API Well Number: 43047534270000

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 922-33N4CS

2. TYPE OF WORK
DRILL NEW WELL ■ REENTER P&A WELL ☐ DEEPEN WELL ☐

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
720 929-6515

8. ADDRESS OF OPERATOR
P.O. Box 173779, Denver, CO, 80217

9. OPERATOR E-MAIL
julie.jacobson@anadarko.com

10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE)
UTU-01191-A

11. MINERAL OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

12. SURFACE OWNERSHIP
FEDERAL ■ INDIAN ☐ STATE ☐ FEE ☐

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ■ (Submit Commingling Application) NO ☐

19. SLANT
VERTICAL ☐ DIRECTIONAL ■ HORIZONTAL ☐

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	870 FSL 2255 FWL	SESW	33	9.0 S	22.0 E	S
Top of Uppermost Producing Zone	69 FSL 2125 FWL	SESW	33	9.0 S	22.0 E	S
At Total Depth	69 FSL 2125 FWL	SESW	33	9.0 S	22.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
513

23. NUMBER OF ACRES IN DRILLING UNIT
1363

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
817

26. PROPOSED DEPTH
MD: 10288 TVD: 10166

27. ELEVATION - GROUND LEVEL
5067

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 - 2370	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 - 10288	11.6	HCP-110 LT&C	12.5	Premium Lite High Strength	310	3.38	12.0
							50/50 Poz	1510	1.31	14.3

ATTACHMENTS

VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES

- ✔ WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER
- ✔ COMPLETE DRILLING PLAN
- ☐ AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)
- ☐ FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
- ✔ DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)
- ✔ TOPOGRAPHICAL MAP

NAME Gina Becker | **TITLE** Regulatory Analyst II | **PHONE** 720 929-6086

SIGNATURE | **DATE** 12/14/2012 | **EMAIL** gina.becker@anadarko.com

API NUMBER ASSIGNED
43047534270000

APPROVAL

Permit Manager

RECEIVED: December 27, 2012

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

NBU 922-33N4CS

Surface: 870 FSL / 2255 FWL SESW
BHL: 69 FSL / 2125 FWL SESW

Section 33 T9S R22E

Unitah County, Utah
Mineral Lease: UTU-01191-A

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:

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1,228'	
Birds Nest	1,520'	Water
Mahogany	1,919'	Water
Wasatch	4,408'	Gas
Mesaverde	6,882'	Gas
Sego	9,047'	Gas
Castlegate	9,125'	Gas
Blackhawk	9,566'	Gas
TVD =	10,166'	
TD =	10,288'	

2.c 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** (Schematic Attached)

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

RECEIVED: December 12, 2012

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 10166' TVD, approximately equals 6,506 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,255 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 9047' TVD, approximately equals 5,519 psi (0.61 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 3,552 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. Variances:

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

RECEIVED: December 12, 2012

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

Blackhawk Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	November 12, 2012
WELL NAME	**NBU 922-33N4CS**	TD	10,166' TVD 10,288' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah FINISHED ELEVATION 5,067'
SURFACE LOCATION	SESW 870 FSL 2255 FWL Sec 33 T 9S R 22E		
	Latitude: 39.987652 Longitude: -109.446355 NAD 83		
BTM HOLE LOCATION	SESW 69 FSL 2125 FWL Sec 33 T 9S R 22E		
	Latitude: 39.985454 Longitude: -109.446811 NAD 83		
OBJECTIVE ZONE(S)	BLACKHAWK (Part of the Mesaverde Group)		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
		200'	12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
			7-7/8"	4-1/2" 11.6# HCP-110 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.5 ppg

All water flows encountered while drilling will be reported to the appropriate agencies.

Green River @ 1,228'
Top of Birds Nest @ 1,520'
Mahogany @ 1,919'

Preset f/ GL @ 2,370' TVD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @ 4,408'

Mud logging program TBD
Cased hole logging program from TD - surf csg

Mesaverde @ 6,882' TVD

Sego @ 9,047' TVD

Castlegate @ 9,125' TVD

Blackhawk 9,566' TVD

Max anticipated Mud required 12.5 ppg

TD @ 10,166' TVD 10,288' MD

RECEIVED: December 12, 2012

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

Blackhawk Drilling Program

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION LTC	TENSION DQX
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,370	28.00	IJ-55	LTC	2.27	1.69	5.99	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	1.31		3.80
	4-1/2"	5,000	to	10,288'	11.60	HCP-110	LTC	1.19	1.31	5.62	

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	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,870'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00		2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,908'	Premium Lite II +0.25 pps	310	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,380'	50/50 Poz/G + 10% salt + 2% gel	1,510	35%	14.30		1.31
			+ 0.1% R-3					

*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: _____ **DATE:** _____

Nick Spence / Danny Showers / Travis Hansell

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: December 12, 2012

KERR-McGEE OIL & GAS ONSHORE LP

Wasatch/Mesaverde Drilling Program

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	November 12, 2012
WELL NAME	**NBU 922-33N4CS**	TD	9,047' TVD 9,169' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah
		FINISHED ELEVATION	5,067'
SURFACE LOCATION	SESW 870 FSL 2255 FWL Sec 33 T 9S R 22E		
	Latitude: 39.987652 Longitude: -109.446355		NAD 83
BTM HOLE LOCATION	SESW 69 FSL 2125 FWL Sec 33 T 9S R 22E		
	Latitude: 39.985454 Longitude: -109.446811		NAD 83
OBJECTIVE ZONE(S)	Wasatch Formation/Mesaverde Group		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), BLM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'		14"	
			12-1/4	8-5/8", 28#, IJ-55, LTC	Air mist
		200'			
All water flows encountered while drilling will be reported to the appropriate agencies.			11.00'	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @	1,228'			
	Top of Birds Nest @	1,520'			
	Mahogany @	1,919'			
	Preset f/ GL @	2,370' TVD			
	Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.				
	Wasatch @	4,408'			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# I-80 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-12.0 ppg
	Mesaverde @	6,882' TVD			
	Sego @	9,047' TVD			
Max anticipated Mud required 12.0 ppg	TD @	9,047' TVD 9,169' MD			

RECEIVED: December 12, 2012

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

Wasatch/Mesaverde Drilling Program

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION LTC	TENSION DQX
CONDUCTOR	14"	0-40'									
								3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to	2,370	28.00	IJ-55	LTC	2.27	1.69	5.99	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	1.12		3.07
								7,780	6,350	223,000	
	4-1/2"	5,000	to	9,169'	11.60	I-80	LTC	1.11	1.12	5.65	

Surface Casing:

(Burst Assumptions: TD = 12.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

Fracture at surface shoe with 0.1 psi/ft gas gradient above

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.61 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT		YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80		1.15
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80		1.15
			+ 2% CaCl + 0.25 pps flocele					
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**					
Option 2	LEAD	1,870'	Premium cmt + 16% Gel + 10 pps gilsonite	230	35%	12.00		2.86
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80		1.15
			+ 0.25 pps Flocele + 3% salt BWOC + GR 3 pps					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80		1.15
PRODUCTION	LEAD	3,899'	Premium Lite II +0.25 pps	310	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,270'	50/50 Poz/G + 10% salt + 2% gel	1,250	35%	14.30		1.31
			+ 0.1% R-3					

*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

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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: _____ **DATE:** _____

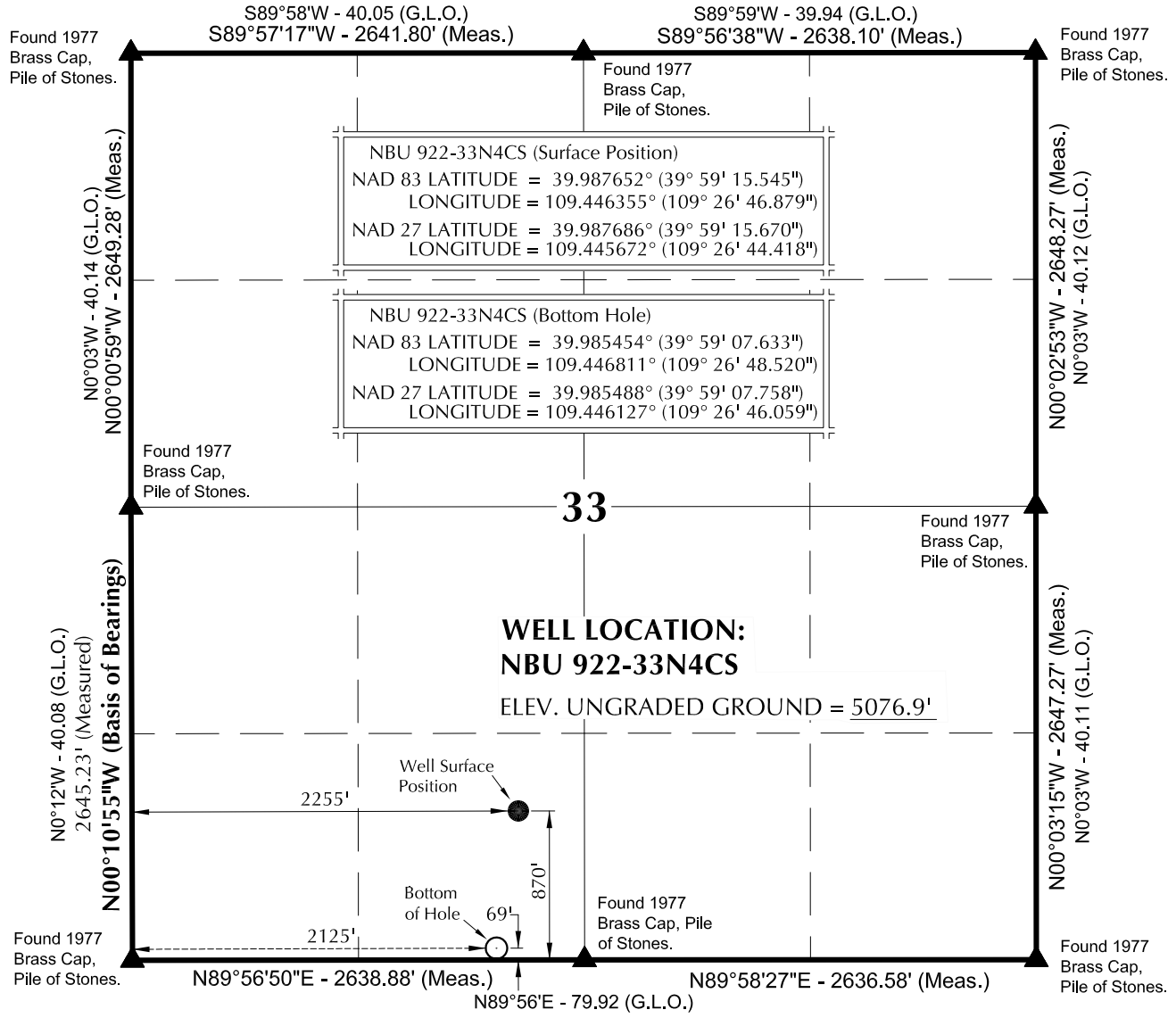
Nick Spence / Danny Showers / Travis Hansell

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: December 12, 2012

T9S, R22E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S09°02'58"W 811.02' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ 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'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

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

6-21-12

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

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

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

WELL PAD: NBU 922-33N

NBU 922-33N4CS
WELL PLAT
69' FSL, 2125' FWL (Bottom Hole)
SE $\frac{1}{4}$ SW $\frac{1}{4}$ OF SECTION 33, T9S, R22E, 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

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

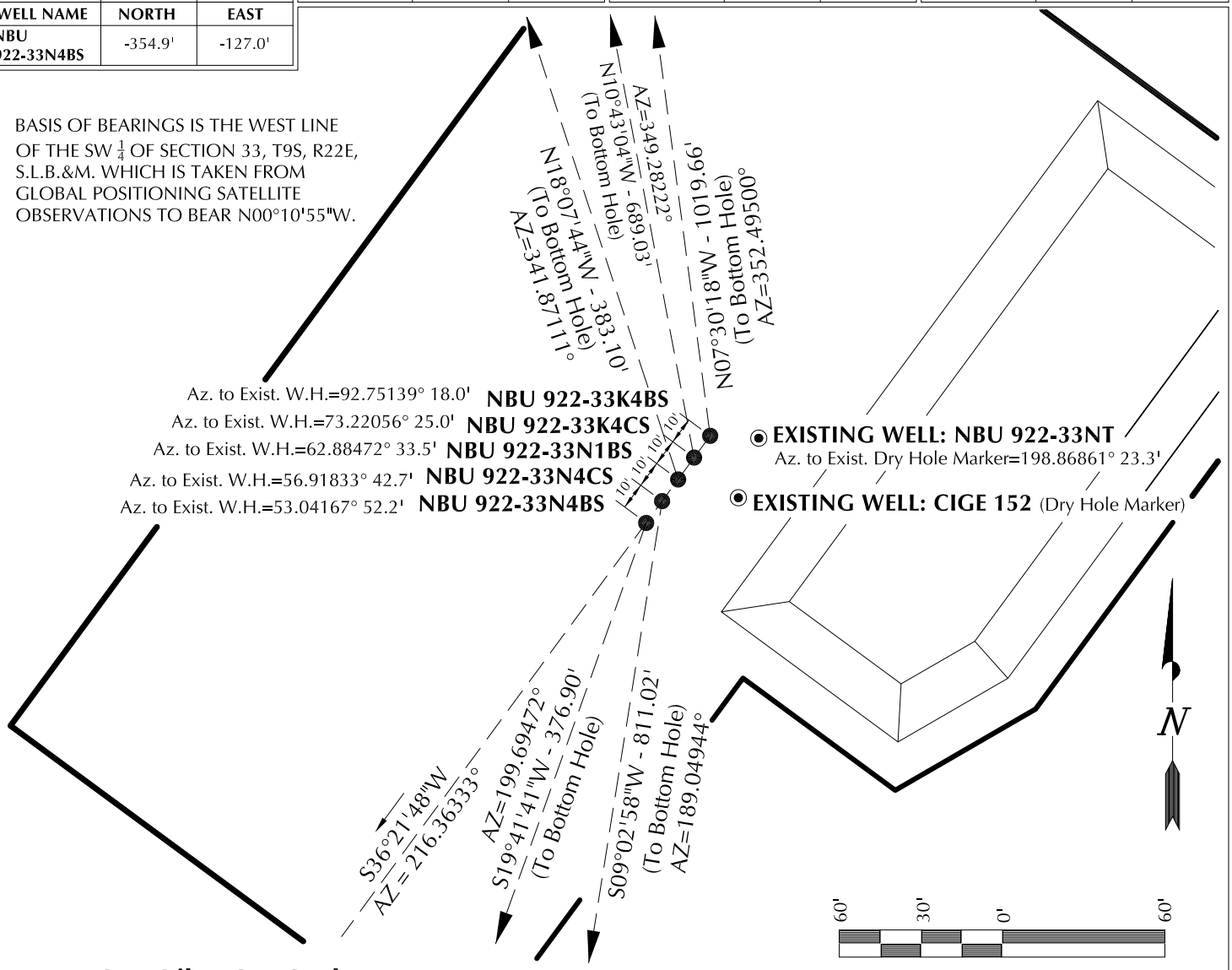
DATE SURVEYED: 5-31-12	SURVEYED BY: W.W.	SHEET NO:
DATE DRAWN: 6-13-12	DRAWN BY: M.W.W.	4
SCALE: 1" = 1000'	Date Last Revised:	4 OF 17

