

**STATE OF UTAH**  
DEPARTMENT OF NATURAL RESOURCES  
DIVISION OF OIL, GAS AND MINING

FORM 3

AMENDED REPORT

<b>APPLICATION FOR PERMIT TO DRILL</b>						1. WELL NAME and NUMBER TOPAZ 1411-16D				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT WILDCAT				
4. TYPE OF WELL Oil Well      Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ST UT ML 52543			11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input checked="" type="checkbox"/> DIRECTIONAL <input type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		660 FNL 660 FWL		NWNW	16	14.0 S	11.0 E	S		
Top of Uppermost Producing Zone		660 FNL 660 FWL		NWNW	16	14.0 S	11.0 E	S		
At Total Depth		660 FNL 660 FWL		NWNW	16	14.0 S	11.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 660			23. NUMBER OF ACRES IN DRILLING UNIT 640				
27. ELEVATION - GROUND LEVEL 5725			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completion) 274			26. PROPOSED DEPTH MD: 7045 TVD: 7045				
			28. BOND NUMBER 22013542			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Municipal				
<b>Hole, Casing, and Cement Information</b>										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	17.5	13.375	0 - 300	48.0	H-40 ST&C	8.4	Type V	250	1.15	15.8
							Class G	0	1.15	15.8
I1	12.25	9.625	0 - 2600	36.0	J-55 LT&C	8.4	Premium Lite High Strength	390	3.38	12.5
							50/50 Poz	280	1.31	14.3
Prod	8.75	7	0 - 7045	29.0	HCP-110 LT&C	12.0	Premium Lite High Strength	200	3.38	12.5
							50/50 Poz	520	1.31	14.3
<b>ATTACHMENTS</b>										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Cara Mahler			TITLE Regulatory Analyst I			PHONE 720 929-6029				
SIGNATURE			DATE 10/03/2013			EMAIL cara.mahler@anadarko.com				
API NUMBER ASSIGNED 43047540330000					APPROVAL					

**Received: October 03, 2013**

**Kerr-McGee Oil & Gas Onshore. L.P.**

**TOPAZ 1411-16D**

Surface: 660 FNL / 660 FWL      NWNW  
 BHL: 660 FNL / 660 FWL      NWNW

Section 16 T14S R11E

Carbon County, Utah  
 Mineral Lease: ST UT ML 52543

**DRILLING PROGRAM**

1. & 2. **Estimated Tops of Important Geologic Markers:**  
**Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Mancos	0 - Surface	
Ferron Sandstone	1,224'	Gas
Tununk	1,524'	
Dakota	1,704'	Gas
Morrison	2,524'	Gas
Curtis	3,384'	
Entrada	3,524'	GAS
Navajo	4,624'	WATER
Kayenta	5,094'	GAS
Wingate	5,144'	GAS
Chinle	5,524'	
Moenkopi	5,584'	OIL
Sinbad	6,474'	
Kalbar	7,044'	
TD	7,045'	
TD	7,045'	



3. **Pressure Control Equipment (Schematic Attached)**

Please refer to the attached Drilling Program

4. **Proposed Casing & Cementing Program:**

Please refer to the attached Drilling Program

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program

6. **Evaluation Program:**

Please refer to the attached Drilling Program

7. **Abnormal Conditions:**

Maximum anticipated bottom hole pressure calculated at 7045' TVD, approximately equals  
 4,297 psi (0.61 psi/ft = actual bottomhole gradient)

Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD

Maximum anticipated surface pressure equals approximately 2,766 psi (bottom hole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

Per Onshore Order No. 2 - Max Anticipated Surf. Press.(MASP) = (Pore Pressure at next csg point- (0.22 psi/ft-partial evac gradient x TVD of next csg point))

8. **Anticipated Starting Dates:**

Drilling is planned to commence immediately upon approval of this application.

9. **Variations:**

None

10. **Other Information:**

Please refer to the attached Drilling Program.

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**Returned Unapproved**





**KERR-McGEE OIL & GAS ONSHORE LP**  
**DRILLING PROGRAM**

**CASING PROGRAM**

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
								LTC
CONDUCTOR	20"	0-40'						
SURFACE	13-3/8"	0 to 300	48.00	H-40	LTC	1730	740	322000
INTERMEDIATE	9-5/8"	0 to 2,600	36.00	IJ-55	LTC	3520	2020	453000
PRODUCTION	7"	0 to 7,045	29.00	HCP-110	DQX	9960	7800	693000

**Surface Casing:**

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe  
 Fracture at surface shoe with 0.1 psi/ft gas gradient above  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**Production casing:**

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.61 psi/ft = bottomhole gradient  
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing\*Buoy.Fact. of water)

**CEMENT PROGRAM**

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	TAIL	300'	Premium cmt + 2% CaCl + 0.25 pps flocele	250	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl			15.80	1.15
INTERMEDIATE	LEAD	2,100'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	390	35%	12.50	3.38
	TAIL	500'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	280	35%	14.30	1.31
PRODUCTION	LEAD	3,745'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	200	35%	12.50	3.38
	TAIL	3,300'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	520	35%	14.30	1.31

\*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained  
 \*Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

**FLOAT EQUIPMENT & CENTRALIZERS**

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
INTERMEDIATE	Float shoe, 1 jt, float collar. A centralizer on the first 3 joints off bottom and every joint thereafter up to the 2nd joint within the surface shoe.
PRODUCTION	Float shoe, 1 jt, float collar. A centralizer on the first 3 joints off bottom and every joint thereafter up to the 2nd joint within the surface shoe.

**ADDITIONAL INFORMATION**

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.

BOPE: 11" 5M with one annular and 2 rams. The BOPE will be installed before the production hole is drilled and tested to 5,000 psi (annular to 2,500 psi) prior to drilling out the surface casing shoe. Record on chart recorder and tour sheet. Function test rams on each trip. Maintain safety valve and inside BOP on rig floor at all times. Most rigs have top drives; however, if used, the Kelly is to be equipped with upper and lower kelly valves.

Surveys will be taken at 1,000' minimum intervals.

Most rigs have PVT System for mud monitoring. If no PVT is available, visual monitoring will be utilized.

If extreme mud losses are observed OR cement doesn't reach surface on a well on the pad, a DV Tool may be used. With Cement Baskets above and Below it.

**DRILLING ENGINEER:**

Nick Spence / John Tuckwiller / Danny Showers

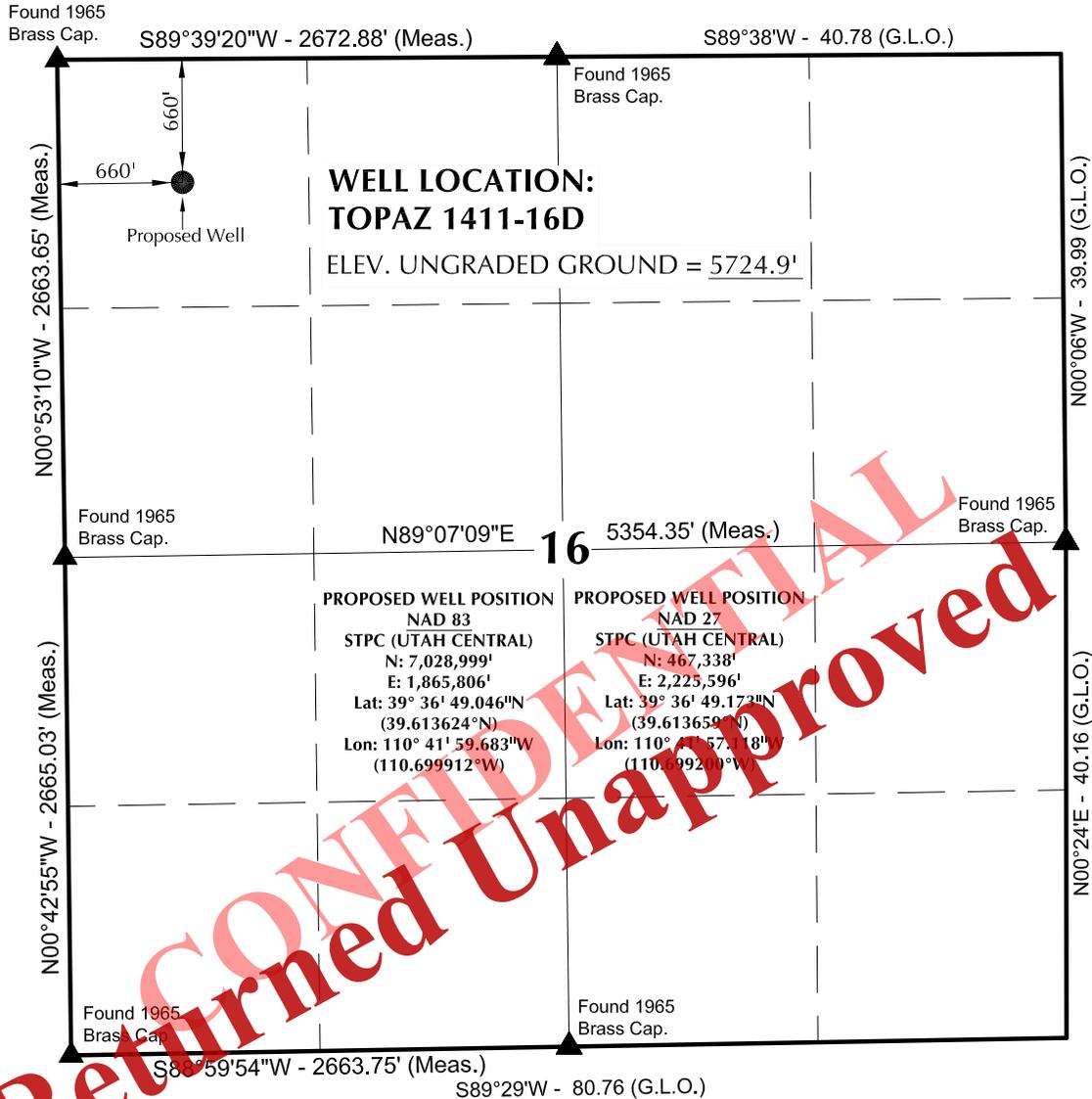
**DATE:**

**DRILLING SUPERINTENDENT:**

Lovel Young

**DATE:**

# T14S, R11E, S.L.B.&M.



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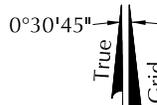
**NOTES:**

- ▲ = Section Corner Located
- △ = Section Corner Located (Not Monumented)
- 1. Well footages are measured at right angles to the Section Lines.
- 2. Elevations Based on NAVD 88 (GEOID12A)
- 3. Basis of Bearings Derived From Utah Coordinate System 1983 Central Zone Unless Otherwise Noted.
- 4. All Measured Distances Are Grid, U.S. Survey Foot. Combined Scale Factor: 0.99964098

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - TOPAZ 1411-16D**

**TOPAZ 1411-16D  
 WELL PLAT  
 660' FNL & 660' FWL  
 NW ¼ NW ¼ OF SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH.**



**609 CONSULTING, LLC**  
 2155 North Main Street  
 Sheridan, WY 82801  
 Phone 307-674-0609  
 Fax 307-674-0182



SCALE

**SURVEYOR'S CERTIFICATE**

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF.

