

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL		1. WELL NAME and NUMBER NBU 921-30A1BS
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 NATURAL BUTTES
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		7. OPERATOR PHONE 720 929-6100
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		9. OPERATOR E-MAIL Andy.Lytle@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0581	11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>	
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		12. SURFACE OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		16. SURFACE OWNER E-MAIL (if box 12 = 'fee')
18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>		19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	828 FNL 662 FEL	NENE	30	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	194 FNL 560 FEL	NENE	30	9.0 S	21.0 E	S
At Total Depth	194 FNL 560 FEL	NENE	30	9.0 S	21.0 E	S

21. COUNTY UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet) 492	23. NUMBER OF ACRES IN DRILLING UNIT 2400
27. ELEVATION - GROUND LEVEL 4894	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 557	26. PROPOSED DEPTH MD: 11372 TVD: 11305
	28. BOND NUMBER WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496

Hole, Casing, and Cement Information

String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2860	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 11372	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	350	3.38	12.0
							50/50 Poz	1630	1.31	14.3

ATTACHMENTS

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 checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Joel Malefyt	TITLE Regulatory Analyst	PHONE 720 929-6828
SIGNATURE	DATE 11/20/2014	EMAIL joel.malefyt@anadarko.com
API NUMBER ASSIGNED 43047549910000	APPROVAL  Permit Manager	

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

<u>NBU 921-30A1BS</u>		
Surface:	828 FNL / 662 FEL	NENE
BHL:	194 FNL / 560 FEL	NENE

Section 30 T9S R21E

Unitah County, Utah
Mineral Lease: USA UTU 000581**ONSHORE ORDER NO. 1****DRILLING PROGRAM**

- 1. & 2.a** **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>
Uinta	0 - Surface	
Green River	1,633'	
Birds Nest	1,904'	Water
Mahogany	2,408'	Water
Wasatch	4,982'	Gas
Mesaverde	8,040'	Gas
Sego	10,285'	Gas
Castlegate	10,339'	Gas
Blackhawk	10,705'	Gas
TVD =	11,305'	
TD =	11,372'	

- 2.b** Kerr McGee Oil & Gas Onshore LP (Kerr McGee) may elect to drill to (i) the Blackhawk formation (part of the Mesaverde Group), (ii) to a shallower depth within the Mesaverde Group, or (iii) to the Wasatch Formation. If Kerr McGee drills to the Blackhawk formation, please refer to Blackhawk as the bottom formation. The attached Blackhawk Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the deeper formation.

If Kerr-McGee drills to a shallower depth in the Mesaverde Group or to the Wasatch Formation, please refer to the attached Wasatch/Mesaverde Drilling Program which includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the shallower formations.

3. Pressure Control Equipment

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

4. Proposed Casing & Cementing Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

5. Drilling Fluids Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

6. Evaluation Program:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program

7. Abnormal Conditions:**7.a Blackhawk (Part of Mesaverde Group)**

Maximum anticipated bottom hole pressure calculated at 11305' TVD, approximately equals
7,235 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,732 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))

7.b Wasach Formation/Mesaverde Group

Maximum anticipated bottom hole pressure calculated at 10285' TVD, approximately equals
6,274 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,038 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. Variiances:

Please refer to the Standard Operating Practices on file with the BLM Vernal Field Office.

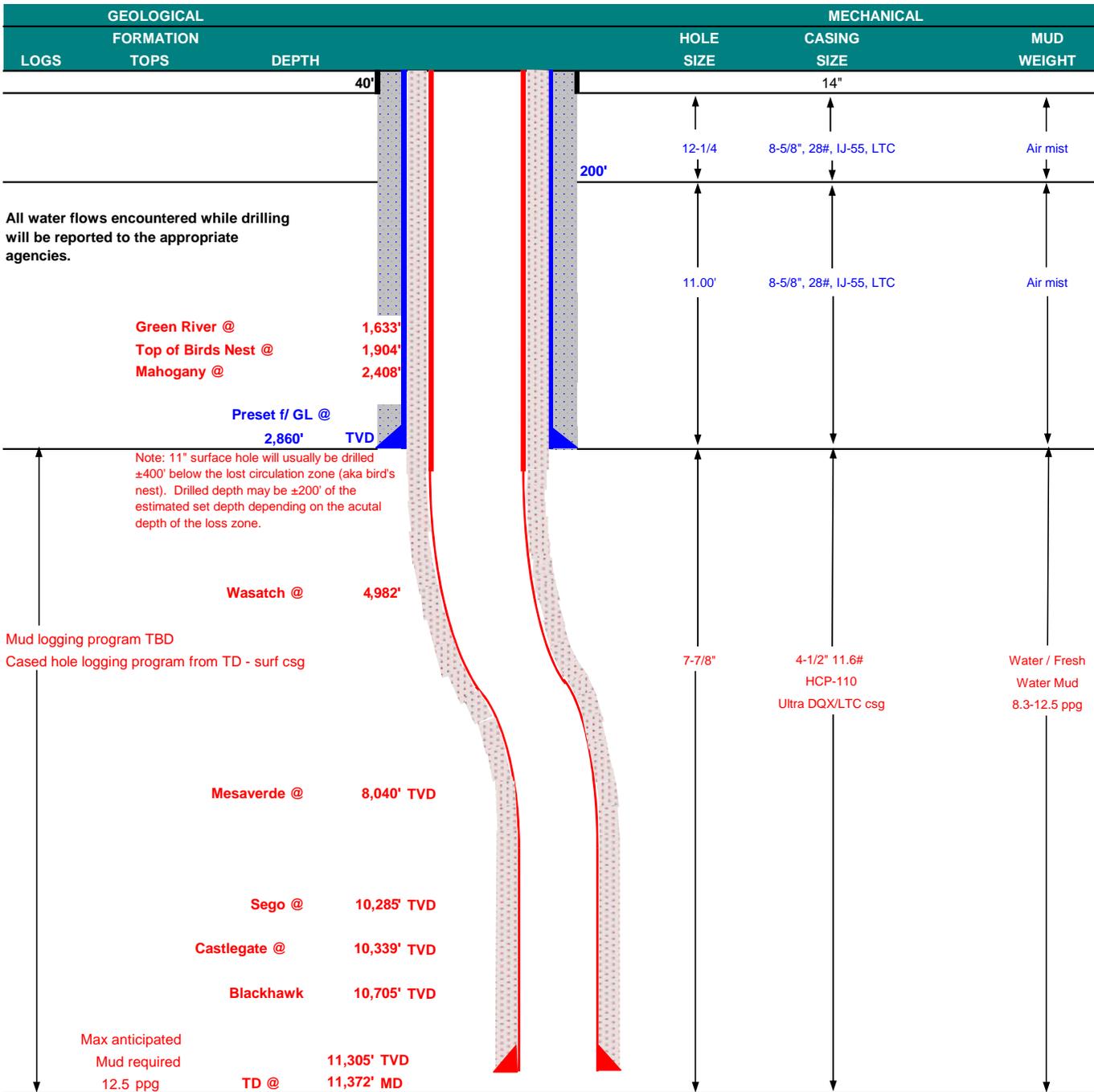
10. Other Information:

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program



KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	August 26, 2014			
WELL NAME	NBU 921-30A1BS		TD	11,305'	TVD	11,372' MD	
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah	FINISHED ELEVATION	4,894'
SURFACE LOCATION	NENE	828 FNL	662 FEL	Sec 30	T 9S	R 21E	
	Latitude:	40.011979	Longitude:	-109.587345			NAD 83
BTM HOLE LOCATION	NENE	194 FNL	560 FEL	Sec 30	T 9S	R 21E	
	Latitude:	40.013719	Longitude:	-109.586987			NAD 83
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)						
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.						





KERR-McGEE OIL & GAS ONSHORE LP
Blackhawk Drilling Program

CASING PROGRAM

							DESIGN FACTORS			
							LTC		DQX	
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	TENSION	
CONDUCTOR	14"	0-40'								
							3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,860	28.00	IJ-55	LTC	1.88	1.40	4.96	N/A
							10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.18		3.44
	4-1/2"	5,000	to 11,372'	11.60	HCP-110	LTC	1.19	1.18	4.67	

Surface casing:

(Burst Assumptions: TD = 12.5 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) 0.64 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	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
SURFACE			NOTE: If well will circulate water to surface, option 2 will be utilized				
Option 2	LEAD	2,360'	Premium cmt + 16% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOC + GR 3 pps	290	35%	12.00	2.86
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,482'	Premium Lite II +0.25 pps celloflake + .4% FL-52 + .3% R-3 + .5 lbs/sk Kol-Seal + 6%Bentonite II + 1.2% Sodium Metasilicate + .05 lbs/sk Static Free	350	35%	12.00	3.38
	TAIL	6,890'	50/50 Poz/G + 10% salt + .05 lbs/sk Static Free + 1.2% Sodium Metasilicate + .5 % EC-1 +.002 gps FP-6L + 2% Bentonite II	1,630	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
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

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: _____
Matt Stiasny/Paul Wages

DATE: _____

DRILLING SUPERINTENDENT: _____
Lovel Young

DATE: _____



KERR-McGEE OIL & GAS ONSHORE LP
Wasatch/Mesaverde Drilling Program

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS			
						BURST	COLLAPSE	LTC	DQX
								TENSION	
CONDUCTOR	14"	0-40'							
						3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0 to 2,860	28.00	IJ-55	LTC	1.88	1.40	4.96	N/A
						7,780	6,350		267,035
PRODUCTION	4-1/2"	0 to 5,000	11.60	I-80	DQX	1.11	0.99		2.72
						10,690	8,650	223,000	
	4-1/2"	5,000 to 10,352'	11.60	HCP-110	LTC	1.53	1.35	4.40	

Surface Casing:

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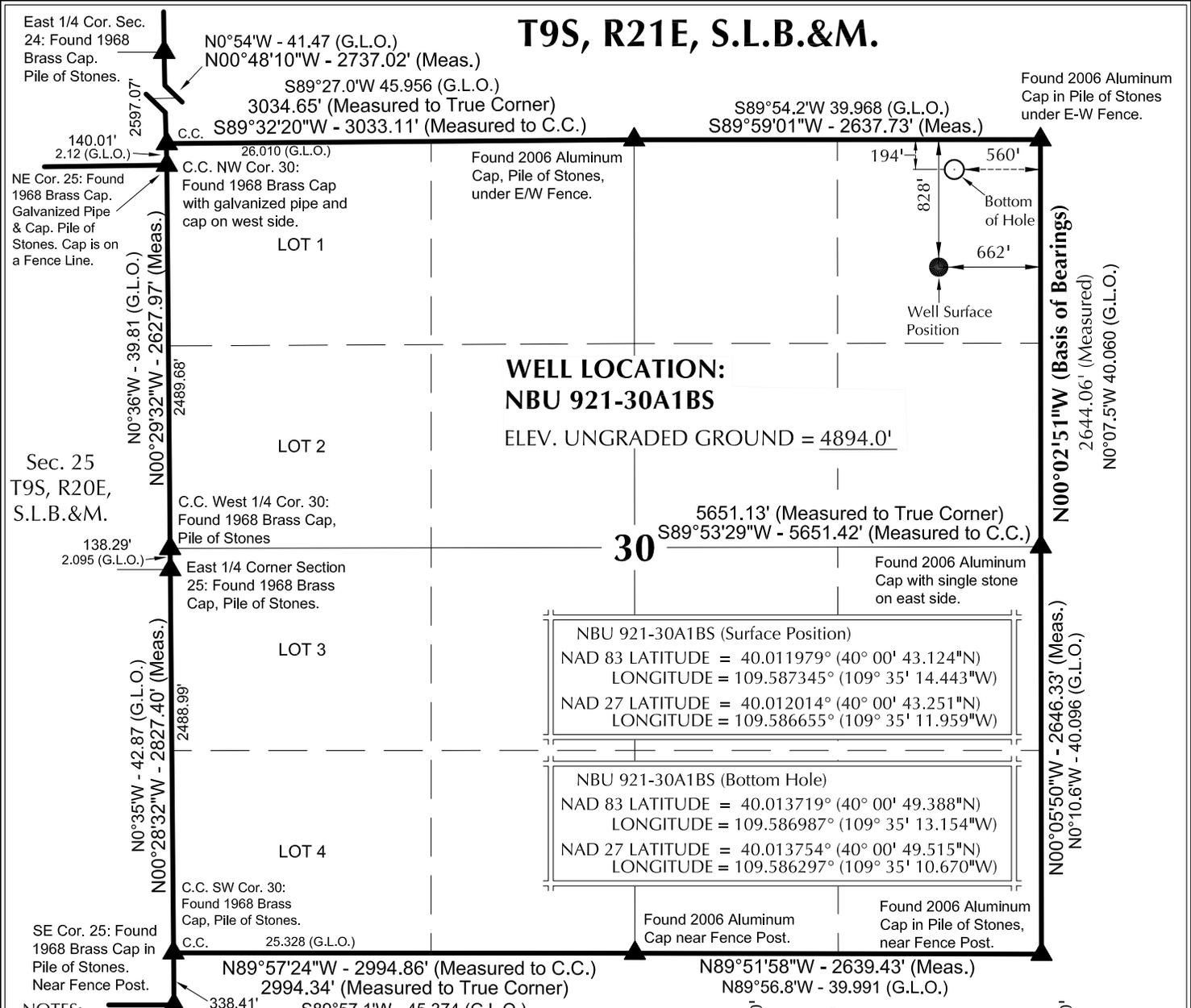
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DRILLING ENGINEER: _____
Matt Stiasny/Paul Wages

DRILLING SUPERINTENDENT: _____
Lovel Young

DATE: _____
DATE: _____

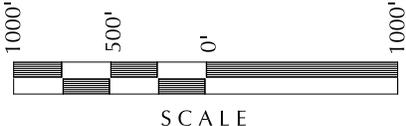
T9S, R21E, S.L.B.&M.



NOTES:

- ▲ = Section Corners Located
- 1. Well footages are measured at right angles to the Section Lines. G.L.O. distances are shown in feet or chains.
- 2. 1 chain = 66 feet.
- 3. The Bottom of hole bears N09°04'27"E 641.82' from the Surface Position.
- 4. NAD 83 Latitude & Longitude are (CORS 96)(EPOCH:2002).
- 5. Bearings and Distances are based upon a Local Cartesian Grid, oriented to Geodetic North at the North 1/4 Corner of Section 8, T10S, R22E, S.L.B.&M. The Grid having a mean project height of 5300'. Lineal units used are U.S. Survey Foot.
- 6. Basis of elevation is Tri-Sta "Two Water" located in Lot 4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

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



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.

PROF. JOHN R. SLAUGH
 No. 6028691-5-19-14
 JOHN R. SLAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH



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

TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 4-3-14	SURVEYED BY: J.W.	SHEET NO: 1 1 OF 18
DATE DRAWN: 4-14-14	DRAWN BY: J.G.C.	
SCALE: 1" = 1000'		Date Last Revised:

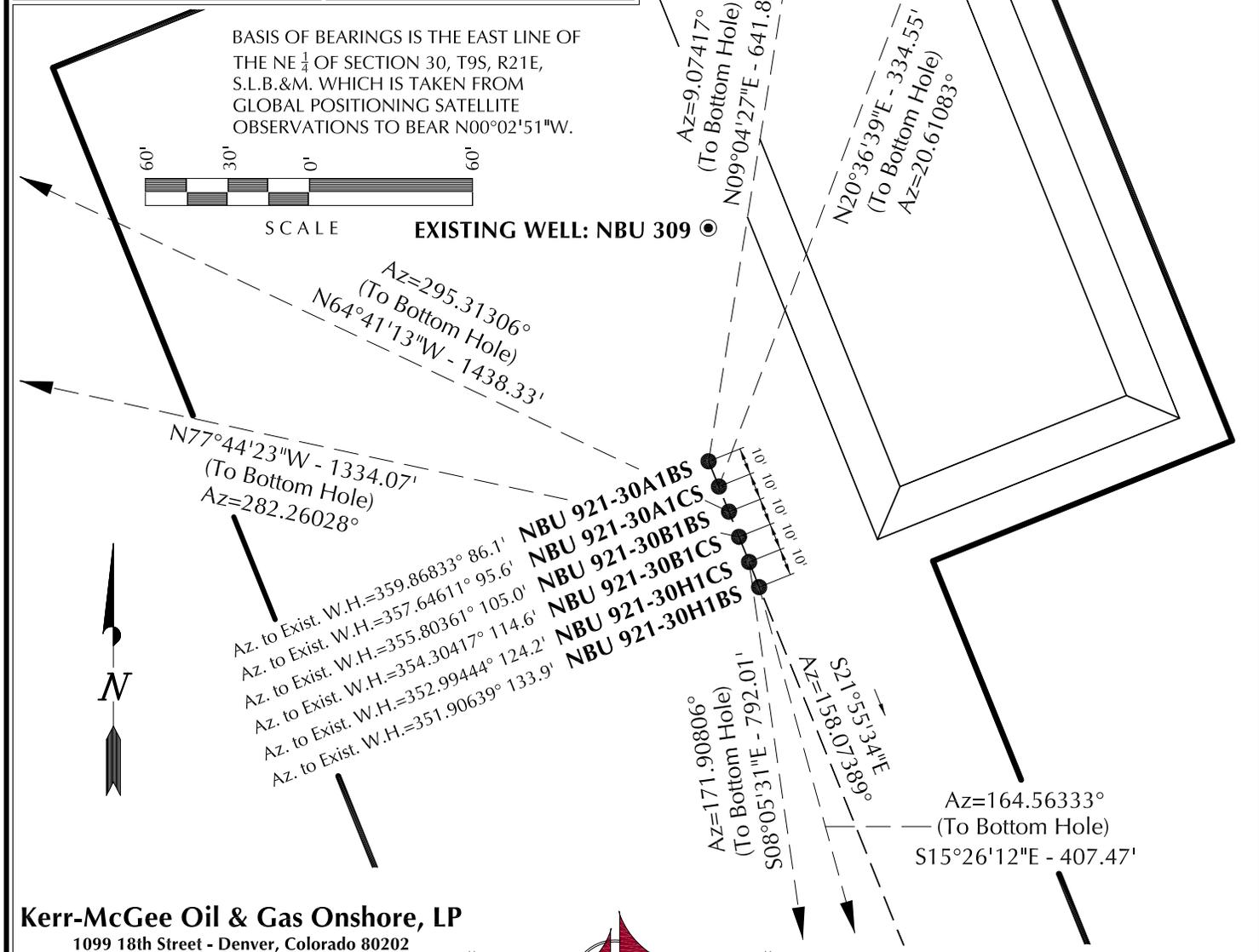
WELL PAD - NBU 921-30A

NBU 921-30A1BS
WELL PLAT
194' FNL, 560' FEL (Bottom Hole)
NE 1/4 NE 1/4 OF SECTION 30, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-30A1BS	40°00'43.124"N 40.011979°N	109°35'14.443"W 109.587345°W	40°00'43.251"N 40.012014°N	109°35'11.959"W 109.586655°W	828' FNL 662' FEL	40°00'49.388"N 40.013719°N	109°35'13.154"W 109.586987°W	40°00'49.515"N 40.013754°N	109°35'10.670"W 109.586297°W	194' FNL 560' FEL
NBU 921-30A1CS	40°00'43.032"N 40.011953°N	109°35'14.395"W 109.587332°W	40°00'43.159"N 40.011989°N	109°35'11.911"W 109.586642°W	837' FNL 658' FEL	40°00'46.128"N 40.012813°N	109°35'12.887"W 109.586913°W	40°00'46.254"N 40.012848°N	109°35'10.404"W 109.586223°W	524' FNL 540' FEL
NBU 921-30B1BS	40°00'42.941"N 40.011928°N	109°35'14.346"W 109.587318°W	40°00'43.068"N 40.011963°N	109°35'11.863"W 109.586629°W	846' FNL 654' FEL	40°00'48.999"N 40.013611°N	109°35'31.064"W 109.591962°W	40°00'49.126"N 40.013646°N	109°35'28.580"W 109.591272°W	231' FNL 1954' FEL
NBU 921-30B1CS	40°00'42.849"N 40.011902°N	109°35'14.299"W 109.587305°W	40°00'42.976"N 40.011938°N	109°35'11.815"W 109.586615°W	856' FNL 651' FEL	40°00'45.630"N 40.012675°N	109°35'31.054"W 109.591959°W	40°00'45.757"N 40.012710°N	109°35'28.570"W 109.591269°W	572' FNL 1954' FEL
NBU 921-30H1CS	40°00'42.758"N 40.011877°N	109°35'14.250"W 109.587292°W	40°00'42.885"N 40.011913°N	109°35'11.766"W 109.586602°W	865' FNL 646' FEL	40°00'35.013"N 40.009726°N	109°35'12.804"W 109.586890°W	40°00'35.140"N 40.009761°N	109°35'10.320"W 109.586200°W	1649' FNL 536' FEL
NBU 921-30H1BS	40°00'42.666"N 40.011852°N	109°35'14.202"W 109.587278°W	40°00'42.793"N 40.011887°N	109°35'11.719"W 109.586589°W	874' FNL 643' FEL	40°00'38.787"N 40.010774°N	109°35'12.802"W 109.586889°W	40°00'38.914"N 40.010809°N	109°35'10.318"W 109.586200°W	1267' FNL 535' FEL
NBU 309	40°00'43.975"N 40.012215°N	109°35'14.447"W 109.587346°W	40°00'44.102"N 40.012251°N	109°35'11.963"W 109.586656°W	742' FNL 662' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-30A1BS	633.8'	101.2'	NBU 921-30A1CS	313.1'	117.8'	NBU 921-30B1BS	615.0'	-1300.2'	NBU 921-30B1CS	283.3'	-1303.6'
NBU 921-30H1CS	-784.1'	111.5'	NBU 921-30H1BS	-392.8'	108.5'						