API Well Number: 43047534270000

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 922-33K4BS	39°59'15.784" 39.987718°	109°26'46.651" 109.446292°	39°59'15.909" 39.987753°	109°26'44.190" 109.445608°	894' FSL 2273' FWL	39°59'25.772" 39.990492°	109°26'48.359" 109.446766°	39°59'25.897" 39.990527°	109°26'45.897" 109.446083°	1905' FSL 2143' FWL
NBU 922-33K4CS	39°59'15.704" 39.987696°	109°26'46.727" 109.446313°	39°59'15.829" 39.987730°	109°26'44.266" 109.445629°	886' FSL 2267' FWL	39°59'22.393" 39.989554°	109°26'48.371" 109.446770°	39°59'22.518" 39.989588°	109°26'45.910" 109.446086°	1563' FSL 2141' FWL
NBU 922-33N1BS	39°59'15.625" 39.987674°	109°26'46.803" 109.446334°	39°59'15.750" 39.987708°	109°26'44.342" 109.445651°	878' FSL 2261' FWL	39°59'19.222" 39.988673°	109°26'48.333" 109.446759°	39°59'19.347" 39.988707°	109°26'45.872" 109.446076°	1242' FSL 2143' FWL
NBU 922-33N4CS	39°59'15.545" 39.987652°	109°26'46.879" 109.446355°	39°59'15.670" 39.987686°	109°26'44.418" 109.445672°	870' FSL 2255' FWL	39°59'07.633" 39.985454°	109°26'48.520" 109.446811°	39°59'07.758" 39.985488°	109°26'46.059" 109.446127°	69' FSL 2125' FWL
NBU 922-33N4BS	39°59'15.466" 39.987629°	109°26'46.956" 109.446377°	39°59'15.591" 39.987664°	109°26'44.494" 109.445693°	862' FSL 2249' FWL	39°59'11.960" 39.986656°	109°26'48.588" 109.446830°	39°59'12.085" 39.986690°	109°26'46.127" 109.446146°	507' FSL 2121' FWL
NBU 922-33NT	39°59'15.776" 39.987715°	109°26'46.420" 109.446228°	39°59'15.900" 39.987750°	109°26'43.959" 109.445544°	893' FSL 2291' FWL					
CIGE 152	39°59'15.558" 39.987655°	109°26'46.517" 109.446255°	39°59'15.683" 39.987690°	109°26'44.056" 109.445571°	871' FSL 2283' FWL					

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 922-33K4BS	1,010.9'	-133.2'	NBU 922-33K4CS	677.0'	-128.1'	NBU 922-33N1BS	364.1'	-119.2'	NBU 922-33N4CS	-800.9'	-127.6'
WELL NAME	NORTH	EAST									
NBU 922-33N4BS	-354.9'	-127.0'									



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WELL PAD - NBU 922-33N

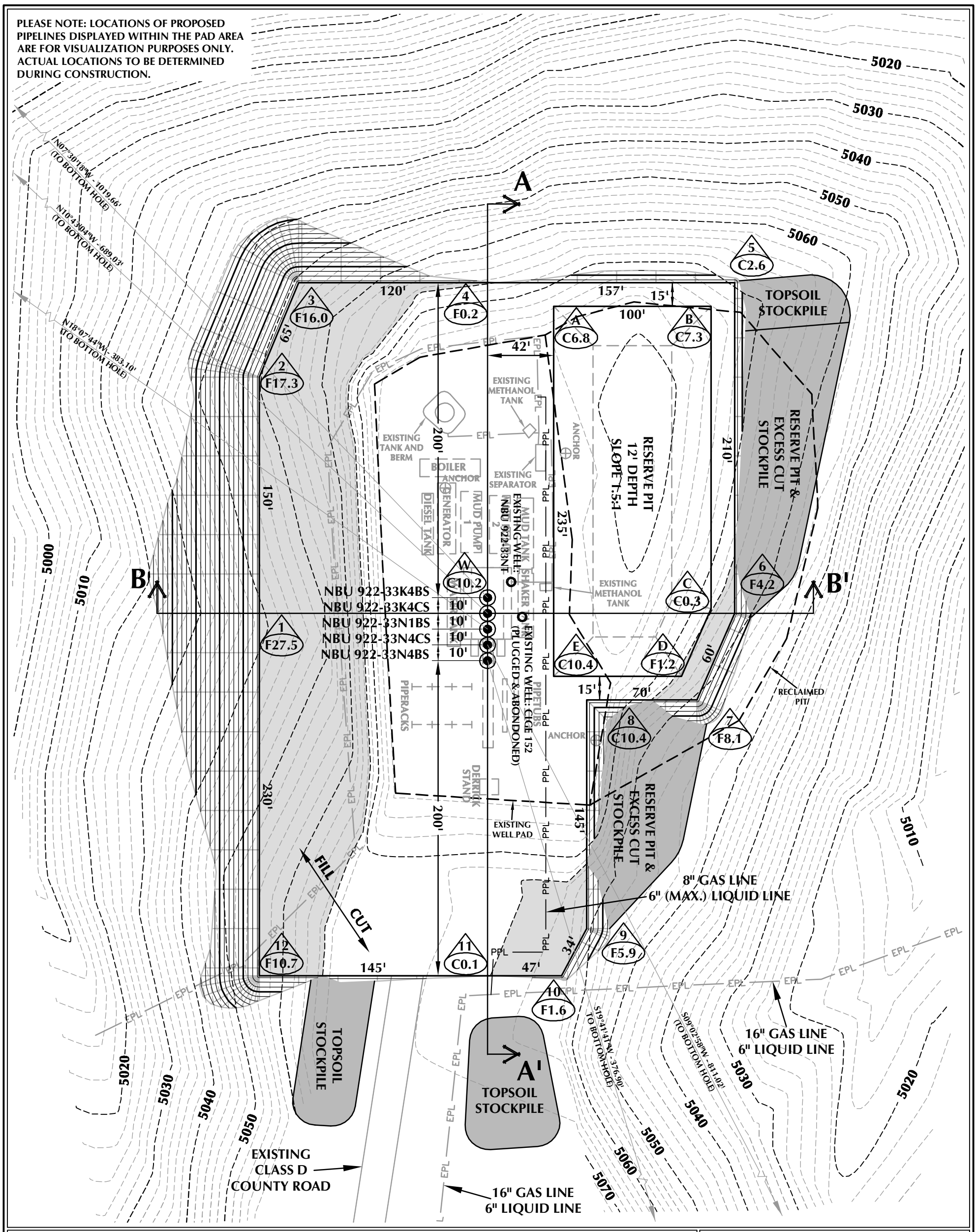
WELL PAD INTERFERENCE PLAT
WELLS - NBU 922-33K4BS, NBU 922-33K4CS, NBU 922-33N1BS, NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 5-31-12	SURVEYED BY: W.W.	SHEET NO: 6
DATE DRAWN: 6-13-12	DRAWN BY: M.W.W.	6 OF 17
SCALE: 1" = 60'	Date Last Revised:	

RECEIVED: December 12, 2012



WELL PAD - NBU 922-33N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5077.0'
FINISHED GRADE ELEVATION = 5066.8'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.34 ACRES
TOTAL DISTURBANCE AREA = 3.94 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

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WELL PAD - NBU 922-33N

WELL PAD - LOCATION LAYOUT
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 25,093 C.Y.
TOTAL FILL FOR WELL PAD = 23,498 C.Y.
TOPSOIL @ 6" DEPTH = 2,049 C.Y.
EXCESS MATERIAL = 1,595 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 7,830 C.Y.
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 29,780 BARRELS

WELL PAD LEGEND

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

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

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209 NORTH 300 WEST - VERNAL, UTAH 84078

SCALE: 1"=60'	DATE: 7/5/12	SHEET NO:
REVISED:	APF 8/23/12	7 — 7 OF 17

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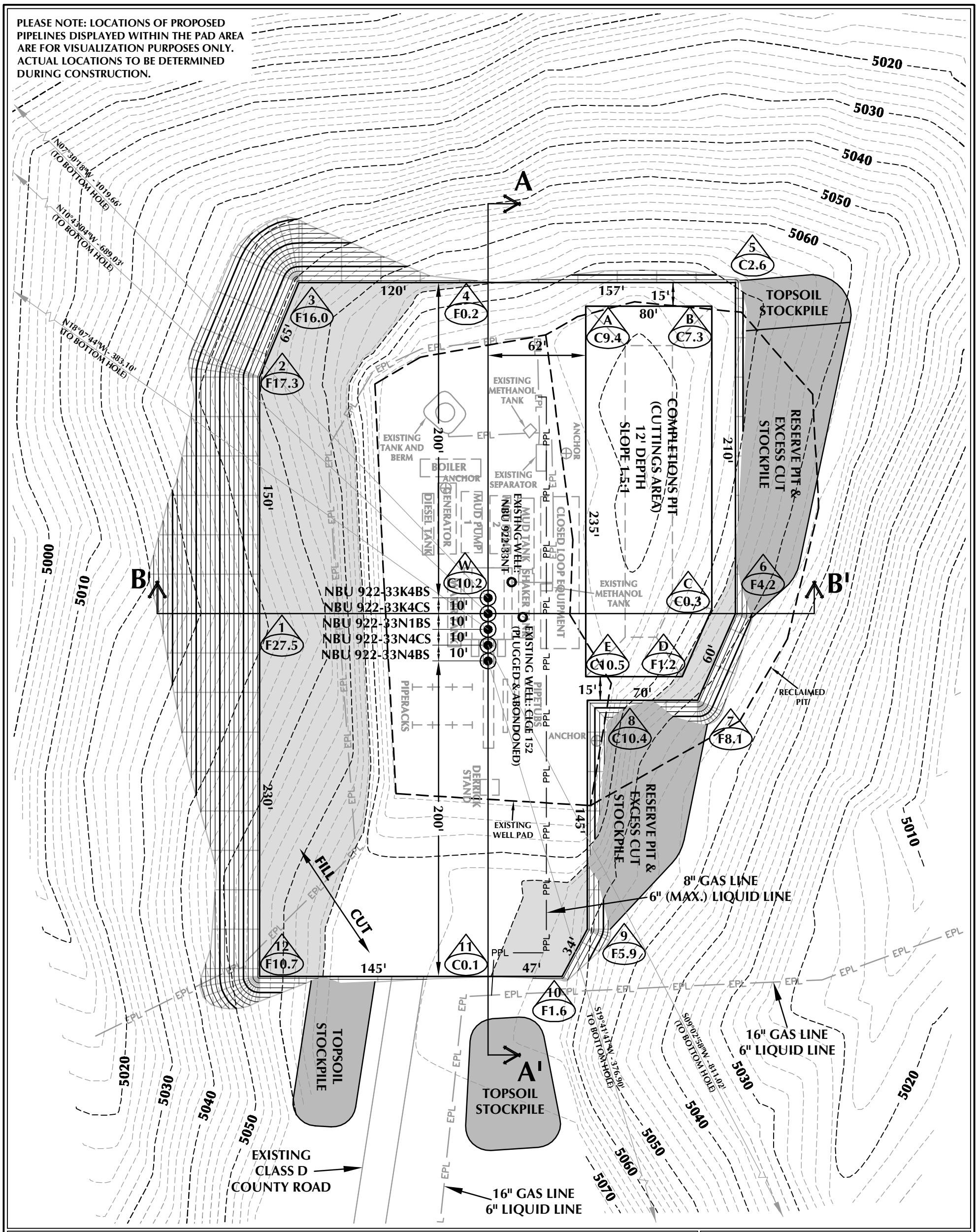

WELL PAD - NBU 922-33N (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 5077.0'
FINISHED GRADE ELEVATION = 5066.8'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.34 ACRES
TOTAL DISTURBANCE AREA = 3.94 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

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WELL PAD - NBU 922-33N

WELL PAD - LOCATION LAYOUT
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 25,093 C.Y.
TOTAL FILL FOR WELL PAD = 23,498 C.Y.
TOPSOIL @ 6" DEPTH = 2,049 C.Y.
EXCESS MATERIAL = 1,595 C.Y.

COMPLETIONS PIT QUANTITIES

TOTAL CUT FOR COMPLETIONS PIT
+/- 5,900 C.Y.
COMPLETIONS PIT CAPACITY
(2' OF FREEBOARD)
+/- 22,160 BARRELS

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209 NORTH 300 WEST - VERNAL, UTAH 84078

WELL PAD LEGEND

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

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

SCALE: 1"=60'	DATE: 8/23/12	SHEET NO:
REVISED:		7B 7B OF 17

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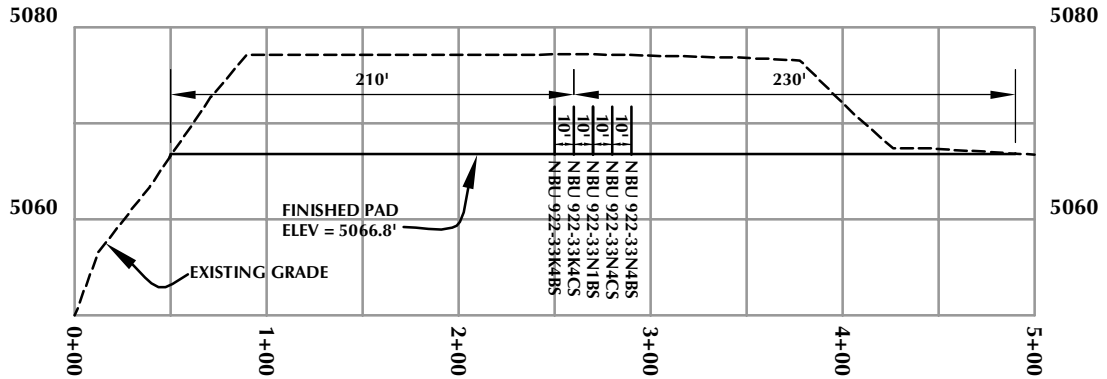
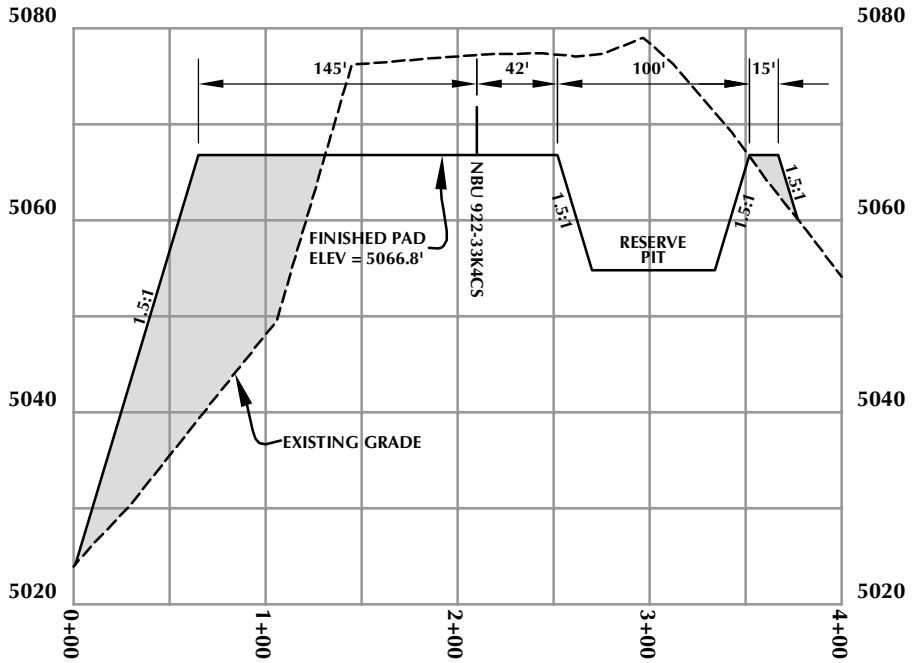


CROSS SECTION A-A'



CROSS SECTION B-B'

NOTE: CROSS SECTION B-B' DEPICTS MAXIMUM RESERVE PIT WIDTH.