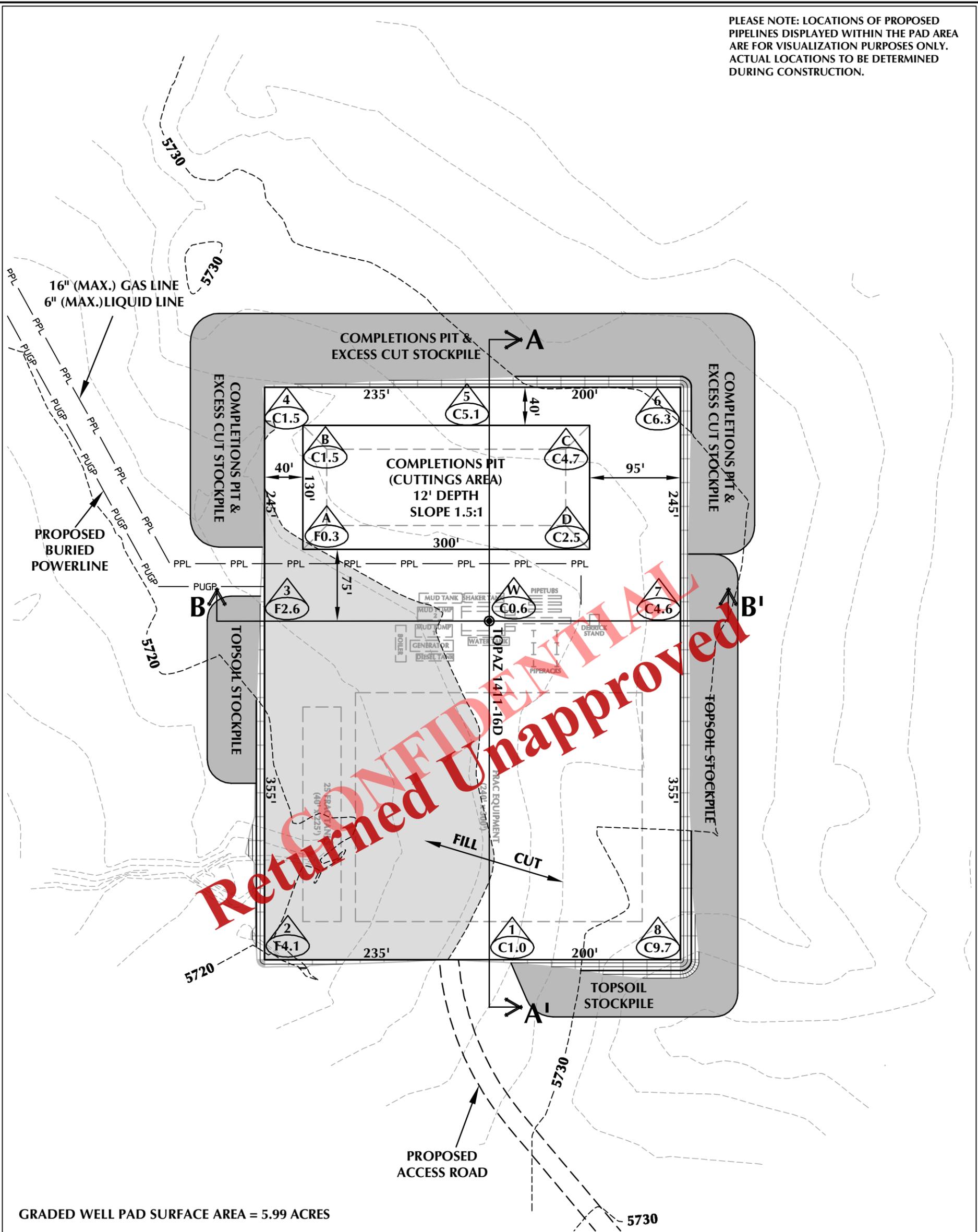
No. 6028691  
**JOHN R. LAUGH**  
 PROFESSIONAL LAND SURVEYOR  
 REGISTRATION No. 6028691  
 STATE OF UTAH

**TIMBERLINE**

ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 8-5-13	SURVEYED BY: J.W.	SHEET NO: <b>1</b> 1 OF 11
DATE DRAWN: 8-6-13	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		Date Last Revised:

PLEASE NOTE: LOCATIONS OF PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.



GRADED WELL PAD SURFACE AREA = 5.99 ACRES

**WELL PAD - TOPAZ 1411-16D DESIGN SUMMARY**

EXISTING GRADE @ CENTER OF WELL PAD = 5724.9'  
 FINISHED GRADE ELEVATION = 5724.3'  
 CUT SLOPES = 2:1  
 FILL SLOPES = 2:1  
 TOTAL WELL PAD AREA = 6.42 ACRES  
 TOTAL DISTURBANCE AREA = 8.86 ACRES  
 SHRINKAGE FACTOR = 1.10  
 SWELL FACTOR = 1.00

**WELL PAD QUANTITIES**

TOTAL CUT FOR WELL PAD = 16,922 C.Y.  
 TOTAL FILL FOR WELL PAD = 10,218 C.Y.  
 TOPSOIL @ 6" DEPTH = 5,175 C.Y.  
 EXCESS MATERIAL = 6,704 C.Y.

**COMPLETIONS PIT QUANTITIES**

TOTAL CUT FOR COMPLETIONS PIT +/- 14,090 C.Y.  
 COMPLETIONS PIT CAPACITY (2' OF FREEBOARD) +/- 54,310 BARRELS

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE
- PUGP - PROPOSED BURIED POWERLINE



HORIZONTAL 0 50' 100' 1" = 100'

2' CONTOURS

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

WELL PAD - TOPAZ 1411-16D

WELL PAD - LOCATION LAYOUT  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH



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 Fax 307-674-0182

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 209 NORTH 300 WEST - VERNAL, UTAH 84078

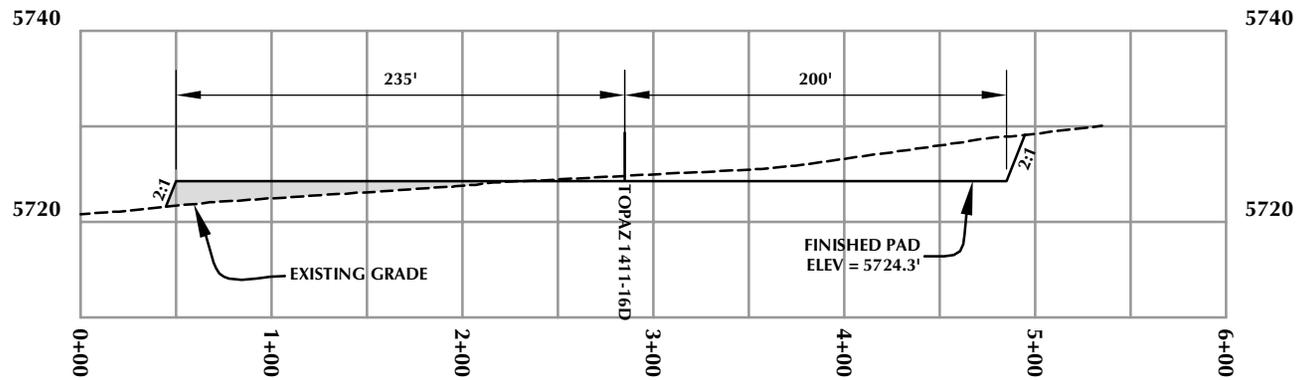
(435) 789-1365

SCALE: 1"=100' DATE: 8/13/13 SHEET NO:

REVISED: **2** 2 OF 11



**CROSS SECTION A-A'**



**CROSS SECTION B-B'**

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**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - TOPAZ 1411-16D**

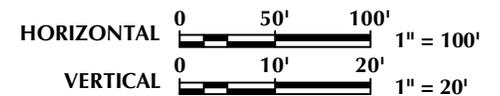
**WELL PAD - CROSS SECTIONS  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., Uintah County, Utah**



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 Sheridan, WY 82801  
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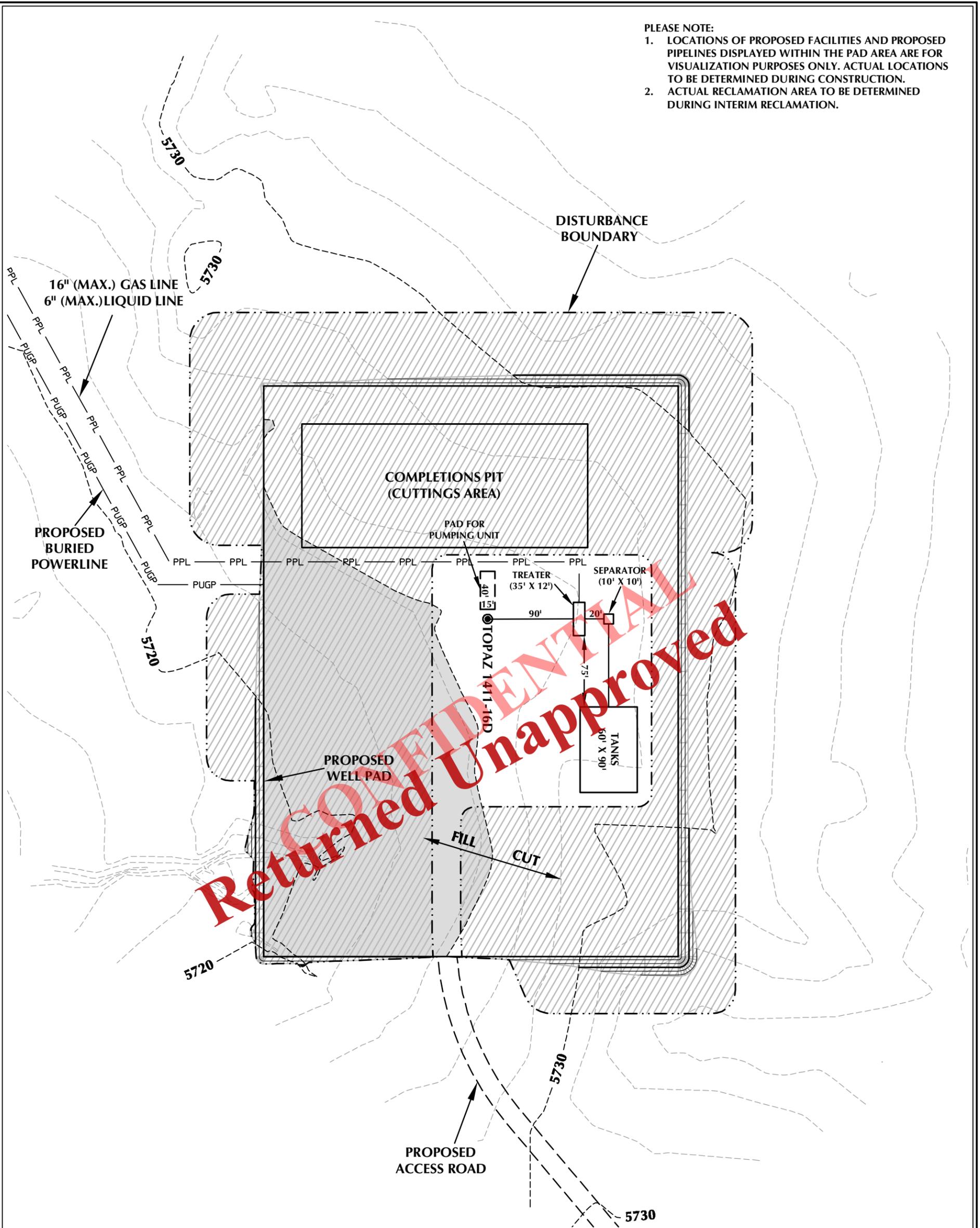
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REVISED:		3 OF 11

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**Received: September 20, 2013**

PLEASE NOTE:

1. LOCATIONS OF PROPOSED FACILITIES AND PROPOSED PIPELINES DISPLAYED WITHIN THE PAD AREA ARE FOR VISUALIZATION PURPOSES ONLY. ACTUAL LOCATIONS TO BE DETERMINED DURING CONSTRUCTION.
2. ACTUAL RECLAMATION AREA TO BE DETERMINED DURING INTERIM RECLAMATION.