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

WELL PAD - NBU 921-30A

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-30A1BS, NBU 921-30A1CS, NBU 921-30B1BS, NBU 921-30B1CS, NBU 921-30H1CS & NBU 921-30H1BS LOCATED IN SECTION 30, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

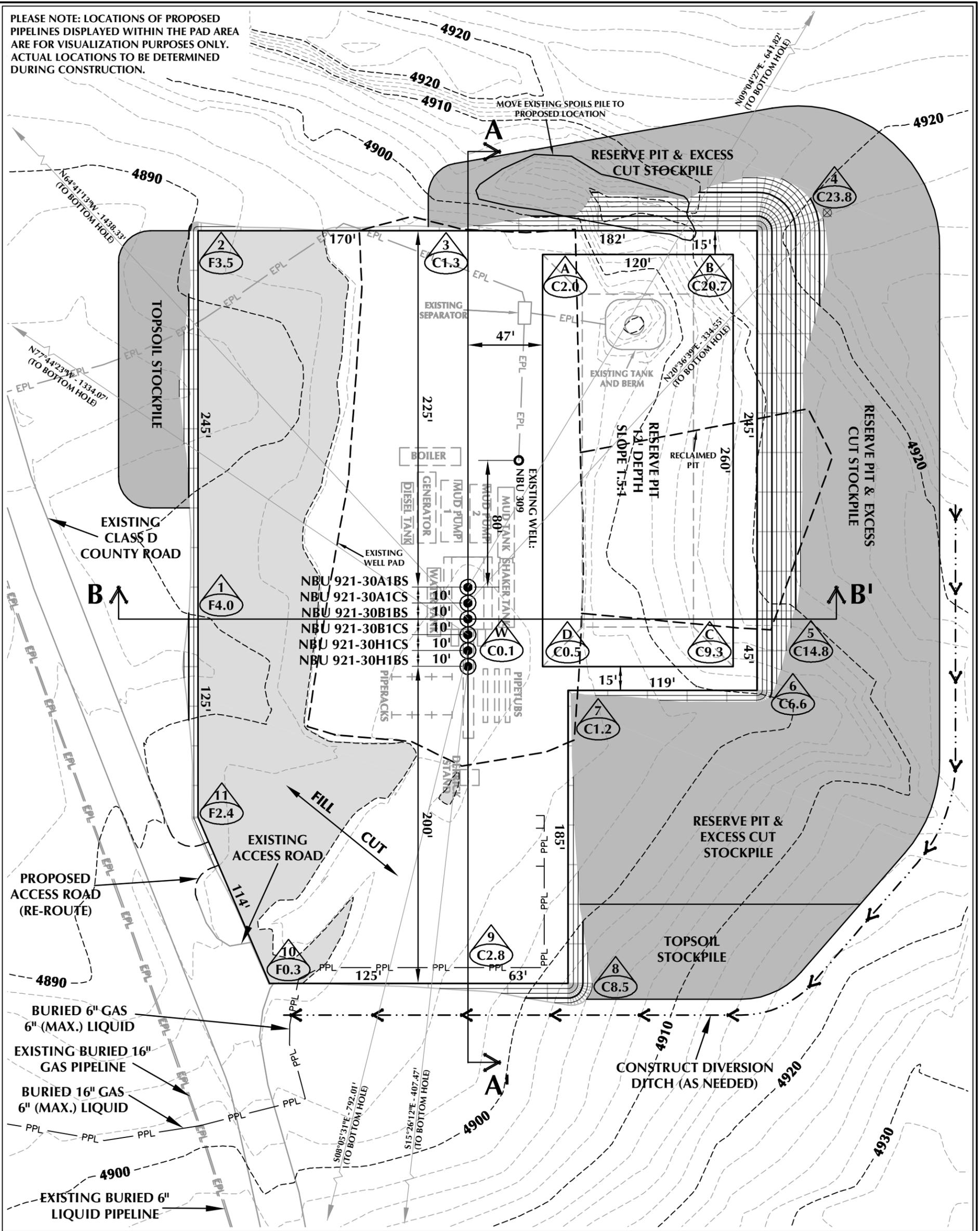


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DATE SURVEYED: 4-3-14	SURVEYED BY: J.W.	SHEET NO: 7
DATE DRAWN: 4-14-14	DRAWN BY: J.G.C.	
SCALE: 1" = 60'		7 OF 18

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



WELL PAD - NBU 921-30A DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4893.9'
 FINISHED GRADE ELEVATION = 4893.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.71 ACRES
 TOTAL DISTURBANCE AREA = 5.64 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-30A
 WELL PAD - LOCATION LAYOUT
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

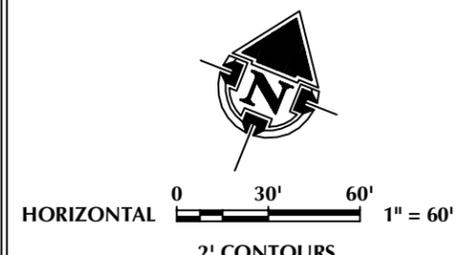
TOTAL CUT FOR WELL PAD = 15,860 C.Y.
 TOTAL FILL FOR WELL PAD = 4,507 C.Y.
 TOPSOIL @ 6" DEPTH = 2,087 C.Y.
 EXCESS MATERIAL = 11,353 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
 +/- 11,020 C.Y.
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 42,290 BARRELS

WELL PAD LEGEND

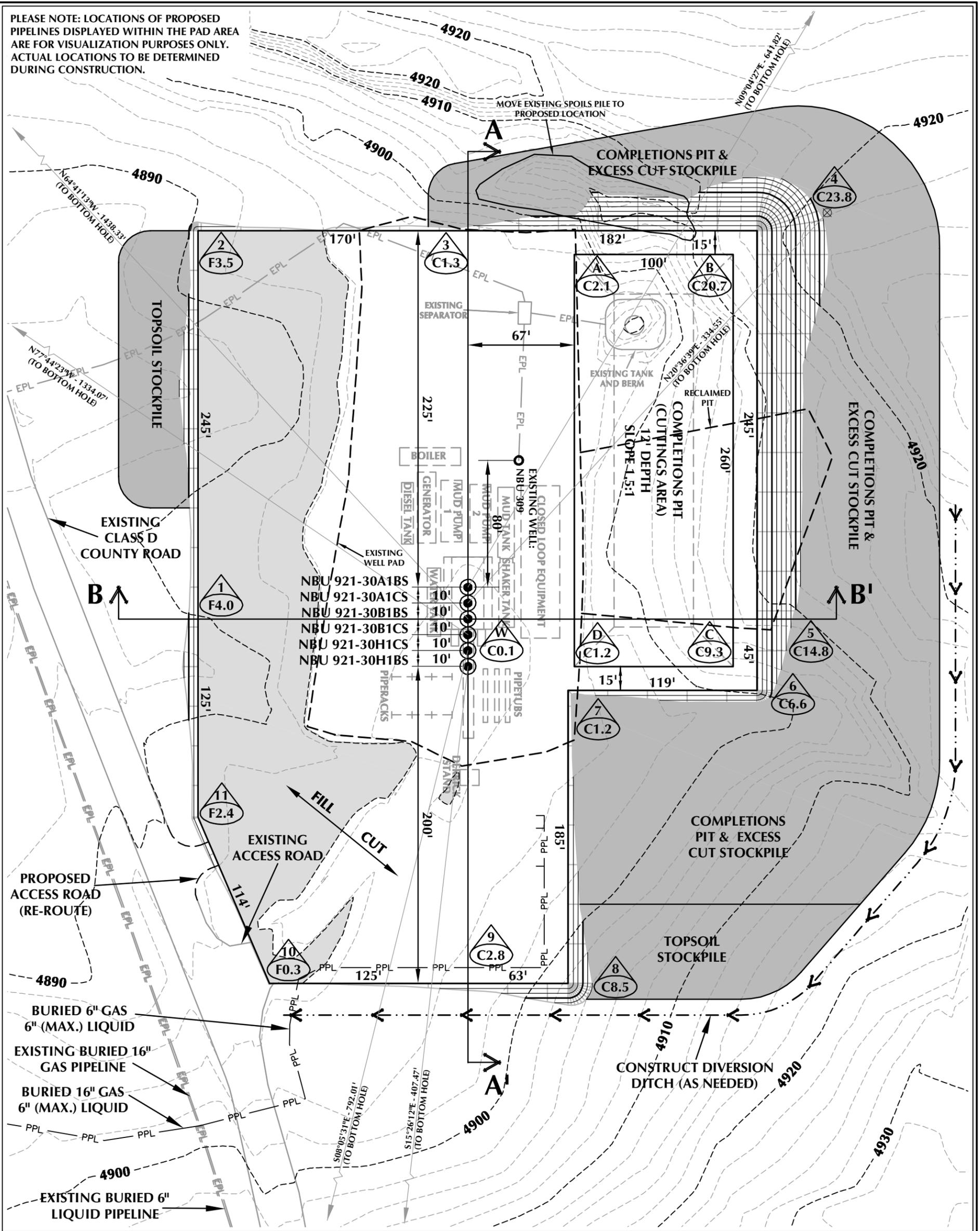
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



SCALE: 1"=60' DATE: 5/21/14 SHEET NO: **8**
 REVISED: 8 OF 18

TIMBERLINE ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078
 (435) 789-1365

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



WELL PAD - NBU 921-30A (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4893.9'
 FINISHED GRADE ELEVATION = 4893.8'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.71 ACRES
 TOTAL DISTURBANCE AREA = 5.64 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-30A
 WELL PAD - LOCATION LAYOUT
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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 2155 North Main Street
 Sheridan, WY 82801
 Phone 307-674-0609
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WELL PAD QUANTITIES

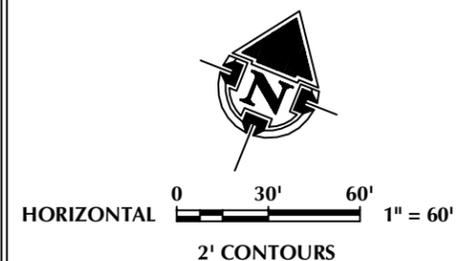
TOTAL CUT FOR WELL PAD = 15,860 C.Y.
 TOTAL FILL FOR WELL PAD = 4,507 C.Y.
 TOPSOIL @ 6" DEPTH = 2,087 C.Y.
 EXCESS MATERIAL = 11,353 C.Y.

COMPLETIONS PIT QUANTITIES

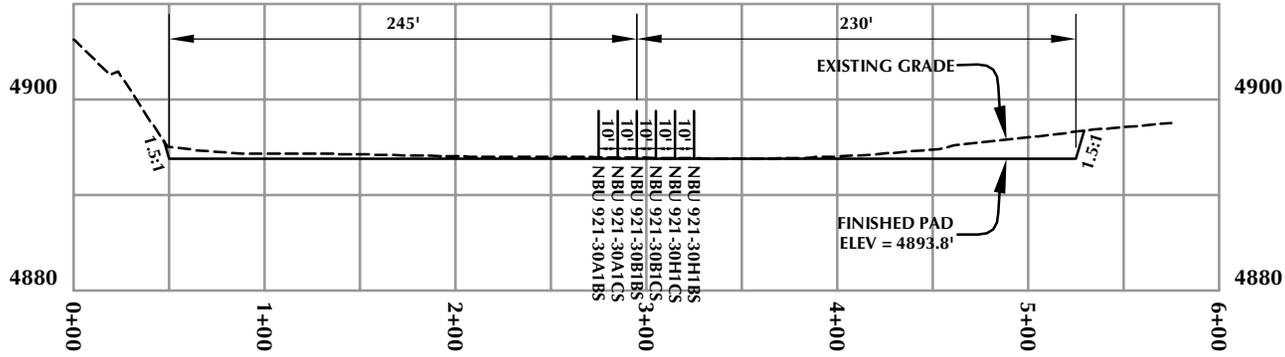
TOTAL CUT FOR COMPLETIONS PIT
 +/- 8,870 C.Y.
 COMPLETIONS PIT CAPACITY
 (2' OF FREEBOARD)
 +/- 33,770 BARRELS

WELL PAD LEGEND

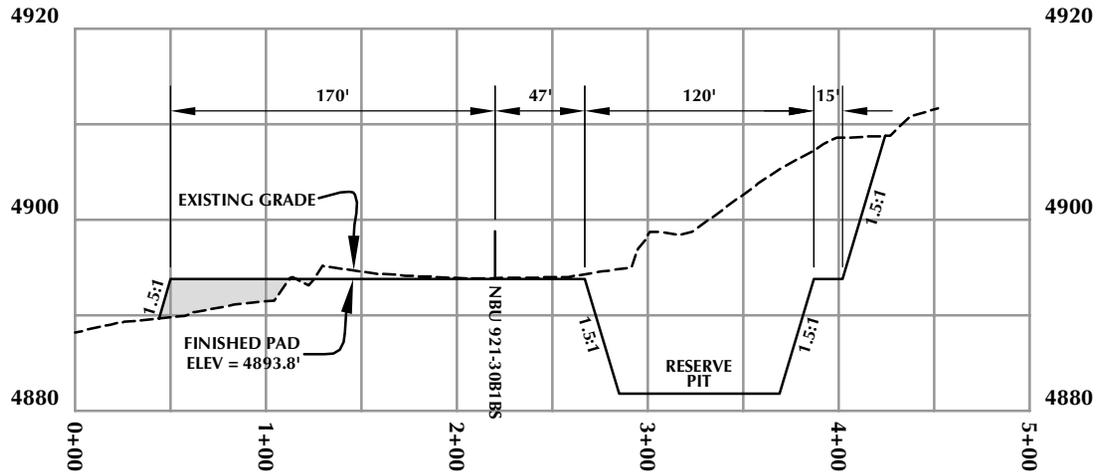
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PROPOSED PIPELINE
- EXISTING PIPELINE



SCALE: 1"=60' DATE: 7/9/14 SHEET NO:
 REVISED: **8B** 8B OF 18



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-30A

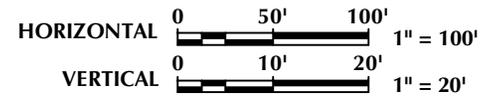
WELL PAD - CROSS SECTIONS
NBU 921-30A1BS, NBU 921-30A1CS,
NBU 921-30B1BS, NBU 921-30B1CS,
NBU 921-30H1CS & NBU 921-30H1BS
LOCATED IN SECTION 30, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
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TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365



SCALE: 1"=100'

DATE: 5/21/14

SHEET NO:

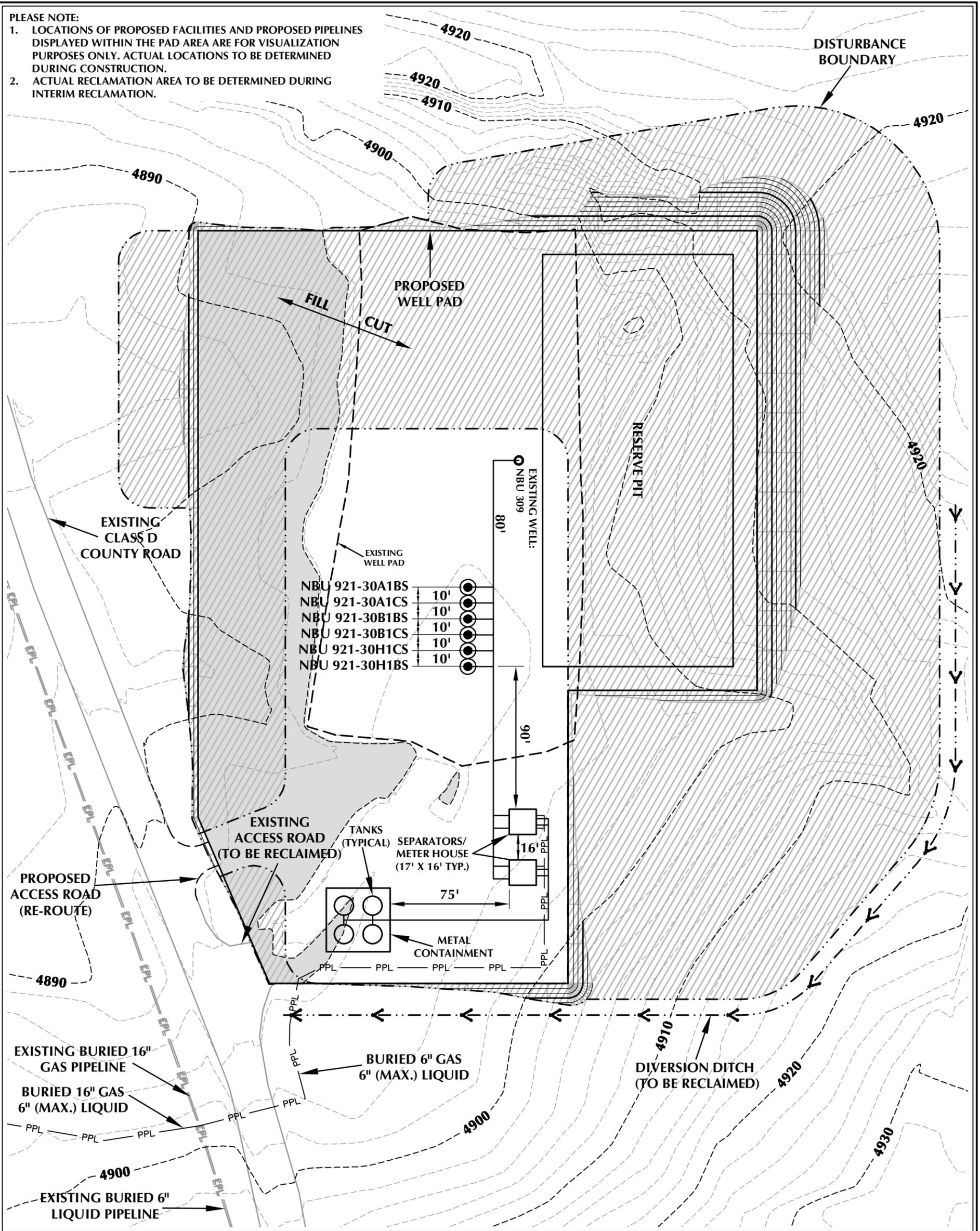
REVISED:

9

9 OF 18

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.