HORIZONTAL 0 50' 100' 1" = 100'

VERTICAL 0 10' 20' 1" = 20'

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WELL PAD - NBU 922-33N

WELL PAD - CROSS SECTIONS
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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209 NORTH 300 WEST - VERNAL, UTAH 84078

Scale: 1"=100' | Date: 7/5/12 | SHEET NO: 8
REVISED:
8 OF 17

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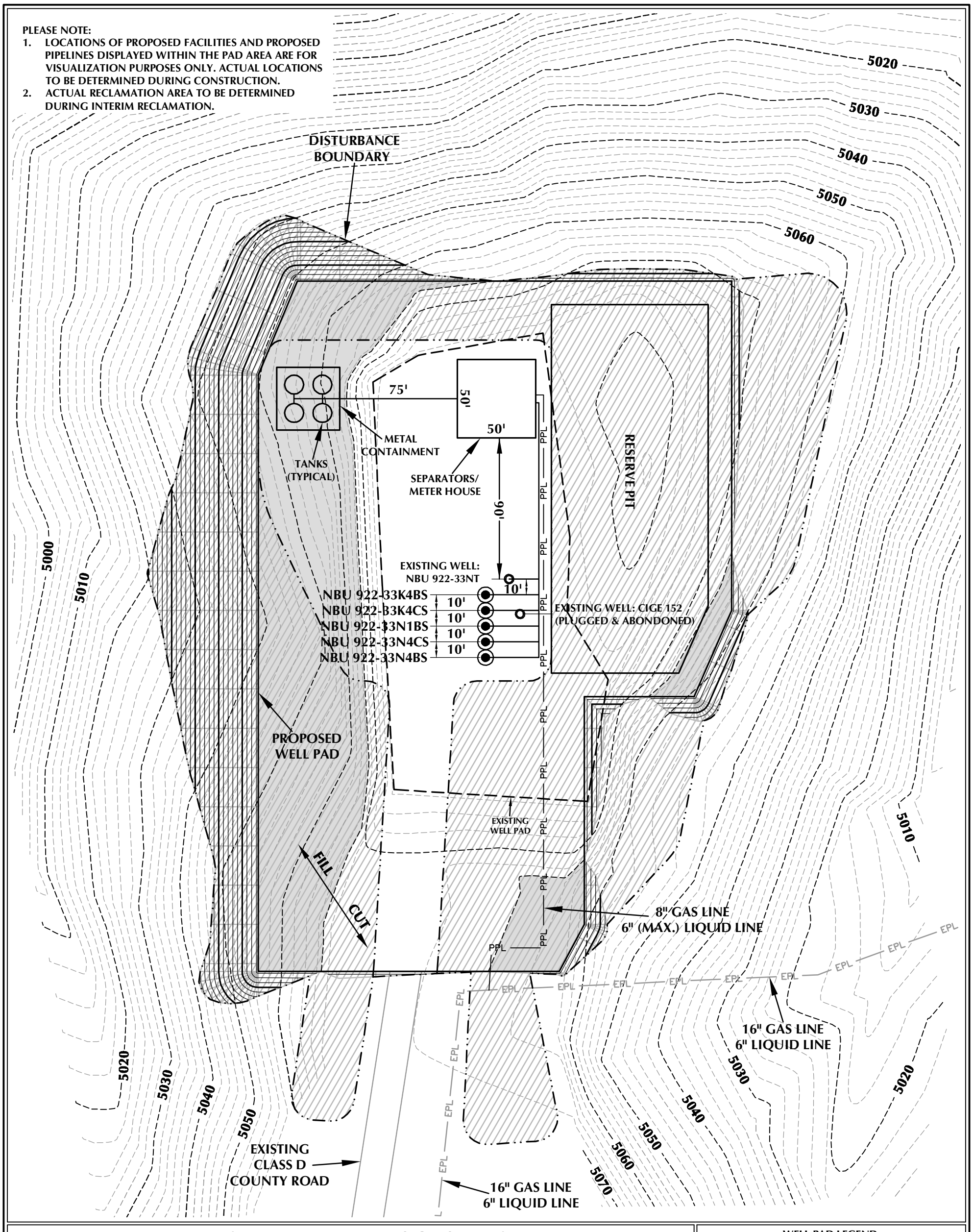

WELL PAD - NBU 922-33N DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 3.94 ACRES (INCLUDING EXISTING)
RECLAMATION AREA = 2.92 ACRES
TOTAL WELL PAD AREA AFTER RECLAMATION = 1.02 ACRES

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE
- RECLAMATION AREA

HORIZONTAL 0 30' 60' 1" = 60'
2' CONTOURS

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WELL PAD - NBU 922-33N

WELL PAD - RECLAMATION LAYOUT
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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SCALE: 1"=60'	DATE: 7/5/12	SHEET NO: 9
REVISED:	APF 8/23/12	9 OF 17

RECEIVED: December 12, 2012

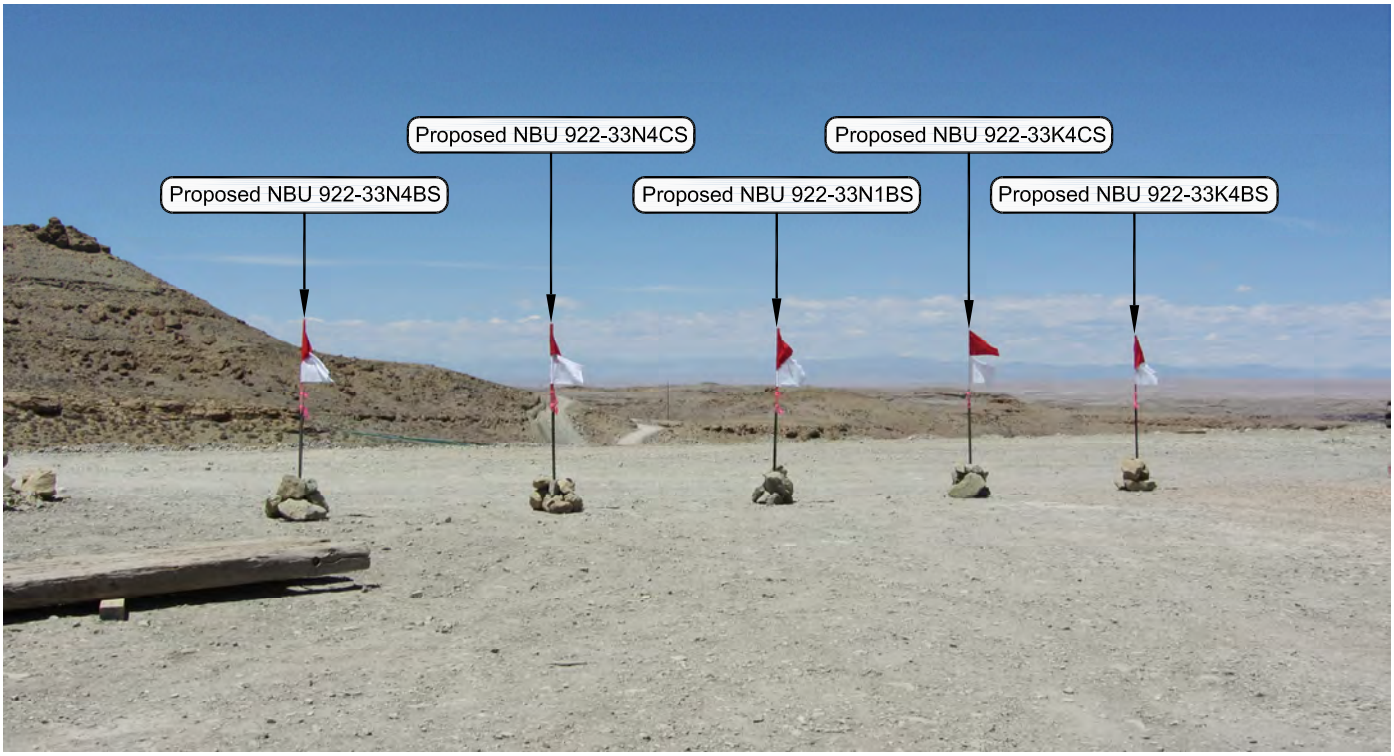

PHOTO VIEW: FROM PIT CORNER E TO LOCATION STAKE CAMERA ANGLE: NORTHWESTERLY

PHOTO VIEW: FROM EXISTING ACCESS ROAD CAMERA ANGLE: NORTHEASTERLY

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WELL PAD - NBU 922-33N

LOCATION PHOTOS
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH.

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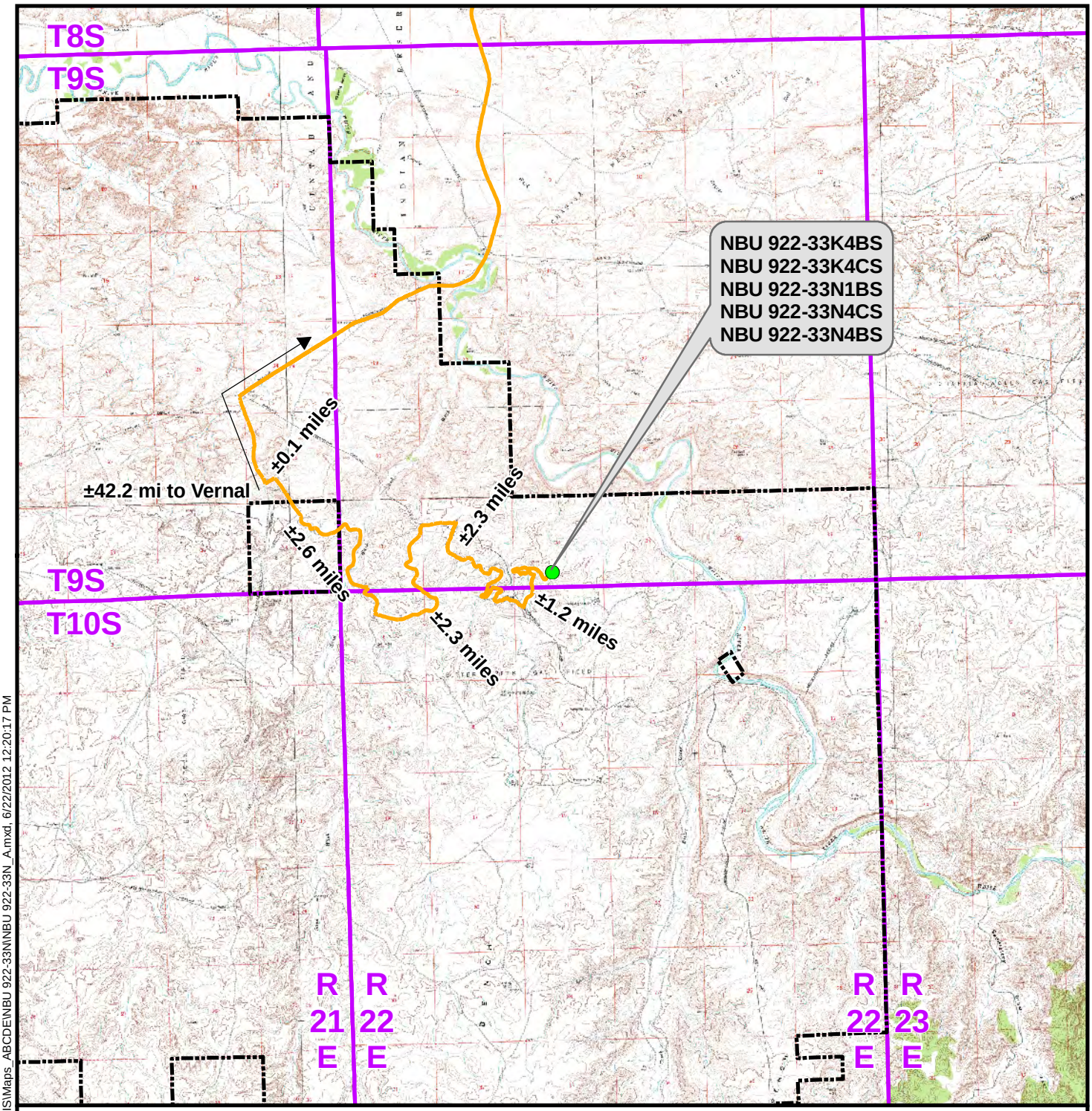
DATE PHOTOS TAKEN: 5-31-12	PHOTOS TAKEN BY: W.W.	SHEET NO:
DATE DRAWN: 6-13-12	DRAWN BY: M.W.W.	10
Date Last Revised:		10 OF 17

RECEIVED: December 12, 2012



Legend

Distance From Well Pad - NBU 922-33N To Unit Boundary: ±4,399ft

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

WELL PAD - NBU 922-33N

TOPO A
NBU 922-33K4BS, NBU 922-33K4CS, NBU 922-33N1BS, NBU 922-33N4CS & NBU 922-33N4BS LOCATED IN SECTION 33, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