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**WELL PAD - TOPAZ 1411-16D RECLAMATION DESIGN SUMMARY**

TOTAL DISTURBANCE AREA = 8.86 ACRES  
 RECLAMATION AREA = 7.35 ACRES  
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.51 ACRES

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

WELL PAD - TOPAZ 1411-16D

WELL PAD - RECLAMATION LAYOUT  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH



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**TIMBERLINE**  
 ENGINEERING & LAND SURVEYING, INC.  
 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

**WELL PAD LEGEND**

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE
- PROPOSED BURIED POWERLINE
- RECLAMATION AREA



HORIZONTAL 0 50' 100' 1" = 100'

2' CONTOURS

SCALE: 1"=100'	DATE: 8/13/13	SHEET NO:
REVISED:		<b>4</b>

4 OF 11

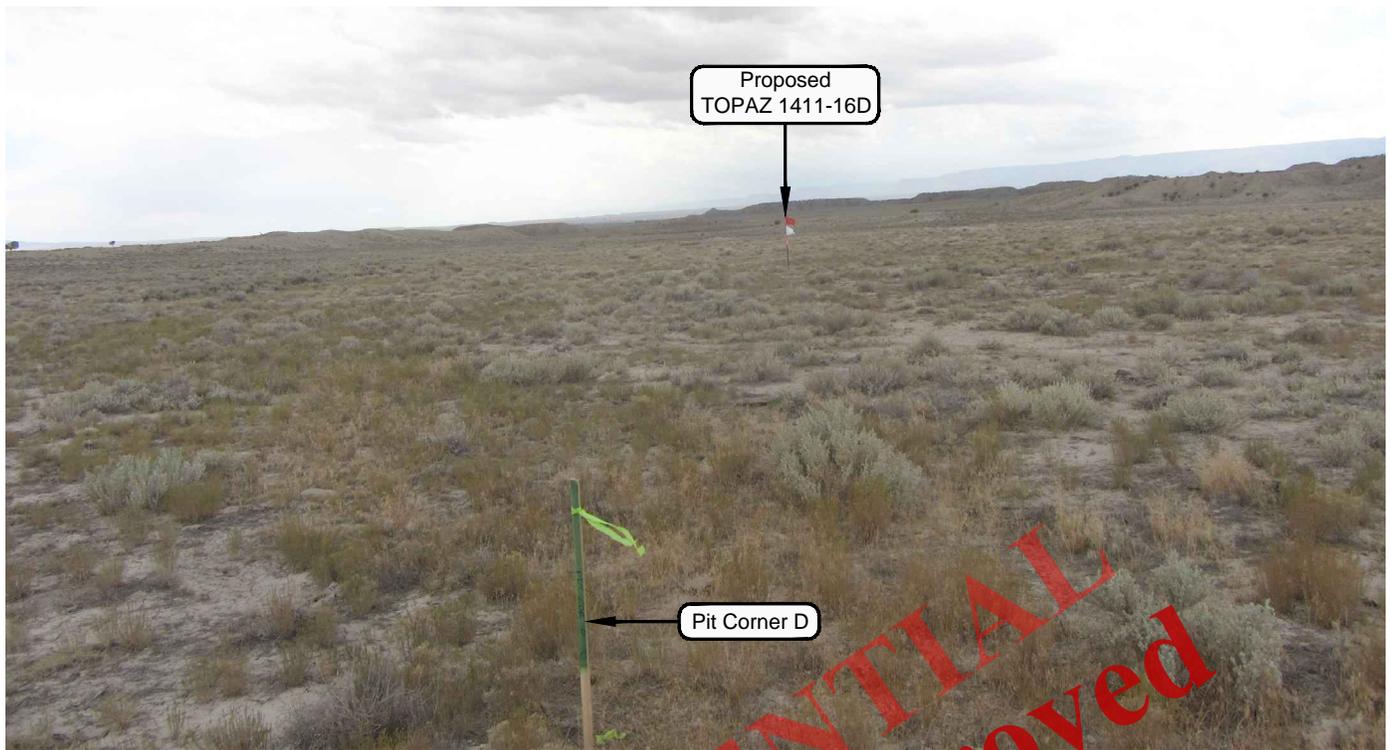


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE      CAMERA ANGLE: SOUTHWESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD      CAMERA ANGLE: WESTERLY

**Kerr-McGee Oil & Gas Onshore, LP**  
 1099 18th Street - Denver, Colorado 80202

**WELL PAD - TOPAZ 1411-16D**

**LOCATION PHOTOS**  
**TOPAZ 1411-16D**  
**660' FNL & 660' FWL**  
**LOCATED IN SECTION 16, T14S, R11E,**  
**S.L.B.&M., CARBON COUNTY, UTAH.**

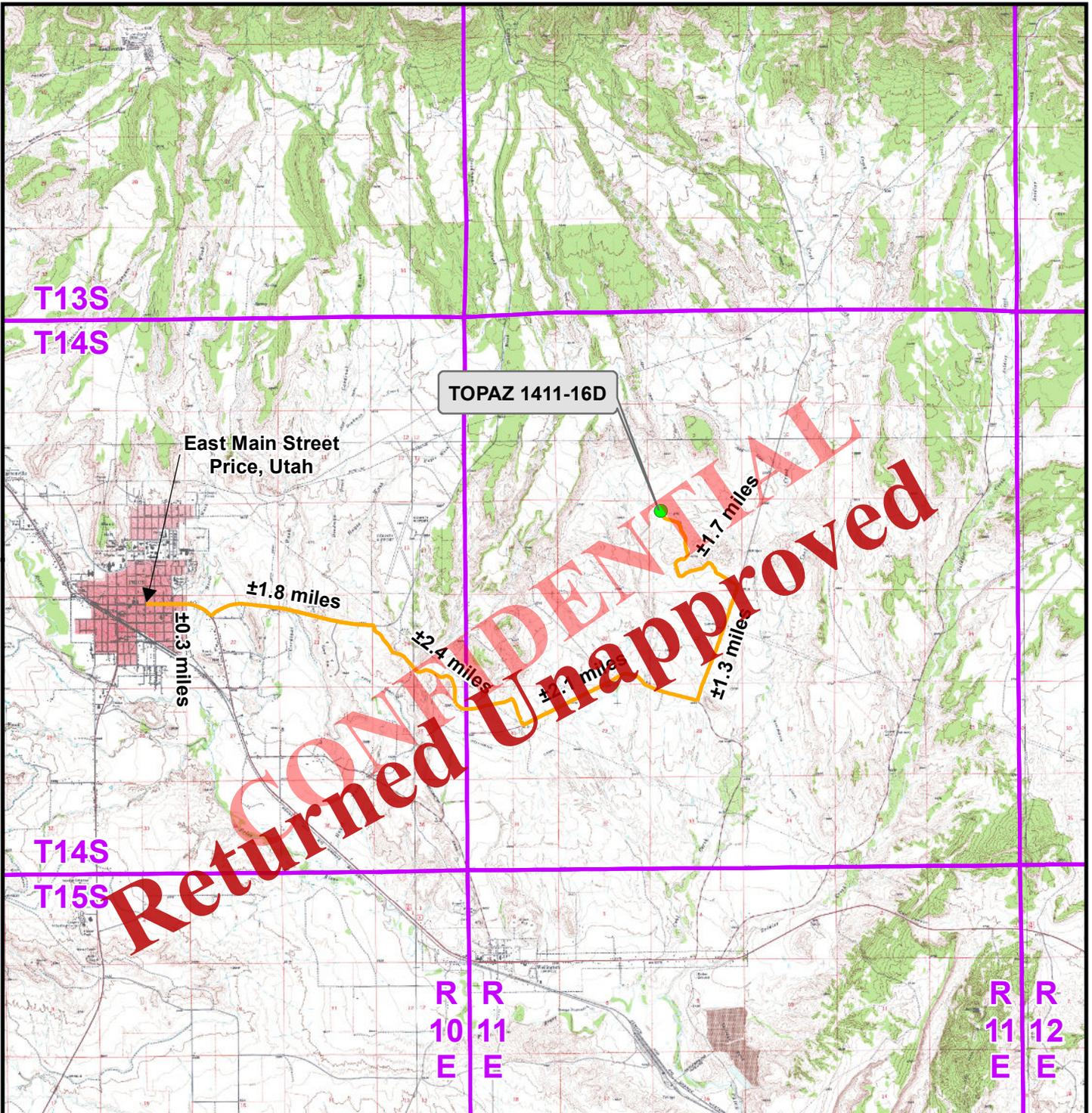


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DATE DRAWN: 8-6-13	DRAWN BY: T.J.R.	
Date Last Revised:		

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**Legend**

- Proposed Well Location
- Access Route - Proposed

**WELL PAD - TOPAZ 1411-16D**

TOPO A  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH

**Kerr-McGee Oil &  
 Gas Onshore L.P.**

1099 18th Street  
 Denver, Colorado 80202



**CONSULTING, LLC**  
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 Sheridan, Wyoming 82801  
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 Fax 307-674-0182