WELL PAD - NBU 921-30A RECLAMATION DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 5.64 ACRES (INCLUDING EXISTING)
 RECLAMATION AREA = 4.18 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.46 ACRES

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

WELL PAD - NBU 921-30A

WELL PAD - RECLAMATION LAYOUT
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

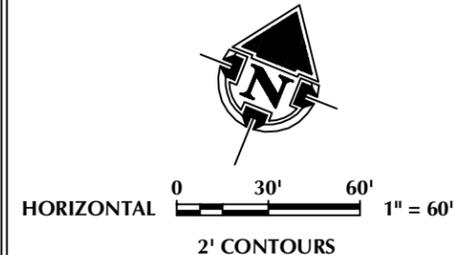


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TIMBERLINE
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

- WELL PAD LEGEND**
- EXISTING WELL LOCATION
 - PROPOSED WELL LOCATION
 - EXISTING CONTOURS (2' INTERVAL)
 - PROPOSED CONTOURS (2' INTERVAL)
 - PROPOSED PIPELINE
 - EXISTING PIPELINE
 - RECLAMATION AREA



SCALE: 1"=60' DATE: 5/21/14 SHEET NO: **10** OF 18

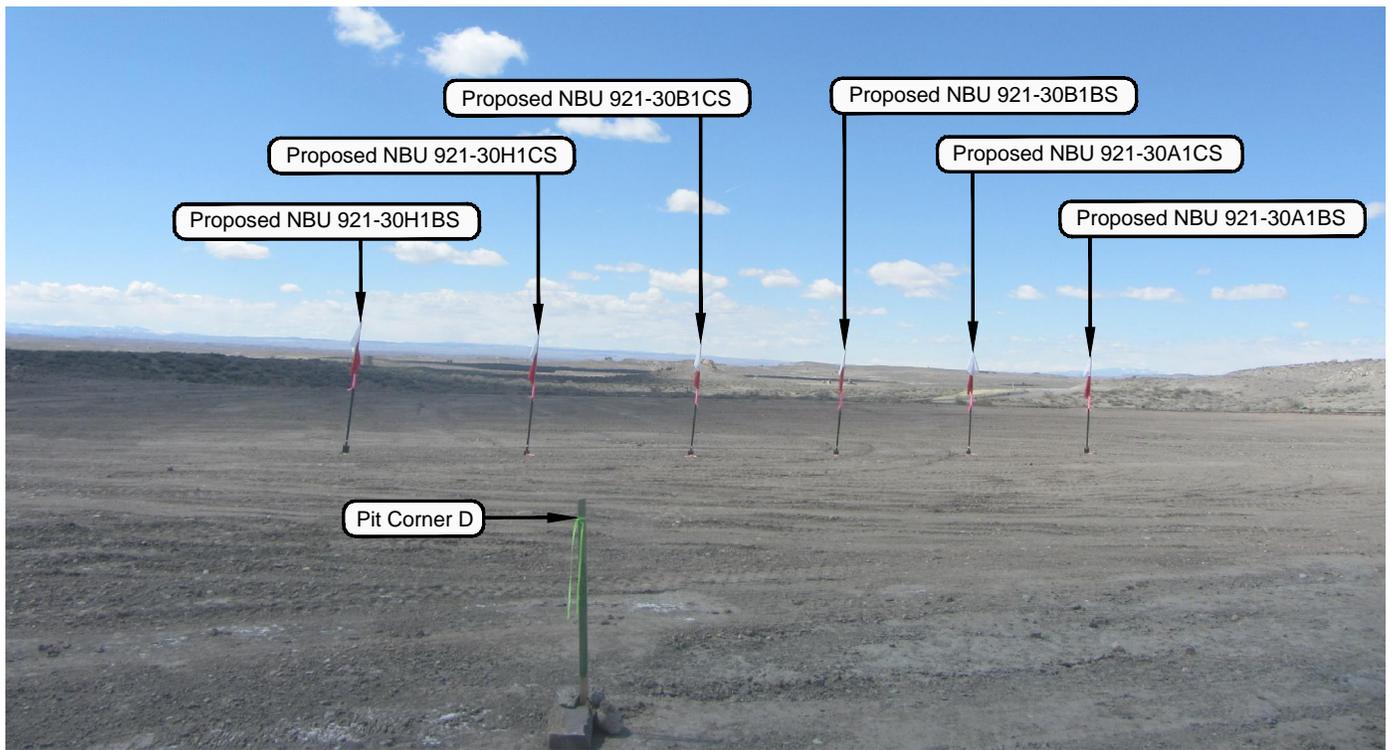


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: WESTERLY



PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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

WELL PAD - NBU 921-30A

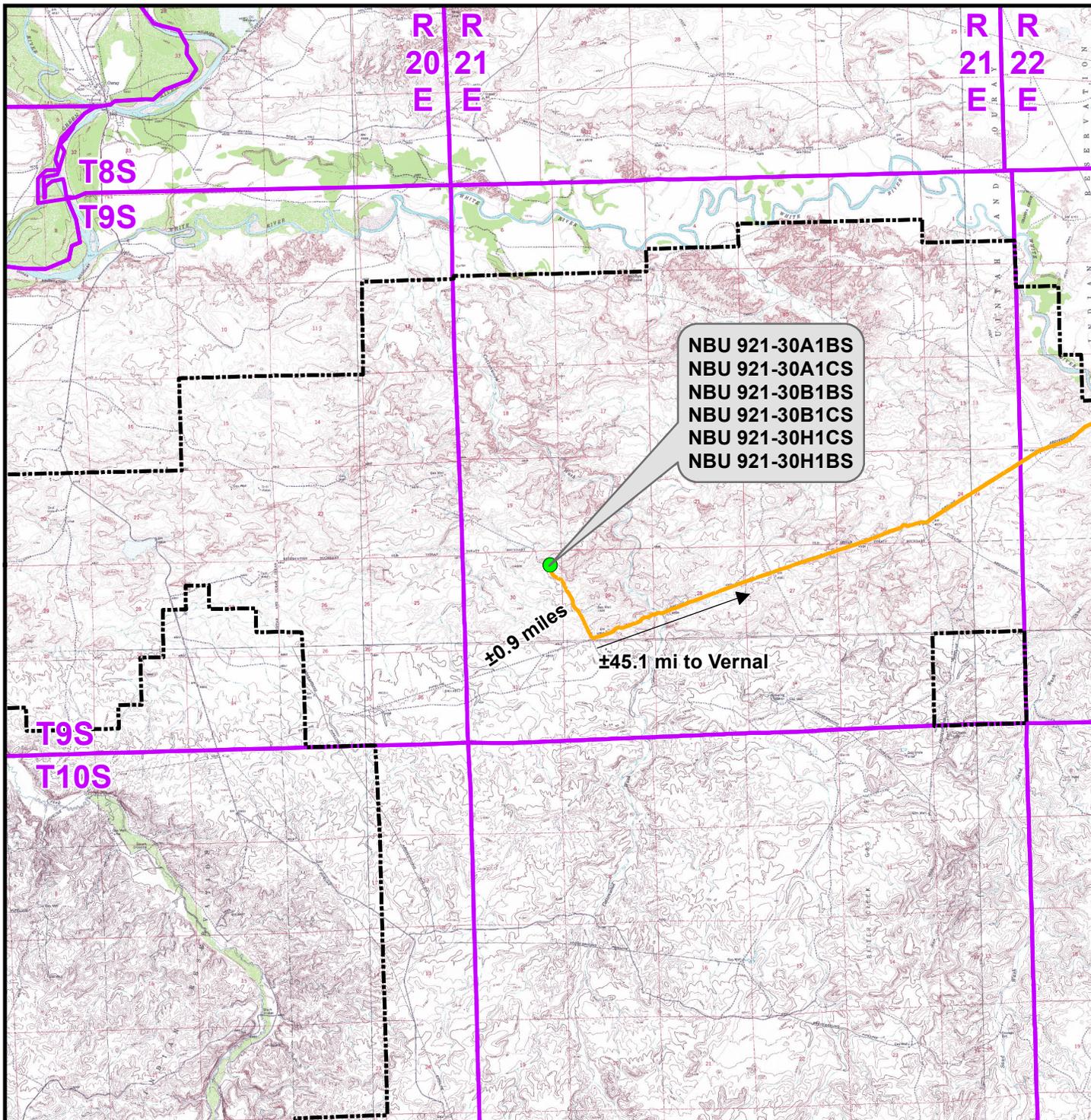
LOCATION PHOTOS
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



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 Sheridan, WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE PHOTOS TAKEN: 4-3-14	PHOTOS TAKEN BY: J.W.	SHEET NO: 11
DATE DRAWN: 4-14-14	DRAWN BY: J.G.C.	
Date Last Revised:		11 OF 18



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Legend

- Proposed Well Location
- Natural Buttes Unit Boundary
- Access Route - Proposed

Distance From Well Pad - NBU 921-30A To Unit Boundary: ±14,393ft

WELL PAD - NBU 921-30A

TOPO A
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

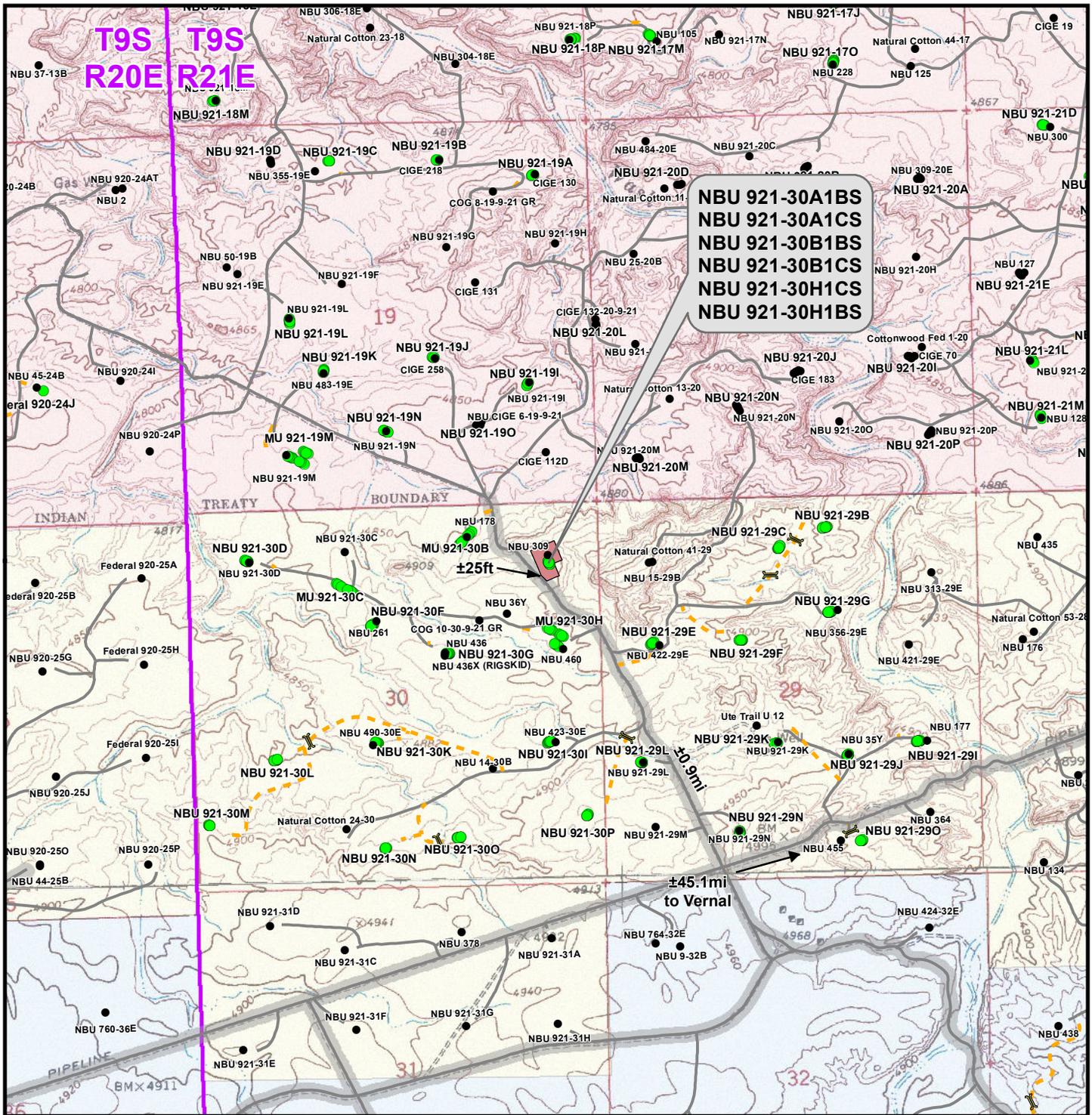
DATE: 21 May 2014

12

REVISED:

DATE:

12 OF 18



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Legend

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

Total Proposed Road Length: ±25ft

WELL PAD - NBU 921-30A

TOPO B
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

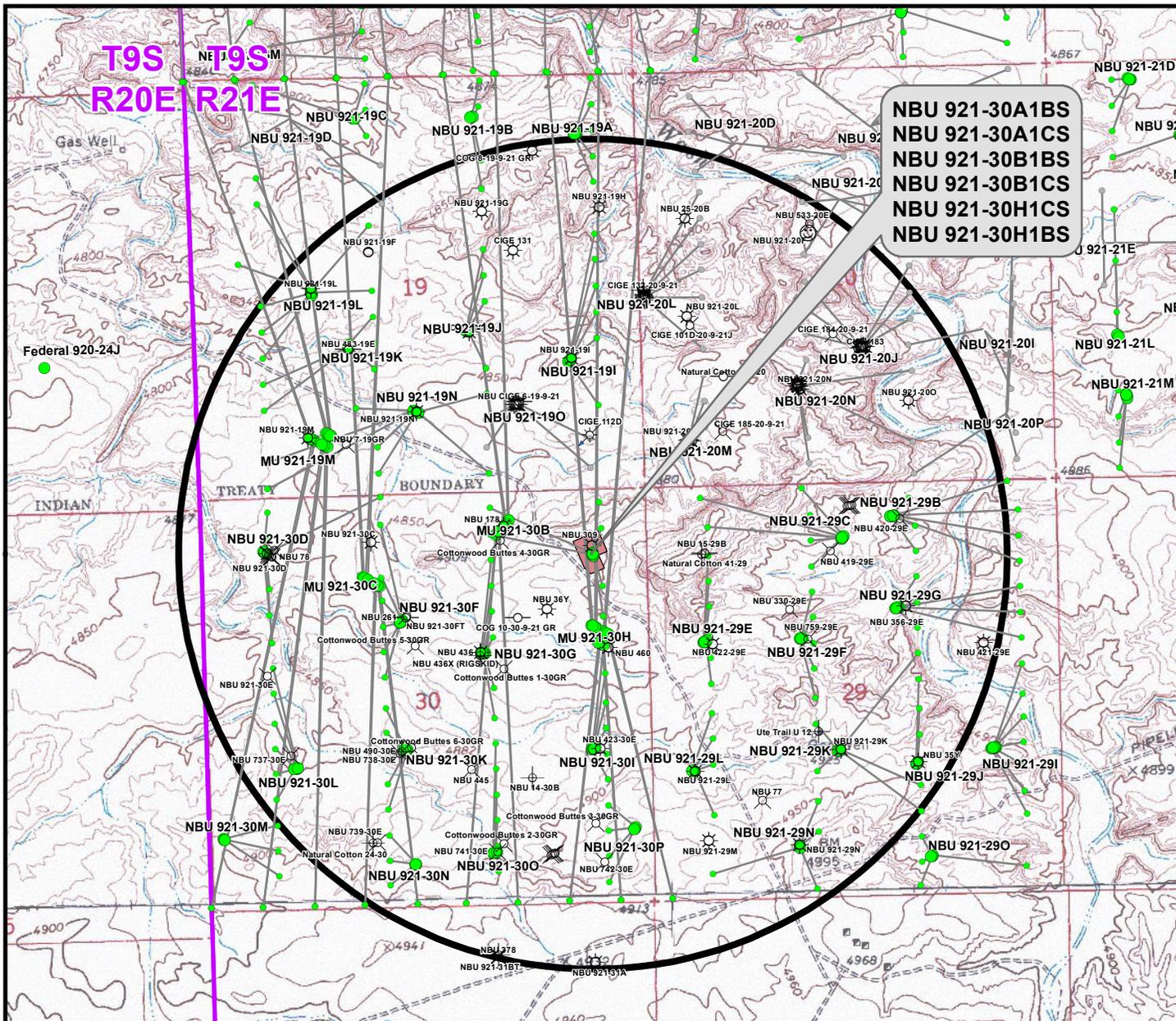
**Kerr-McGee Oil &
 Gas Onshore L.P.**

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	13 13 OF 18
DRAWN: TL	DATE: 21 May 2014	
REVISED: TL	DATE: 9 July 2014	



NBU 921-30A1BS
 NBU 921-30A1CS
 NBU 921-30B1BS
 NBU 921-30B1CS
 NBU 921-30H1CS
 NBU 921-30H1BS

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
NBU 921-30A1BS	NBU 309	±557ft
NBU 921-30A1CS	NBU 309	±249ft
NBU 921-30B1BS	NBU 178	±291ft
NBU 921-30B1CS	NBU 178	±201ft
NBU 921-30H1CS	NBU 460	±409ft
NBU 921-30H1BS	NBU 309	±540ft

Legend

- Well - Proposed
- Well Path
- ☀ Producing
- ⊕ Deferred
- ☀ Active Injector
- ⊕ Plugged & Abandoned
- Bottom Hole - Proposed
- Well Pad
- ☺ Spudded
- ⊗ Cancelled
- ☀ Location Abandoned
- APD Approved
- ⊖ Temporarily Abandoned
- Shut-In
- Bottom Hole - Existing
- ◻ Well - 1 Mile Radius
- ⊗ Preliminary Location

WELL PAD - NBU 921-30A

TOPO C
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., Uintah County, Utah