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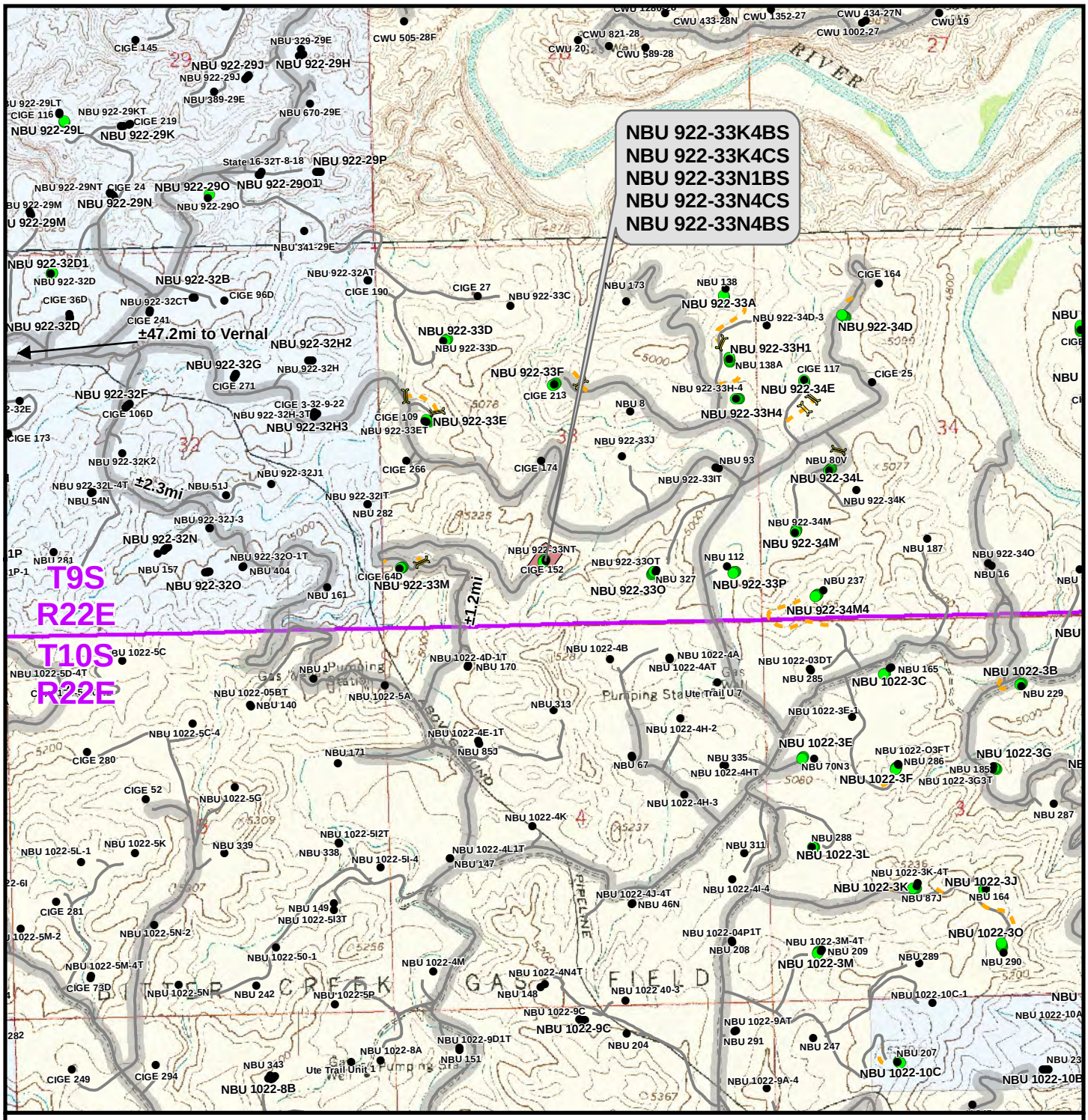
N

SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 11
DRAWN: TL	DATE: 24 Aug 2012	11 OF 17
REVISED:	DATE:	

File: K:\ANADARKO\2012\2012_14_NBU_FOCUS_922-33\GIS\Maps_ABCDE\NBU 922-33N\NBU 922-33N_A.mxd, 6/22/2012 12:20:17 PM

RECEIVED: December 12, 2012

API Well Number: 43047534270000



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: ±0ft

WELL PAD - NBU 922-33N

TOPO B
NBU 922-33K4BS, NBU 922-33K4CS, NBU 922-33N1BS, NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

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Denver, Colorado 80202

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N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 12
DRAWN: TL	DATE: 24 Aug 2012	12 OF 17
REVISED:	DATE:	

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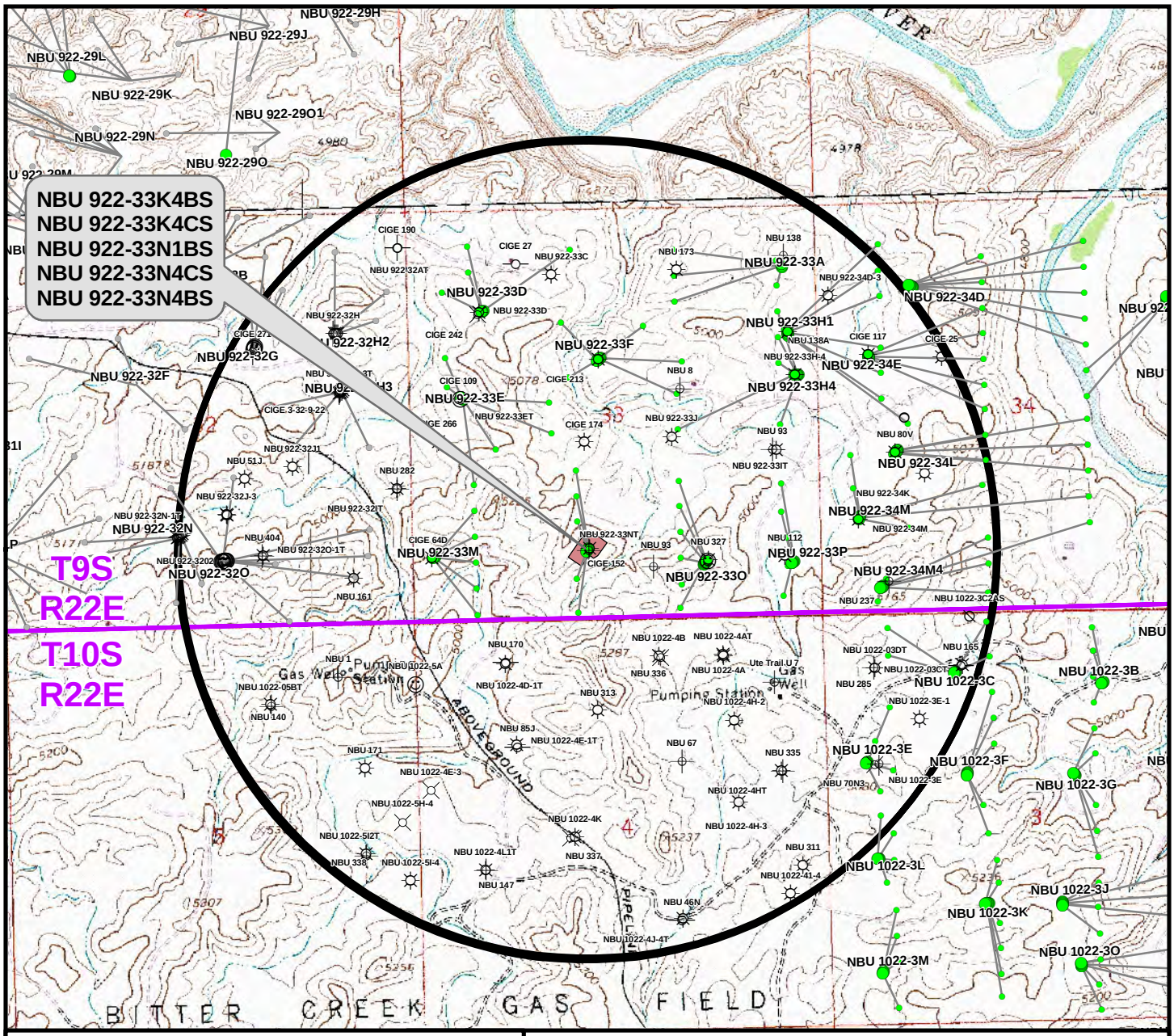

Well locations derived from Utah Division of Oil, Gas and Mining (UDOGM) (oilgas.ogm.utah.gov). The estimated distances from proposed bore locations to the nearest existing bore locations are based on UDOGM data.

Proposed Well	Nearest Well Bore	Footage
NBU 922-33K4BS	CIGE 174	378ft
NBU 922-33K4CS	NBU 922-33NT	687ft
NBU 922-33N1BS	NBU 922-33NT	379ft
NBU 922-33N4CS	CIGE 152	817ft
NBU 922-33N4BS	CIGE 152	398ft

Legend

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

WELL PAD - NBU 922-33N

TOPO C
NBU 922-33K4BS, NBU 922-33K4CS, NBU 922-33N1BS, NBU 922-33N4CS & NBU 922-33N4BS LOCATED IN SECTION 33, T9S, R22E, S.L.B.&M., UINTAH COUNTY, UTAH

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N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 13
DRAWN: TL	DATE: 24 Aug 2012	13 OF 17
REVISED:	DATE:	

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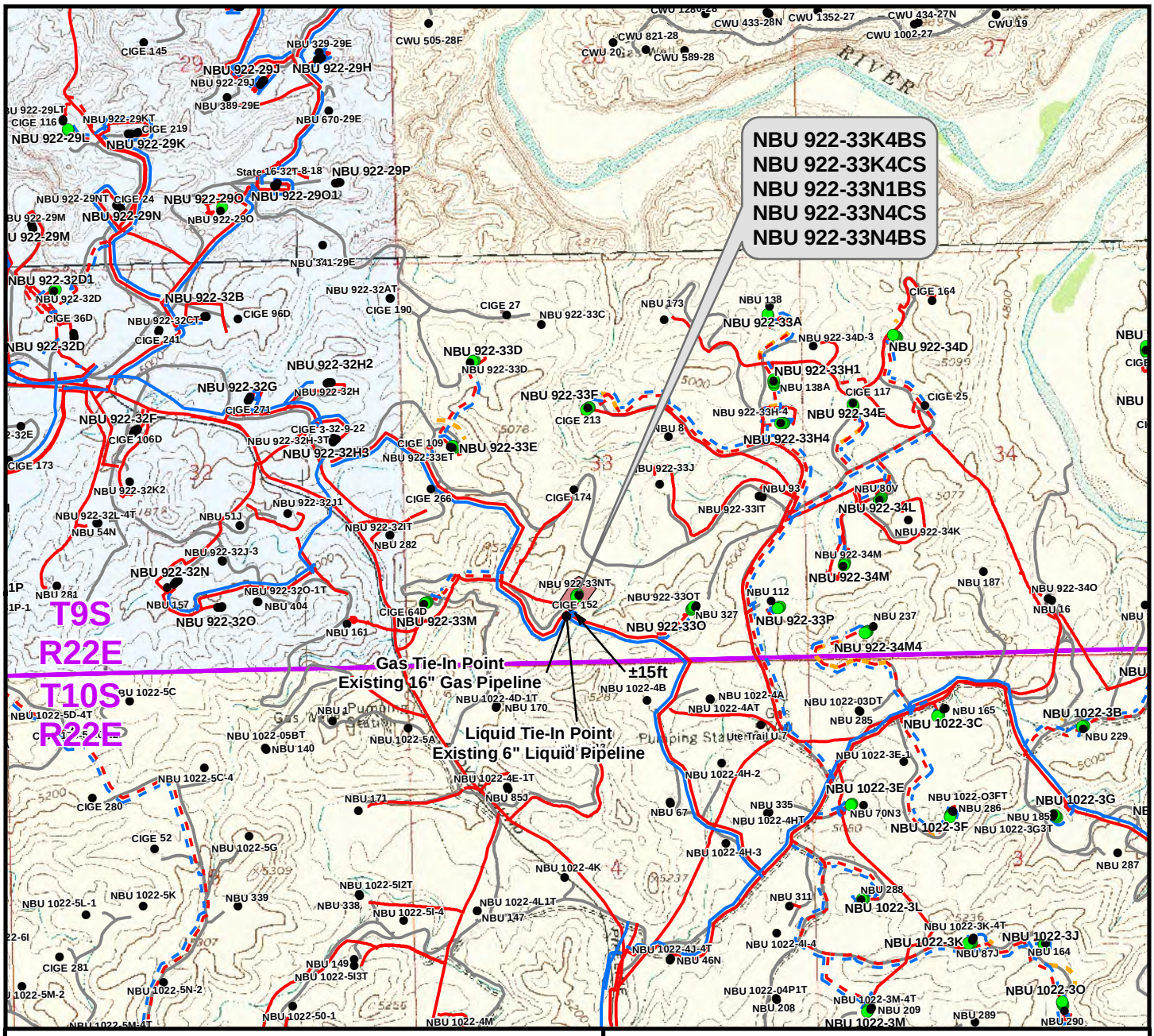
RECEIVED: December 12, 2012

API Well Number: 43047534270000



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to Edge of Pad)	±410ft
Buried 6"(Max.) (Edge of Pad to Existing 6" Liquid Pipeline)	±15ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±425ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±410ft
Buried 8" (Edge of Pad to Existing 16" Gas Pipeline)	±15ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±425ft

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
- Indian Reservation
- State
- Private

WELL PAD - NBU 922-33N

TOPO D
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 14
DRAWN: TL	DATE: 24 Aug 2012	14 OF 17
REVISED:	DATE:	

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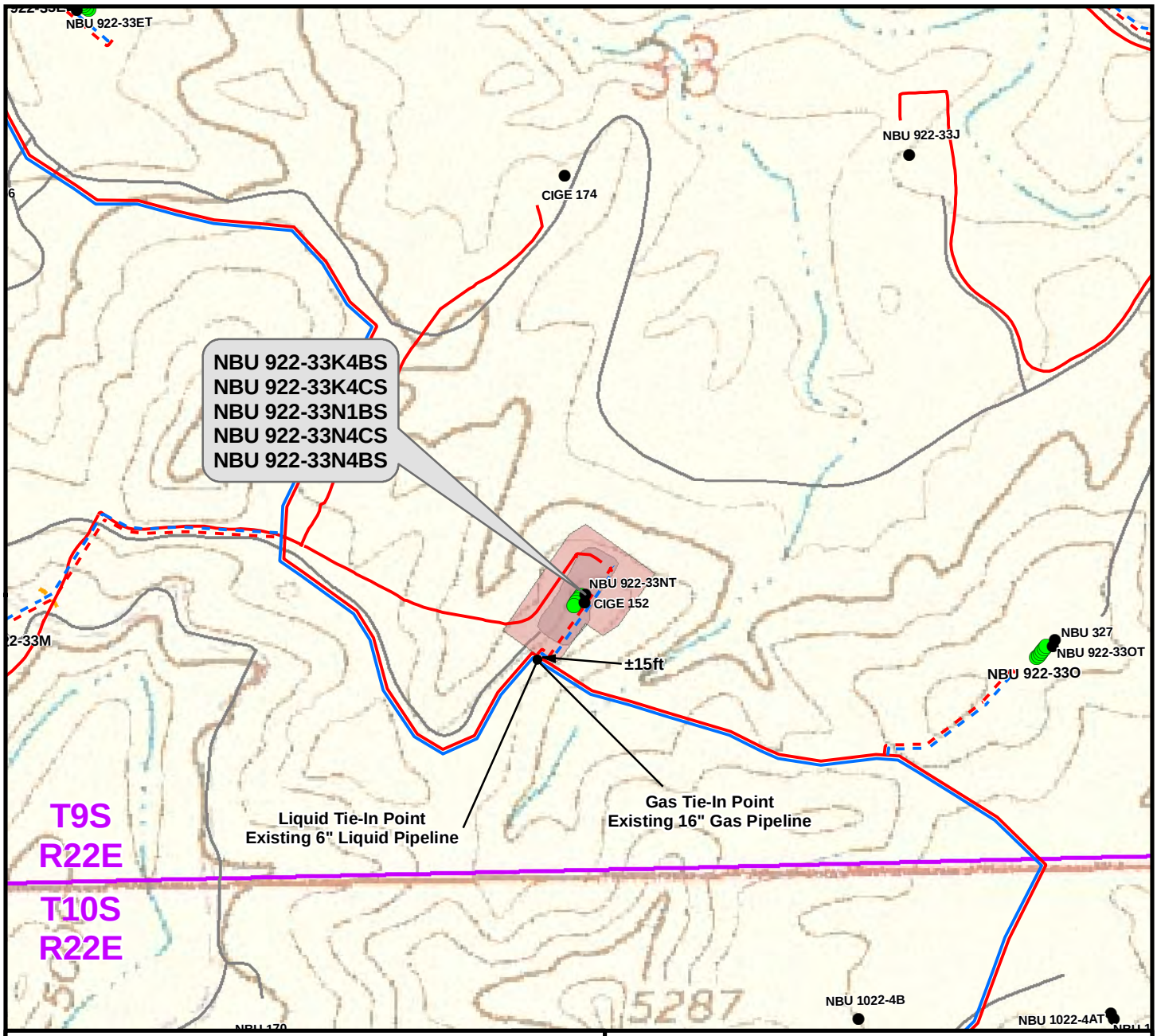
RECEIVED: December 12, 2012