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

DATE: 13 Aug 2013

**6**

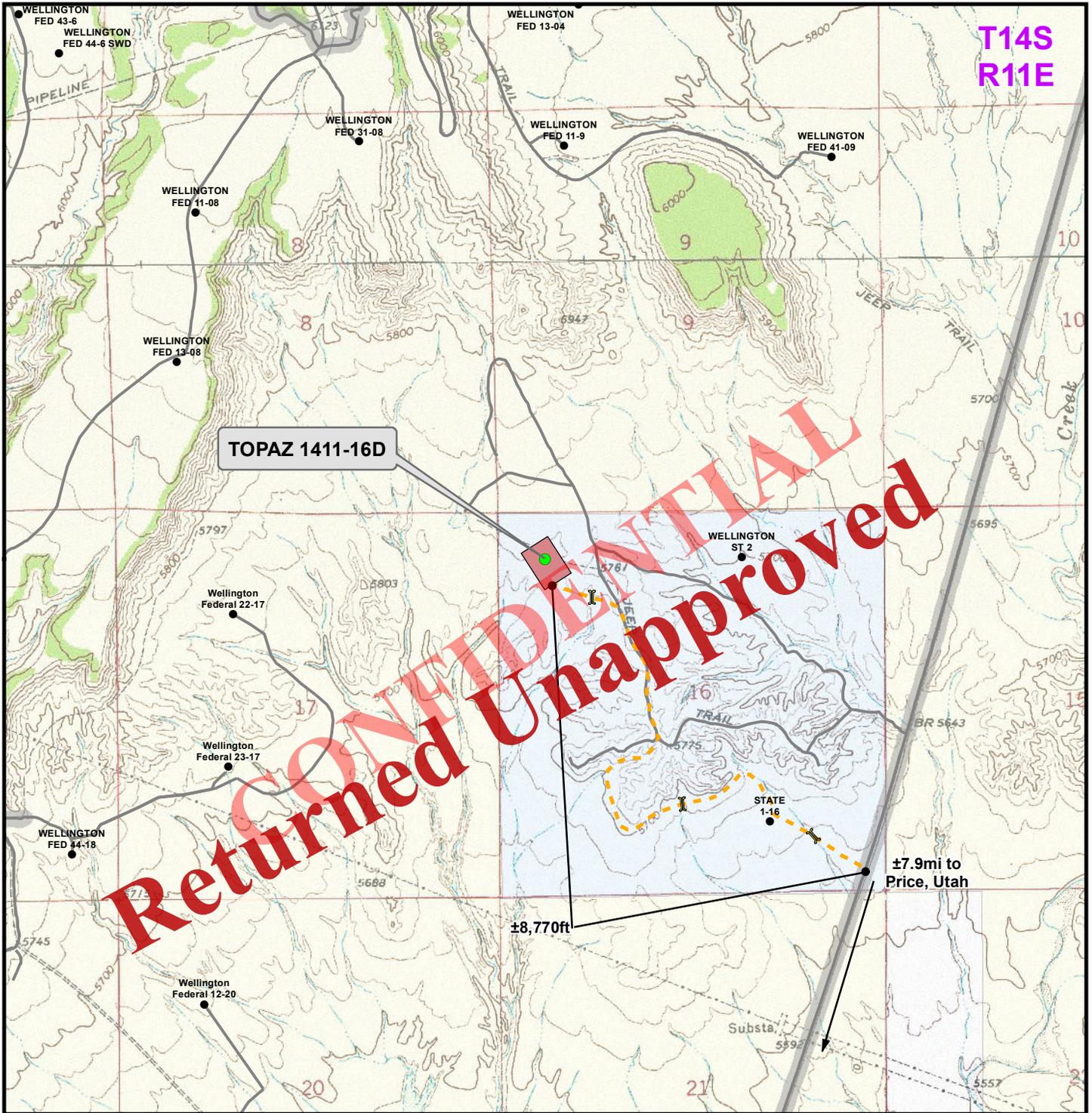
REVISED: KGS

DATE: 23 Sep 2013

6 OF 11

**Received: September 20, 2013**

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T14S  
R11E

TOPAZ 1411-16D

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±7.9mi to  
Price, Utah

±8,770ft

**Legend**

- Well - Proposed
- Well - Existing
- Well Pad
- Road - Proposed
- Road - Existing
- County Road
- ✂ Culvert/LWC - Proposed
- Bureau of Land Management
- State
- Indian Reservation
- Private

Total Proposed Road Length: ±8,770ft

**WELL PAD - TOPAZ 1411-16D**

**TOPO B  
TOPAZ 1411-16D  
660' FNL & 660' FWL  
LOCATED IN SECTION 16, T14S, R11E,  
S.L.B.&M., CARBON COUNTY, UTAH**

**Kerr-McGee Oil &  
Gas Onshore L.P.**

**1099 18th Street  
Denver, Colorado 80202**

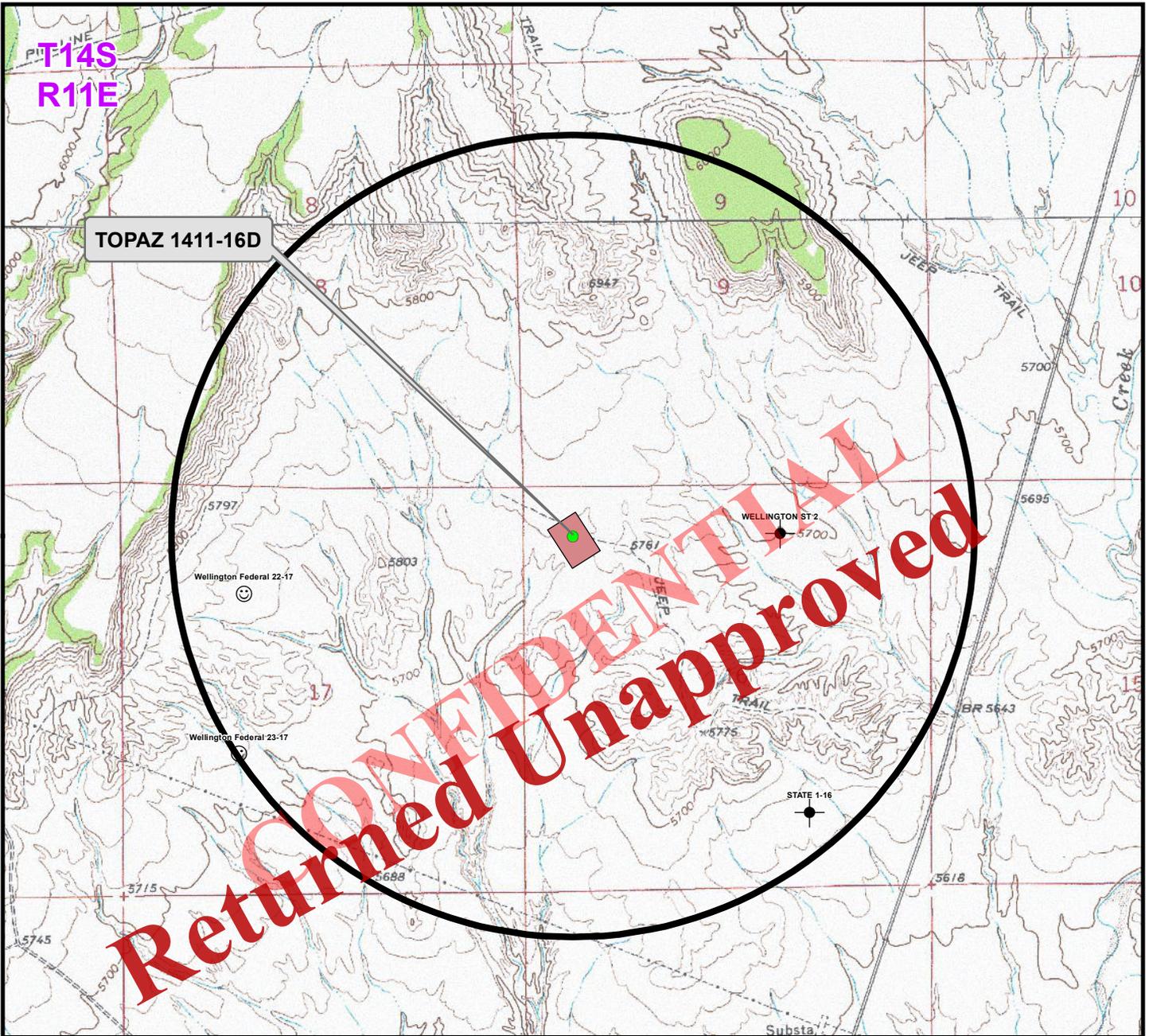


**CONSULTING, LLC**  
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Sheridan, Wyoming 82801  
Phone 307-674-0609  
Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:	<b>7</b>
DRAWN: TL	DATE: 13 Aug 2013	7 OF 11	
REVISED: KGS	DATE: 23 Sep 2013		

Received: September 20, 2013

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Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
TOPAZ 1411-16D	WELLINGTON ST 2	±2,724ft

**Legend**

- Well - Proposed
- Well Pad
- ⊙ Well - 1 Mile Radius
- Producing
- ⊕ Inactive
- ⊙ Spudded
- ⊙ Active
- ⊗ Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned

**WELL PAD - TOPAZ 1411-16D**

TOPO C  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH

**Kerr-McGee Oil &  
 Gas Onshore L.P.**

1099 18th Street  
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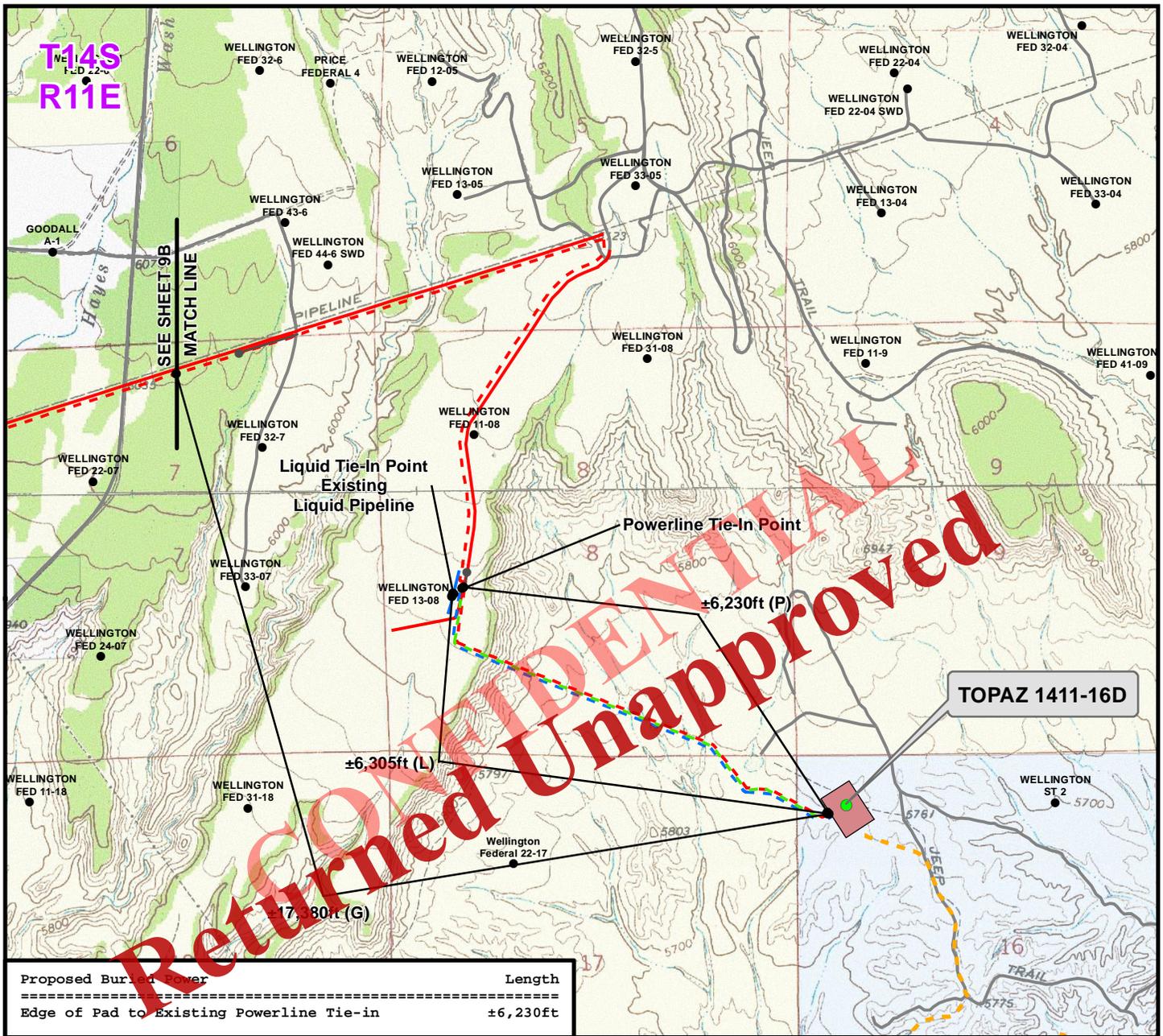
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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: <b>8</b> 8 OF 11
DRAWN: TL	DATE: 13 Aug 2013	
REVISED:	DATE:	