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

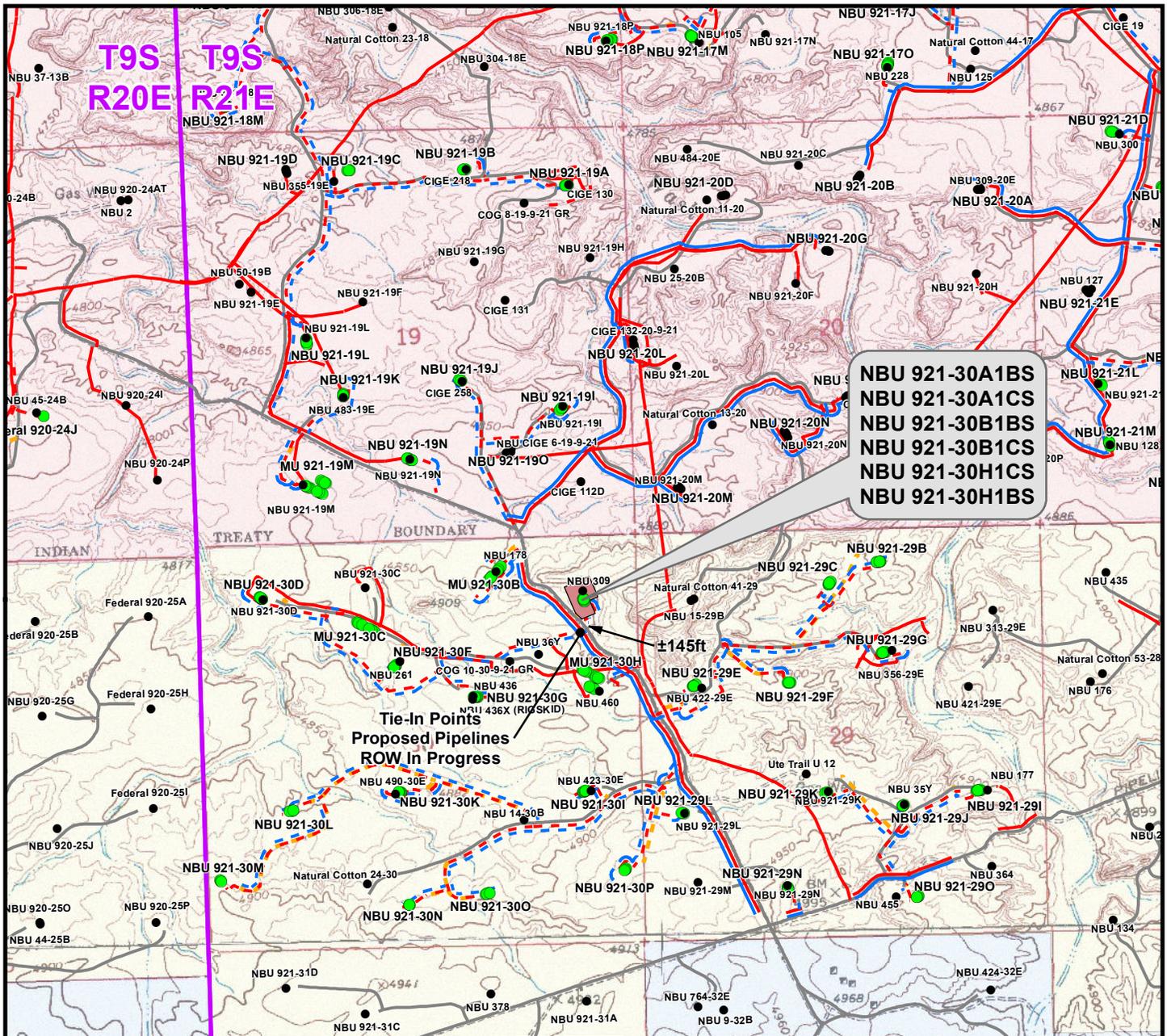
1099 18th Street
 Denver, Colorado 80202



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

SCALE: 1" = 2,000ft	NAD83 USP Central	14
DRAWN: TL	DATE: 9 July 2014	
REVISED:	DATE:	

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**NBU 921-30A1BS
 NBU 921-30A1CS
 NBU 921-30B1BS
 NBU 921-30B1CS
 NBU 921-30H1CS
 NBU 921-30H1BS**

**Tie-In Points
 Proposed Pipelines
 ROW In Progress**

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±260ft
Buried 6" (Max.) (Edge of Pad to Proposed 6" (Max.) Liquid Pipeline ROW In Progress)	±145ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±405ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±260ft
Buried 6" (Edge of Pad to Proposed 16" Gas Pipeline ROW In Progress)	±145ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±405ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- - - Gas Pipeline - Proposed
- - - Gas Pipeline - To Be Upgraded
- - - Gas Pipeline - Existing
- - - Liquid Pipeline - Proposed
- - - Liquid Pipeline - Existing
- - - Road - Proposed
- - - Road - Existing
- Bureau of Land Management
- State
- Indian Reservation
- Private

WELL PAD - NBU 921-30A

TOPO D
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

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 Denver, Colorado 80202

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 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

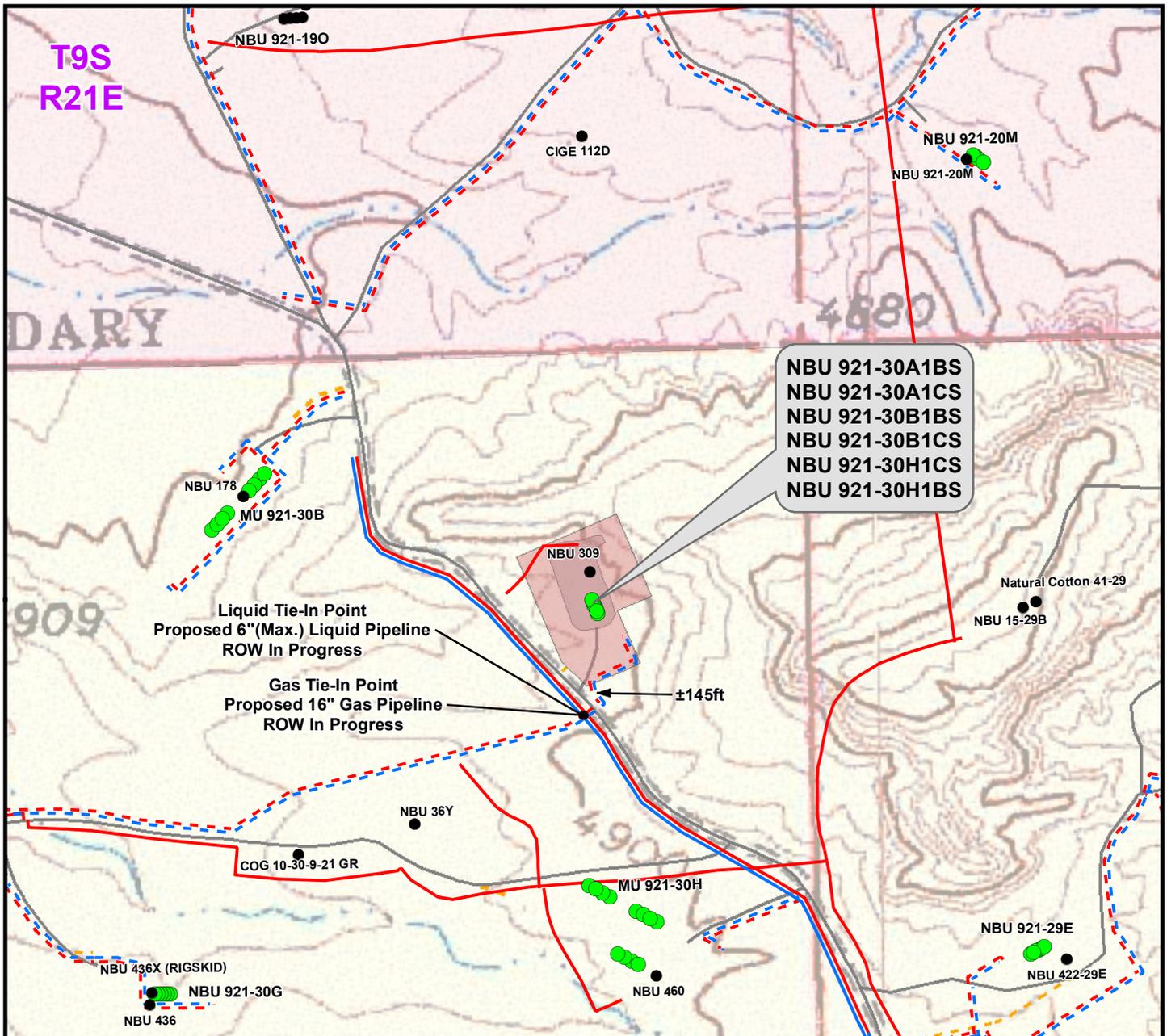
NAD83 USP Central

DATE: 9 July 2014

DATE:

SHEET NO:
15
 15 OF 18

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NBU 921-30A1BS
 NBU 921-30A1CS
 NBU 921-30B1BS
 NBU 921-30B1CS
 NBU 921-30H1CS
 NBU 921-30H1BS

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Separator to Edge of Pad)	±260ft
Buried 6" (Max.) (Edge of Pad to Proposed 6" (Max.) Liquid Pipeline ROW In Progress)	±145ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±405ft

Proposed Gas Pipeline	Length
Buried 6" (Meter House to Edge of Pad)	±260ft
Buried 6" (Edge of Pad to Proposed 16" Gas Pipeline ROW In Progress)	±145ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±405ft

Legend

- Well - Proposed ■ Well Pad - Proposed - - - Gas Pipeline - Proposed - - - Liquid Pipeline - Proposed - - - Road - Proposed Bureau of Land Management
- Well - Existing ■ Well Pad - Existing - - - Gas Pipeline - To Be Upgraded - - - Liquid Pipeline - Existing - - - Road - Existing Indian Reservation
- - - Gas Pipeline - Existing - - - State
- - - Private

WELL PAD - NBU 921-30A

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 921-30A1BS, NBU 921-30A1CS,
 NBU 921-30B1BS, NBU 921-30B1CS,
 NBU 921-30H1CS & NBU 921-30H1BS
 LOCATED IN SECTION 30, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202

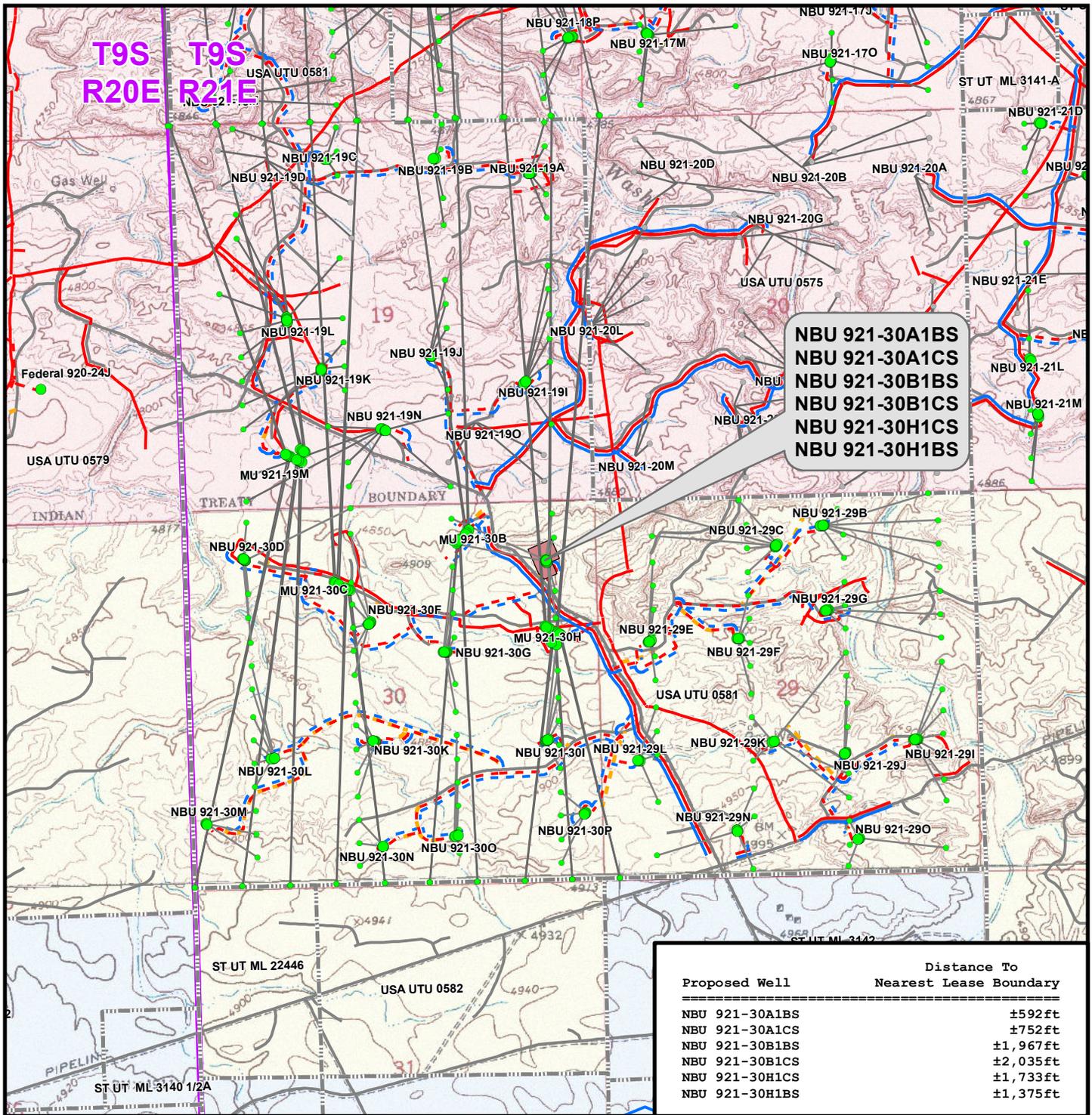


CONSULTING, LLC
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 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1" = 500ft	NAD83 USP Central	16 16 OF 18
DRAWN: TL	DATE: 21 May 2014	
REVISED:	DATE:	

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**NBU 921-30A1BS
NBU 921-30A1CS
NBU 921-30B1BS
NBU 921-30B1CS
NBU 921-30H1CS
NBU 921-30H1BS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 921-30A1BS	±592ft
NBU 921-30A1CS	±752ft
NBU 921-30B1BS	±1,967ft
NBU 921-30B1CS	±2,035ft
NBU 921-30H1CS	±1,733ft
NBU 921-30H1BS	±1,375ft

Legend

- Well - Proposed
- Well Pad
- - - Gas Pipeline - Proposed
- - - Liquid Pipeline - Proposed
- - - Road - Proposed
- Bureau of Land Management
- Bottom Hole - Proposed
- ▬ Lease Boundary
- - - Gas Pipeline - To Be Upgraded
- - - Liquid Pipeline - Existing
- - - Road - Existing
- Indian Reservation
- Bottom Hole - Existing
- - - Gas Pipeline - Existing
- - - State
- - - Private
- Well Path

WELL PAD - NBU 921-30A

TOPO E
NBU 921-30A1BS, NBU 921-30A1CS,
NBU 921-30B1BS, NBU 921-30B1CS,
NBU 921-30H1CS & NBU 921-30H1BS
LOCATED IN SECTION 30, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

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

SCALE: 1" = 2,000ft

DRAWN: TL

REVISED:

NAD83 USP Central

DATE: 9 July 2014

DATE:

SHEET NO:

17

17 OF 18

K:\ANADARKO\2014\2014_09_NBU_921-30_FOCUS\GIS\Maps_ABCDENBU 921-30A\NBU 921-30A_E.mxd\7/20/14 5:30:16 PM

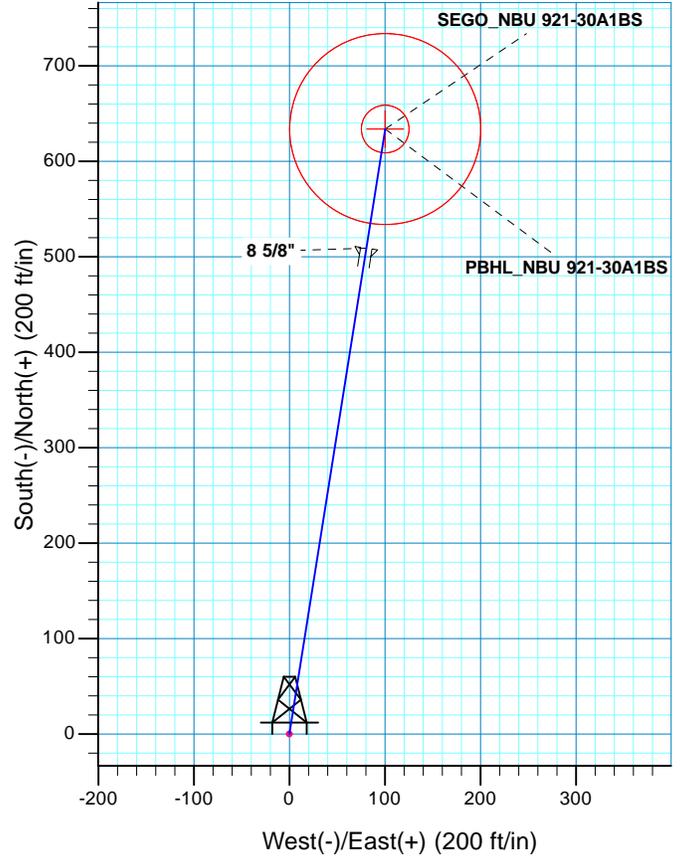
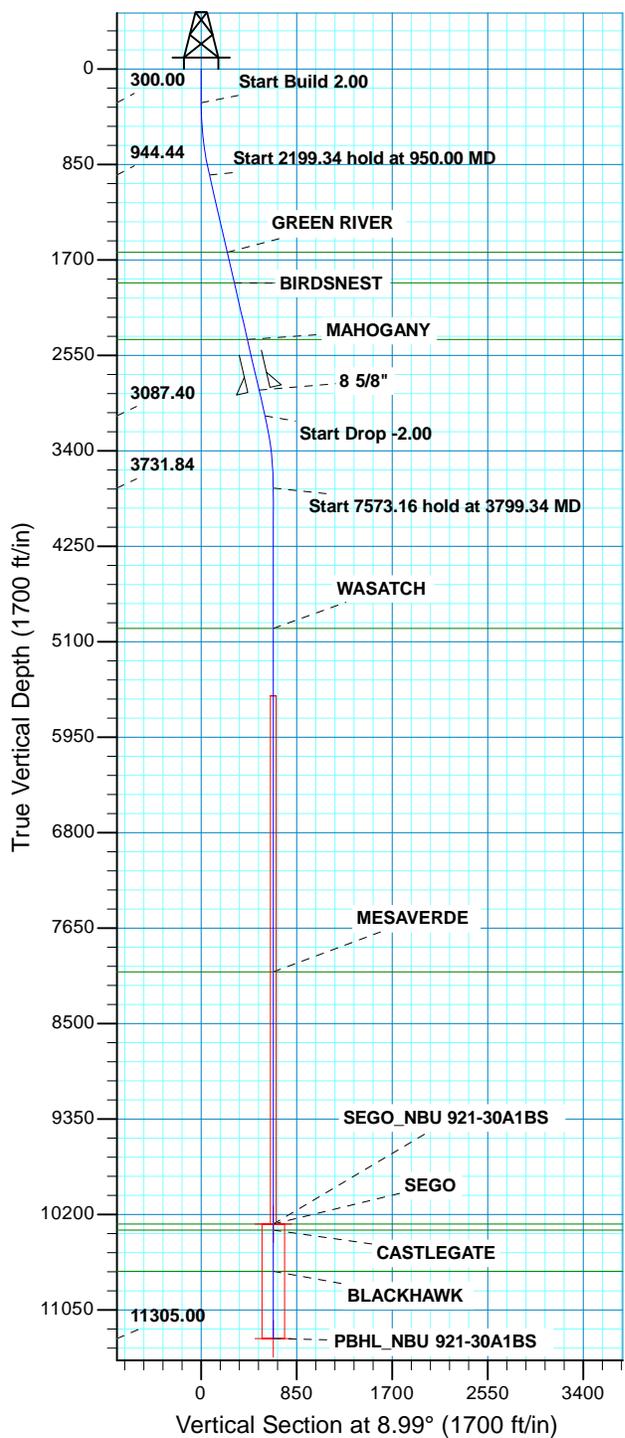
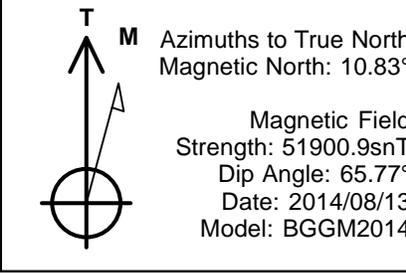
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 921-30A
WELLS – NBU 921-30A1BS, NBU 921-30A1CS,
NBU 921-30B1BS, NBU 921-30B1CS,
NBU 921-30H1CS & NBU 921-30H1BS
SECTION 30, T9S, R21E, S.L.B.&M.
UINTAH COUNTY, UTAH**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah, proceed in an easterly, then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 3.9 miles to a second Class D County Road to the northwest. Exit right and proceed in a northwesterly direction along the second Class D County Road approximately 0.9 miles to the proposed access road to the northeast. Exit right and follow road flags in a northeasterly direction approximately 25 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 46.0 miles in a southerly direction.



