API Well Number: 43047525560000

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

FORM 3

AMENDED REPORT ☐

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
NBU 921-22B1CS

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 010950-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')
Ute Indian Tribe

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	950 FNL 1841 FEL	NWNE	22	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	579 FNL 1819 FEL	NWNE	22	9.0 S	21.0 E	S
At Total Depth	579 FNL 1819 FEL	NWNE	22	9.0 S	21.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
766

23. NUMBER OF ACRES IN DRILLING UNIT
800

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
406

26. PROPOSED DEPTH
MD: 11149 TVD: 11125

27. ELEVATION - GROUND LEVEL
4816

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 - 2850	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 - 11149	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength	350	3.38	12.0
							50/50 Poz	1590	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 Laura Abrams | **TITLE** Regulatory Analyst II | **PHONE** 720 929-6356

SIGNATURE | **DATE** 04/26/2012 | **EMAIL** Laura.Abrams@anadarko.com

API NUMBER ASSIGNED
43047525560000

APPROVAL

Permit Manager

RECEIVED: May 30, 2012

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

NBU 921-22B1CS

Surface: 950 FNL / 1841 FEL NWNE
BHL: 579 FNL / 1819 FEL NWNE

Section 22 T9S R21E

Unitah County, Utah
Mineral Lease: UTU 010950-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	1,549'	
Birds Nest	1,900'	Water
Mahogany	2,401'	Water
Wasatch	4,934'	Gas
Mesaverde	7,866'	Gas
Sego	10,081'	Gas
Castlegate	10,129'	Gas
MN5	10,525'	Gas
TVD =	11,125'	
TD =	11,149'	

2.c Kerr McGee Oil & Gas Onshore LP (Kerr McGee) will either drill to the the Blackhawk formation, which is part of the Mesaverde formation, or the Wasatch/Mesaverde formation. If Kerr McGee drills to the Blackhawk formation (part of the Mesaverde formation), please refer to MN5 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 the Wasatch/Mesaverde formation please refer to Sego as the bottom formation. The attached Wasatch/Mesaverde Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the depths the Wasatch/Mesaverde formations are found.

RECEIVED: April 20, 2012

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

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

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 Formation) Target Formation

Maximum anticipated bottom hole pressure calculated at 11125' TVD, approximately equals 7,343 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,946 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/Mesaverde Target Formation

Maximum anticipated bottom hole pressure calculated at 10081' TVD, approximately equals 6,452 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,220 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 attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program
Onshore Order #2 – Air Drilling Variance

Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests a variance to several requirements associated with air drilling outlined in Onshore Order 2

- Blowout Prevention Equipment (BOPE) requirements;
- Mud program requirements; and
- Special drilling operation (surface equipment placement) requirements associated with air drilling.

RECEIVED: April 20, 2012

This Standard Operating Practices addendum provides supporting information as to why KMG current air drilling practices for constructing the surface casing hole should be granted a variance to Onshore Order 2 air drilling requirements.

The reader should note that the air rig is used only to construct a stable surface casing hole through a historically difficult lost circulation zone. A conventional rotary rig follows the air rig, and is used to drill and construct the majority of the wellbore.

More notable, KMG has used the air rig layout and procedures outlined below to drill the surface casing hole in approximately 675 wells without incident of blow out or loss of life.

Background
In a typical well, KMG utilizes an air rig for drilling the surface casing hole, an interval from the surface to surface casing depths, which varies in depth from 1,700 to 2,800 feet. The air rig drilling operation does not drill through productive or over pressured formations in KMG field, but does penetrate the Uinta and Green River Formations. The purpose of the air drilling operation is to overcome the severe loss circulation zone in the Green River known as the Bird's Nest while creating a stable hole for the surface casing. The surface casing hole is generally drilled to approximately 500 feet below the Bird's Nest.

Before the surface air rig is mobilized, a rathole rig is utilized to set and cement conductor pipe through a competent surface formation. Generally, the conductor is set at 40 feet. In some cases, conductor may be set deeper in areas that the surface formation is not found competent. This rig also drills the rat and mouse holes in preparation for the surface casing and production string drilling operations.

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

KMG fully appreciates Onshore Order 2 well control and safety requirements associated with a typical air drilling operations. However, the requirements of Onshore Order 2 are excessive with respect to the air rig layout and drilling operation procedures that are currently in practice to drill and control the surface casing hole in KMG Fields.

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

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

Variance for Special Drilling Operation (surface equipment placement) Requirements
Onshore Order 2 requires specific safety distances or setbacks for the placement of associated standard air drilling equipment, wellbore, and reserve pits. The air rigs used to drill the surface holes are not typical of an air rig used to drill a producing hole in other parts of the US. These are smaller in nature and designed to fit a KMG location. The typical air rig layout for drilling surface hole in the field is attached.