**Received: September 20, 2013**

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Proposed Buried Power	Length	Proposed Gas Pipeline	Length
Edge of Pad to Existing Powerline Tie-in	±6,230ft	Proposed 16" (Max.) (Meter House to Edge of Pad)	±375ft
		Proposed 16" (Max.) (Edge of Pad to Helper 2 Compressor Station)	±27,760ft
		<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±28,135ft</b>
Proposed Liquid Pipeline	Length		
Proposed 6" (Max.) (Separator to Edge of Pad)	±375ft		
Proposed 6" (Max.) (Edge of Pad to Existing 6" Liquid Pipeline)	±6,305ft		
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>±6,680ft</b>		

**Legend**

● Well - Proposed	- - - Gas Pipeline - Proposed	- - - Liquid Pipeline - Proposed	● Power - Existing Overhead	- - - Road - Proposed	■ Bureau of Land Management	■ State
● Well - Existing	- - - Gas Pipeline - Existing	- - - Liquid Pipeline - Existing	- - - Power - Proposed Buried	- - - Road - Existing	■ Indian Reservation	■ Private
■ Well Pad						

**WELL PAD - TOPAZ 1411-16D**

**TOPO D**  
**TOPAZ 1411-16D**  
**660' FNL & 660' FWL**  
**LOCATED IN SECTION 16, T14S, R11E,**  
**S.L.B.&M., CARBON COUNTY, UTAH**

**Kerr-McGee Oil & Gas Onshore L.P.**

**1099 18th Street**  
**Denver, Colorado 80202**



**CONSULTING, LLC**  
 2155 North Main Street  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

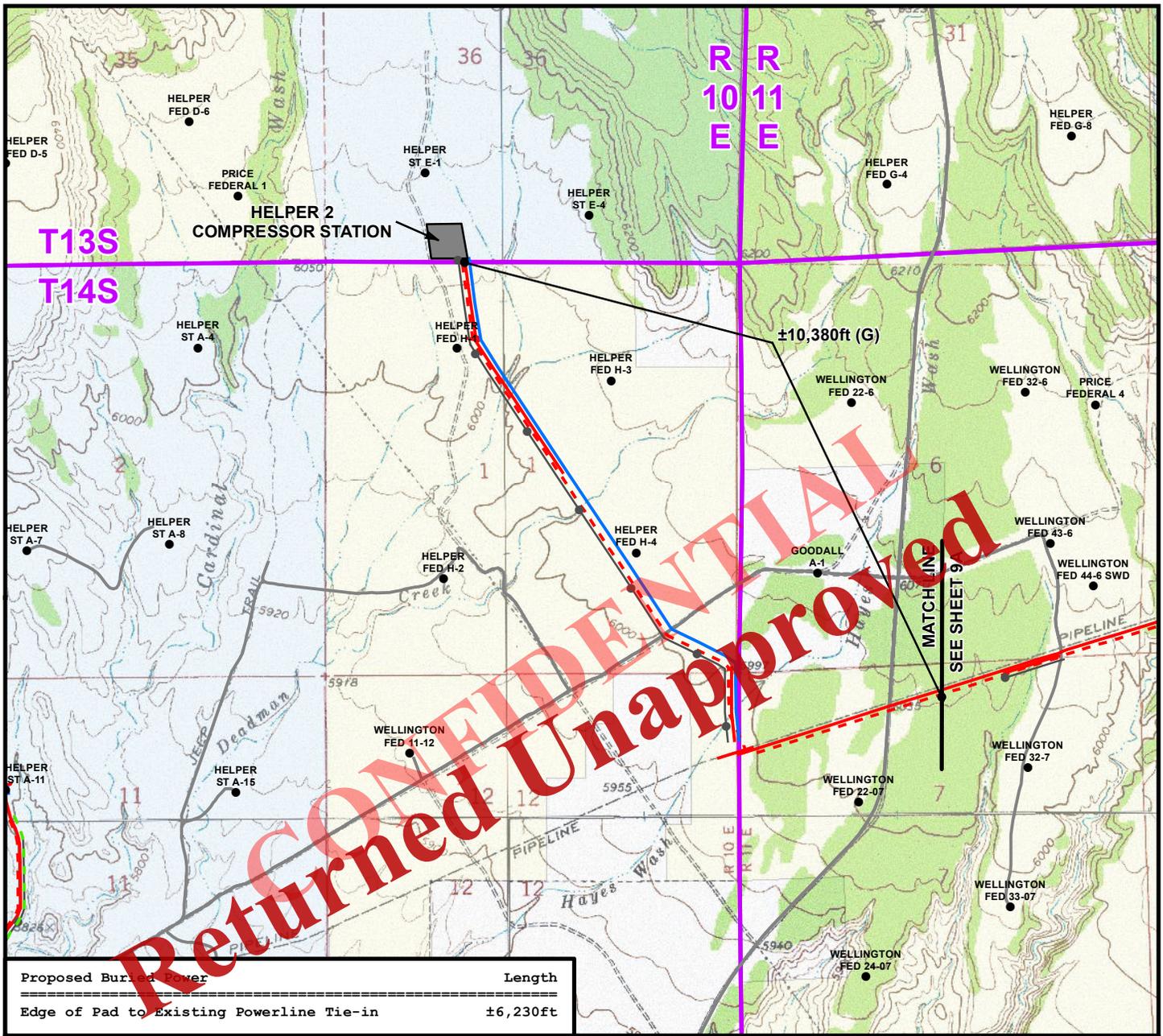


SCALE: 1" = 2,000ft	NAD83 USP Central	<b>9A</b>
DRAWN: TL	DATE: 13 Aug 2013	
REVISED: JD	DATE: 23 Sep 2013	

SHEET NO: 9A OF 11

Received: September 20, 2013

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Proposed Buried Power	Length
Edge of Pad to Existing Powerline Tie-in	±6,230ft

Proposed Liquid Pipeline	Length
Proposed 6" (Max.) (Separator to Edge of Pad)	±375ft
Proposed 6" (Max.) (Edge of Pad to Existing 6" Liquid Pipeline)	±6,305ft
<b>TOTAL PROPOSED LIQUID PIPELINE =</b>	<b>±6,680ft</b>

Proposed Gas Pipeline	Length
Proposed 16" (Max.) (Meter House to Edge of Pad)	±375ft
Proposed 16" (Max.) (Edge of Pad to Helper 2 Compressor Station)	±27,760ft
<b>TOTAL PROPOSED GAS PIPELINE =</b>	<b>±28,135ft</b>

Legend			
Well - Proposed	Gas Pipeline - Proposed	Liquid Pipeline - Proposed	Power - Existing Overhead
Well - Existing	Gas Pipeline - Existing	Liquid Pipeline - Existing	Power - Proposed Buried
Well Pad	Road - Proposed	Bureau of Land Management	State
	Road - Existing	Indian Reservation	Private

**WELL PAD - TOPAZ 1411-16D**

**TOPO D**  
**TOPAZ 1411-16D**  
**660' FNL & 660' FWL**  
**LOCATED IN SECTION 16, T14S, R11E,**  
**S.L.B.&M., CARBON COUNTY, UTAH**

