures: See attached
State: Multiple County: Multiple Quad Map: N/A
Township: Multiple Range: Multiple Aerial Map: See attached map sheet
Section: Multiple Centerline: 11/18/2010 MP: XXX.X to XXX.X

3 **REASON FOR ROUTE VARIATION** (Please include reason for route variation):
The Reason for each Route Variation (RV) is given with the respective RV file.
These reroutes are proposed based on aerial/pictometry/Lydar/flyover analysis of current line through Montana, South Dakota, and Nebraska.

DETAIL ROUTE VARIATION (Please describe route variation in detail):
See respective Route Variation Files. No new landowners were affected by the proposed route variations.
RVs included:
Discussed prior to 6/20/2011:
Western Prairie Fringe Orchld Reroute (RV-0194)
John Harter Reroute (RV-0195)
Buzek Reroute (RV-0197)
Discussed during 6/20/2011 Meeting:
Reroute away from sidehill (SOM Land) (RV-0209)
Discussed during 6/21/2011 Meeting:
Reroutes to avoid creek Crossings (RV-0199)
MP 475 Reroute (RV-0200)
Reroutes to lessen/reduce PIs (RV-0213)
Reroutes to avoid waterwell; fence (RV-0214)
Reroutes to avoid creeks, dropoffs, wetlands, etc. (RV-0215)
Reroutes to avoid sideslopes/hills (RV-0216)
Reroutes to avoid pivot centers (RV-0217)

ADDITIONAL IMPACTS (Please include any additional impacts which may affect cost; crossings, induction bends, etc.):

Is there an Increase/decrease in the number of crossings? Yes No
If yes, please list:

9 Originator: Multiple
Date: 8/12/2011

10 Received by:
Date: 8/12/2011
Fax to: ?

11 Assigned Tracking Number: RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

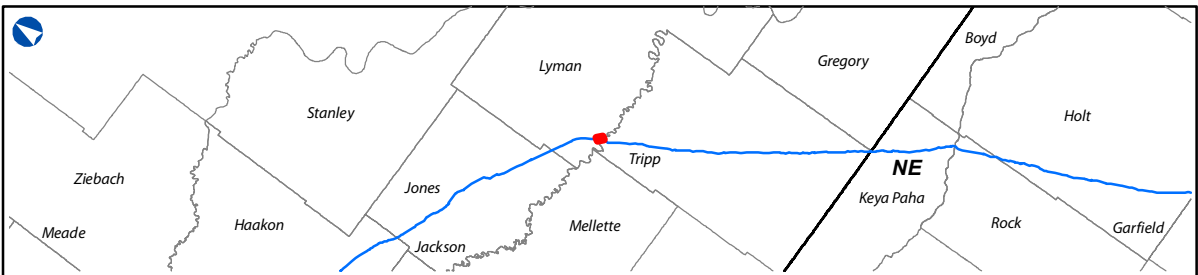
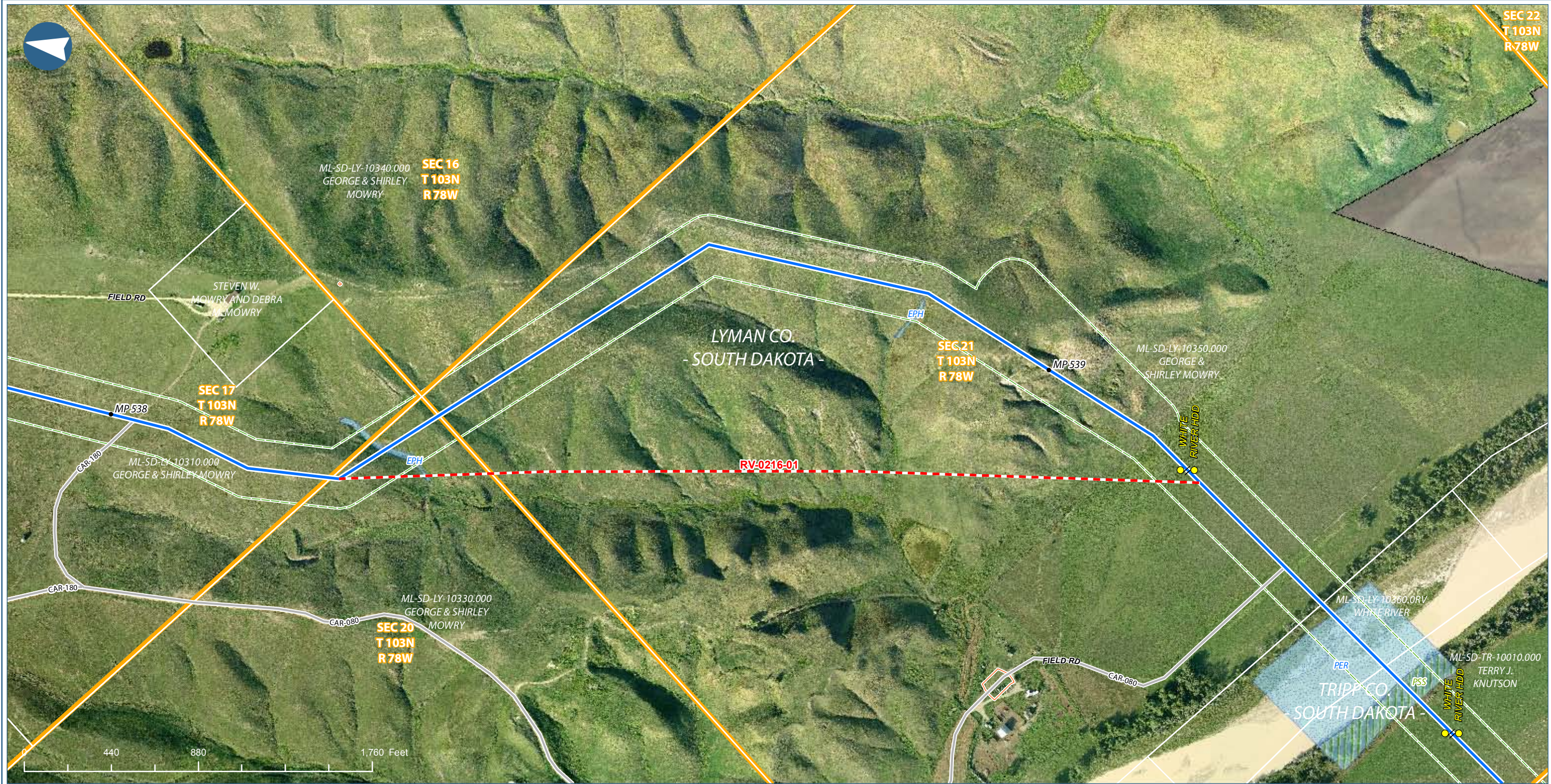
12 Filed by:
Date:
Fax to: ?

RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT)

KEYSTONE PIPELINE PROJECT - U.S. PHASE IV (STEELE CITY SEGMENT) ROUTE VARIATION AUTHORIZATION FORM		
Date: 8/12/2011	Tracking Number: RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217	MP: XXX.X to XXX.X
Description: Western Prairie Fringe Orchid Reroute (RV-0194); John Harter Reroute (RV-0195); Buzek Reroute (RV-0197); Reroute away from sidehill (SOM Land) (RV-0209); Reroutes to avoid creek crossings (RV-0199); MP 475 Reroute (RV-0200); Reroutes to lessen/produce PIs (RV-0213); Reroutes to avoid waterwell, fence (RV-0214);	Originated By: Multiple	Variation Form Attached: Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>
Universal Field - Land Doug Reichley	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments: <i>Pending Survey</i>	If Rejected Why? <i>By G. Fij 10/5/11</i>	
TransCanada - Engineering Meera Kothari	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments: and by David Gulen on the 6/20 and 6/21 meetings. <i>for meera Kothari.</i>	If Rejected Why?	
Exp - Engineering Butch Wallace	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:	If Rejected Why?	
TransCanada - Construction Bobby Curbow	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:	If Rejected Why?	
Exp - Environmental Jonathan Minton	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments: <i>Pending Survey Completion</i>	If Rejected Why?	
TransCanada - Environmental Stephen Craycroft	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments:	If Rejected Why?	
Facilities: Sandra Gigovic	Variation: Approved <input type="checkbox"/> N/A <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date:
Comments: N/A. Does not affect Facilities.	If Rejected Why?	
AECOM - Risk Assessment Heidi Tillquist	Variation: Approved <input type="checkbox"/> Rejected <input type="checkbox"/>	Date:
Comments: N/A	If Rejected Why?	
TransCanada - Senior PM Alan Lietz	Variation: Approved <input checked="" type="checkbox"/> Rejected <input type="checkbox"/>	Date: 6/20, 6/21, & 8/10/11
Comments: <i>Conditional approval pending approval of regulatory approval</i>	If Rejected Why?	
TransCanada - Manager Steve Marr	Variation: Approved <input type="checkbox"/> Rejected <input type="checkbox"/>	Date:
Comments:	If Rejected Why?	
Forward to:	Doug Reichley <input checked="" type="checkbox"/> Jonathan Minton <input checked="" type="checkbox"/> Alan Lietz <input checked="" type="checkbox"/>	Meera Kothari <input checked="" type="checkbox"/> Stephen Craycroft <input checked="" type="checkbox"/> Steve Marr <input checked="" type="checkbox"/>
	Butch Wallace <input checked="" type="checkbox"/> Heidi Tillquist <input checked="" type="checkbox"/>	
	Bobby Curbow <input checked="" type="checkbox"/> Sandra Gigovic <input type="checkbox"/>	