API Well Number: 43047534270000



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Separator to Edge of Pad)	±410ft
Buried 6"(Max.) (Edge of Pad to Existing 6" Liquid Pipeline)	±15ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±425ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±410ft
Buried 8" (Edge of Pad to Existing 16" Gas Pipeline)	±15ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±425ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad - Proposed
- Well Pad - Existing
- 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
- Indian Reservation
- State
- Private

WELL PAD - NBU 922-33N

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Denver, Colorado 80202

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Sheridan, Wyoming 82801
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SCALE: 1" = 500ft	NAD83 USP Central	SHEET NO: 15
DRAWN: TL	DATE: 24 Aug 2012	15 OF 17
REVISED:	DATE:	

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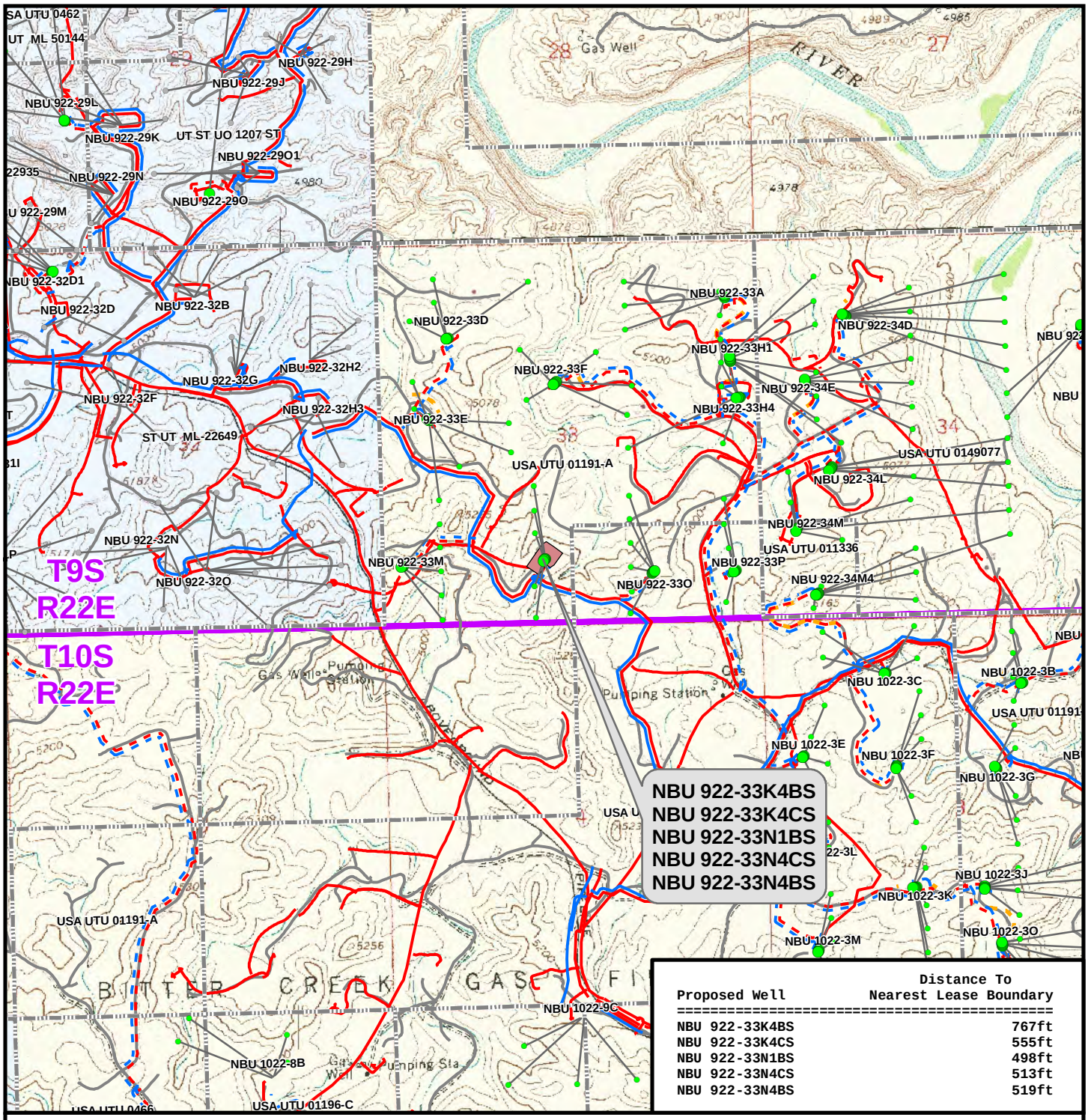

Proposed Well	Distance To Nearest Lease Boundary
NBU 922-33K4BS	767ft
NBU 922-33K4CS	555ft
NBU 922-33N1BS	498ft
NBU 922-33N4CS	513ft
NBU 922-33N4BS	519ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Bottom Hole - Existing
- Well Path
- Well Pad
- Lease Boundary
- 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
- Indian Reservation
- State
- Private

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WELL PAD - NBU 922-33N

TOPO E
NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
LOCATED IN SECTION 33, T9S, R22E,
S.L.B.&M., UINTAH COUNTY, UTAH

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N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 16
DRAWN: TL	DATE: 24 Aug 2012	16 OF 17
REVISED:	DATE:	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 922-33N
WELLS – NBU 922-33K4BS,
NBU 922-33K4CS, NBU 922-33N1BS,
NBU 922-33N4CS & NBU 922-33N4BS
Section 33, T9S, R22E, S.L.B.&M.

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 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along the Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along the second Class D County Road approximately 2.6 miles to a third Class D County Road to the east. Exit left and proceed in an easterly, then northeasterly direction along the third Class D County Road approximately 2.3 miles to a fourth Class D County Road to the south. Exit right and proceed in a southerly, then southeasterly direction along the fourth Class D County Road approximately 2.3 miles to a fifth Class D County Road to the northeast. Exit left and proceed in an northeasterly, then northwesterly, then southeasterly, then northeasterly direction along the fifth Class D County Road approximately 1.2 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 50.7 miles in a southerly direction.

RECEIVED: December 12, 2012

API Well Number: 43047534270000

Scientific Drilling

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 922-33N PAD
Well: NBU 922-33N4CS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M

Azimuths to True North
Magnetic North: 10.87°

Magnetic Field
Strength: 52190.1snT
Dip Angle: 65.83°
Date: 11/07/2012
Model: IGRF2010

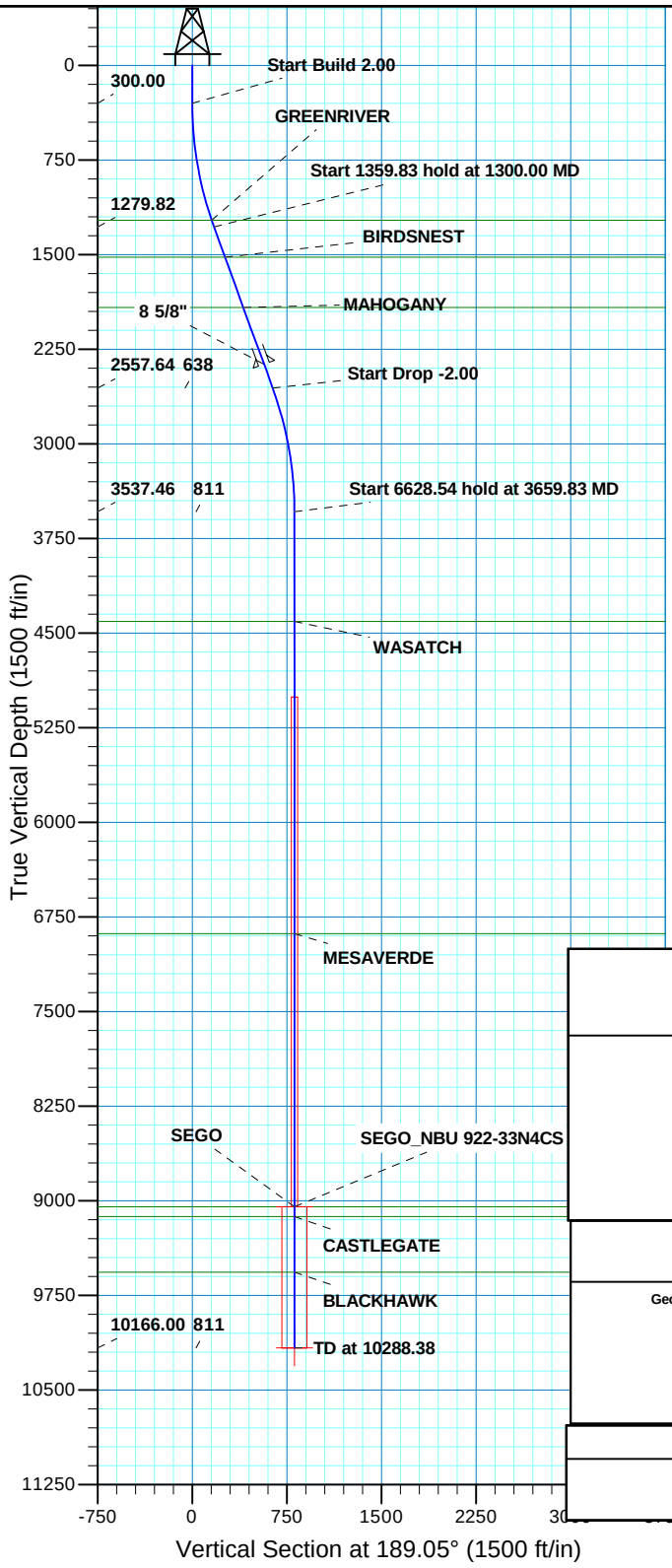
WELL DETAILS: NBU 922-33N4CS

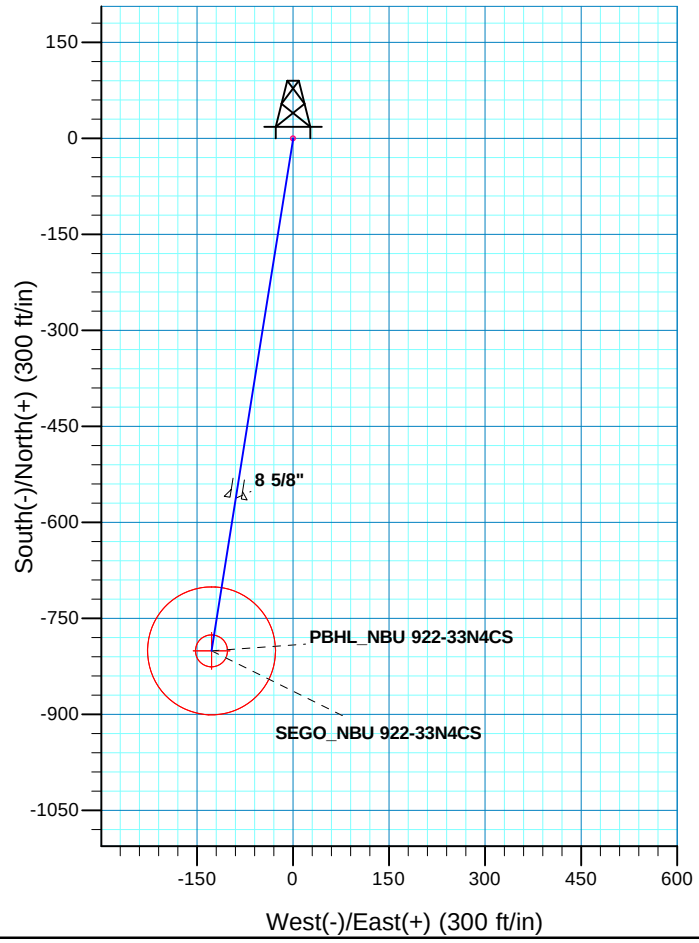
GL 5067 & KB 4 @ 5071.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14525356.06	2075806.73	39.987686	-109.445672

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
SEGO	9047.00	-800.54	-127.48	14524553.42	2075693.22	39.985488	-109.446127	Circle (Radius: 25.00)
- plan hits target center								
PBHL	10166.00	-800.54	-127.48	14524553.42	2075693.22	39.985488	-109.446127	Circle (Radius: 100.00)
- plan hits target center								





SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
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	
1300.00	20.00	189.05	1279.82	-170.62	-27.17	2.00	189.05	172.77	
2659.83	20.00	189.05	2557.64	-629.92	-100.31	0.00	0.00	637.86	
3659.83	0.00	0.00	3537.46	-800.54	-127.48	2.00	180.00	810.63	
10288.38	0.00	0.00	10166.00	-800.54	-127.48	0.00	0.00	810.63	PBHL_NBU 922-33N4CS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 (NADCON CONUS)
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)
Location: SECTION 33 T9S R22E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation	D
1228.00	1245.05	GREENRIVER	
1520.00	1555.60	BIRDSNEST	
1919.00	1980.21	MAHOGANY	
4408.00	4530.38	WASATCH	
6882.00	7004.38	MESAVERDE	
9047.00	9169.38	SEGO	
9125.00	9247.38	CASTLEGATE	
9566.00	9688.38	BLACKHAWK	

CASING DETAILS

TVD	MD	Name	Size
2369.00	2459.09	8 5/8"	8.625

Plan: PLAN #1 PRELIMINARY (NBU 922-33N4CS/OH)

Created By: RobertScott Date: 13:45, November 07 2012

RECEIVED:

API Well Number: 43047534270000

Scientific Drilling

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 922-33N PAD
NBU 922-33N4CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

07 November, 2012

Anadarko Petroleum Corporation

RECEIVED: December 12, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-33N4CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Site:	NBU 922-33N PAD	**North Reference:**	True
Well:	NBU 922-33N4CS	**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 922-33N PAD, SECTION 33 T9S R22E

Site Position:		**Northing:**	14,525,380.77 usft	**Latitude:**	39.987753
From:	Lat/Long	**Easting:**	2,075,824.22 usft	**Longitude:**	-109.445608
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	1.00 °

Well NBU 922-33N4CS, 870 FSL 2255 FWL

Well Position	**+N/-S**	-24.40 ft	**Northing:**	14,525,356.06 usft	**Latitude:**	39.987686
	+E/-W	-17.93 ft	**Easting:**	2,075,806.72 usft	**Longitude:**	-109.445672
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	5,067.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	11/07/12	10.87	65.83	52,190