**Kerr-McGee Oil & Gas Onshore L.P.**

**1099 18th Street**  
**Denver, Colorado 80202**





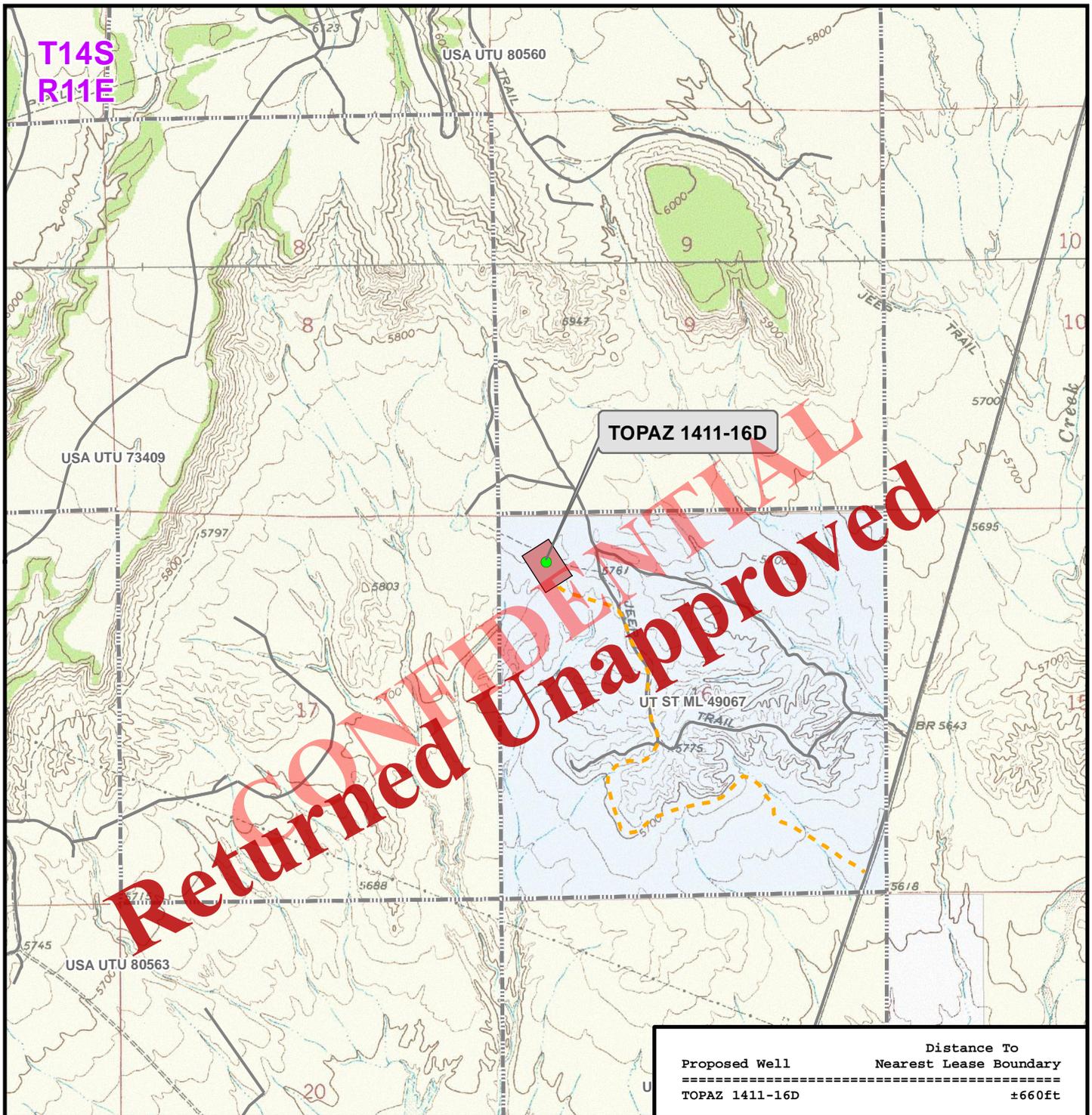
**CONSULTING, LLC**  
 2155 North Main Street  
 Sheridan, Wyoming 82801  
 Phone 307-674-0609  
 Fax 307-674-0182

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO:
DRAWN: TL	DATE: 13 Aug 2013	9B
REVISED:	DATE:	

9B OF 11

Received: September 20, 2013

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**Legend**

- Well - Proposed
- Well Pad
- Lease Boundary
- Road - Proposed
- Road - Existing
- Bureau of Land Management
- Indian Reservation
- State
- Private

**WELL PAD - TOPAZ 1411-16D**

**TOPO E  
 TOPAZ 1411-16D  
 660' FNL & 660' FWL  
 LOCATED IN SECTION 16, T14S, R11E,  
 S.L.B.&M., CARBON COUNTY, UTAH**

**Kerr-McGee Oil &  
 Gas Onshore L.P.**

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 Sheridan, Wyoming 82801  
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 Fax 307-674-0182



SCALE: 1" = 2,000ft

NAD83 USP Central

SHEET NO:

DRAWN: TL

DATE: 13 Aug 2013

**10**

REVISED: JD

DATE: 23 Sep 2013

10 OF 11

**Received: September 20, 2013**

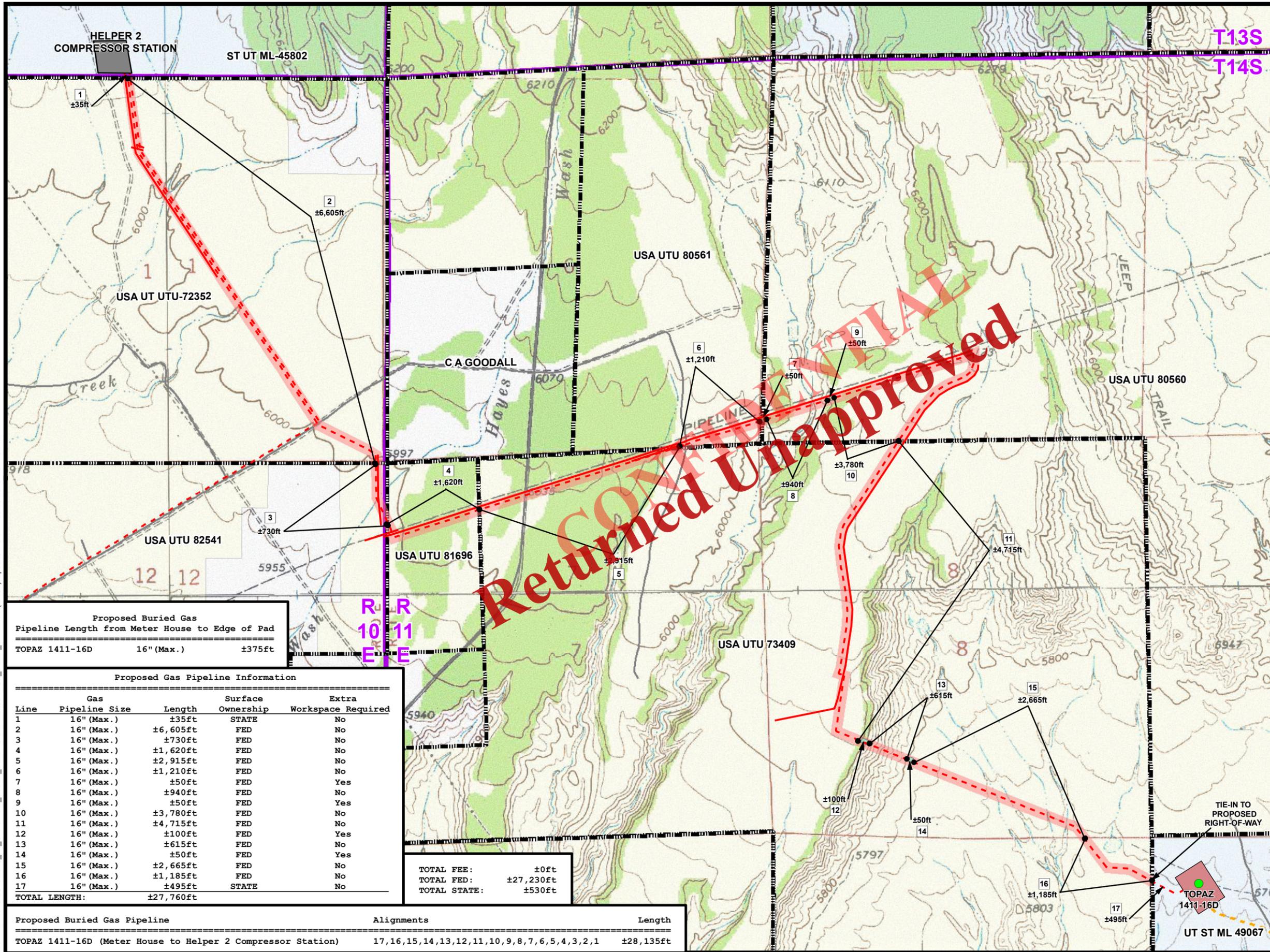
**KERR-MCGEE OIL & GAS ONSHORE L.P.**

**WELL PAD – TOPAZ 1411-16D  
WELL – TOPAZ 1411-16D  
LOCATED IN SECTION 16  
T14S, R11E, S.L.B.&M.  
CARBON COUNTY, UTAH**

Beginning at the intersection of South 7th East Street and East Main Street in Price, Utah, proceed in a southeasterly direction along East Main Street approximately 0.3 miles to the intersection of Airport Road to the east. Exit left and proceed in an easterly direction along Airport Road approximately 1.8 miles to the intersection of an existing road to the southeast. Exit right and proceed in a southeasterly direction along the existing road approximately 2.4 miles to the intersection of an existing road to the northeast. Exit left and proceed in a northeasterly, then southeasterly direction along the existing road approximately 2.1 miles to the intersection of an existing road to the northeast. Exit left and proceed in a northeasterly direction along the existing road approximately 1.3 miles to the proposed access road to the west. Exit left and follow the road flags in a westerly, then northwesterly direction approximately 8,770 feet to the proposed well location.

Total distance from Price, Utah, to the proposed Topaz 1411-16D well location is approximately 9.6 miles.

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### Legend

- Well - Proposed
- Well Pad - Proposed
- Gas Pipeline - Proposed
- Gas Pipeline - Existing
- Proposed ROW (Max. 16")
- Road - Proposed
- Road - Existing
- Extra Workspace Required
- Lease Boundary
- Bureau of Land Management
- Indian Reservation
- State
- Private

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street, Denver, Colorado 80202



**609 Consulting, LLC**  
2155 North Main Street  
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(307) 674-0609

**EXHIBIT A**  
**GAS GATHERING SYSTEM**  
**FOR TOPAZ 1411-16D**  
**LOCATED IN SECTION 16,**  
**T14S, R11E, S.L.B.&M.**  
**CARBON COUNTY, UTAH**

NAD83 USP-Cft      Scale: 1" = 1/4mi  
 Drawn by: TL      Date: 19 Sep 2013  
 Revised: CPS      Date: 23 Sep 2013

Proposed Buried Gas Pipeline Length from Meter House to Edge of Pad

TOPAZ 1411-16D	16" (Max.)	±375ft
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Proposed Gas Pipeline Information