RV-0194, 0195, 0197, RV-0199-0200, RV-0209, RV-0213-0217



LEGEND

●	MILEPOST		300 FT CORRIDOR
	PHASE IV CL (2010-11-18)		PROPERTY PARCEL
	PROPOSED ROUTE VARIATION		CULTURAL SITE
	SECTION LINE		WETLAND
	ACCESS ROAD		WATERBODY
	PUMP STATION		HORIZONTAL DIRECTIONAL DRILL
	VALVE SITE		

Keystone Phase IV, US
Proposed Route Variation 0216-01

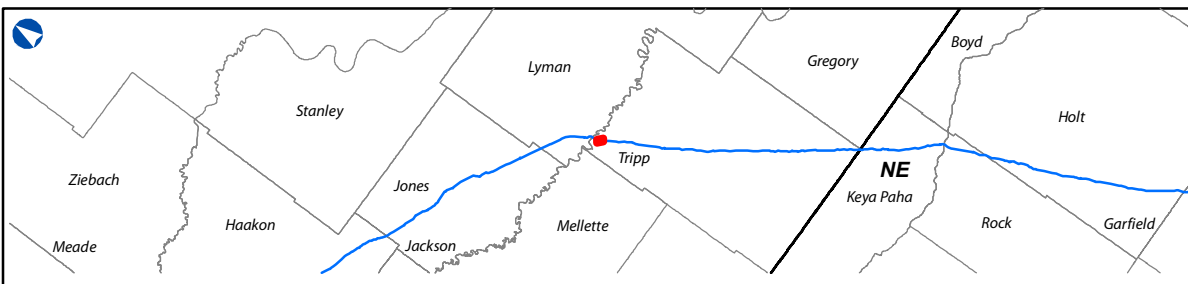
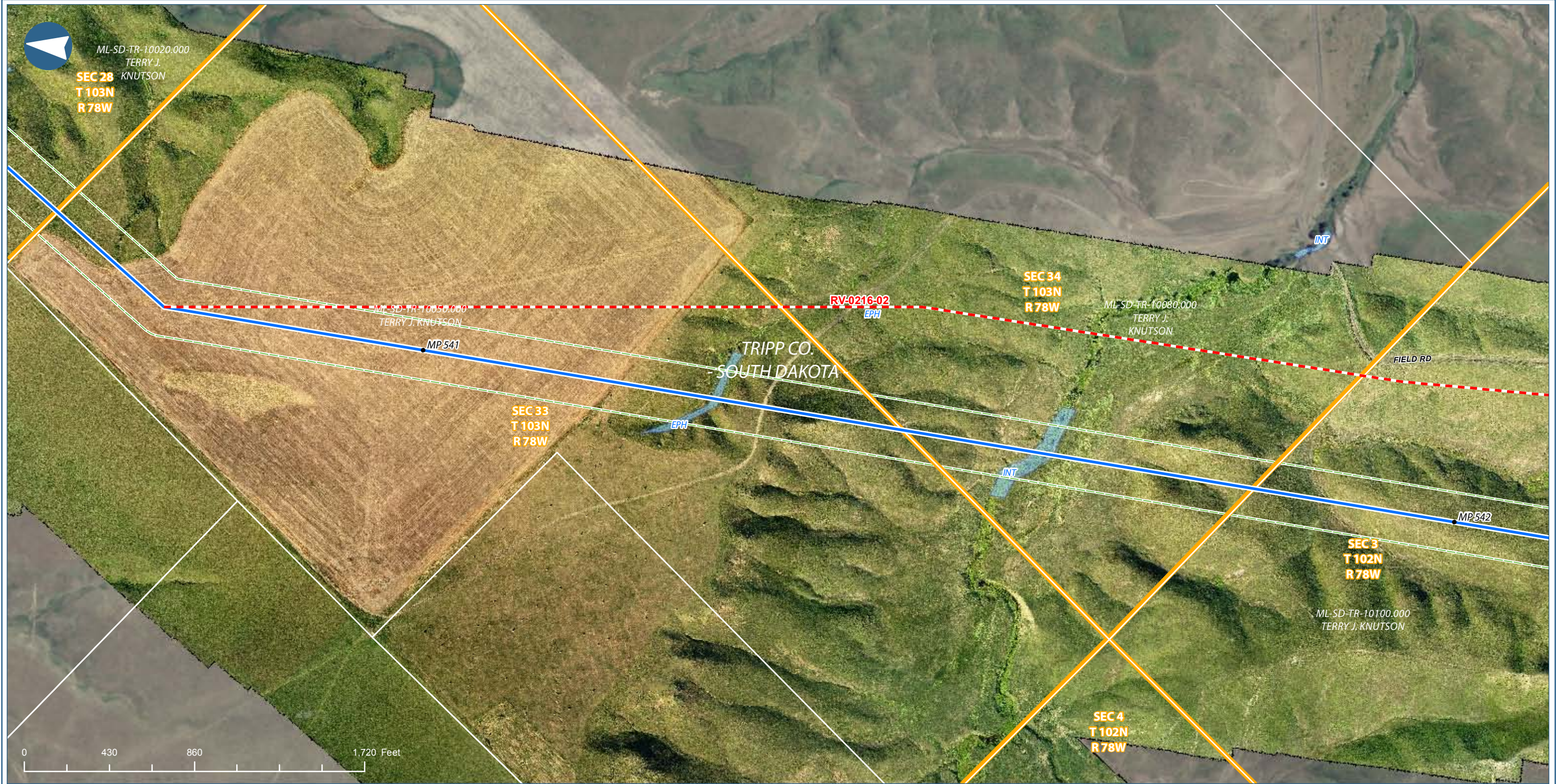
COUNTY:	LYMAN	DRAWN BY:	PD
STATE:	SD	CHECKED BY:	JP
SHEET:	1 OF 1	APPROVED BY:	RG
RV FULL:	0216-XX-P2-XXX.X-XXX.X-S		
REVISION			DATE
PRELIMINARY			
PROJECT:	THES0050388X	DWG:	XL-00-P-9178
DATE:	2011-06-27	REV. NO.:	0