WELL DETAILS: NBU 921-30A1BS					
GL 4894 & KB 4 @ 4898.00R (ASSUMED)					
+N-/S 0.00	+E-/W 0.00	Northing 14533557.77	Easting 2036173.34	Latitude 40.0120140	Longitude -109.5866550



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-/S	+E-/W	Dleg	TFace	V Sect	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
950.00	13.00	8.99	944.44	72.52	11.47	2.00	8.99	73.42	
3149.34	13.00	8.99	3087.40	561.19	88.79	0.00	0.00	568.17	
3799.34	0.00	0.00	3731.84	633.71	100.26	2.00	180.00	641.59	
11372.49	0.00	0.00	11305.00	633.71	100.26	0.00	0.00	641.59	PBHL_NBU 921-30A1BS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N				FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)	TVDPath	MDPath	Formation			
Datum: NAD 1927 (NADCON CONUS)	1633.00	1656.67	GREEN RIVER			
Ellipsoid: Clarke 1866	1904.00	1934.80	BIRDSNEST			
Zone: Zone 12N (114 W to 108 W)	2408.00	2452.06	MAHOGANY			
Location: SECTION 30 T9S R21E	4982.00	5049.49	WASATCH			
System Datum: Mean Sea Level	8040.00	8107.49	MESAVERDE			
	10285.00	10352.49	SEGO			
	10339.00	10406.49	CASTLEGATE			
	10705.00	10772.49	BLACKHAWK			

CASING DETAILS			
TVD	MD	Name	Size
2858.00	2913.90	8 5/8"	8.625

RECEIVED :



Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N

NBU 921-30A PAD

NBU 921-30A1BS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

14 August, 2014





Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 921-30A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Site:	NBU 921-30A PAD	North Reference:	True
Well:	NBU 921-30A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Project	UTAH - UTM (feet), NAD27, Zone 12N		
Map System:	Universal Transverse Mercator (US Survey Feet)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-30A PAD, SECTION 30 T9S R21E				
Site Position:	Northing:	14,533,557.78 usft	Latitude:	40.0120140	
From: Lat/Long	Easting:	2,036,173.34 usft	Longitude:	-109.5866550	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.91 °

Well	NBU 921-30A1BS, 828 FNL 662 FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,533,557.78 usft	Latitude:	40.0120140
	+E/-W	0.00 ft	Easting:	2,036,173.34 usft	Longitude:	-109.5866550
Position Uncertainty		0.00 ft	Wellhead Elevation:	0.00 ft	Ground Level:	4,894.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	BGGM2014	2014/08/13	10.83	65.77	51,901

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	0.00	0.00	8.99

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
950.00	13.00	8.99	944.44	72.52	11.47	2.00	2.00	0.00	8.99	
3,149.34	13.00	8.99	3,087.40	561.19	88.79	0.00	0.00	0.00	0.00	
3,799.34	0.00	0.00	3,731.84	633.71	100.26	2.00	-2.00	0.00	180.00	
11,372.49	0.00	0.00	11,305.00	633.71	100.26	0.00	0.00	0.00	0.00	PBHL_NBU 921-30A'



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 921-30A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Site:	NBU 921-30A PAD	North Reference:	True
Well:	NBU 921-30A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00										
400.00	2.00	8.99	399.98	1.72	0.27	1.75	2.00	2.00	2.00	0.00
500.00	4.00	8.99	499.84	6.89	1.09	6.98	2.00	2.00	2.00	0.00
600.00	6.00	8.99	599.45	15.50	2.45	15.69	2.00	2.00	2.00	0.00
700.00	8.00	8.99	698.70	27.54	4.36	27.88	2.00	2.00	2.00	0.00
800.00	10.00	8.99	797.47	42.99	6.80	43.52	2.00	2.00	2.00	0.00
900.00	12.00	8.99	895.62	61.83	9.78	62.60	2.00	2.00	2.00	0.00
950.00	13.00	8.99	944.44	72.52	11.47	73.42	2.00	2.00	2.00	0.00
Start 2199.34 hold at 950.00 MD										
1,000.00	13.00	8.99	993.16	83.63	13.23	84.67	0.00	0.00	0.00	0.00
1,100.00	13.00	8.99	1,090.59	105.85	16.75	107.17	0.00	0.00	0.00	0.00
1,200.00	13.00	8.99	1,188.03	128.07	20.26	129.66	0.00	0.00	0.00	0.00
1,300.00	13.00	8.99	1,285.47	150.29	23.78	152.16	0.00	0.00	0.00	0.00
1,400.00	13.00	8.99	1,382.90	172.51	27.29	174.65	0.00	0.00	0.00	0.00
1,500.00	13.00	8.99	1,480.34	194.73	30.81	197.15	0.00	0.00	0.00	0.00
1,600.00	13.00	8.99	1,577.78	216.94	34.32	219.64	0.00	0.00	0.00	0.00
1,656.67	13.00	8.99	1,633.00	229.54	36.32	232.39	0.00	0.00	0.00	0.00
GREEN RIVER										
1,700.00	13.00	8.99	1,675.21	239.16	37.84	242.14	0.00	0.00	0.00	0.00
1,800.00	13.00	8.99	1,772.65	261.38	41.35	264.63	0.00	0.00	0.00	0.00
1,900.00	13.00	8.99	1,870.09	283.60	44.87	287.13	0.00	0.00	0.00	0.00
1,934.80	13.00	8.99	1,904.00	291.33	46.09	294.96	0.00	0.00	0.00	0.00
BIRDSNEST										
2,000.00	13.00	8.99	1,967.53	305.82	48.38	309.62	0.00	0.00	0.00	0.00
2,100.00	13.00	8.99	2,064.96	328.04	51.90	332.12	0.00	0.00	0.00	0.00
2,200.00	13.00	8.99	2,162.40	350.26	55.41	354.61	0.00	0.00	0.00	0.00
2,300.00	13.00	8.99	2,259.84	372.48	58.93	377.11	0.00	0.00	0.00	0.00
2,400.00	13.00	8.99	2,357.27	394.69	62.44	399.60	0.00	0.00	0.00	0.00
2,452.06	13.00	8.99	2,408.00	406.26	64.27	411.31	0.00	0.00	0.00	0.00
MAHOGANY										
2,500.00	13.00	8.99	2,454.71	416.91	65.96	422.10	0.00	0.00	0.00	0.00
2,600.00	13.00	8.99	2,552.15	439.13	69.48	444.59	0.00	0.00	0.00	0.00
2,700.00	13.00	8.99	2,649.58	461.35	72.99	467.09	0.00	0.00	0.00	0.00
2,800.00	13.00	8.99	2,747.02	483.57	76.51	489.58	0.00	0.00	0.00	0.00
2,900.00	13.00	8.99	2,844.46	505.79	80.02	512.08	0.00	0.00	0.00	0.00
2,913.90	13.00	8.99	2,858.00	508.88	80.51	515.21	0.00	0.00	0.00	0.00
8 5/8"										
3,000.00	13.00	8.99	2,941.90	528.01	83.54	534.57	0.00	0.00	0.00	0.00
3,100.00	13.00	8.99	3,039.33	550.23	87.05	557.07	0.00	0.00	0.00	0.00
3,149.34	13.00	8.99	3,087.40	561.19	88.79	568.17	0.00	0.00	0.00	0.00
Start Drop -2.00										
3,200.00	11.99	8.99	3,136.87	572.01	90.50	579.13	2.00	-2.00	0.00	0.00
3,300.00	9.99	8.99	3,235.03	590.84	93.48	598.18	2.00	-2.00	0.00	0.00
3,400.00	7.99	8.99	3,333.80	606.26	95.92	613.80	2.00	-2.00	0.00	0.00
3,500.00	5.99	8.99	3,433.05	618.28	97.82	625.97	2.00	-2.00	0.00	0.00
3,600.00	3.99	8.99	3,532.67	626.86	99.18	634.66	2.00	-2.00	0.00	0.00
3,700.00	1.99	8.99	3,632.53	632.01	99.99	639.87	2.00	-2.00	0.00	0.00
3,799.34	0.00	0.00	3,731.84	633.71	100.26	641.59	2.00	-2.00	0.00	0.00
Start 7573.16 hold at 3799.34 MD										



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 921-30A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Site:	NBU 921-30A PAD	North Reference:	True
Well:	NBU 921-30A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,732.51	633.71	100.26	641.59	0.00	0.00	0.00
3,900.00	0.00	0.00	3,832.51	633.71	100.26	641.59	0.00	0.00	0.00
4,000.00	0.00	0.00	3,932.51	633.71	100.26	641.59	0.00	0.00	0.00
4,100.00	0.00	0.00	4,032.51	633.71	100.26	641.59	0.00	0.00	0.00
4,200.00	0.00	0.00	4,132.51	633.71	100.26	641.59	0.00	0.00	0.00
4,300.00	0.00	0.00	4,232.51	633.71	100.26	641.59	0.00	0.00	0.00
4,400.00	0.00	0.00	4,332.51	633.71	100.26	641.59	0.00	0.00	0.00
4,500.00	0.00	0.00	4,432.51	633.71	100.26	641.59	0.00	0.00	0.00
4,600.00	0.00	0.00	4,532.51	633.71	100.26	641.59	0.00	0.00	0.00
4,700.00	0.00	0.00	4,632.51	633.71	100.26	641.59	0.00	0.00	0.00
4,800.00	0.00	0.00	4,732.51	633.71	100.26	641.59	0.00	0.00	0.00
4,900.00	0.00	0.00	4,832.51	633.71	100.26	641.59	0.00	0.00	0.00
5,000.00	0.00	0.00	4,932.51	633.71	100.26	641.59	0.00	0.00	0.00
5,049.49	0.00	0.00	4,982.00	633.71	100.26	641.59	0.00	0.00	0.00
WASATCH									
5,100.00	0.00	0.00	5,032.51	633.71	100.26	641.59	0.00	0.00	0.00
5,200.00	0.00	0.00	5,132.51	633.71	100.26	641.59	0.00	0.00	0.00
5,300.00	0.00	0.00	5,232.51	633.71	100.26	641.59	0.00	0.00	0.00
5,400.00	0.00	0.00	5,332.51	633.71	100.26	641.59	0.00	0.00	0.00
5,500.00	0.00	0.00	5,432.51	633.71	100.26	641.59	0.00	0.00	0.00
5,600.00	0.00	0.00	5,532.51	633.71	100.26	641.59	0.00	0.00	0.00
5,700.00	0.00	0.00	5,632.51	633.71	100.26	641.59	0.00	0.00	0.00
5,800.00	0.00	0.00	5,732.51	633.71	100.26	641.59	0.00	0.00	0.00
5,900.00	0.00	0.00	5,832.51	633.71	100.26	641.59	0.00	0.00	0.00
6,000.00	0.00	0.00	5,932.51	633.71	100.26	641.59	0.00	0.00	0.00
6,100.00	0.00	0.00	6,032.51	633.71	100.26	641.59	0.00	0.00	0.00
6,200.00	0.00	0.00	6,132.51	633.71	100.26	641.59	0.00	0.00	0.00
6,300.00	0.00	0.00	6,232.51	633.71	100.26	641.59	0.00	0.00	0.00
6,400.00	0.00	0.00	6,332.51	633.71	100.26	641.59	0.00	0.00	0.00
6,500.00	0.00	0.00	6,432.51	633.71	100.26	641.59	0.00	0.00	0.00
6,600.00	0.00	0.00	6,532.51	633.71	100.26	641.59	0.00	0.00	0.00
6,700.00	0.00	0.00	6,632.51	633.71	100.26	641.59	0.00	0.00	0.00
6,800.00	0.00	0.00	6,732.51	633.71	100.26	641.59	0.00	0.00	0.00
6,900.00	0.00	0.00	6,832.51	633.71	100.26	641.59	0.00	0.00	0.00
7,000.00	0.00	0.00	6,932.51	633.71	100.26	641.59	0.00	0.00	0.00
7,100.00	0.00	0.00	7,032.51	633.71	100.26	641.59	0.00	0.00	0.00
7,200.00	0.00	0.00	7,132.51	633.71	100.26	641.59	0.00	0.00	0.00
7,300.00	0.00	0.00	7,232.51	633.71	100.26	641.59	0.00	0.00	0.00
7,400.00	0.00	0.00	7,332.51	633.71	100.26	641.59	0.00	0.00	0.00
7,500.00	0.00	0.00	7,432.51	633.71	100.26	641.59	0.00	0.00	0.00
7,600.00	0.00	0.00	7,532.51	633.71	100.26	641.59	0.00	0.00	0.00
7,700.00	0.00	0.00	7,632.51	633.71	100.26	641.59	0.00	0.00	0.00
7,800.00	0.00	0.00	7,732.51	633.71	100.26	641.59	0.00	0.00	0.00
7,900.00	0.00	0.00	7,832.51	633.71	100.26	641.59	0.00	0.00	0.00
8,000.00	0.00	0.00	7,932.51	633.71	100.26	641.59	0.00	0.00	0.00
8,100.00	0.00	0.00	8,032.51	633.71	100.26	641.59	0.00	0.00	0.00
8,107.49	0.00	0.00	8,040.00	633.71	100.26	641.59	0.00	0.00	0.00
MESAVERDE									
8,200.00	0.00	0.00	8,132.51	633.71	100.26	641.59	0.00	0.00	0.00
8,300.00	0.00	0.00	8,232.51	633.71	100.26	641.59	0.00	0.00	0.00
8,400.00	0.00	0.00	8,332.51	633.71	100.26	641.59	0.00	0.00	0.00
8,500.00	0.00	0.00	8,432.51	633.71	100.26	641.59	0.00	0.00	0.00
8,600.00	0.00	0.00	8,532.51	633.71	100.26	641.59	0.00	0.00	0.00
8,700.00	0.00	0.00	8,632.51	633.71	100.26	641.59	0.00	0.00	0.00



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 921-30A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Site:	NBU 921-30A PAD	North Reference:	True
Well:	NBU 921-30A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,732.51	633.71	100.26	641.59	0.00	0.00	0.00
8,900.00	0.00	0.00	8,832.51	633.71	100.26	641.59	0.00	0.00	0.00
9,000.00	0.00	0.00	8,932.51	633.71	100.26	641.59	0.00	0.00	0.00
9,100.00	0.00	0.00	9,032.51	633.71	100.26	641.59	0.00	0.00	0.00
9,200.00	0.00	0.00	9,132.51	633.71	100.26	641.59	0.00	0.00	0.00
9,300.00	0.00	0.00	9,232.51	633.71	100.26	641.59	0.00	0.00	0.00
9,400.00	0.00	0.00	9,332.51	633.71	100.26	641.59	0.00	0.00	0.00
9,500.00	0.00	0.00	9,432.51	633.71	100.26	641.59	0.00	0.00	0.00
9,600.00	0.00	0.00	9,532.51	633.71	100.26	641.59	0.00	0.00	0.00
9,700.00	0.00	0.00	9,632.51	633.71	100.26	641.59	0.00	0.00	0.00
9,800.00	0.00	0.00	9,732.51	633.71	100.26	641.59	0.00	0.00	0.00
9,900.00	0.00	0.00	9,832.51	633.71	100.26	641.59	0.00	0.00	0.00
10,000.00	0.00	0.00	9,932.51	633.71	100.26	641.59	0.00	0.00	0.00
10,100.00	0.00	0.00	10,032.51	633.71	100.26	641.59	0.00	0.00	0.00
10,200.00	0.00	0.00	10,132.51	633.71	100.26	641.59	0.00	0.00	0.00
10,300.00	0.00	0.00	10,232.51	633.71	100.26	641.59	0.00	0.00	0.00
10,352.49	0.00	0.00	10,285.00	633.71	100.26	641.59	0.00	0.00	0.00
SEGO - SEGO_NBU 921-30A1BS									
10,400.00	0.00	0.00	10,332.51	633.71	100.26	641.59	0.00	0.00	0.00
10,406.49	0.00	0.00	10,339.00	633.71	100.26	641.59	0.00	0.00	0.00
CASTLEGATE									
10,500.00	0.00	0.00	10,432.51	633.71	100.26	641.59	0.00	0.00	0.00
10,600.00	0.00	0.00	10,532.51	633.71	100.26	641.59	0.00	0.00	0.00
10,700.00	0.00	0.00	10,632.51	633.71	100.26	641.59	0.00	0.00	0.00
10,772.49	0.00	0.00	10,705.00	633.71	100.26	641.59	0.00	0.00	0.00
BLACKHAWK									
10,800.00	0.00	0.00	10,732.51	633.71	100.26	641.59	0.00	0.00	0.00
10,900.00	0.00	0.00	10,832.51	633.71	100.26	641.59	0.00	0.00	0.00
11,000.00	0.00	0.00	10,932.51	633.71	100.26	641.59	0.00	0.00	0.00
11,100.00	0.00	0.00	11,032.51	633.71	100.26	641.59	0.00	0.00	0.00
11,200.00	0.00	0.00	11,132.51	633.71	100.26	641.59	0.00	0.00	0.00
11,300.00	0.00	0.00	11,232.51	633.71	100.26	641.59	0.00	0.00	0.00
11,372.49	0.00	0.00	11,305.00	633.71	100.26	641.59	0.00	0.00	0.00
TD at 11372.49 - PBHL_NBU 921-30A1BS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 921-30A1B - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	10,285.00	633.71	100.26	14,534,192.99	2,036,263.53	40.0137540	-109.5862970
PBHL_NBU 921-30A1B! - plan hits target center - Circle (radius 100.00)	0.00	0.00	11,305.00	633.71	100.26	14,534,192.99	2,036,263.53	40.0137540	-109.5862970



Database:	EDM 5000.1 Single User Db	Local Co-ordinate Reference:	Well NBU 921-30A1BS
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4894 & KB 4 @ 4898.00ft (ASSUMED)
Site:	NBU 921-30A PAD	North Reference:	True
Well:	NBU 921-30A1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,913.90	2,858.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,656.67	1,733.00	GREEN RIVER			
1,934.80	2,004.00	BIRDSNEST			
2,452.06	2,508.00	MAHOGANY			
5,049.49	5,082.00	WASATCH			
8,107.49	8,140.00	MESAVERDE			
10,352.49	10,385.00	SEGO			
10,406.49	10,439.00	CASTLEGATE			
10,772.49	10,805.00	BLACKHAWK			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	0.00	0.00	Start Build 2.00	
950.00	944.44	72.52	11.47	Start 2199.34 hold at 950.00 MD	
3,149.34	3,087.40	561.19	88.79	Start Drop -2.00	
3,799.34	3,731.84	633.71	100.26	Start 7573.16 hold at 3799.34 MD	
11,372.49	11,305.00	633.71	100.26	TD at 11372.49	

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-30A PAD**

<u>API #</u>	<u>NBU 921-30A1BS</u>		
	Surface: 828 FNL / 662 FEL	NENE	Lot
	BHL: 194 FNL / 560 FEL	NENE	Lot
<u>API #</u>	<u>NBU 921-30A1CS</u>		
	Surface: 837 FNL / 658 FEL	NENE	Lot
	BHL: 524 FNL / 540 FEL	NENE	Lot
<u>API #</u>	<u>NBU 921-30B1BS</u>		
	Surface: 846 FNL / 654 FEL	NENE	Lot
	BHL: 231 FNL / 1954 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-30B1CS</u>		
	Surface: 856 FNL / 651 FEL	NENE	Lot
	BHL: 572 FNL / 1954 FEL	NWNE	Lot
<u>API #</u>	<u>NBU 921-30H1BS</u>		
	Surface: 874 FNL / 643 FEL	NENE	Lot
	BHL: 1267 FNL / 535 FEL	NENE	Lot
<u>API #</u>	<u>NBU 921-30H1CS</u>		
	Surface: 865 FNL / 646 FEL	NENE	Lot
	BHL: 1649 FNL / 536 FEL	SENE	Lot

This Surface Use Plan of Operations (SUPO) or 13-point plan provides site-specific information for the above-referenced wells.