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	189.05

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	
1,300.00	20.00	189.05	1,279.82	-170.62	-27.17	2.00	2.00	0.00	189.05	
2,659.83	20.00	189.05	2,557.64	-629.92	-100.31	0.00	0.00	0.00	0.00	
3,659.83	0.00	0.00	3,537.46	-800.54	-127.48	2.00	-2.00	0.00	180.00	
10,288.38	0.00	0.00	10,166.00	-800.54	-127.48	0.00	0.00	0.00	0.00	PBHL_NBU 922-33N4

RECEIVED: December 12, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-33N4CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Site:	NBU 922-33N PAD	**North Reference:**	True
Well:	NBU 922-33N4CS	**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
100.00	0.00	0.00	100.00	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
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	189.05	399.98	-1.72	-0.27	1.75	2.00	2.00	0.00
500.00	4.00	189.05	499.84	-6.89	-1.10	6.98	2.00	2.00	0.00
600.00	6.00	189.05	599.45	-15.50	-2.47	15.69	2.00	2.00	0.00
700.00	8.00	189.05	698.70	-27.53	-4.38	27.88	2.00	2.00	0.00
800.00	10.00	189.05	797.47	-42.98	-6.84	43.52	2.00	2.00	0.00
900.00	12.00	189.05	895.62	-61.82	-9.85	62.60	2.00	2.00	0.00
1,000.00	14.00	189.05	993.06	-84.04	-13.38	85.10	2.00	2.00	0.00
1,100.00	16.00	189.05	1,089.64	-109.60	-17.45	110.98	2.00	2.00	0.00
1,200.00	18.00	189.05	1,185.27	-138.47	-22.05	140.21	2.00	2.00	0.00
1,245.05	18.90	189.05	1,228.00	-152.55	-24.29	154.47	2.00	2.00	0.00
GREENRIVER									
1,300.00	20.00	189.05	1,279.82	-170.62	-27.17	172.77	2.00	2.00	0.00
Start 1359.83 hold at 1300.00 MD									
1,400.00	20.00	189.05	1,373.78	-204.39	-32.55	206.97	0.00	0.00	0.00
1,500.00	20.00	189.05	1,467.75	-238.17	-37.93	241.17	0.00	0.00	0.00
1,555.60	20.00	189.05	1,520.00	-256.95	-40.92	260.19	0.00	0.00	0.00
BIRDSNEST									
1,600.00	20.00	189.05	1,561.72	-271.95	-43.31	275.37	0.00	0.00	0.00
1,700.00	20.00	189.05	1,655.69	-305.72	-48.69	309.58	0.00	0.00	0.00
1,800.00	20.00	189.05	1,749.66	-339.50	-54.06	343.78	0.00	0.00	0.00
1,900.00	20.00	189.05	1,843.63	-373.28	-59.44	377.98	0.00	0.00	0.00
1,980.21	20.00	189.05	1,919.00	-400.37	-63.76	405.41	0.00	0.00	0.00
MAHOGANY									
2,000.00	20.00	189.05	1,937.60	-407.05	-64.82	412.18	0.00	0.00	0.00
2,100.00	20.00	189.05	2,031.57	-440.83	-70.20	446.38	0.00	0.00	0.00
2,200.00	20.00	189.05	2,125.54	-474.61	-75.58	480.59	0.00	0.00	0.00
2,300.00	20.00	189.05	2,219.51	-508.38	-80.96	514.79	0.00	0.00	0.00
2,400.00	20.00	189.05	2,313.48	-542.16	-86.34	548.99	0.00	0.00	0.00
2,459.09	20.00	189.05	2,369.00	-562.12	-89.51	569.20	0.00	0.00	0.00
8 5/8"									
2,500.00	20.00	189.05	2,407.45	-575.94	-91.72	583.19	0.00	0.00	0.00
2,600.00	20.00	189.05	2,501.42	-609.71	-97.09	617.39	0.00	0.00	0.00
2,659.83	20.00	189.05	2,557.64	-629.92	-100.31	637.86	0.00	0.00	0.00
Start Drop -2.00									
2,700.00	19.20	189.05	2,595.48	-643.23	-102.43	651.33	2.00	-2.00	0.00
2,800.00	17.20	189.05	2,690.47	-674.06	-107.34	682.56	2.00	-2.00	0.00
2,900.00	15.20	189.05	2,786.50	-701.61	-111.73	710.45	2.00	-2.00	0.00
3,000.00	13.20	189.05	2,883.44	-725.83	-115.59	734.97	2.00	-2.00	0.00
3,100.00	11.20	189.05	2,981.18	-746.69	-118.91	756.10	2.00	-2.00	0.00
3,200.00	9.20	189.05	3,079.60	-764.17	-121.69	773.80	2.00	-2.00	0.00
3,300.00	7.20	189.05	3,178.57	-778.25	-123.93	788.06	2.00	-2.00	0.00
3,400.00	5.20	189.05	3,277.98	-788.91	-125.63	798.85	2.00	-2.00	0.00
3,500.00	3.20	189.05	3,377.71	-796.14	-126.78	806.17	2.00	-2.00	0.00
3,600.00	1.20	189.05	3,477.63	-799.92	-127.38	810.00	2.00	-2.00	0.00
3,659.83	0.00	0.00	3,537.46	-800.54	-127.48	810.63	2.00	-2.00	0.00
Start 6628.54 hold at 3659.83 MD									
3,700.00	0.00	0.00	3,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
3,800.00	0.00	0.00	3,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00

RECEIVED: December 12, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-33N4CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Site:	NBU 922-33N PAD	**North Reference:**	True
Well:	NBU 922-33N4CS	**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)
3,900.00	0.00	0.00	3,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,000.00	0.00	0.00	3,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,100.00	0.00	0.00	3,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,200.00	0.00	0.00	4,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,300.00	0.00	0.00	4,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,400.00	0.00	0.00	4,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,500.00	0.00	0.00	4,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,530.38	0.00	0.00	4,408.00	-800.54	-127.48	810.63	0.00	0.00	0.00
WASATCH									
4,600.00	0.00	0.00	4,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,700.00	0.00	0.00	4,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,800.00	0.00	0.00	4,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00
4,900.00	0.00	0.00	4,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,000.00	0.00	0.00	4,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,100.00	0.00	0.00	4,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,200.00	0.00	0.00	5,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,300.00	0.00	0.00	5,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,400.00	0.00	0.00	5,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,500.00	0.00	0.00	5,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,600.00	0.00	0.00	5,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,700.00	0.00	0.00	5,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,800.00	0.00	0.00	5,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00
5,900.00	0.00	0.00	5,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,000.00	0.00	0.00	5,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,100.00	0.00	0.00	5,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,200.00	0.00	0.00	6,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,300.00	0.00	0.00	6,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,400.00	0.00	0.00	6,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,500.00	0.00	0.00	6,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,600.00	0.00	0.00	6,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,700.00	0.00	0.00	6,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,800.00	0.00	0.00	6,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00
6,900.00	0.00	0.00	6,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,000.00	0.00	0.00	6,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,004.38	0.00	0.00	6,882.00	-800.54	-127.48	810.63	0.00	0.00	0.00
MESAVERDE									
7,100.00	0.00	0.00	6,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,200.00	0.00	0.00	7,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,300.00	0.00	0.00	7,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,400.00	0.00	0.00	7,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,500.00	0.00	0.00	7,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,600.00	0.00	0.00	7,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,700.00	0.00	0.00	7,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,800.00	0.00	0.00	7,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00
7,900.00	0.00	0.00	7,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,000.00	0.00	0.00	7,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,100.00	0.00	0.00	7,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,200.00	0.00	0.00	8,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,300.00	0.00	0.00	8,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,400.00	0.00	0.00	8,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,500.00	0.00	0.00	8,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,600.00	0.00	0.00	8,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,700.00	0.00	0.00	8,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
8,800.00	0.00	0.00	8,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00

RECEIVED: December 12, 2012

Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-33N4CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Site:	NBU 922-33N PAD	**North Reference:**	True
Well:	NBU 922-33N4CS	**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)
8,900.00	0.00	0.00	8,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,000.00	0.00	0.00	8,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,100.00	0.00	0.00	8,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,169.38	0.00	0.00	9,047.00	-800.54	-127.48	810.63	0.00	0.00	0.00
SEGO - SEGO_NBU 922-33N4CS									
9,200.00	0.00	0.00	9,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,247.38	0.00	0.00	9,125.00	-800.54	-127.48	810.63	0.00	0.00	0.00
CASTLEGATE									
9,300.00	0.00	0.00	9,177.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,400.00	0.00	0.00	9,277.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,500.00	0.00	0.00	9,377.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,600.00	0.00	0.00	9,477.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,688.38	0.00	0.00	9,566.00	-800.54	-127.48	810.63	0.00	0.00	0.00
BLACKHAWK									
9,700.00	0.00	0.00	9,577.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,800.00	0.00	0.00	9,677.62	-800.54	-127.48	810.63	0.00	0.00	0.00
9,900.00	0.00	0.00	9,777.62	-800.54	-127.48	810.63	0.00	0.00	0.00
10,000.00	0.00	0.00	9,877.62	-800.54	-127.48	810.63	0.00	0.00	0.00
10,100.00	0.00	0.00	9,977.62	-800.54	-127.48	810.63	0.00	0.00	0.00
10,200.00	0.00	0.00	10,077.62	-800.54	-127.48	810.63	0.00	0.00	0.00
10,288.38	0.00	0.00	10,166.00	-800.54	-127.48	810.63	0.00	0.00	0.00
TD at 10288.38 - PBHL_NBU 922-33N4CS									

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
SEGO_NBU 922-33N4C - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,047.00	-800.54	-127.48	14,524,553.42	2,075,693.22	39.985488	-109.446127
PBHL_NBU 922-33N4C - plan hits target center - Circle (radius 100.00)	0.00	0.00	10,166.00	-800.54	-127.48	14,524,553.42	2,075,693.22	39.985488	-109.446127

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,459.09	2,369.00	8 5/8"	8.625	11.000

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Scientific Drilling

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 922-33N4CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 5067 & KB 4 @ 5071.00ft (ASSUMED)
Site:	NBU 922-33N PAD	**North Reference:**	True
Well:	NBU 922-33N4CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,245.05	1,228.00	GREENRIVER			
1,555.60	1,520.00	BIRDSNEST			
1,980.21	1,919.00	MAHOGANY			
4,530.38	4,408.00	WASATCH			
7,004.38	6,882.00	MESAVERDE			
9,169.38	9,047.00	SEGO			
9,247.38	9,125.00	CASTLEGATE			
9,688.38	9,566.00	BLACKHAWK			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-170.62	-27.17	Start 1359.83 hold at 1300.00 MD
2,659.83	2,557.64	-629.92	-100.31	Start Drop -2.00
3,659.83	3,537.46	-800.54	-127.48	Start 6628.54 hold at 3659.83 MD
10,288.38	10,166.00	-800.54	-127.48	TD at 10288.38

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

NBU 922-33N PAD

API #		NBU 922-33K4BS		
	Surface:	894 FSL / 2273 FWL	SESW	Lot
	BHL:	1905 FSL / 2143 FWL	NESW	Lot
API #		NBU 922-33K4CS		
	Surface:	886 FSL / 2267 FWL	SESW	Lot
	BHL:	1563 FSL / 2141 FWL	NESW	Lot
API #		NBU 922-33N1BS		
	Surface:	878 FSL / 2261 FWL	SESW	Lot
	BHL:	1242 FSL / 2143 FWL	SESW	Lot
API #		NBU 922-33N4BS		
	Surface:	862 FSL / 2249 FWL	SESW	Lot
	BHL:	507 FSL / 2121 FWL	SESW	Lot
API #		NBU 922-33N4CS		
	Surface:	870 FSL / 2255 FWL	SESW	Lot
	BHL:	69 FSL / 2125 FWL	SESW	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 August 16-17, 2012. Present were:

- Dave Gordon, Tyler Cox, Aaron Roe and Brian Barnett - BLM;
- Jessi Brunson - USFWS;
- Bill Knapp - ICF Consulting;
- Jacob Dunham - 609 Consulting;
- Mitch Batty - Timberline Engineering & Land Surveying, Inc.; and
- Gina Becker, Charles Chase, Lindsey Frazier, Doyle Holmes, Randy Townley and Casey McKee- Kerr-McGee

A. Existing Roads:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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 October 31, 2012.

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The following segments are "on-lease"

No new access road is proposed for this location. Please refer to Topo B.

C. Location of Existing Wells:

Please refer to Topo C for exiting 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 October 31, 2012.

This pad will expand the existing pad for the NBU 922-33NT and CIGE 152. The NBU 922-33NT is a producing gas well and the CIGE 152 is a plugged and abandoned well, according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 1, 2012. 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 ±425' and the individual segments are broken up as follows:

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

±410' (0.08 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the meter to the edge of the pad. Please refer to Topo D2 - Pad and Pipeline Detail.

±15' (0.01 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 8" buried gas gathering pipeline from the edge of the pad to tie-in to the existing 16" gas pipeline to the south. Please refer to Exhibit A Gas Gathering- Line 11.

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 ±425' and the individual segments are broken up as follows:

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

±410' (0.08 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, 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.

±15' (0.01 miles) – Section 33 T9S R22E (SE/4 SW/4) – On-lease UTU-01191-A, BLM surface, New 6" buried liquid gathering pipeline from the edge of the pad to tie-in to the existing 6" liquid pipeline to the south. Please refer to Exhibit B Liquid Gathering- Line 11.

Pipeline Gathering Construction

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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The Anadarko Completions Transportation System (ACTS) information:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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 October 31, 2012.

F. Construction Materials:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

G. Methods for Handling Waste:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Materials Management

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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 October 31, 2012.

J. Plans for Surface Reclamation:

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Interim Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Measures Common to Interim and Final Reclamation

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

Weed Control

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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Monitoring

Please refer to the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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 October 31, 2012.

Resource Reports:

A Class I literature survey was completed on September 21, 2012 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC-12-264.

A paleontological reconnaissance survey was completed on August 28, 2012 by SWCA Environmental Consultants. For additional details please refer to report SWCA-UT12-14314-177.

Biological field survey was completed on August 25, 2012 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-838 and 841.

Proposed Action Annual Emissions Tables:

Please refer to the Appendix in the Standard Operating Practices on file at the BLM Vernal Field Office dated October 31, 2012.