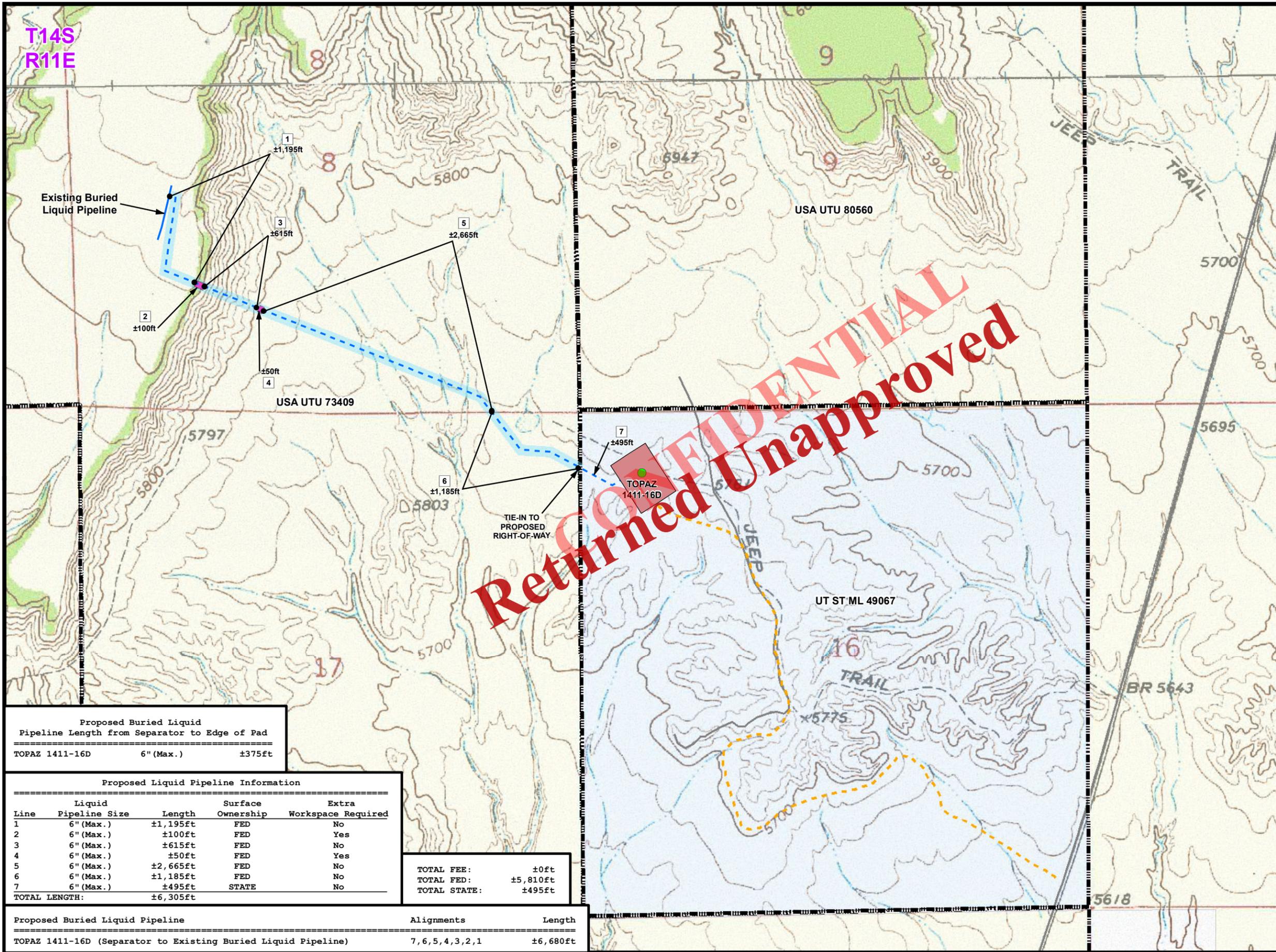
Line	Gas Pipeline Size	Length	Surface Ownership	Extra Workspace Required
1	16" (Max.)	±35ft	STATE	No
2	16" (Max.)	±6,605ft	FED	No
3	16" (Max.)	±730ft	FED	No
4	16" (Max.)	±1,620ft	FED	No
5	16" (Max.)	±2,915ft	FED	No
6	16" (Max.)	±1,210ft	FED	No
7	16" (Max.)	±50ft	FED	Yes
8	16" (Max.)	±940ft	FED	No
9	16" (Max.)	±50ft	FED	Yes
10	16" (Max.)	±3,780ft	FED	No
11	16" (Max.)	±4,715ft	FED	No
12	16" (Max.)	±100ft	FED	Yes
13	16" (Max.)	±615ft	FED	No
14	16" (Max.)	±50ft	FED	Yes
15	16" (Max.)	±2,665ft	FED	No
16	16" (Max.)	±1,185ft	FED	No
17	16" (Max.)	±495ft	STATE	No
<b>TOTAL LENGTH:</b>		<b>±27,760ft</b>		

TOTAL FEE:	±0ft
TOTAL FED:	±27,230ft
TOTAL STATE:	±530ft

Proposed Buried Gas Pipeline	Alignments	Length
TOPAZ 1411-16D (Meter House to Helper 2 Compressor Station)	17,16,15,14,13,12,11,10,9,8,7,6,5,4,3,2,1	±28,135ft

Received: September 20, 2013

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- Legend**
- Well - Proposed
  - Well Pad - Proposed
  - - - Liquid Pipeline - Proposed
  - Liquid Pipeline - Existing
  - ▬ Proposed ROW (Max. 6")
  - - - Road - Proposed
  - Road - Existing
  - Extra Workspace Required
  - ▬ Lease Boundary
  - Bureau of Land Management
  - Indian Reservation
  - State
  - Private



Returned Unapproved

Proposed Buried Liquid Pipeline Length from Separator to Edge of Pad		
TOPAZ 1411-16D	6" (Max.)	±375ft

Proposed Liquid Pipeline Information				
Line	Liquid Pipeline Size	Length	Surface Ownership	Extra Workspace Required
1	6" (Max.)	±1,195ft	FED	No
2	6" (Max.)	±100ft	FED	Yes
3	6" (Max.)	±615ft	FED	No
4	6" (Max.)	±50ft	FED	Yes
5	6" (Max.)	±2,665ft	FED	No
6	6" (Max.)	±1,185ft	FED	No
7	6" (Max.)	±495ft	STATE	No
TOTAL LENGTH:		±6,305ft		

TOTAL FEE:	±0ft
TOTAL FED:	±5,810ft
TOTAL STATE:	±495ft

Proposed Buried Liquid Pipeline	Alignments	Length
TOPAZ 1411-16D (Separator to Existing Buried Liquid Pipeline)	7, 6, 5, 4, 3, 2, 1	±6,680ft

Kerr-McGee Oil & Gas Onshore, LP  
1099 18th Street, Denver, Colorado 80202

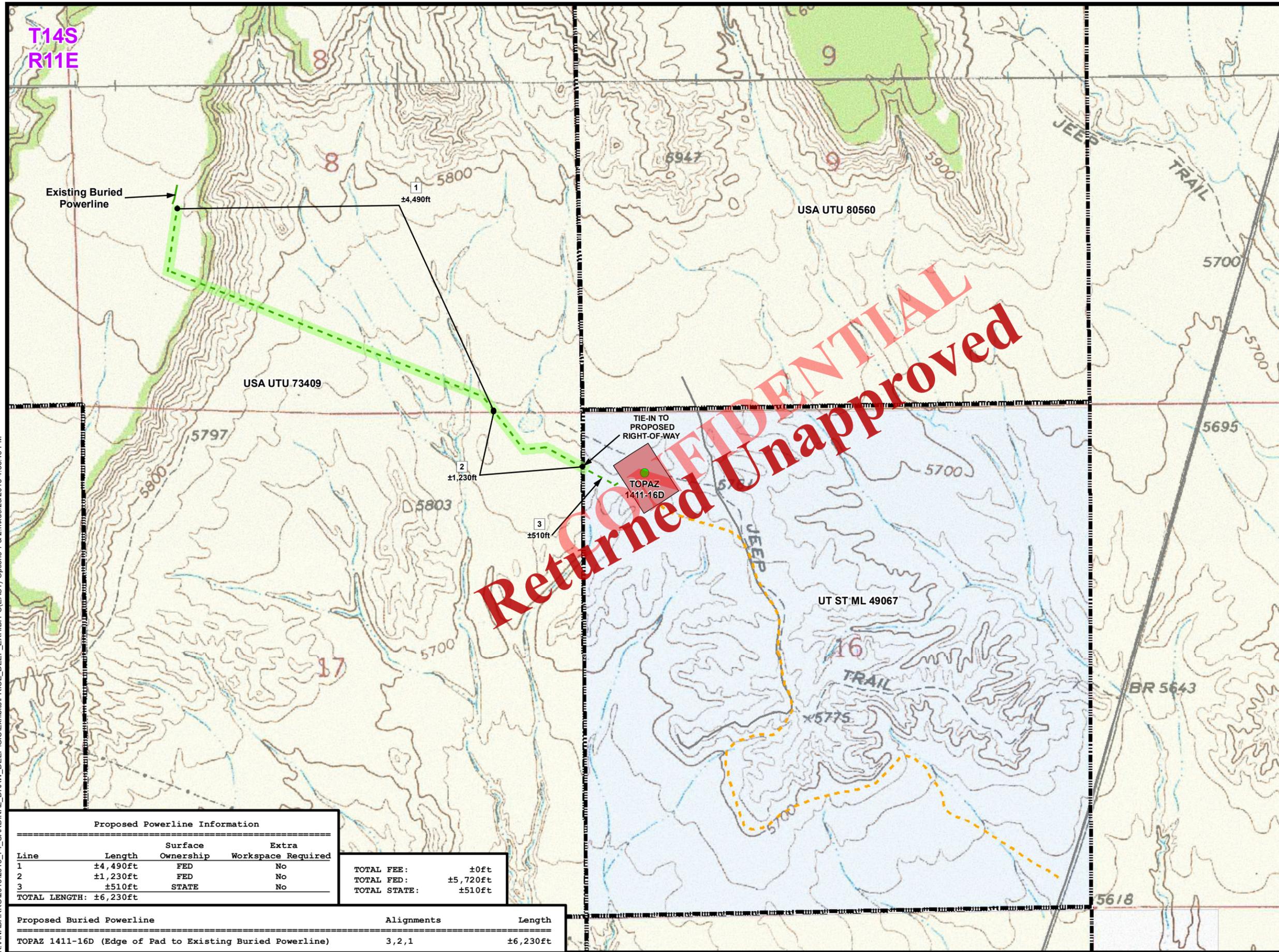
**609 Consulting, LLC**  
2155 North Main Street  
Sheridan, WY 82801  
(307) 674-0609

**EXHIBIT B**  
**LIQUID GATHERING SYSTEM FOR TOPAZ 1411-16D**  
LOCATED IN SECTION 16,  
T14S, R11E, S.L.B.&M.  
CARBON COUNTY, UTAH

NAD83 USP-Cft Scale: 1" = 1,000ft  
Drawn by: CPS Date: 23 Sep 2013  
Revised: Date:

Received: September 20, 2013

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- Legend**
- Well - Proposed
  - Well Pad - Proposed
  - - - Powerline - Proposed
  - Powerline - Existing
  - Proposed ROW - Powerline
  - - - Road - Proposed
  - Road - Existing
  - Extra Workspace Required
  - ▭ Lease Boundary
  - Bureau of Land Management
  - Indian Reservation
  - State
  - Private



CONFIDENTIAL  
 Returned Unapproved

Kerr-McGee Oil & Gas Onshore, LP  
 1099 18th Street, Denver, Colorado 80202

**609 Consulting, LLC**  
 2155 North Main Street  
 Sheridan, WY 82801  
 (307) 674-0609

**EXHIBIT C**  
**POWERLINE SYSTEM**  
**FOR TOPAZ 1411-16D**  
**LOCATED IN SECTION 16,**  
**T14S, R11E, S.L.B.&M.**  
**CARBON COUNTY, UTAH**

Proposed Powerline Information			
Line	Length	Surface Ownership	Extra Workspace Required
1	±4,490ft	FED	No
2	±1,230ft	FED	No
3	±510ft	STATE	No
TOTAL LENGTH: ±6,230ft			

TOTAL FEE:	±0ft
TOTAL FED:	±5,720ft
TOTAL STATE:	±510ft

Proposed Buried Powerline	Alignments	Length
TOPAZ 1411-16D (Edge of Pad to Existing Buried Powerline)	3,2,1	±6,230ft

NAD83 USP-Cft      Scale: 1" = 1,000ft  
 Drawn by: CPS      Date: 25 Sep 2013  
 Revised:              Date:

Received: September 20, 2013

**TOPAZ 1411-16D**

Surface:	660 FNL / 660 FWL	NWNW	Lot
BHL:	660 FNL / 660 FWL	NWNW	Lot

Section 16 T14S R11E  
Mineral Lease: ST UT ML 52543

Carbon County, Utah  
Operator: Kerr-McGee Oil & Gas Onshore LP

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including but not limited to, APDs/SULAs/ROEs/ROWs and/or easements.)