RECEIVED: April 20, 2012

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

Typically the air rig compressors are required to be located in the opposite direction from the blooie line and a minimum of 100 feet from the well bore. At the KMG locations, the air rig compressors are approximately 40 feet from the well bore and approximately 60 feet from the blooie line discharge due to the unique air rig design. The air compressors (see attachment) are located on the rig (1250 cfm) and on a standby trailer (1170 cfm). A booster sits between the two compressors and boosts the output from 350 psi to 2000 psi. The design does put the booster and standby compressor opposite from the blooie line.

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

Variance for FIT Requirements
KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion
The air rig operating procedures and the attached air rig layout have effectively maintained well control while drilling the surface holes in KMG Fields. KMG respectfully requests a variance from Onshore Order 2 with respect to air drilling well control requirements as discussed above.

10. Other Information:

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

RECEIVED: April 20, 2012

API Well Number: 43047525560000

NBU 921-22B Pad

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP

BLACKHAWK DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	January 3, 2012
WELL NAME	**NBU 921-22B1CS**	TD	11,125' TVD 11,149' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah FINISHED ELEVATION 4,816'
SURFACE LOCATION	NWNE 950 FNL 1841 FEL	Sec 22 T 9S R 21E	
	Latitude: 40.026211	Longitude: -109.535004	NAD 83
BTM HOLE LOCATION	NWNE 579 FNL 1819 FEL	Sec 22 T 9S R 21E	
	Latitude: 40.027230	Longitude: -109.534929	NAD 83
OBJECTIVE ZONE(S)	BLACKHAWK		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), Ute Indian Tribe (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 8.3-13.0 ppg

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

Green River @ 1,549'
Top of Birds Nest @ 1,900'
Mahogany @ 2,401'

Preset f/ GL @ 2,850' 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 @ 4,934'

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

Mesaverde @ 7,866' TVD

Sego @ 10,081' TVD

Castlegate @ 10,129' TVD

MN5 @ 10,525' TVD

Max anticipated Mud required 13.0 ppg

TD @ 11,125' TVD 11,149' MD

RECEIVED: April 20, 2012

API Well Number: 43047525560000

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	2,850	28.00	IJ-55	LTC	1.89	1.41	4.98	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	1.15		3.54
	4-1/2"	5,000	to	11,149'	11.60	HCP-110	LTC	1.19	1.15	4.88	

Surface Casing:

(Burst Assumptions: TD = 13.0 ppg) 0.73 psi/ft = frac gradient @ surface shoe

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

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

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 9000 psi) 0.66 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	2,350'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	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	4,429'	Premium Lite II +0.25 pps	350	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,720'	50/50 Poz/G + 10% salt + 2% gel	1,590	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.

DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: April 20, 2012

KerrMcGee

KERR-McGEE OIL & GAS ONSHORE LP
WASATCH/MESAVERDE DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	January 3, 2012
WELL NAME	**NBU 921-22B1CS**	TD	10,081' TVD 10,105' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah FINISHED ELEVATION 4,816'
SURFACE LOCATION	NWNE 950 FNL 1841 FEL	Sec 22 T 9S R 21E	
	Latitude: 40.026211	Longitude: -109.535004	NAD 83
BTM HOLE LOCATION	NWNE 579 FNL 1819 FEL	Sec 22 T 9S R 21E	
	Latitude: 40.027230	Longitude: -109.534929	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), Ute Indian Tribe (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# I-80/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 @ 1,549'
Top of Birds Nest @ 1,900'
Mahogany @ 2,401'

Preset f/ GL @ 2,850' 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 @ 4,934'

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

Mesaverde @ 7,866' TVD

Sego 10,081' TVD

Max anticipated Mud required 12.5 ppg

TD @ 10,081' TVD 10,105' MD

RECEIVED: April 20, 2012

NBU 921-22B Pad

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	2,850	28.00	IJ-55	LTC	1.89	1.41	4.98	N/A
								7,780	6,350		267,035
PRODUCTION	4-1/2"	0	to	5,000	11.60	I-80	DQX	1.11	0.97		2.82
								10,690	8,650	223,000	
	4-1/2"	5,000	to	10,105'	11.60	HCP-110	LTC	1.53	1.32	4.65	

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 @ 7000 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	2,350'	65/35 Poz + 6% Gel + 10 pps gilsonite	220	35%	11.00		3.82
			+ 0.25 pps Flocele + 3% salt BWOW					
	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	4,425'	Premium Lite II +0.25 pps	350	35%	12.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,680'	50/50 Poz/G + 10% salt + 2% gel	1,340	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.