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

Gina T. Becker
Senior Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6086

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

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

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

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

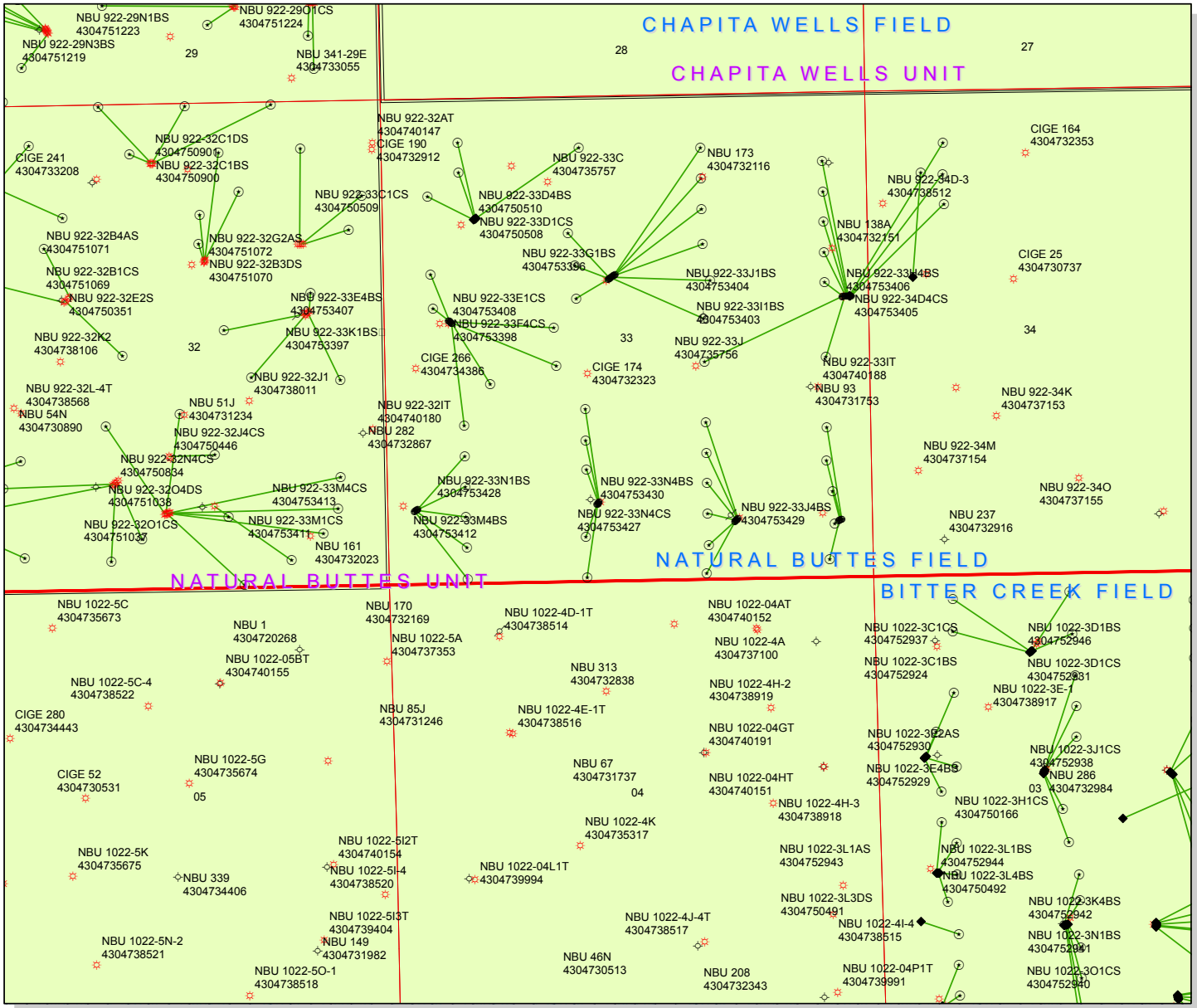
Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Land Management Nationwide Bond WYB000291.

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.

Gina T.Becker

November 5, 2012
Date

API Well Number: 43047534270000



API Number: 4304753427

Well Name: NBU 922-33N4CS

Township T09.0S Range R22.0E Section 33

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units
STATUS
- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Fields
STATUS
- Unknown
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- STORAGE
- TERMINATED

Wells Query
Status
- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well
- Bottom Hole Location - OilGasDb

1,400 700 0 1,400 Feet

1:13,484

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United States Department of the Interior

BUREAU OF LAND MANAGEMENT
Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

December 20, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
NBU 922-33E PAD		
43-047-53386	NBU 922-33L4BS	Sec 33 T09S R22E 2440 FNL 0705 FWL BHL Sec 33 T09S R22E 1740 FSL 0822 FWL
43-047-53391	NBU 922-33L1CS	Sec 33 T09S R22E 2447 FNL 0713 FWL BHL Sec 33 T09S R22E 2194 FSL 1113 FWL
43-047-53397	NBU 922-33K1BS	Sec 33 T09S R22E 2434 FNL 0698 FWL BHL Sec 33 T09S R22E 2383 FSL 1837 FWL
43-047-53398	NBU 922-33F4CS	Sec 33 T09S R22E 2427 FNL 0690 FWL BHL Sec 33 T09S R22E 2513 FNL 1817 FWL
43-047-53407	NBU 922-33E4BS	Sec 33 T09S R22E 2414 FNL 0675 FWL BHL Sec 33 T09S R22E 2278 FNL 0508 FWL
43-047-53408	NBU 922-33E1CS	Sec 33 T09S R22E 2420 FNL 0683 FWL BHL Sec 33 T09S R22E 1904 FNL 0487 FWL
NBU 922-33F PAD		
43-047-53387	NBU 922-33B1CS	Sec 33 T09S R22E 1955 FNL 2480 FWL BHL Sec 33 T09S R22E 0579 FNL 1815 FEL
43-047-53388	NBU 922-33B4BS	Sec 33 T09S R22E 1949 FNL 2488 FWL BHL Sec 33 T09S R22E 0910 FNL 1814 FEL
43-047-53389	NBU 922-33B4CS	Sec 33 T09S R22E 1943 FNL 2497 FWL BHL Sec 33 T09S R22E 1241 FNL 1814 FEL
43-047-53390	NBU 922-33F1BS	Sec 33 T09S R22E 1984 FNL 2439 FWL BHL Sec 33 T09S R22E 1487 FNL 1992 FWL
43-047-53392	NBU 922-33F1CS	Sec 33 T09S R22E 1989 FNL 2431 FWL BHL Sec 33 T09S R22E 1839 FNL 2060 FWL
43-047-53393	NBU 922-33F4BS	Sec 33 T09S R22E 1995 FNL 2423 FWL BHL Sec 33 T09S R22E 2197 FNL 2068 FWL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53394	NBU 922-33G4BS	Sec 33 T09S R22E 1972 FNL 2456 FWL
		BHL Sec 33 T09S R22E 2027 FNL 1738 FEL
43-047-53395	NBU 922-33G4CS	Sec 33 T09S R22E 1978 FNL 2448 FWL
		BHL Sec 33 T09S R22E 2439 FNL 1818 FEL
43-047-53396	NBU 922-33G1BS	Sec 33 T09S R22E 1961 FNL 2472 FWL
		BHL Sec 33 T09S R22E 1628 FNL 1811 FEL
NBU 922-33H PAD		
43-047-53399	NBU 922-33A4BS	Sec 33 T09S R22E 2221 FNL 0235 FEL
		BHL Sec 33 T09S R22E 0745 FNL 0493 FEL
43-047-53400	NBU 922-33A4CS	Sec 33 T09S R22E 2222 FNL 0245 FEL
		BHL Sec 33 T09S R22E 1076 FNL 0493 FEL
43-047-53401	NBU 922-33H1CS	Sec 33 T09S R22E 2223 FNL 0265 FEL
		BHL Sec 33 T09S R22E 1737 FNL 0493 FEL
43-047-53402	NBU 922-33H1BS	Sec 33 T09S R22E 2222 FNL 0255 FEL
		BHL Sec 33 T09S R22E 1406 FNL 0493 FEL
43-047-53403	NBU 922-33I1BS	Sec 33 T09S R22E 2223 FNL 0275 FEL
		BHL Sec 33 T09S R22E 2434 FSL 0490 FEL
43-047-53404	NBU 922-33J1BS	Sec 33 T09S R22E 2225 FNL 0305 FEL
		BHL Sec 33 T09S R22E 2401 FSL 1814 FEL
43-047-53405	NBU 922-34D4CS	Sec 33 T09S R22E 2220 FNL 0205 FEL
		BHL Sec 34 T09S R22E 1233 FNL 0825 FWL
43-047-53406	NBU 922-33H4BS	Sec 33 T09S R22E 2224 FNL 0295 FEL
		BHL Sec 33 T09S R22E 2068 FNL 0493 FEL
NBU 922-33M PAD		
43-047-53409	NBU 922-33L4CS	Sec 33 T09S R22E 0833 FSL 0289 FWL
		BHL Sec 33 T09S R22E 1409 FSL 0822 FWL
43-047-53410	NBU 922-33M1BS	Sec 33 T09S R22E 0837 FSL 0297 FWL
		BHL Sec 33 T09S R22E 1078 FSL 0822 FWL
43-047-53411	NBU 922-33M1CS	Sec 33 T09S R22E 0828 FSL 0280 FWL
		BHL Sec 33 T09S R22E 0746 FSL 0822 FWL
43-047-53412	NBU 922-33M4BS	Sec 33 T09S R22E 0824 FSL 0271 FWL
		BHL Sec 33 T09S R22E 0415 FSL 0822 FWL
43-047-53413	NBU 922-33M4CS	Sec 33 T09S R22E 0819 FSL 0262 FWL
		BHL Sec 33 T09S R22E 0065 FSL 0824 FWL
NBU 922-33N PAD		
43-047-53414	NBU 922-33K4BS	Sec 33 T09S R22E 0894 FSL 2273 FWL
		BHL Sec 33 T09S R22E 1905 FSL 2143 FWL
43-047-53424	NBU 922-33K4CS	Sec 33 T09S R22E 0886 FSL 2267 FWL
		BHL Sec 33 T09S R22E 1563 FSL 2141 FWL
43-047-53427	NBU 922-33N4CS	Sec 33 T09S R22E 0870 FSL 2255 FWL
		BHL Sec 33 T09S R22E 0069 FSL 2125 FWL
43-047-53428	NBU 922-33N1BS	Sec 33 T09S R22E 0878 FSL 2261 FWL
		BHL Sec 33 T09S R22E 1242 FSL 2143 FWL
43-047-53430	NBU 922-33N4BS	Sec 33 T09S R22E 0862 FSL 2249 FWL
		BHL Sec 33 T09S R22E 0507 FSL 2121 FWL
NBU 922-33P PAD		
43-047-53416	NBU 922-33P1CS	Sec 33 T09S R22E 0657 FSL 0372 FEL
		BHL Sec 33 T09S R22E 0972 FSL 0449 FEL

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API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-53417	NBU 922-33P1BS	Sec 33 T09S R22E 0662 FSL 0364 FEL
		BHL Sec 33 T09S R22E 1306 FSL 0507 FEL
43-047-53418	NBU 922-33I4CS	Sec 33 T09S R22E 0667 FSL 0355 FEL
		BHL Sec 33 T09S R22E 1664 FSL 0494 FEL
43-047-53422	NBU 922-33P4CS	Sec 33 T09S R22E 0652 FSL 0381 FEL
		BHL Sec 33 T09S R22E 0229 FSL 0495 FEL
43-047-53423	NBU 922-33P4BS	Sec 33 T09S R22E 0648 FSL 0390 FEL
		BHL Sec 33 T09S R22E 0613 FSL 0431 FEL
NBU 922-33O PAD		
43-047-53419	NBU 922-33O4CS	Sec 33 T09S R22E 0661 FSL 1513 FEL
		BHL Sec 33 T09S R22E 0095 FSL 1837 FEL
43-047-53420	NBU 922-33O4BS	Sec 33 T09S R22E 0654 FSL 1520 FEL
		BHL Sec 33 T09S R22E 0403 FSL 1806 FEL
43-047-53421	NBU 922-33O1CS	Sec 33 T09S R22E 0668 FSL 1506 FEL
		BHL Sec 33 T09S R22E 0746 FSL 1814 FEL
43-047-53425	NBU 922-33O1BS	Sec 33 T09S R22E 0676 FSL 1499 FEL
		BHL Sec 33 T09S R22E 1077 FSL 1814 FEL
43-047-53426	NBU 922-33J4CS	Sec 33 T09S R22E 0683 FSL 1493 FEL
		BHL Sec 33 T09S R22E 1408 FSL 1814 FEL
43-047-53429	NBU 922-33J4BS	Sec 33 T09S R22E 0691 FSL 1486 FEL
		BHL Sec 33 T09S R22E 1739 FSL 1814 FEL
NBU 921-17C PAD		
43-047-53431	NBU 921-17C1CS	Sec 17 T09S R21E 0620 FNL 2019 FWL
		BHL Sec 17 T09S R21E 0413 FNL 2158 FWL
43-047-53432	NBU 921-17C1BS	Sec 17 T09S R21E 0625 FNL 2010 FWL
		BHL Sec 17 T09S R21E 0062 FNL 2158 FWL
NBU 921-17B PAD		
43-047-53433	NBU 921-17B1BS	Sec 17 T09S R21E 0465 FNL 1960 FEL
		BHL Sec 17 T09S R21E 0179 FNL 1835 FEL
43-047-53434	NBU 921-17A1CS	Sec 17 T09S R21E 0463 FNL 1940 FEL
		BHL Sec 17 T09S R21E 0413 FNL 0497 FEL
43-047-53435	NBU 921-17B4BS	Sec 17 T09S R21E 0467 FNL 1970 FEL
		BHL Sec 17 T09S R21E 0909 FNL 1824 FEL
43-047-53436	NBU 921-17A1BS	Sec 17 T09S R21E 0464 FNL 1950 FEL
		BHL Sec 17 T09S R21E 0110 FNL 0497 FEL

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.12.20 13:54:48 -07'00'