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

In accordance with Utah Oil & Gas Conservation Rule R649-3-10 pertaining to Vertical Drilling, these wells will be vertically drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

**A. Existing Roads:**

Existing roads consist of county and improved/unimproved lease roads. KMG will maintain existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

**B. Planned Access Roads:**

Approximately  $\pm 8770'$  (1.6 miles) road is proposed (see Topo Map B). Applicable Carbon County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

If there are roads that are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

During the onsite, turnouts, major cut and fills, culverts, bridges, gates, cattle guards, low water crossings, or modifications needed to existing infrastructure/facilities were determined, as applicable, are typically shown on attached Exhibits and Topo maps.

**C. Location of Existing and Proposed Facilities:**

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of the well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) above ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

**Gathering Facilities:**

The following pipeline transmission facilities will apply to this well. These will be surface or buried lines depending on how productive the well is. (Please see Exhibit A, B, C, and Topo D):

The total Gas Gathering (steel line pipe with fusion bond epoxy coating) Pipeline distances from the meter to the Proposed BLM ROW tie-in point is  $\pm 870'$  and the individual segments are broken up as follows:

The Following segments are "onlease", no ROW needed.

$\pm 375'$  (0.07 miles) –Proposed 16" Gas Pipeline from the meter to the edge of the pad. Please refer to Exhibit A.

$\pm 495'$  (0.09 miles) –Proposed 16" Gas Pipeline from the edge of the pad to the Proposed BLM ROW tie-in point at the section line of section 16. Please refer to line 3 Exhibit A.

The total Liquid Gathering Pipeline distance from the separator to the Proposed ROW tie-in point is  $\pm 870'$  and the individual segments are broken up as follows:

The Following segments are "onlease", no ROW needed.

$\pm 375'$  (0.07 miles) –Proposed 16" Liquid Pipeline from the separator to the edge of the pad. Please refer to Exhibit B.

$\pm 495'$  (0.09 miles) –Proposed 16" Liquid Pipeline from the edge of the pad to the Proposed BLM ROW tie-in point at the section line of section 16. Please refer to line 7 Exhibit B.

The total Buried Power distance from the edge of the pad to the Proposed ROW tie-in point is  $\pm 495'$  and the individual segments are broken up as follows:

The Following segments are "onlease", no ROW needed.

$\pm 510'$  (0.09 miles) –Proposed Power from the edge of the pad to the Proposed BLM ROW tie-in. at the section line of section 16. Please refer to line 3 Exhibit C.

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during the winter time.

KMG requests a temporary 45' construction right-of-way and a 30' permanent right-of-way.

Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity and ownership, as well as to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

**D. Location and Type of Water Supply:**

Water for drilling purposes will be obtained from one of the following sources:

Helper State SWD #1:  
1980' FNL & 2500' FEL, Sec. 3 – T13N – R11E

Tap Point Price City:  
Sec. 10 – T14S – R10E

**E. Source of Construction Materials:**

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

**F. Methods for Handling Waste Materials:**

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well. Currently, those facilities are:

ECDC Landfill Disposal in East Carbon County  
SWD #1: 13S 11E Section 3  
SWD 44-6: 14S 11E section 6  
SWD 22-4: 14S 11E section 4  
SWD 31-30: 14S 11E section 30  
SWD 41-25: 14S 11E section 25  
SWD F-2: 14S 10E section 8

Kerr-McGee will use either a closed loop drilling system that will require one pit and one cuttings storage area to be constructed on the drilling pad or a traditional drilling operation with one pit used for drilling and completion operations. The cuttings storage area will be used to contain only the de-watered drill cuttings and will be lined and bermed to prevent any liquid runoff. The drill cuttings will be buried in the completion pit once completion operations are completed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion operations pit will be lined with a synthetic material 20 mil or thicker and will be used for the completing of the wells on the pad or used as part of our Aandarko Completions Transportation System (ACTS). Using the closed loop drilling system will allow Kerr-McGee to decrease the amount of disturbance/footprint on location compared to a single large drilling/completions pit.

If Kerr-McGee does not use a closed loop drilling system, it will construct a traditional drilling/completions pit to contain drill cuttings and for use in completion operations. The pit will be lined with a synthetic material 20 mil or thicker. The drill cuttings will be buried in the pit using traditional pit closure standards.

Unless otherwise approved, no oil or other oil based drill additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water, biodegradable polymer soap, bentonite clay, and /or non-toxic additives will be used in the system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions, or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be release into the pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternative is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as the hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods. (e.g. solidification)

Any additional pits necessary for subsequent operations, such as temporary flare pits, or workover pits, will contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of the work.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced or netted to prevent wildlife or livestock entry.

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and then reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

Portable, self-contained chemical toilets and/or sewage processing facilities will be provided for human waste disposal. Upon completion of operations, or as required, the toilet holding tanks will be pumped and the contents disposed of in an approved sewage disposal facility. All applicable regulations pertaining to disposal of human and solid waste will be observed.

Any undesirable event, including accidental release of fluids, or release in excess of reportable quantities, will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule. Where State wells are participatory to a Federal agreement, according to NTL-3A, the appropriate Federal agencies will be notified.

#### **Materials Management**

Hazardous materials above reportable quantities will not be produced by drilling or completing proposed wells or constructing the pipelines/facilities. The term "hazardous materials" as used here means: (1) any substance, pollutant, or containment listed as hazardous under the Comprehensive Environmental Response, Compensation, and Liability Act (CERCLA) of 1980, as amended 42 U.S.C. 9601 et seq., and the regulations issued under CERCLA; and (2) any hazardous waste as defined in RCRA of 1976, as amended. In addition, no extremely hazardous substance, as defined in 40 CFR 355, in threshold planning quantities, would be used, produced, stored, transported, or disposed of while producing any well.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

**G. Ancillary Facilities:**

None are anticipated.

**H. Well Site Layout (see Well Pad Design Summary):**

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1927 (NAD27) or NAD 83 latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

**I. Plans for Reclamation of the Surface:**

Surface reclamation will be undertaken in two phases: interim and final. Interim reclamation is conducted following well completion and extends through the period of production. This reclamation is for the area of the well pad that is not required for production activities. Final reclamation is conducted following well plugging/conversion and/or facility abandonment processes.

Reclamation activities in both phases may include but is not limited to the re-contouring or re-configuration of topographic surfaces, restoration of drainage systems, segregation of spoils materials, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

**Interim Reclamation**

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

Interim re-contouring involves bringing all construction material from cuts and fills back onto the well pad and site and reestablishing the natural contours where desirable and practical. Fill and stockpiled spoils no longer necessary to the operation will be spread on the cut slopes and covered with stockpiled topsoil. All stockpiled top soils will be used for interim reclamation where practical to maintain soil viability. Where possible, the land surface will be left "rough" after re-contouring to ensure that the maximum surface area will be available to support the reestablishment of vegetative cover.

A reserve pit, upon being allowed to dry, will be backfilled and compacted with cover materials that are void of any topsoil, vegetation, large stones, rocks or foreign objects. Soils that are moisture laden, saturated, or partially/completely frozen will not be used for backfill or cover. The pit area will be mounded to allow for settling and to promote positive surface drainage away from the pit.

**Final Reclamation**

Final reclamation will be performed for newly drilled unproductive wells and/or at the end of the life of a productive well. As soon as practical after the conclusion of drilling and testing operations, unproductive drill holes will be plugged and abandoned (P&A). Site and road reclamation will commence following plugging. In no case will reclamation at non-producing locations be initiated later than six (6) months from the date a well is plugged. A joint inspection of the disturbed area to be reclaimed may be requested by KMG. The primary purpose of this inspection will be to review the existing conditions, or agree upon a revised final reclamation and abandonment plan. A Notice of Intent to Abandon will be filed for final recommendations regarding surface reclamation.

After plugging, all wellhead equipment that is no longer needed will be removed, and the well site will be reclaimed. Final contouring will blend with and follow as closely as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring, final grading will be conducted over the entire surface of the well site and access road. Where practical, the area will be ripped to a depth of 18 to 24 inches on 18 to 24-inch centers and surface materials will be pitted with small depressions to form longitudinal depressions 12 to 18 inches deep perpendicular to the natural flow of water.

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

#### **Seeding and Measures Common to Interim and Final Reclamation**

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

#### **J. Surface/Mineral Ownership:**

SITLA  
675 East 500 South, Suite 500  
Salt Lake City, UT 84102

#### **L. Other Information:**

None

#### **M. Lessee's or Operators' Representative & Certification:**

Cara Mahler  
Regulatory Analyst I  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6156

Tommy Thompson  
General Manager, Drilling  
Kerr-McGee Oil & Gas Onshore LP  
PO Box 173779  
Denver, CO 80217-3779  
(720) 929-6724

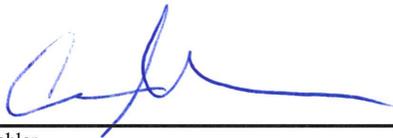
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

Kerr-McGee Oil & Gas Onshore LP is considered to be the operator of the subject well. Kerr-McGee Oil & Gas Onshore LP agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

Bond coverage for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, by Bureau of Land Management Nationwide Bond WYB000291.

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist; that I have full knowledge of the State and Federal laws applicable to this operation; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this APD package and the terms and conditions under which it is approved. I also certify that I, or the company I represent, am responsible for operations conducted under this application. These statements are subject to the provisions of 18 U.S.C. 1001 for the filing of false statements.



\_\_\_\_\_  
Cara Mahler

October 1, 2013  
\_\_\_\_\_  
Date

**CONFIDENTIAL**  
**Returned Unapproved**



GARY R. HERBERT  
*Governor*

GREGORY S. BELL  
*Lieutenant Governor*

# State of Utah

## DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER  
*Executive Director*

### Division of Oil, Gas and Mining

JOHN R. BAZA  
*Division Director*

October 03, 2013

KERR-MCGEE OIL & GAS  
ONSHORE, L.P.  
P.O. Box 173779  
Denver, CO 80217

Re: Application for Permit to Drill - Uintah County, Utah

Ladies and Gentlemen:

The Application for Permit to Drill (APD) for the TOPAZ 1411-16D well, API 43047540330000 that was submitted October 03, 2013 is being returned unapproved. If you plan on drilling this well in the future, you must first submit a new application.

Should you have any questions regarding this matter, please call me at (801) 538-5312.

Sincerely,

Diana Mason  
Environmental Scientist

Enclosure

cc: Bureau of Land Management, Vernal, Utah