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally 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.

An on-site meeting was held on June 17, 2014. Present were:

- Tyler Cox, Nate Packer - BLM;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.;

Joel Malefyt, Roger Parry, Chad Perry, Doreen Green, Chantill Recker, Ryan Abeloe
Laura Abrams, Andy Lytle, Doyle Holmes - Kerr-McGee; Alex Bartlett - ICF

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Please refer to Topo B for existing roads.

B. New or Reconstructed Access Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

The following segments are "on-lease"

±25' (0.00 miles) – Section 30 T9S R21E (NE/4 NE/4) – On-lease UTU0581, from the edge of pad to the intersection in NE/4 NE/4. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for existing wells.

D. Location of Existing and/or Proposed Facilities:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

This pad will expand the existing pad for the NBU 309, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on August 15, 2014. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

GAS GATHERING

Please refer to Exhibit A and Topo D2- Pad and Pipeline Detail.

The total gas gathering pipeline distance from the meter to the tie in point is ±405' and the individual segments are broken up as follows:

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

±260' (0.05 miles) – Section 30 T9S R21E (NE/4 NE/4) – On-lease UTU0581, BLM surface, New 6" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±145' (0.03 miles) – Section 30 T9S R21E (NE/4 NE/4) – On-lease UTU0581, BLM surface, New 6" buried gas gathering pipeline from the edge of pad to proposed 16" gas pipeline (ROW in progress). Please refer to Topo D2 - Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Exhibit B and Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 405'$ and the individual segments are broken up as follows:

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

$\pm 260'$ (0.05 miles) – Section 30 T9S R21E (NE/4 NE/4) – On-lease UTU0581, BLM surface, New 6" buried liquid gathering pipeline from the separator to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

$\pm 145'$ (0.03 miles) – Section 30 T9S R21E (NE/4 NE/4) – On-lease UTU0581, BLM surface, New 6" buried liquid gathering pipeline from the edge of pad to proposed 6" liquid pipeline (ROW in progress) Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Please refer to Exhibit C for ACTS Lines

E. Location and Types of Water Supply:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Water will be hauled to location over the roads marked on Maps A and B.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

H. Ancillary Facilities:

No additional ancillary facilities are planned for this location.

I. Well Site Layout:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

K. Surface/Mineral Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435)781-4400

L. Other Information:

Cultural and Paleontological Resources

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

Resource Reports:

A Class I literature survey was completed on July 17, 2014 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 14-189.

A paleontological reconnaissance survey was completed on August 7, 2014 by SWCA Environmental Consultants. For additional details please refer to report UT14-14314-122.

Biological field survey was completed on July 21, 2014 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-938.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated May 13, 2014.

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

Joel Malefyt
Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6828

Scott Rovira
General Manager, Drilling
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6243

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 pursuant to 43 CFR 3104 for lease activities is being provided 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.

NBU 921-30A1BS/ 921-30A1CS/ 921-30B1BS/ 921-30B1CS/
921-30H1BS/ 921-30H1CS Kerr-McGee Oil Gas Onshore, L.P.

Surface Use Plan of Operations
7 of 7



Joel Malefy

August 15, 2014

Date

Kerr-McGee Oil & Gas Onshore L.P., wholly owned subsidiary of Anadarko Petroleum Corporation, Standard Operating Practice Agreement for the Greater Natural Buttes Field

Drilling Program

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations, Onshore Oil and Gas Orders, and the approved plan of operation. As Operator, KMG is fully responsible for actions of subcontractors. A copy of these Standard Operating Practices will be furnished to the field representatives to insure compliance.

Bureau of Land Management Notification Requirements:

Location Constructions: At least 48 hours prior to construction of location and access roads including notification, if applicable, to other surface management agencies, such as Ute Tribe Energy and Mineral Department, State of Utah, or private surface owner(s).

Location Completion: Prior to moving on the drilling rig

Spud Notice: At least 24 hours prior to spudding the well.

Casing String and Cementing: At least 24 hours prior to running casing and cementing all casing.

Blow Out Preventer & Related Equipment Tests: At least 24 hours prior to initiating pressure tests.

First Production Notice: Within 5 days after a new well begins production; or, within 5 days of when production resumes after a well has been off production for more than 90 days.

Details of the on-site inspection, including date, time, weather conditions, and individuals present, will be submitted with the site-specific Application for Permit to Drill (APD).

1. Estimated Tops of Important Geologic Markers:

Formation and depths will be submitted with site-specific APDs.

2. Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:

Formation and depths will be submitted with site-specific APDs.

3. Pressure Control Equipment:

Pressure Control Equipment Schematic is attached as appendix F. Any variance will be included in the site-specific APDs.

4. Proposed Casing & Cementing Program:

Proposed casing and cementing will be submitted with site-specific APDs.

5. Drilling Fluids Program:

Proposed drilling fluids will be submitted with site-specific APDs.

6. Evaluation Program:

Evaluation program will be submitted with site-specific APDs.

7. Abnormal Conditions:

Any abnormal condition will be submitted with site specific APDs.

8. Anticipated Starting Dates:

Drilling is planned to commence within the administrative period of an approved application.

9. Variances:

KMG respectfully requests a variance to several requirements associated with air drilling outlined in OSO 2:

Variance for air drilling

Air rig is only used by KMG to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig and is used to drill and construct the majority of the wellbore.

KMG typically utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 3,200 MD. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig

also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

The air rig is then mobilized to drill the surface casing hole by drilling a 12 1/4 inch hole for the first 200 feet, then will drill an 11 inch hole to just above the Bird's Nest Interval. with an air hammer. The hammer is then tripped and replaced with an 11 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 8-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

Variance for BOPE Requirements

The air rig operation utilizes a properly lubricated and maintained air bowl diverter system which diverts the drilling returns to a six-inch blooie line. The air bowl is the only piece of BOPE equipment which is installed during drilling operations and is sufficient to contain the air returns associated with this drilling operation. As was discussed earlier, the drilling of the surface hole does not encounter any over pressured or productive zones, and as a result standard BOPE equipment should not be required. In addition, standard drilling practices do not support the use of BOPE on 40 feet of conductor pipe.

Variance for Mud Material Requirements

OSO 2 also states that sufficient quantities of mud materials shall be maintained or readily accessible for the purpose of assuring adequate well control. Once again, the surface hole drilling operations does not encounter over pressured or productive intervals, and as a result there is not a need to control pressure in the surface hole with a mud system. Instead of mud, the air rigs utilize water from the reserve pit for well control, if necessary. A skid pump, which is located near the reserve pit, will supply the water to the well bore.

Variance for Special Drilling Operation (surface equipment placement)

OSO 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location.

Typically the blooie line discharge point is required to be 100 feet from the well bore. In the case of a KMG well, the reserve pit is only 45 feet from the rig and is used for the drill cuttings. The blooie line, which transports the drill cuttings from the well to the reserve pit, subsequently discharges only 45 feet from the well bore.

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and

boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

Lastly, OSO 2 addresses the need for an automatic igniter or continuous pilot light on the blooie line. The air rig does not utilize an igniter as the surface hole drilling operation does not encounter productive formations.

Variance for FIT Requirements

KMG also respectfully requests a variance to OSO 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). These wells are not exploratory wells and are being drilled in an area where the formation integrity is well known.

10. Other Information:

Drilling Program will be submitted with site-specific APDs.

SURFACE USE PROGRAM

A. Existing Roads:

Existing roads consist of county and improved/unimproved access roads (two-tracks). In accordance with OSO 1, KMG will improve or maintain existing roads in a condition that is the same as or better than before operations began. New or reconstructed proposed access roads are discussed in Section B.

The existing roads will be maintained in a safe and usable condition. Maintenance for existing roads will continue until final abandonment and reclamation of well pads and/or other facilities, as applicable. Road maintenance will include, but is not limited to, blading, ditching, and/or culvert installation and cleanout. To ensure safe operating conditions, gravel surfacing may be performed where excessive rutting or erosion may occur. Dust control may be performed as necessary to ensure safe operating conditions.

Roads, gathering lines and electrical distribution lines may occupy common disturbance corridors where possible. Where available, roadways may be used as the staging area and working space for installation of gathering lines. All disturbances located in the same corridor may overlap each other to the maximum extent possible, while maintaining safe and sound construction and installation practices. Unless otherwise approved or requested in site specific documents, in no case will the maximum disturbance widths of the access road and utility corridors exceed the widths specified in Part D of this document.

Within individual APDs, please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007). The BLM Manual Section 9113 (1985) will be considered in consultation with the BLM in the design, construction, improvement and maintenance of all new or reconstructed roads. If a new road would cross a water of the United States, KMG will adhere to all applicable US Army Corps of Engineers requirements in cooperation with the Utah Division of Water Rights.

New well pads or pad expansions may require construction of a new access road and/or de-commissioning of an older road. Plans, routes, and distances for new roads and road improvements are provided in design packages, exhibits and maps for a project. Project-specific maps are submitted to depict the locations of existing, proposed, and/or decommissioned and include the locations for supporting structures, including, but not limited to, culverts, bridges, low water crossings, range infrastructure, and haul routes, per OSO 1. Designs for cuts and fills, including spoils source and storage areas, are provided with the road designs, as necessary.

Where safety objectives can be met KMG may use unimproved and/or two-track roads for lease operations and to lessen total disturbance. Road designs will be based on the road safety requirements, traffic characteristics, environmental conditions, and the vehicles the road is intended to carry. Generally, newly constructed unpaved lease roads will be crowned and ditched with the running surfaces of the roads approximately 12-18 feet wide and a total road corridor width not to exceed 45 feet, except where noted in the road design for a specific project. Maximum grade will generally not exceed 8%. Borrow ditches will be back sloped 3:1 or less. Construction BMPs will be employed to control onsite and offsite erosion.

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities may be constructed to divert surface water runoff. Drainage features, including culverts, may be constructed or installed prior to commencing other operations, including drilling for facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s). Drainage features will meet the standards of the BLM's Surface Operating Standards for Oil and Gas Exploration and Development, 4th Edition (Gold Book) (USDI and USDA, 2007).

Prior to construction, new access road(s) will be staked according to the requirements of OSO 1. Construction activities will not be conducted using frozen or saturated materials or during periods when significant watershed damage (e.g. rutting, extensive sheet soil erosion, formation of rills/gullies, etc.) is likely to occur. Vegetative debris will not be placed in or under fill embankments.

New road maintenance will include, but is not limited to, blading, ditching, culvert installation and cleanout, gravel surfacing where excessive rutting or erosion may occur and dust control, as necessary to ensure safe operating conditions. All vehicular traffic, personnel movement and construction/restoration operations will be confined to the approved area and to existing roadways and/or access routes.

Snow removal will be conducted on an as-needed basis to accommodate safe travel. Snow removal will occur as necessary throughout the year, as will necessary drainage ditch construction. Removed snow may be stored on permitted well pads to reduce hauling distances and/or at the aerial extent of approved disturbance boundaries to facilitate snow removal for the remainder of the season.

If a county road crossing or encroachment permit is needed, it will be obtained prior to construction.

For individual APDs, refer to Topo B.

C. Location of Existing Wells:

For individual APDs, refer to Topo C

D. Location of Existing and/or Proposed Facilities:

The following will apply if the well is productive: Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (KMG). Should the well(s) prove productive, production facilities will be installed on the disturbed portion of each well pad.

A berm may be constructed completely around production components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed to hold the capacity of the largest tank and have sufficient freeboard to accommodate a 25 year rainfall event. This includes pumping units. Aboveground structures constructed or installed onsite for 6 months or longer, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with the BLM (typically Shadow Gray). A production facility layout is provided as part of a project- specific APD, ROW or NOS submission.

Gas Gathering

The gas gathering pipeline is made of steel line pipe, surface is bare pipe and buried is of coated with fusion bonded epoxy coating (or equivalent). The individual segments will be denoted in site-specific APDs.

Liquid Gathering

The individual segments will be denoted in site-specific APDs.

Pipeline Gathering Construction

Gas gathering pipeline(s), gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. The road and/or well pad may be utilized for construction activities and staging when the pipeline is adjacent to the road or well pad. The area of disturbance during construction from

the edge of road or well pad and for surface and buried pipelines including cross country will typically be 45' temporary disturbance. In addition, KMG requests a permanent 30' disturbance width that will be maintained for the portion adjacent to the road as well as cross country lines. The need for the 30' of permanent disturbance width is for maintenance and repairs.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. If installation cannot occur on the exact location, pipe may be constructed parallel and adjacent to a road and lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment. Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2" (typically fuel gas lines) to 24" (typically transportation lines) in diameter, but 6" to 16 "is typical for a buried gas line. The diameter of liquids pipelines may vary from 2" to 12", but 6" is the typical diameter. Gas lift lines may vary from 2" to 12" diameter, but 6" diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

When installing a buried pipeline, typically topsoil will be removed, windrowed and placed on the non-working side of the route for later reclamation. Because working room is limited, the spoil may be spread out across the working side and construction will take place on the spoil. The working side of the corridor will be used for pipe stringing, bending, welding and equipment travel. Small areas on the working side displaying ruts or uneven ground will be groomed to facilitate the safe passage of equipment. After the pipelines are installed, spoil will be placed back into the trench, and the topsoil will be redistributed over the disturbed corridor prior to final reclamation. Typical depth of the trench will be 6', but depths may vary according to site-specific conditions (presence of bedrock, etc.). The proposed trench width for the pipeline would range from 18"-48".

The pipeline will be welded along the proposed route and lowered into place. Trenching equipment will cut through the soil or into the bedrock and create good backfill, eliminating the need to remove large rocks. The proposed buried pipeline will be visually and radio-graphically inspected and the entire pipeline will be pneumatically or hydrostatically tested before being placed into service. Routine vehicle traffic will be prevented from using pipeline routes as travel ways by posting signs at the route's intersection with an access road.

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. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

If pipelines or roads encounter a drainage that could be subject to flooding or surface water during extreme precipitation events, KMG will apply all applicable Army Corps mandates as

well as the BLM's Hydraulic Considerations for pipeline Crossings of Stream Channels (BLM Technical Note 423, April 2007). In addition, all stream and drainage crossings will be evaluated to determine the need for stream alteration permits from the State of Utah Division of Water Rights and if necessary, required permits will be secured. Similarly, where a road or pipeline crossing exists the pipe will be butt welded and buried to a depth between 24 and 48 inches or more. Dirt roads will be cut and restored to a condition equivalent to the existing condition. All Uintah County road encroachment and crossing permits, where applicable, will be obtained prior to crossing construction. In no case will pressure testing of pipelines result in discharge of liquids to the surface.

Pipeline signs will be installed along the route to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves and lateral T's will be installed at various locations for production integrity and safety purposes.

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.

When no longer deemed necessary by the operator, KMG or its successor will consult with the BLM, Vernal Field Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

For individual APDs, refer to Exhibit C for the proposed placement of the ACTS temporary lines.

KMG will use either a closed loop drilling system that will require one pit and one storage area to be constructed on the drilling pad or a traditional drilling operation with one pit. The storage area will be used to contain only the de-watered drill cuttings and will be lined and reclaimed according to traditional pit closure standards. The pit will be constructed to allow for completion operations. The completion pit is lined and will be used for the wells drilled on the pad or used as part of our ACTS system which is discussed in more detail below. Using the closed loop drilling system will allow KMG to decrease the amount of disturbance/footprint on location compared to a single large drilling/completion pit.

If KMG does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit may be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system. KMG will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of completion fluids by utilizing existing reserve pits, or newly constructed completion pits, as well as temporary, surface-laid aluminum liquids transfer lines between pad locations. The pit will be refurbished as follows when a traditional drill pit is used, including mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. KMG will reline the pit with a 30 mil liner and double felt padding. The refurbished or newly constructed pit will be the same size or

smaller as specified in the originally approved ROW/APD. The pit refurbish will be done in a normal procedure and there will be no modification to the pit. All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

Any hydrocarbons collected will be treated and sold at approved sales facilities. A loading/unloading rack with drip containment will also be installed where water trucks would unload and load to prevent damage caused from pulling hoses in and out of the pit.

ACTS will require temporarily laying multiple 6 inch aluminum water transfer lines on the surface between either existing or refurbished reserve pits. The temporary aluminum transfer lines will be utilized to transport completion fluid being injected and/or recovered during the completion process and will be laid adjacent to existing access roads or pipeline corridors. Upon conclusion of the completion operation, the liquids transfer lines will be flushed with fresh water and purged with compressed air. The contents of the transfer lines will be flushed into a water truck for delivery to another ACTS location or a reserve pit.

The volume of frac fluid transported through a water transfer line will vary, but volume is projected to be approximately 1.75 bbls per 50-foot joint. Although the maximum working pressure is 125 psig, the liquids transfer lines will be operated at a pressure of approximately 30 to 40 psig. KMG will keep the netted pit open for one year from first production of the first produced well on the pad. During this time the surrounding well location completion fluids may be recycled in this pit and utilized for other completion jobs in the area. After one year KMG will backfill the pit and reclaim. If the pit is not needed for an entire year it will be backfilled and reclaimed earlier. KMG understands that due to the temporary nature of this system, BLM considers this a casual use situation; therefore, no permanent ROW or temporary use plan will need to be issued by the BLM.

E. Location and Types of Water Supply:

Water for drilling and completion operations will be obtained from the following sources:
JD Field Services:

Green River: 1087' FSL & 1020' FEL, Sec. 15 – T2N – R22E

RN Industries:

High Pressure: 705' FNL & 675' FWL, Sec. 1 – T6S – R22E
1057' FNL & 390' FWL, Sec. 1 – T6S – R22E
1239' FNL & 52' FEL, Sec. 6 – T6S – R23E

White River: 501' FNL & 1676' FEL, Sec. 9 – T8S – R20E
471' FNL & 1676' FEL, Sec. 9 – T8S – R20E
900' FNL & 550' FEL, Sec. 35 – T9S – R22E
200' FNL & 950' FEL, Sec. 2 – T10S – R22E
275' FSL & 2275' FEL, Sec. 2 – T10S – R22E
122' FSL & 1350' FEL, Sec. 11 – T10S – R22E
1670' FSL & 500' FEL, Sec. 12 – T10S – R22E

Water Plant: 959' FNL & 705' FEL, Sec. 13 – T10S – R22E
600' FSL & 900' FEL, Sec. 13 – T10S – R22E
481' FNL & 2176' FEL, Sec. 9 – T8S – R20E
471' FNL & 2176' FEL, Sec. 9 – T8S – R20E

Frog Pond: 4820' FNL & 1200' FWL, Sec. 33 – T8S – R20E
4850' FNL & 700' FWL, Sec. 33 – T8S – R20E

Blue Tanks: 200' FNL & 405' FEL, Sec. 32 – T4S – R3E

Bugsy's Water Source:
Green River: N 2090' & W 30' from E1/4 corner of Sec. 33 – T8S – R20E

Underground Water Well: N 1850' & W 425' from E1/4 corner of Sec. 33 – T8S – R20E

Water will be hauled to location over the roads marked in the individual APD's Maps A and B.

F. Construction Materials:

Construction operations will typically be completed with native materials found on location. Construction materials imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source (described in site-specific documents). No construction materials will be removed from Federal lands without notifying the BLM. A proposed source location other than an on-location construction site will be designated either via a map or narrative within the project specific materials provided to the BLM.