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

MCoulthard:mc:12-20-12

RECEIVED: December 20, 2012

API Well Number: 43047534270000

API	Well No	Section	Township	Surface Location
43-047-53386	NBU 922-33L4BS	Sec 33	T09S R22E	2440 FNL 0705 FWL
43-047-53387	NBU 922-33B1CS	Sec 33	T09S R22E	1955 FNL 2480 FWL
43-047-53388	NBU 922-33B4BS	Sec 33	T09S R22E	1949 FNL 2488 FWL
43-047-53389	NBU 922-33B4CS	Sec 33	T09S R22E	1943 FNL 2497 FWL
43-047-53390	NBU 922-33F1BS	Sec 33	T09S R22E	1984 FNL 2439 FWL
43-047-53391	NBU 922-33L1CS	Sec 33	T09S R22E	2447 FNL 0713 FWL
43-047-53392	NBU 922-33F1CS	Sec 33	T09S R22E	1989 FNL 2431 FWL
43-047-53393	NBU 922-33F4BS	Sec 33	T09S R22E	1995 FNL 2423 FWL
43-047-53394	NBU 922-33G4BS	Sec 33	T09S R22E	1972 FNL 2456 FWL
43-047-53395	NBU 922-33G4CS	Sec 33	T09S R22E	1978 FNL 2448 FWL
43-047-53396	NBU 922-33G1BS	Sec 33	T09S R22E	1961 FNL 2472 FWL
43-047-53397	NBU 922-33K1BS	Sec 33	T09S R22E	2434 FNL 0698 FWL
43-047-53398	NBU 922-33F4CS	Sec 33	T09S R22E	2427 FNL 0690 FWL
43-047-53399	NBU 922-33A4BS	Sec 33	T09S R22E	2221 FNL 0235 FEL
43-047-53400	NBU 922-33A4CS	Sec 33	T09S R22E	2222 FNL 0245 FEL
43-047-53401	NBU 922-33H1CS	Sec 33	T09S R22E	2223 FNL 0265 FEL
43-047-53402	NBU 922-33H1BS	Sec 33	T09S R22E	2222 FNL 0255 FEL
43-047-53403	NBU 922-33I1BS	Sec 33	T09S R22E	2223 FNL 0275 FEL
43-047-53404	NBU 922-33J1BS	Sec 33	T09S R22E	2225 FNL 0305 FEL
43-047-53405	NBU 922-34D4CS	Sec 33	T09S R22E	2220 FNL 0205 FEL
43-047-53406	NBU 922-33H4BS	Sec 33	T09S R22E	2224 FNL 0295 FEL
43-047-53407	NBU 922-33E4BS	Sec 33	T09S R22E	2414 FNL 0675 FWL
43-047-53408	NBU 922-33E1CS	Sec 33	T09S R22E	2420 FNL 0683 FWL
43-047-53409	NBU 922-33L4CS	Sec 33	T09S R22E	0833 FSL 0289 FWL
43-047-53410	NBU 922-33M1BS	Sec 33	T09S R22E	0837 FSL 0297 FWL
43-047-53411	NBU 922-33M1CS	Sec 33	T09S R22E	0828 FSL 0280 FWL
43-047-53412	NBU 922-33M4BS	Sec 33	T09S R22E	0824 FSL 0271 FWL
43-047-53413	NBU 922-33M4CS	Sec 33	T09S R22E	0819 FSL 0262 FWL
43-047-53414	NBU 922-33K4BS	Sec 33	T09S R22E	0894 FSL 2273 FWL
43-047-53416	NBU 922-33P1CS	Sec 33	T09S R22E	0657 FSL 0372 FEL
43-047-53417	NBU 922-33P1BS	Sec 33	T09S R22E	0662 FSL 0364 FEL
43-047-53418	NBU 922-33I4CS	Sec 33	T09S R22E	0667 FSL 0355 FEL
43-047-53419	NBU 922-33O4CS	Sec 33	T09S R22E	0661 FSL 1513 FEL
43-047-53420	NBU 922-33O4BS	Sec 33	T09S R22E	0654 FSL 1520 FEL
43-047-53421	NBU 922-33O1CS	Sec 33	T09S R22E	0668 FSL 1506 FEL
43-047-53422	NBU 922-33P4CS	Sec 33	T09S R22E	0652 FSL 0381 FEL
43-047-53423	NBU 922-33P4BS	Sec 33	T09S R22E	0648 FSL 0390 FEL
43-047-53424	NBU 922-33K4CS	Sec 33	T09S R22E	0886 FSL 2267 FWL
43-047-53425	NBU 922-33O1BS	Sec 33	T09S R22E	0676 FSL 1499 FEL
43-047-53426	NBU 922-33J4CS	Sec 33	T09S R22E	0683 FSL 1493 FEL
43-047-53427	NBU 922-33N4CS	Sec 33	T09S R22E	0870 FSL 2255 FWL
43-047-53428	NBU 922-33N1BS	Sec 33	T09S R22E	0878 FSL 2261 FWL
43-047-53429	NBU 922-33J4BS	Sec 33	T09S R22E	0691 FSL 1486 FEL
43-047-53430	NBU 922-33N4BS	Sec 33	T09S R22E	0862 FSL 2249 FWL
43-047-53431	NBU 921-17C1CS	Sec 17	T09S R21E	0620 FNL 2019 FWL
43-047-53432	NBU 921-17C1BS	Sec 17	T09S R21E	0625 FNL 2010 FWL
43-047-53433	NBU 921-17B1BS	Sec 17	T09S R21E	0465 FNL 1960 FEL
43-047-53434	NBU 921-17A1CS	Sec 17	T09S R21E	0463 FNL 1940 FEL
43-047-53435	NBU 921-17B4BS	Sec 17	T09S R21E	0467 FNL 1970 FEL
43-047-53436	NBU 921-17A1BS	Sec 17	T09S R21E	0464 FNL 1950 FEL

RECEIVED: December 20, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 12/14/2012
API NO. ASSIGNED: 43047534270000
WELL NAME: NBU 922-33N4CS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)
PHONE NUMBER: 720 929-6086
CONTACT: Gina Becker

PROPOSED LOCATION: SESW 33 090S 220E
Permit Tech Review: ✔

SURFACE: 0870 FSL 2255 FWL
Engineering Review: ✔

BOTTOM: 0069 FSL 2125 FWL
Geology Review: ✔

COUNTY: UINTAH
LATITUDE: 39.98759
LONGITUDE: -109.44625
UTM SURF EASTINGS: 632655.00
NORTHINGS: 4427535.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU-01191-A
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

RECEIVED: December 27, 2012

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 922-33N4CS
API Well Number: 43047534270000
Lease Number: UTU-01191-A
Surface Owner: FEDERAL
Approval Date: 12/27/2012

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

Form 3160-3
(August 2007)

RECEIVED
NOV 1 5 2012
BLM

FORM APPROVED
OMB No. 1004-0136
Expires July 31, 2010

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU01191A

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
891008900A

1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☒ Single Zone ☐ Multiple Zone

8. Lease Name and Well No.
NBU 922-33N4CS

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE LL
Contact: CARA MAHLER
Email: cara.mahler@anadarko.com

9. API Well No.
43-047-53427

3a. Address
1368 SOUTH 1200 EAST
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 720-929-6029
Fx: 720-929-7029

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well (*Report location clearly and in accordance with any State requirements.**)

At surface SESW 870FSL 2255FWL 39.987652 N Lat, 109.446355 W Lon

At proposed prod. zone SESW 69FSL 2125FWL 39.985454 N Lat, 109.446811 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 33 T9S R22E Mer SLB
SME: BLM

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 51 MILES SOUTH OF VERNAL

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
513

16. No. of Acres in Lease
1363.21

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
817

19. Proposed Depth
10288 MD
10166 TVD

20. BLM/BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.
5067 GL

22. Approximate date work will start
05/01/2012

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:

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

25. Signature
(Electronic Submission)

Name (Printed/Typed)
CARA MAHLER Ph: 720-929-6029

Date
11/15/2012

Title
REGULATORY ANALYST

Approved by (Signature)

Name (Printed/Typed)
Jerry Kenczka

Date
MAY 2 9 2013

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.

Additional Operator Remarks (see next page)

RECEIVED
JUN 0 3 2013
DIV. OF OIL, GAS & MINING

Electronic Submission #160409 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 11/17/2012 (13JM0105AE)

NOTICE OF APPROVAL

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

D

NOS 7/24/12

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:**	**SESW, Sec. 33, T9S, R22E**
Well No:	**NBU 922-33N4CS**	**Lease No:**	**UTU-01191A**
API No:	**43-047-53427**	**Agreement:**	**Natural Butte**

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)

- 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 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.

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.

- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

- Mitigation measures can be found in Appendix B, Table B-2, of the GNB ROD (BLM 2012b) under the following sections of the table:
    - Air Quality
    - Soils
    - Vegetation: *Sclerocactus wetlandicus*
    - Wildlife: Colorado River Fish

- All vehicles and equipment shall be cleaned either through power-washing, or other approved method, if the vehicles or equipment were previously operated outside the Uinta Basin, to prevent weed seed introduction.

- All disturbance areas shall be monitored for noxious weeds annually, for a minimum of three growing seasons following completion of project or until desirable vegetation is established

- Noxious and invasive weeds will be controlled throughout the area of project disturbance.

- Noxious weeds will be inventoried and reported to BLM in the annual reclamation report. Where an integrated pest management program is applicable, coordination has been undertaken with the state and local management program (if existing). A copy of the pest management plan will be submitted for each project.

- A pesticide use permit (PUP) will be obtained for the project, if applicable.

- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 3/1 through 8/15, pending the results of a preconstruction nest occupancy survey for Red-Tailed Hawk Nest (BLM 2012b; BLM 2008a).

- Construction and development activities for Well Pads 922-33M, 922-33N, and 922-33E will be prohibited from 4/1 through 8/31, pending the results of a preconstruction nest occupancy survey for Prairie Falcon Nest (BLM 2012b; BLM 2008a).

- Damage to livestock and livestock facilities would be reported as quickly as possible to the BLM and affected livestock operators. Operators would develop and employ prevention measures to

avoid damaging fences, gates, and cattle guards, including upgrading cattle guard 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 would be braced and tied off per the BLM guidance. Where the fence is crossed by a road, the fence would be braced and a cattle guard and gate installed per BLM guidance.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Cement for the 4.5 inch casing shall be brought up to a minimum of 200 feet above the surface casing shoe.
- A CBL shall be run from TD to TOC in the Production Casing.
- Variances shall be granted as requested in Section 9 of the Drilling Program of the SOP.

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.

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-33N4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047534270000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6515 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0870 FSL 2255 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT — Approximate date work will start: 12/27/2013
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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: October 24, 2013

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Teena Paulo	720 929-6236	Staff Regulatory Specialist

SIGNATURE	DATE
N/A	10/18/2013

RECEIVED: Oct. 18, 2013

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 43047534270000

API: 43047534270000
Well Name: NBU 922-33N4CS
Location: 0870 FSL 2255 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 12/27/2012

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: Teena Paulo **Date:** 10/18/2013
Title: Staff Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Oct. 18, 2013

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-33N4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047534270000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6100 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0870 FSL 2255 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT — Approximate date work will start: 11/19/2014
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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
November 25, 2014
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Kay E. Kelly	720 929 6582	Regulatory Analyst
SIGNATURE N/A		**DATE** 11/19/2014

RECEIVED: Nov. 19, 2014

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 43047534270000

API: 43047534270000
Well Name: NBU 922-33N4CS
Location: 0870 FSL 2255 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 12/27/2012

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: Kay E. Kelly **Date:** 11/19/2014
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Nov. 19, 2014

Form 3160-5
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

RECEIVED
APR 02 2015
BLM

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

5. Lease Serial No.
UTU01191A

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
891008900A

1. Type of Well
☐ Oil Well ☒ Gas Well ☐ Other

8. Well Name and No.
NBU 922-33N4CS

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE L
Contact: JOEL MALEFYT
EMail: joel.malefyt@anadarko.com

9. API Well No.
43-047-53427-00-X1

3a. Address
1368 SOUTH 1200 EAST
VERNAL, UT 84078

3b. Phone No. (include area code)
Ph: 720-929-6828
Fx: 720-929-7828

10. Field and Pool, or Exploratory
NATURAL BUTTES

4. Location of Well *(Footage, Sec., T., R., M., or Survey Description)*
Sec 33 T9S R22E SESW 870FSL 2255FWL
39.987652 N Lat, 109.446355 W Lon

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
☒ Notice of Intent	☐ Acidize	☐ Deepen	☐ Production (Start/Resume)	☐ Water Shut-Off
☐ Subsequent Report	☐ Alter Casing	☐ Fracture Treat	☐ Reclamation	☐ Well Integrity
☐ Final Abandonment Notice	☐ Casing Repair	☐ New Construction	☐ Recomplete	☒ Other Change to Original APD
	☐ Change Plans	☐ Plug and Abandon	☐ Temporarily Abandon	
	☐ Convert to Injection	☐ Plug Back	☐ Water Disposal	

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

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.

APD - 5/29/13
NEPA - 2013-74 EA

RECEIVED
APR 20 2015
DIV. OF OIL, GAS & MINING

VERNAL FIELD OFFICE
ENG. RHH 4/7/15
GEOL.
E.S.
PET.
RECL.

CONDITIONS OF APPROVAL ATTACHED

14. I hereby certify that the foregoing is true and correct.
Electronic Submission #297041 verified by the BLM Well Information System
For KERR MCGEE OIL & GAS ONSHORE L, sent to the Vernal
Committed to AFMSS for processing by JOHNETTA MAGEE on 04/06/2015 (15JM1495SE)

Name *(Printed/Typed)* JOEL MALEFYT — Title REGULATORY ANALYST

Signature (Electronic Submission) — Date 04/02/2015

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By — Title Assistant Field Manager Lands & Mineral Resources — Date APR 10 2015

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

Office VERNAL FIELD OFFICE

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.

**** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ** BLM REVISED ****

UDOGM

Revisions to Operator-Submitted EC Data for Sundry Notice #297041

	Operator Submitted	BLM Revised (AFMSS)
Sundry Type:	OTHER NOI	APDCH NOI
Lease:	UTU01191A	UTU01191A
Agreement:	UTU63047A	891008900A (UTU63047A)
Operator:	KERR MCGEE OIL & GAS LP PO BOX 173779 DENVER, CO 80202-3779 Ph: 720-929-6000	KERR MCGEE OIL & GAS ONSHORE L 1368 SOUTH 1200 EAST VERNAL, UT 84078 Ph: 435.789.3995
Admin Contact:	JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM Ph: 720-929-6828 Fx: 720-929-7828	JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com Ph: 720-929-6828 Fx: 720-929-7828
Tech Contact:	JOEL MALEFYT REGULATORY ANALYST E-Mail: JOEL.MALEFYT@ANADARKO.COM Ph: 720-929-6828 Fx: 720-929-7828	JOEL MALEFYT REGULATORY ANALYST E-Mail: joel.malefyt@anadarko.com Ph: 720-929-6828 Fx: 720-929-7828
Location:		
State:	UT	UT
County:	UINTAH	UINTAH
Field/Pool:	NATURAL BUTTES	NATURAL BUTTES
Well/Facility:	NBU 922-33N4CS Sec 33 T9S R22E	NBU 922-33N4CS Sec 33 T9S R22E SESW 870FSL 2255FWL 39.987652 N Lat, 109.446355 W Lon

CONDITIONS OF APPROVAL

Kerr McGee Oil and Gas Onshore LP.

Notice of Intent
APD Extension

Lease: UTU-01191A
Well: NBU 922-33N4CS
Location: SESW Sec 33-T9S-R22E

An extension for the referenced APD is granted with the following conditions:

---

1. The extension and APD shall expire on 05/29/2017.

2. No other extension shall be granted.

If you have any other questions concerning this matter, please contact Robin L Hansen of this office at (435) 781-2777

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-33N4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047534270000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779
PHONE NUMBER: 720 929-6507 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0870 FSL 2255 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
✓ NOTICE OF INTENT Approximate date work will start: 12/4/2015	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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
December 07, 2015
Utah Division of
Oil, Gas and Mining

Date:

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jennifer Thomas	720 929-6808	Regulatory Specialist
SIGNATURE N/A		**DATE** 12/4/2015

RECEIVED: Dec. 04, 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 43047534270000

API: 43047534270000
Well Name: NBU 922-33N4CS
Location: 0870 FSL 2255 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 12/27/2012

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:** 12/4/2015
Title: Regulatory Specialist **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Dec. 04, 2015

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU-01191-A

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.

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 922-33N4CS

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.

9. API NUMBER: 43047534270000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779

PHONE NUMBER: 720 929-6404 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0870 FSL 2255 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW Section: 33 Township: 09.0S Range: 22.0E Meridian: S

COUNTY: UINTAH

STATE: UTAH

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

TYPE OF SUBMISSION

- ✓ NOTICE OF INTENT — Approximate date work will start: 11/3/2016
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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
November 08, 2016
Date:
By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Candice Barber	435 781-9749	HSE Representative

SIGNATURE	DATE
N/A	11/3/2016

RECEIVED: Nov. 03, 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 43047534270000

API: 43047534270000
Well Name: NBU 922-33N4CS
Location: 0870 FSL 2255 FWL QTR SESW SEC 33 TWNP 090S RNG 220E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 12/27/2012

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: Candice Barber **Date:** 11/3/2016
Title: HSE Representative **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED: Nov. 03, 2016