PREPARED BY:
exp Energy Services Inc.
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1300 Metropolitan Blvd.
Tallahassee, FL 32308
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www.exp.com

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PROPOSED ROUTE VARIATION 0216-02



LEGEND

●	MILEPOST		300 FT CORRIDOR
	PHASE IV CL (2010-11-18)		PROPERTY PARCEL
	PROPOSED ROUTE VARIATION		CULTURAL SITE
	SECTION LINE		WETLAND
	ACCESS ROAD		WATERBODY
	PUMP STATION		HORIZONTAL DIRECTIONAL DRILL
	VALVE SITE		

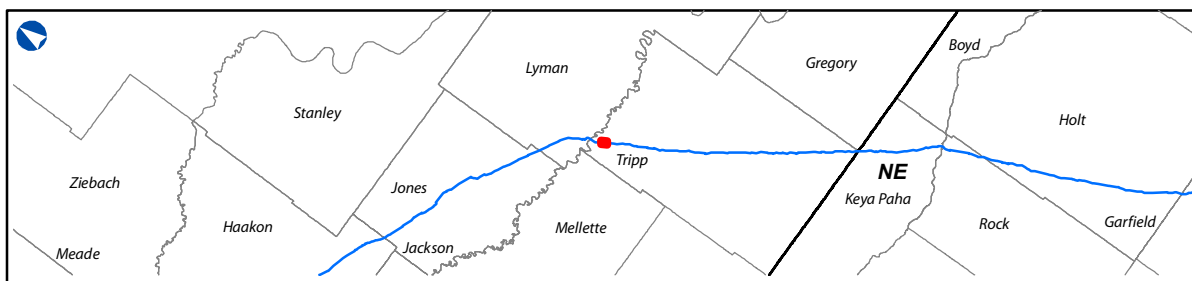
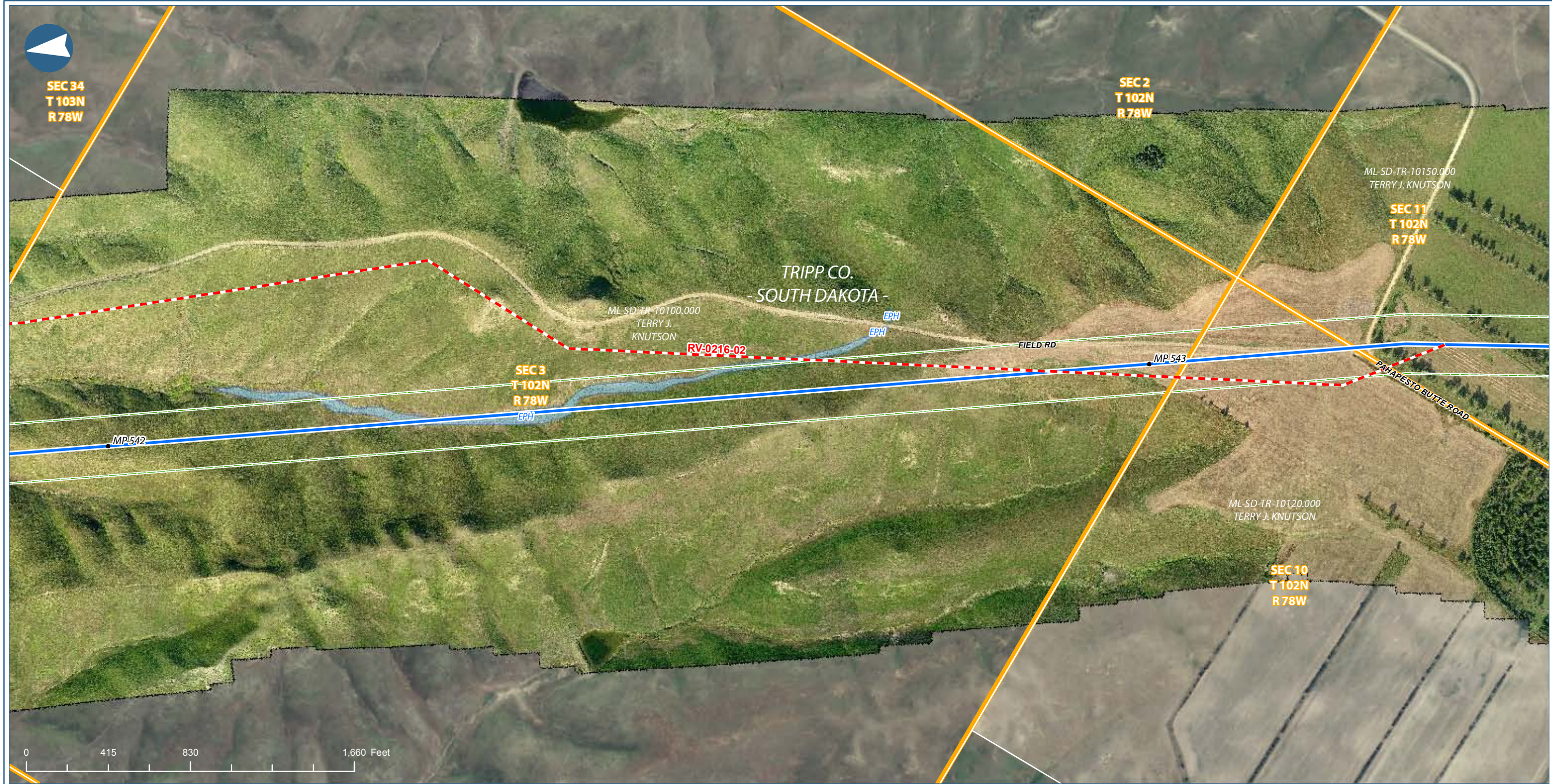
Keystone Phase IV, US
Proposed Route Variation 0216-02

COUNTY:	TRIPP	DRAWN BY:	PD
STATE:	SD	CHECKED BY:	JP
SHEET:	1 OF 2	APPROVED BY:	RG
RV FULL:	0216-XX-P2-XXX.X-XXX.X-S		
REVISION			DATE
PRELIMINARY			
PROJECT:	THES0050388X	DWG:	XL-00-P-9178
DATE:	2011-06-27	REV. NO.:	0

PREPARED BY:
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LEGEND

●	MILEPOST		300 FT CORRIDOR
	PHASE IV CL (2010-11-18)		PROPERTY PARCEL
	PROPOSED ROUTE VARIATION		CULTURAL SITE
	SECTION LINE		WETLAND
	ACCESS ROAD		WATERBODY
	PUMP STATION		HORIZONTAL DIRECTIONAL DRILL
	VALVE SITE		

Keystone Phase IV, US
Proposed Route Variation 0216-02

COUNTY:	TRIPP	DRAWN BY:	PD
STATE:	SD	CHECKED BY:	JP
SHEET:	2 OF 2	APPROVED BY:	RG
RV FULL:	0216-XX-P2-XXX.X-XXX.X-S		
REVISION			DATE
PRELIMINARY			
PROJECT:	THES0050388X	DWG:	XL-00-P-9178
DATE:	2011-06-27	REV. NO.:	0

PREPARED BY:
exp Energy Services Inc.
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