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. KMG maintains a Spill Control and Countermeasure Plan for each applicable location, which includes notification requirements, to the BLM and other appropriate agencies, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of Comprehensive Environmental Response, Compensation, and Liability Act, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, KMG will comply with the notification requirements of NTL-3A.

Drill cuttings and/or drilling fluids may be contained in a reserve/completion pit whether a closed loop system is or isn't utilized and cuttings may be buried in the pit(s) upon closure. Unless specifically approved by the BLM, no oil or other oil-based drilling additives,

chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

If utilizing a closed loop system, drill cuttings and/or drilling fluids may be stored in above ground containers while on the location. All used drilling fluids may be hauled to Anadarko Petroleum Corporation's Mud Plant where it may be recycled for use at future well locations, hauled to a permitted disposal facility, or solidified for incorporation into the pad during interim reclamation practices. Drill cuttings from a closed loop system may be either hauled to an approved Utah Department of Oil, Gas and Mining Commercial Landfarm Disposal Facility or incorporated into the pad location during interim reclamation.

Pits will be constructed to eliminate the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Netting will be placed over pits before any liquids are discharged into pit. Should hydrocarbons be released into a reserve/completion pit, they will be removed as soon as practical and before the netting is removed from the pit. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

The reserve and/or completion pit will be lined with a synthetic material 30 mil or thicker liner. The bottom and side walls of the pit will be void of any sharp rocks that could puncture the liner. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. After evaporation and when dry, the reserve pit liners will be cut off, ripped and/or folded back (as safety considerations allow) as near to the mud surface as possible and buried on location or hauled to a landfill prior to backfilling the pit with a minimum of five feet of soil material.

Where necessary and if conditions allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per OSO 7. Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Revisions to the water source or method of transportation will be subject to written approval from the BLM.

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

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and

the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

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 (trash and other solid waste including cans, paper, cable, etc.) 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. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

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

Maximum distance between fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

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.

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 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.

Hazardous materials may be contained in some grease or lubricants, solvents, acids, paint, and herbicides, among others as defined above. KMG maintains a file, per 29 CFR 1910.1200 (g) containing current Material Safety Data Sheets (MSDS) for all chemicals, compounds, and/or substances that are used during the course of construction, drilling, completion, and production operations for this project. The transport, use, storage and handling of hazardous materials will follow procedures specified by federal and state regulations. Transportation of hazardous materials to the well location is regulated by the Department of Transportation (DOT) under 49 CFR, Parts 171-180. DOT regulations pertain to the packing, container handling, labeling, vehicle placarding, and other safety aspects.

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time.

Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used. 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 (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Any produced water separated from recoverable condensate during well operations will be contained in a water tank and will then be transported by pipeline and/or truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E
NBU #159 in Sec. 35 T9S R21E
Ace Oilfield in Sec. 2 T6S R20E
MC&MC in Sec. 12 T6S R19E
Pipeline Facility in Sec. 36 T9S R20E
Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E
Bonanza Evaporation Pond in Sec. 2 T10S R23E

Or to one of the following KMG active Salt Water Disposal (SWD) wells:

NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 34 T9S R21E

H. Ancillary Facilities:

If additional ancillary facilities are planned they will be depicted on site specific APDs.

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), 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 depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits of the APDs.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/Produced Liquid tanks will be constructed,

maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BLM.

J. Plans for Surface Reclamation:

The 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. Interim 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 material, minimizing surface disturbance, re-evaluating backfill requirements, pit closure, topsoil redistribution, soil treatments, seeding and weed control.

Interim Reclamation

Interim reclamation may include pit evaporation, fluid removal, pit solidification, re-contouring, incorporation of cuttings, ripping, spreading top soil, seeding, and/or weed control. Interim reclamation will be performed in accordance with OSO 1, or written notification will be provided to the BLM for approval. Where feasible, drilling locations, reserve pits, or access routes not utilized for production operations will be re-contoured to a natural appearance.

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. Stockpiled drill cuttings may also be incorporated into the spoils, recontoured, 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. Disposal of pit fluids and linings is discussed in Section G.

Final Reclamation

Final reclamation will be performed for unproductive wells and after 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. The BLM will be notified prior to commencement of reclamation operations. 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 close as practical the natural terrain and contours of the original site and surrounding areas. After re-contouring the site and prior to replacing topsoil, final grading and site preparation will be conducted over the entire surface of the well site and access road. The area will be ripped to a depth no greater than 6 inches on 18 to 24-inch centers and the surface soil material will be uniformly pitted with longitudinal depressions perpendicular to the natural flow of water where practical. Following site preparation, topsoil will be spread on the location and prepared for seeding.

Reclamation of roads will be performed at the discretion of the BLM. 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 6 to 24 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications of the BLM.

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

Measures Common to Interim and Final Reclamation

Soil tillage will be conducted using a disk in areas needing additional seedbed preparation following site preparation. This will provide primary soil tillage to a depth no greater than 6 inches. Prior to reseeding, compacted areas will be scarified by ripping or chiseling to loosen compacted soils, promote water infiltration, and improve soil aeration and root penetration.

Seeding will occur during optimal soil conditions and will typically be accomplished through the use of a no-till rangeland style seed drill with a "picker box." Additionally an imprinter seeder may be used. An imprinter seeder creates divots to roughen the surface and collect moisture to aid in seed germination. 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 seed mixes will be selected from a list provided by or approved by the BLM, or a specific seed mix will be proposed by KMG to the BLM and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be

maintained by KMG. Every effort will be made to obtain “cheat grass free seed” and noxious weed free seed.

Seed Mix to be used for Well Site, Access Road, and Pipeline (as applicable):

Bonanza Area Mix **Pure Live Seed lbs/acre**

Crested Wheat (Hycrest)	1.5
Bottlebrush Squirreltail	1
Western Wheatgrass (Arriba)	1
Thick Spike Wheatgrass	1.5
Indian Ricegrass	1
Fourwing Saltbush	2
Shadscale	2
Forage Kochia	0.25
Rocky Mountain Bee Plant	0.5
Total	10.75

Natural Buttes Area Mix Option 1: **Pure Live Seed lbs/acre**

Indian Ricegrass (Nezpar)	3
Thick Spike Wheatgrass	2
Sandberg bluegrass	0.5
Bottlebrush squirreltail	1
Crested wheatgrass (Hycrest)	1
Winterfat	0.25
Shadscale	1.5
Four-wing saltbush	0.75
Forage Kochia	0.25
Total	10.25

Natural Buttes Area Mix Option 2: **Pure Live Seed lbs/acre**

Galleta Grass	0.5
Great Basin Wildrye	0.5
Thickspike Wheatgrass	2.5
Indian Ricegrass (Nezpar)	1
Crested Wheatgrass	1
Siberian Wheatgrass	1
Bottlebrush Squirreltail	1
Munro Globemallow	0.1
Palmer Penstemon	0.1
Rocky Mtn beeplant	0.5
Western yarrow	0.1
Shadscale	0.5
Forage Kochia	0.5
Total	9.3

Natural Buttes Area Mix Option 3: **Pure Live Seed lbs/acre**

Galleta Grass	2
Sandberg bluegrass	0.5
Shadscale	0.5
Bluebunch (secar)	2
Indian Ricegrass (Nezpar)	2
Western Wheatgrass (Arriba)	2
Palmer penstemon	0.25
Munro Globemallow	0.15
Black Sage	0.25
Winterfat	0.25
Forage Kochia	0.25
Total	10.15

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes 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, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage. Soil amendments such as "Sustain" (an organic fertilizer that will be applied at the rate 1,800 – 2,100 lbs/acre with seed) may also be dry broadcast or applied with hydro-seeding equipment.

Weed Control

All weed management will be done in accordance with the Vernal BLM Surface Disturbance Weed Policy. Noxious weeds will be controlled, as applicable, on project areas. Monitoring and management of noxious and/or invasive weeds of concern will be completed annually until the project is deemed successfully reclaimed by the surface management agency and/or owner according to the Anadarko Integrated Weed Management Plan. Noxious weed infestations will be mapped using a GPS unit and submitted to the BLM with information required in the Vernal BLM Surface Disturbance Weed Policy. If herbicide is to be applied it will be done according to an approved Pesticide Use Proposal (PUP), inclusive of applicable locations. All pesticide applications will be recorded using a Pesticide Application Record (PAR) and will be submitted along with a Pesticide Use Report (PUR) annually prior to Dec. 31.

Monitoring

Monitoring of reclaimed project areas will be completed annually during the growing season and actions to ensure reclamation success will be taken as needed. During the first two growing seasons an ocular methodology will be used to determine the success of the reclamation activities. During the 3rd growing season a 100 point line intercept (quantitative) methodology will be used to obtain basal cover. The goal is to have the reclaimed area reach 30% basal cover when compared to the reference site. If after three growing seasons the area has not reached 30% basal cover, additional reclamation activities may be necessary. Monitoring will continue until the reclaimed area reaches 75% basal cover of desirable vegetation when compared to the reference site. (Green River District Reclamation Guidelines).

All monitoring reports will be submitted electronically to the Vernal BLM in the form of a geo-database no later than March 1st of the calendar year following the data collection.

K. Surface/Mineral Ownership:

Depicted on site specific APDs.

L. Other Information:

Cultural and Paleontological Resources

All personnel are strictly prohibited from collecting artifacts, any paleontological specimens or fossils, and from disturbing any significant cultural resources in the area. If artifacts, fossils, or any culturally sensitive materials are exposed or identified in the area of construction, all construction operations that would affect the newly discovered resource will cease, and KMG will provide immediate notification to the BLM or appropriate SMA.

Resource Reports

Appropriate archaeological and paleontological reconnaissance surveys and biological field surveys will be completed and provide to the BLM for individual APDs.

Proposed Action Annual Emissions Tables:

Appendix A through G contains the emission table per pad based on well count.

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

Depicted on site specific APDs.

Appendix A:

Proposed Action Annual Emissions Tables: 4 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	3.8	1.2	5
CO	2.2	1.08	3.28
VOC	0.1	6.8	6.9
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison

Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NO _x	5	16,547	0.03%
VOC	6.9	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

Appendix B:

Proposed Action Annual Emissions Tables: 5 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NO _x	3.8	1.5	5.3
CO	2.2	1.08	3.28
VOC	0.1	8.5	8.6
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison

Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	5.3	16,547	0.03%
VOC	8.6	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

Appendix C:

Proposed Action Annual Emissions Tables: 6 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year) ¹			
Pollutant	Development	Production	Total
NOx	3.8	1.8	5.6
CO	2.2	1.08	3.28
VOC	0.1	10.2	10.3
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	5.6	16,547	0.03%
VOC	10.3	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.htmlUintah Basin
Data**Appendix D:****Proposed Action Annual Emissions Tables: 7 Well Pad**

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	3.8	2.1	5.9
CO	2.2	1.08	3.28
VOC	0.1	11.9	12
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NO _x	5.9	16,547	0.03%
VOC	12	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.htmlUintah Basin
Data**Appendix E:****Proposed Action Annual Emissions Tables: 8 Well Pad**

Table 1: Proposed Action Annual Emissions (tons/year)¹
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Pollutant	Development	Production	Total
NOx	3.8	2.4	6.2
CO	2.2	1.08	3.28
VOC	0.1	13.6	13.7
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	6.2	16,547	0.03%
VOC	13.7	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin
Data

Appendix F:

Proposed Action Annual Emissions Tables: 10 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NOx	3.8	3	6.8
CO	2.2	1.08	3.28
VOC	0.1	17	17.1
SO ₂	0.005	0.01	0.02

PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NO _x	6.8	16,547	0.03%
VOC	17.1	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

Appendix G:

Proposed Action Annual Emissions Tables: 12 Well Pad

Table 1: Proposed Action Annual Emissions (tons/year)¹			
Pollutant	Development	Production	Total
NO _x	3.8	3.6	7.4
CO	2.2	1.08	3.28
VOC	0.1	20.4	20.5
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45

Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory ^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	7.4	16,547	0.03%
VOC	20.5	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin
Data

Appendix G:

Proposed Action Annual Emissions Tables: 15 Well Pad

Pollutant	Development	Production	Total
NOx	3.8	4.5	8.3
CO	2.2	1.08	3.28
VOC	0.1	25.5	25.6
SO ₂	0.005	0.01	0.02
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.05	0.45
Benzene	2.20E-03	0.12	0.12
Toluene	1.60E-03	0.2	0.2
Ethylbenzene	3.40E-04	0.01	0.01
Xylene	1.10E-03	0.09	0.09
n-Hexane	1.70E-04	0.51	0.51
Formaldehyde	1.30E-02	1.30E-04	1.31E-02

¹ Emissions include 1 producing well and associated operations traffic during the year in which the project is developed

Table 2: Proposed Action versus 2012 WRAP Phase III Emissions Inventory Comparison			
Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory^a (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	8.3	16,547	0.03%
VOC	25.6	127,495	0.01%

^a http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html

Uintah Basin Data

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
440 West 200 South, Suite 500
Salt Lake City, UT 84101

IN REPLY REFER TO:
3160
(UT-922)

November 25, 2014

Memorandum

To: Assistant Field Office Manager Minerals,
Vernal Field Office

From: Michael Coulthard, Petroleum Engineer

Subject: 2014 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Mason, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2014 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
PAD NBU 921-29C		
43-047-54931	NBU 921-29D1CS	Sec 29 T09S R21E 0708 FNL 2535 FWL BHL Sec 29 T09S R21E 0537 FNL 0821 FWL
43-047-54932	NBU 921-29D1BS	Sec 29 T09S R21E 0700 FNL 2541 FWL BHL Sec 29 T09S R21E 0167 FNL 0739 FWL
43-047-54933	NBU 921-29C4CS	Sec 29 T09S R21E 0724 FNL 2523 FWL BHL Sec 29 T09S R21E 1062 FNL 2136 FWL
43-047-54934	NBU 921-29C4BS	Sec 29 T09S R21E 0716 FNL 2529 FWL BHL Sec 29 T09S R21E 0735 FNL 2135 FWL
43-047-54935	NBU 921-29C1CS	Sec 29 T09S R21E 0692 FNL 2547 FWL BHL Sec 29 T09S R21E 0408 FNL 2134 FWL
43-047-54936	NBU 921-29C1BS	Sec 29 T09S R21E 0684 FNL 2553 FWL BHL Sec 29 T09S R21E 0067 FNL 2031 FWL
PAD NBU 921-29B		
43-047-54939	NBU 921-29B4BS	Sec 29 T09S R21E 0448 FNL 2118 FEL BHL Sec 29 T09S R21E 0900 FNL 1807 FEL
43-047-54940	NBU 921-29B1CS	Sec 29 T09S R21E 0446 FNL 2109 FEL BHL Sec 29 T09S R21E 0573 FNL 1806 FEL
43-047-54941	NBU 921-29B1BS	Sec 29 T09S R21E 0449 FNL 2128 FEL BHL Sec 29 T09S R21E 0217 FNL 1878 FEL
43-047-54942	NBU 921-29A4CS	Sec 29 T09S R21E 0445 FNL 2099 FEL BHL Sec 29 T09S R21E 1061 FNL 0490 FEL
43-047-54943	NBU 921-29A4BS	Sec 29 T09S R21E 0444 FNL 2089 FEL BHL Sec 29 T09S R21E 0734 FNL 0490 FEL

RECEIVED: November 28, 2014

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
PAD NBU 921-29B		
43-047-54944	NBU 921-29A1CS	Sec 29 T09S R21E 0441 FNL 2069 FEL BHL Sec 29 T09S R21E 0408 FNL 0489 FEL
43-047-54945	NBU 921-29A1BS	Sec 29 T09S R21E 0442 FNL 2079 FEL BHL Sec 29 T09S R21E 0034 FNL 0619 FEL
PAD NBU 921-29E		
43-047-54946	NBU 921-29D4BS	Sec 29 T09S R21E 2010 FNL 0734 FWL BHL Sec 29 T09S R21E 0901 FNL 0818 FWL
43-047-54947	NBU 921-29D4CS	Sec 29 T09S R21E 2005 FNL 0742 FWL BHL Sec 29 T09S R21E 1228 FNL 0819 FWL
43-047-54949	NBU 921-29E1BS	Sec 29 T09S R21E 2000 FNL 0751 FWL BHL Sec 29 T09S R21E 1556 FNL 0820 FWL
43-047-54950	NBU 921-29E1CS	Sec 29 T09S R21E 1985 FNL 0777 FWL BHL Sec 29 T09S R21E 1883 FNL 0820 FWL
43-047-54954	NBU 921-29E4BS	Sec 29 T09S R21E 1990 FNL 0768 FWL BHL Sec 29 T09S R21E 2210 FNL 0820 FWL
43-047-54956	NBU 921-29E4CS	Sec 29 T09S R21E 1995 FNL 0760 FWL BHL Sec 29 T09S R21E 2538 FNL 0821 FWL
PAD NBU 921-29F		
43-047-54948	NBU 921-29F1CS	Sec 29 T09S R21E 1980 FNL 1990 FWL BHL Sec 29 T09S R21E 1717 FNL 2139 FWL
43-047-54951	NBU 921-29K1BS	Sec 29 T09S R21E 1982 FNL 1960 FWL BHL Sec 29 T09S R21E 2537 FSL 2142 FWL
43-047-54952	NBU921-29F1BS	Sec 29 T09S R21E 1981 FNL 1980 FWL BHL Sec 29 T09S R21E 1390 FNL 2137 FWL
43-047-54953	NBU 921-29F4CS	Sec 29 T09S R21E 1982 FNL 1970 FWL BHL Sec 29 T09S R21E 2371 FNL 2141 FWL
43-047-54955	NBU 921-29F4BS	Sec 29 T09S R21E 1980 FNL 2000 FWL BHL Sec 29 T09S R21E 2044 FNL 2140 FWL
PAD NBU 921-29J		
43-047-54957	NBU 921-29J4BS	Sec 29 T09S R21E 1689 FSL 1850 FEL BHL Sec 29 T09S R21E 1717 FSL 1816 FEL
43-047-54958	NBU 921-29J1CS	Sec 29 T09S R21E 1681 FSL 1856 FEL BHL Sec 29 T09S R21E 2044 FSL 1815 FEL
43-047-54959	NBU 921-29J1BS	Sec 29 T09S R21E 1674 FSL 1863 FEL BHL Sec 29 T09S R21E 2371 FSL 1814 FEL
43-047-54960	NBU 921-29G4CS	Sec 29 T09S R21E 1666 FSL 1870 FEL BHL Sec 29 T09S R21E 2535 FNL 1813 FEL
PAD NBU 921-29I		
43-047-54961	NBU 921-29P1CS	Sec 29 T09S R21E 1848 FSL 0907 FEL BHL Sec 29 T09S R21E 0998 FSL 0468 FEL
43-047-54962	NBU 921-29P1BS	Sec 29 T09S R21E 1850 FSL 0897 FEL BHL Sec 29 T09S R21E 1291 FSL 0495 FEL
43-047-54969	NBU 921-29H4CS	Sec 29 T09S R21E 1854 FSL 0877 FEL BHL Sec 29 T09S R21E 2369 FNL 0491 FEL
43-047-54970	NBU 921-29I1BS	Sec 29 T09S R21E 1856 FSL 0868 FEL BHL Sec 29 T09S R21E 2535 FSL 0491 FEL
43-047-54971	NBU 921-29I1CS	Sec 29 T09S R21E 1858 FSL 0858 FEL BHL Sec 29 T09S R21E 2244 FSL 0483 FEL

API #	WELL NAME	LOCATION								
(Proposed PZ WASATCH-MESA VERDE)										
PAD NBU 921-29I										
43-047-54972	NBU 921-29I4BS	Sec 29	T09S	R21E	1860	FSL	0848	FEL		
		BHL	Sec 29	T09S	R21E	1920	FSL	0494	FEL	
43-047-54973	NBU 921-29I4CS	Sec 29	T09S	R21E	1852	FSL	0887	FEL		
		BHL	Sec 29	T09S	R21E	1618	FSL	0489	FEL	
PAD NBU 921-29G										
43-047-54963	NBU 921-29B4CS	Sec 29	T09S	R21E	1619	FNL	2069	FEL		
		BHL	Sec 29	T09S	R21E	1227	FNL	1809	FEL	
43-047-54964	NBU 921-29G1BS	Sec 29	T09S	R21E	1616	FNL	2050	FEL		
		BHL	Sec 29	T09S	R21E	1554	FNL	1809	FEL	
43-047-54965	NBU 921-29G1CS	Sec 29	T09S	R21E	1623	FNL	2089	FEL		
		BHL	Sec 29	T09S	R21E	1881	FNL	1811	FEL	
43-047-54966	NBU 921-29H1BS	Sec 29	T09S	R21E	1614	FNL	2040	FEL		
		BHL	Sec 29	T09S	R21E	1388	FNL	0490	FEL	
43-047-54967	NBU 921-29H1CS	Sec 29	T09S	R21E	1618	FNL	2059	FEL		
		BHL	Sec 29	T09S	R21E	1715	FNL	0490	FEL	
43-047-54968	NBU 921-29H4BS	Sec 29	T09S	R21E	1621	FNL	2079	FEL		
		BHL	Sec 29	T09S	R21E	2042	FNL	0491	FEL	
PAD NBU 921-29K										
43-047-54974	NBU 921-29O1BS	Sec 29	T09S	R21E	1862	FSL	2432	FWL		
		BHL	Sec 29	T09S	R21E	1063	FSL	1818	FEL	
43-047-54975	NBU921-29K4CS	Sec 29	T09S	R21E	1856	FSL	2413	FWL		
		BHL	Sec 29	T09S	R21E	1598	FSL	2145	FWL	
43-047-54976	NBU 921-29K1CS	Sec 29	T09S	R21E	1859	FSL	2422	FWL		
		BHL	Sec 29	T09S	R21E	2210	FSL	2143	FWL	
43-047-54977	NBU 921-29J4CS	Sec 29	T09S	R21E	1869	FSL	2450	FWL		
		BHL	Sec 29	T09S	R21E	1390	FSL	1817	FEL	
43-047-54978	NBU 921-29G4BS	Sec 29	T09S	R21E	1865	FSL	2441	FWL		
		BHL	Sec 29	T09S	R21E	2208	FNL	1811	FEL	
PAD NBU 921-29L										
43-047-54979	NBU 921-29L1BS	Sec 29	T09S	R21E	1643	FSL	0551	FWL		
		BHL	Sec 29	T09S	R21E	2374	FSL	0821	FWL	
43-047-54980	NBU 921-29L1CS	Sec 29	T09S	R21E	1641	FSL	0561	FWL		
		BHL	Sec 29	T09S	R21E	2046	FSL	0822	FWL	
43-047-54981	NBU 921-29L4BS	Sec 29	T09S	R21E	1639	FSL	0571	FWL		
		BHL	Sec 29	T09S	R21E	1719	FSL	0822	FWL	
43-047-54982	NBU 921-29M1BS	Sec 29	T09S	R21E	1636	FSL	0581	FWL		
		BHL	Sec 29	T09S	R21E	1064	FSL	0823	FWL	
PAD NBU 921-30A										
43-047-54986	NBU 921-30H1CS	Sec 30	T09S	R21E	0865	FNL	0646	FEL		
		BHL	Sec 30	T09S	R21E	1649	FNL	0536	FEL	
43-047-54987	NBU 921-30H1BS	Sec 30	T09S	R21E	0874	FNL	0643	FEL		
		BHL	Sec 30	T09S	R21E	1267	FNL	0535	FEL	
43-047-54988	NBU 92130B1CS	Sec 30	T09S	R21E	0856	FNL	0651	FEL		
		BHL	Sec 30	T09S	R21E	0572	FNL	1954	FEL	
43-047-54989	NBU 921-30B1BS	Sec 30	T09S	R21E	0846	FNL	0654	FEL		
		BHL	Sec 30	T09S	R21E	0231	FNL	1954	FEL	

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
PAD NBU 921-30A		
43-047-54990	NBU 921-30A1CS	Sec 30 T09S R21E 0837 FNL 0658 FEL BHL Sec 30 T09S R21E 0524 FNL 0540 FEL
43-047-54991	NBU 921-30A1BS	Sec 30 T09S R21E 0828 FNL 0662 FEL BHL Sec 30 T09S R21E 0194 FNL 0560 FEL
PAD NBU 921-290		
43-047-54992	NBU 921-29P4BS	Sec 29 T09S R21E 0496 FSL 1679 FEL BHL Sec 29 T09S R21E 0337 FSL 0485 FEL
43-047-54993	NBU 921-29O4CS	Sec 29 T09S R21E 0493 FSL 1689 FEL BHL Sec 29 T09S R21E 0120 FSL 1842 FEL
43-047-54994	NBU 921-29O4BS	Sec 29 T09S R21E 0486 FSL 1708 FEL BHL Sec 29 T09S R21E 0409 FSL 1820 FEL
43-047-54995	NBU 921-29O1CS	Sec 29 T09S R21E 0489 FSL 1698 FEL BHL Sec 29 T09S R21E 0736 FSL 1819 FEL
PAD NBU 921-29N		
43-047-54996	NBU 921-29N4CS	Sec 29 T09S R21E 0623 FSL 1903 FWL BHL Sec 29 T09S R21E 0104 FSL 2111 FWL
43-047-54997	NBU 921-29N1CS	Sec 29 T09S R21E 0643 FSL 1901 FWL BHL Sec 29 T09S R21E 0834 FSL 2152 FWL
43-047-54998	NBU 921-29N1BS	Sec 29 T09S R21E 0653 FSL 1900 FWL BHL Sec 29 T09S R21E 1214 FSL 2153 FWL
43-047-54999	NBU 921-29M4BS	Sec 29 T09S R21E 0633 FSL 1902 FWL BHL Sec 29 T09S R21E 0320 FSL 0782 FWL
PAD NBU 921-30D		
43-047-55003	NBU 921-30C1BS	Sec 30 T09S R21E 0730 FNL 0847 FWL BHL Sec 30 T09S R21E 0059 FNL 2323 FWL
43-047-55004	NBU 921-30D1BS	Sec 30 T09S R21E 0707 FNL 0814 FWL BHL Sec 30 T09S R21E 0210 FNL 0875 FWL
43-047-55005	NBU 921-30D1CS	Sec 30 T09S R21E 0713 FNL 0822 FWL BHL Sec 30 T09S R21E 0521 FNL 0874 FWL
43-047-55006	NBU 921-30D4CS	Sec 30 T09S R21E 0724 FNL 0838 FWL BHL Sec 30 T09S R21E 1190 FNL 0871 FWL
43-047-55007	NBU 921-30E1BS	Sec 30 T09S R21E 0702 FNL 0806 FWL BHL Sec 30 T09S R21E 1523 FNL 0862 FWL
43-047-55008	NBU 921-30E1CS	Sec 30 T09S R21E 0719 FNL 0830 FWL BHL Sec 30 T09S R21E 1872 FNL 0885 FWL

This office has no objection to permitting the wells at this time.

Michael Coulthard

Digitally signed by Michael Coulthard
DN: cn=Michael Coulthard, o=Bureau of Land Management,
ou=Division of Minerals, email=mcoulth@blm.gov, c=US
Date: 2014.11.25 12:00:46 -0700

bcc: File - Natural Buttes Unit
Division of Oil Gas and Mining
Central Files
Agr. Sec. Chron
Fluid Chron

MCoulthard:mc:11-25-14

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 11/20/2014

API NO. ASSIGNED: 43047549910000

WELL NAME: NBU 921-30A1BS

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)

PHONE NUMBER: 720 929-6828

CONTACT: Joel Malefyt

PROPOSED LOCATION: NENE 30 090S 210E

Permit Tech Review:

SURFACE: 0828 FNL 0662 FEL

Engineering Review:

BOTTOM: 0194 FNL 0560 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01190

LONGITUDE: -109.58721

UTM SURF EASTINGS: 620577.00

NORTHINGS: 4430034.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0581

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 1 - Federal

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: FEDERAL - WYB000291
- Potash
- Oil Shale 190-5
- Oil Shale 190-3
- Oil Shale 190-13
- Water Permit: 43-8496
- RDCC Review:
- Fee Surface Agreement
- Intent to Commingle

Commingling Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 173-14
- Effective Date: 12/2/1999
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingling - ddoucet
 4 - Federal Approval - dmason
 15 - Directional - dmason
 17 - Oil Shale 190-5(b) - dmason



GARY R. HERBERT
Governor

SPENCER J. COX
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. HAZA
Division Director

Permit To Drill

Well Name: NBU 921-30A1BS
API Well Number: 43047549910000
Lease Number: UTU 0581
Surface Owner: FEDERAL
Approval Date: 12/17/2014

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 173-14. The expected producing formation or pool is the WASATCH-MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

Commingle:

In accordance with Board Cause No. 173-14, commingling of the production from the Wasatch formation and the Mesaverde formation in this well is allowed.

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

In accordance with the Order in Cause No. 190-5(b) dated October 28, 1982, the operator shall comply with the requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operators shall ensure that the surface and or production casing is properly cemented over the entire oil

shale section as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the division.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website

at <http://oilgas.ogm.utah.gov>

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) - due within 5 days of spudding the well
- Monthly Status Report (Form 9) - due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) - due prior to implementation
- Written Notice of Emergency Changes (Form 9) - due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) - due prior to implementation
- Report of Water Encountered (Form 7) - due within 30 days after completion
- Well Completion Report (Form 8) - due within 30 days after completion or plugging

Approved By:



For John Rogers
Associate Director, Oil & Gas

RECEIVED

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

AUG 27 2014

APPLICATION FOR PERMIT TO DRILL OR REENTER

BLM Vernal UT

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0581
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERR-MCGEE OIL & GAS ONSHORE Contact: JOEL MALEFYT Email: JOEL.MALEFYT@ANADARKO.COM		7. If Unit or CA Agreement, Name and No. UTU63047A
3a. Address P.O. BOX 173779 DENVER, CO 80202-3779	3b. Phone No. (include area code) Ph: 720-929-6828 Fx: 720-929-7828	8. Lease Name and Well No. NBU 921-30A1BS
4. Location of Well (Report location clearly and in accordance with any State requirements. *) At surface NENE 828FNL 662FEL 40.011979 N Lat, 109.587345 W Lon At proposed prod. zone NENE 194FNL 560FEL 40.013719 N Lat, 109.586987 W Lon		9. API Well No. 43-047-54991
14. Distance in miles and direction from nearest town or post office* 46 MILES SOUTH OF VERNAL, UT		10. Field and Pool, or Exploratory NATURAL BUTTES
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 592	16. No. of Acres in Lease 2400.00	11. Sec., T., R., M., or Blk. and Survey or Area Sec 30 T9S R21E Mer SLB
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. 557	19. Proposed Depth 11372 MD 11305 TVD	12. County or Parish UINTAH
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4894 GL	22. Approximate date work will start 01/01/2015	13. State UT
20. BLM/BIA Bond No. on file WYB000291		17. Spacing Unit dedicated to this well
23. Estimated duration 60-90 DAYS		

24. Attachments

The following, completed in accordance with the requirements of Onshore Oil and Gas Order No. 1, shall be attached to this form:

- Well plat certified by a registered surveyor.
- A Drilling Plan.
- A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office).
- Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
- Operator certification
- Such other site specific information and/or plans as may be required by the authorized officer.

25. Signature (Electronic Submission)	Name (Printed/Typed) JOEL MALEFYT Ph: 720-929-6828	Date 08/27/2014
Title REGULATORY ANALYST		
Approved by (Signature) 	Name (Printed/Typed) Jerry Kenczka	Date JAN 21 2015
Title Assistant Field Manager Lands & Mineral Resources		Office VERNAL FIELD OFFICE

Application approval does not warrant or certify the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.
Conditions of approval, if any, are attached.

CONDITIONS OF APPROVAL ATTACHED

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

RECEIVED
JAN 27 2015

Additional Operator Remarks (see next page)

Electronic Submission #258532 verified by the BLM Well Information System
For KERR-MCGEE OIL & GAS ONSHORE, sent to the Vernal
Committed to AFMSS for processing by ROBIN R. HANSEN on 09/04/2014 ()

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL

** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED **

UDOGM



UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company: KERR MCGEE OIL & GAS ONSHORE LP Location: NENE SEC 30 T09S R21E
Well No: NBU 921-30A1BS Lease No: UTU0581
API No: 43-047-54991 Agreement: UTU63047A

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	- Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	- Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm ut vn opreport@blm.gov
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

**SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

- Bird exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals (BLM 2012b).
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks (BLM 2012b).

Generic COAs for all locations within the Greater Natural Buttes EIS (MAY 2012)

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All new and replacement internal combustion gas field engines of greater than 300 design-rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- A Class III archeological survey has been conducted on all federal and/or Indian Trust lands in the GNBPA. All personnel will refrain from collecting artifacts and from disturbing any significant cultural resources in the area. KMG will be responsible for informing all persons in the area who are associated with this Project that they may be subject to prosecution for knowingly disturbing historic or archaeological sites or for collecting artifacts. All vehicular traffic, personnel movement, construction, and restoration activities will be confined to the areas examined, as referenced in the archaeological report, and to the existing roadways and/or evaluated access routes. If historic or archaeological materials were to be uncovered during construction, KMG will immediately stop surface disturbing activities that might further disturb such materials and contact the appropriate Authorized Officer (AO).
- If blasting operations are scheduled to occur within 2 miles of an active gilsonite mine, the mine operator will be notified at least 48 hours prior to blasting to coordinate activities for mine worker safety.
- KMG will conduct a paleontological survey on all of its federal locations. All personnel will refrain from collecting fossils and from disturbing any significant fossil in the GNBPA.
- If paleontological materials were to be uncovered during construction, KMG will immediately stop construction and contact the appropriate AO. A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontological material before construction can continue.

- Damage to livestock and livestock facilities will be reported as quickly as possible to the BLM and affected livestock operators. Operators will develop and employ prevention measures to avoid damaging fences, gates, and cattleguards, including upgrading cattleguard gate widths and load-bearing requirements and fencing all open pits and cellars.
- If partial or complete removal of a fence cannot be avoided, the fence will be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence will be braced and a cattleguard and gate installed per BLM guidance.
- Speed limits will be followed and signs will be erected in lambing/calving areas, shipping pastures, or adjacent to working corrals to warn vehicle operators. (April 1 to June 1)
- In accordance with the procedures described in its Pesticide/ Herbicide Use Plan, KMG will monitor for the growth of invasive species resulting from surface disturbance caused by Project activities and will control weeds caused by Project activities.
- KMG will use its best efforts to control noxious weeds along access road authorizations, pipeline route authorizations, well sites, or other proposed facilities by spraying or mechanical removal. A list of noxious weeds will be obtained from the BLM or the appropriate County Extension Office. On BLM-administered land, a Pesticide Use Proposal will be submitted and approved prior to the application of herbicides or other pesticides or possibly hazardous chemicals.
- KMG will conduct pre-disturbance weed inventories to identify locations of noxious and invasive weed species.
- A 1- or 2-year rest period or mechanical control will be required prior to reseedling on areas treated with herbicide spraying.
- An integrated weed management plan will be developed, and include the following components:
 - Surveying for special status plant species before treating an area,
 - Considering effects to special status species when designing herbicide treatment programs,
 - Using drift reduction agents to reduce the risk of drift hazard, and
 - Using selective herbicide and a wick to backpack sprayer to minimize risks to special plants.
- Dirt ramps will be built and maintained at an angle not to exceed 45 degrees every 150 to 200 feet along open pipeline trenches to reduce habitat fragmentation and increase accessibility of small animals (mammals, reptiles, amphibians) to adjacent habitats.

- On level or gently sloping ground (5 percent slope or less), surface pipelines (4 inches or greater in diameter) will be elevated a minimum of 6 inches above the ground to allow passage of small animals beneath the pipe. This ground clearance will be achieved by placing the pipeline on blocks at intervals of 150 or 200 feet or as appropriate.
- Bird Exclusion netting will be installed over reserve pits containing water that are left open for more than 30 days to reduce possibility of exposure to hazardous chemicals.
- KMG will install bird-excluding devices that prevent the perching and entry of migratory birds on or into its new fired vessel exhaust stacks.

**DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)**

SITE SPECIFIC DOWNHOLE COAs:

1. Surface casing cement shall be brought to surface.
2. Production casing cement shall be brought 200' up and into the surface casing.
3. For the drilling of the surface hole section, operator is required to install an bowl diverter system or rotating head which is connected and discharges to an panic or choke blooie line. The surface hole section of the subject well is deeper then 2,000 ft.
4. Operators downhole program is for one of two TD proposals, either formation Wasatch-Mesaverde or Blackhawk. COA covering BOPE applies for well if operator drilling drilling program is "Blackhawk Drilling Program." Require useage of an modified 5m stack. The 5M BOPE (minimum) shall be a modified 5m BOPE stack to include a third (3) pipe ram and one (1) remote kill line.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in CD (compact disc) format to the Vernal BLM Field Office. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).

- Date well was placed in a producing status (date of first production for which royalty will be paid).
- The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
- The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
- Unit agreement and/or participating area name and number, if applicable.
- Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0581	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 921-30A1BS	
9. API NUMBER: 43047549910000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: UINTAH	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS
 Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6507
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 0662 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 21.0E Meridian: S

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/30/2015	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
Utah Division of
Oil, Gas and Mining

Date: _____
By:

NAME (PLEASE PRINT) Jennifer Thomas	PHONE NUMBER 720 929-6808	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 11/30/2015	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047549910000

API: 43047549910000

Well Name: NBU 921-30A1BS

Location: 0828 FNL 0662 FEL QTR NENE SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/17/2014

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No

- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No

- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No

- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No

- Has the approved source of water for drilling changed? Yes No

- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No

- Is bonding still in place, which covers this proposed well? Yes No

Signature: Jennifer Thomas

Date: 11/30/2015

Title: Regulatory Specialist Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0581	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES	
8. WELL NAME and NUMBER: NBU 921-30A1BS	
9. API NUMBER: 43047549910000	
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	
COUNTY: Uintah	
STATE: UTAH	

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.

1. TYPE OF WELL Gas Well	1. TYPE OF WELL Gas Well
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6454
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0828 FNL 0662 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 30 Township: 09.0S Range: 21.0E Meridian: S	

11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/3/2016	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests an extension to this APD for the maximum time allowed. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the
November 08, 2016
Oil, Gas and Mining

Date: _____
By:

NAME (PLEASE PRINT) Joel Malefy	PHONE NUMBER 720 929-6828	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/3/2016	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047549910000

API: 43047549910000

Well Name: NBU 921-30A1BS

Location: 0828 FNL 0662 FEL QTR NENE SEC 30 TWNP 090S RNG 210E MER S

Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date Original Permit Issued: 12/17/2014

The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which should be verified.

- If located on private land, has the ownership changed, if so, has the surface agreement been updated? Yes No
- Have any wells been drilled in the vicinity of the proposed well which would affect the spacing or siting requirements for this location? Yes No
- Has there been any unit or other agreements put in place that could affect the permitting or operation of this proposed well? Yes No
- Have there been any changes to the access route including ownership, or rightof- way, which could affect the proposed location? Yes No
- Has the approved source of water for drilling changed? Yes No
- Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation? Yes No
- Is bonding still in place, which covers this proposed well? Yes No

Signature: Joel Malefyt

Date: 11/3/2016

Title: Regulatory Analyst Representing: KERR-MCGEE OIL & GAS ONSHORE, L.P.