DRILLING ENGINEER: _____ **DATE:** _____

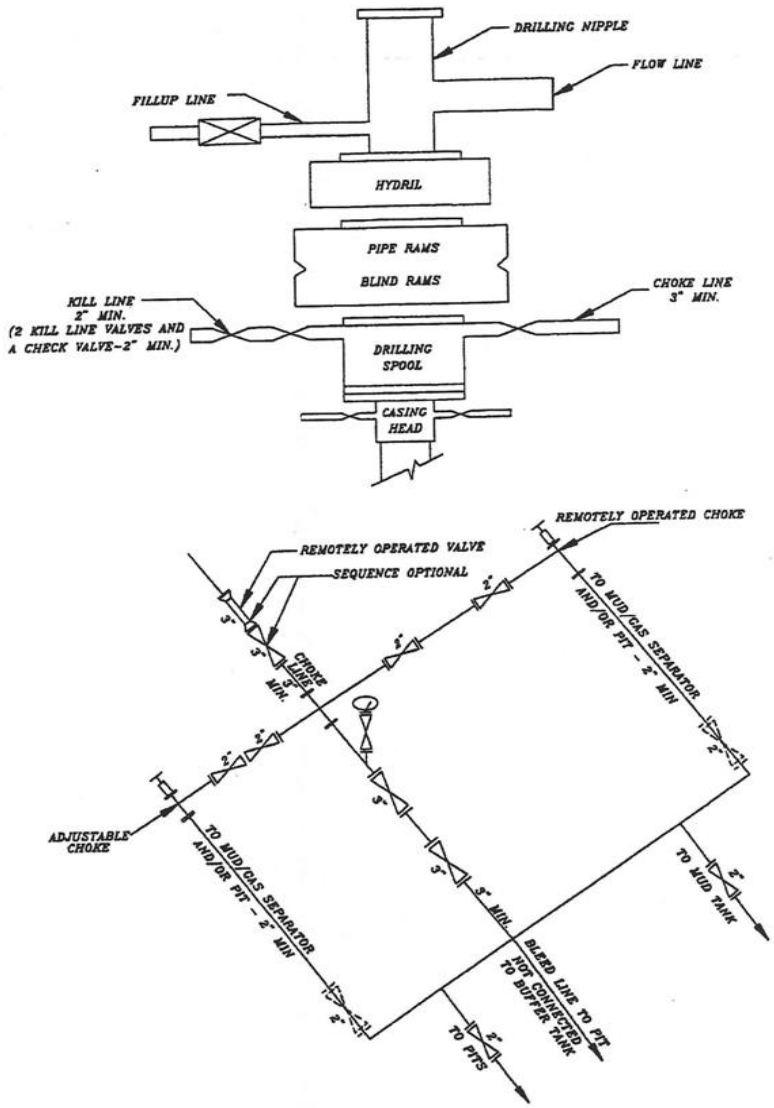
Nick Spence / Danny Showers / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

RECEIVED: April 20, 2012

EXHIBIT A
NBU 921-22B1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

RECEIVED: April 20, 2012

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

N89°38.3'W - 40.044 (G.L.O.)
N89°35'05"W - 2642.95' (Meas.)

S89°50.6'W - 40.012 (G.L.O.)
N89°53'07"E - 2640.74' (Meas.)

Found 2006 Aluminum Cap in Pile of Stones.

Found 2006 Aluminum Cap Near Fence Post

Found 2006 Aluminum Cap with Stone

Bottom of Hole

950'

579'

1819'

1841'

Well Surface Position

N0°00.1'W - 40.094 (G.L.O.)
N00°03'12"E - 2646.31' (Meas.)

N00°07'07"W (Basis of Bearings)
2651.43' (Measured)
N0°09.5'W - 40.173(G.L.O.)

WELL LOCATION:
NBU 921-22B1CS

ELEV. UNGRADED GROUND = 4813.6'

Found 2006 Aluminum Cap in Pile of Stones

22

Found 2006 Aluminum Cap in Pile of Stones

NBU 921-22B1CS (Surface Position)
NAD 83 LATITUDE = 40.026211° (40° 01' 34.361")
LONGITUDE = 109.535004° (109° 32' 06.016")
NAD 27 LATITUDE = 40.026247° (40° 01' 34.488")
LONGITUDE = 109.534316° (109° 32' 03.539")

NBU 921-22B1CS (Bottom Hole)
NAD 83 LATITUDE = 40.027230° (40° 01' 38.028")
LONGITUDE = 109.534929° (109° 32' 05.745")
NAD 27 LATITUDE = 40.027265° (40° 01' 38.155")
LONGITUDE = 109.534241° (109° 32' 03.268")

N0°19.9'E - 40.067 (G.L.O.)
N00°23'09"E - 2644.33' (Meas.)

N00°03'36"E - 2646.34' (Meas.)
N0°01.1'E - 40.094(G.L.O.)

Found 2006 Aluminum Cap in Pile of Stones Under E/W Fence

Found 2006 Aluminum Cap in Pile of Stones, near E/W Fence

N89°43'14"W - 2636.24' (Meas.)
N89°46.5'W - 39.942 (G.L.O.)

Found 2006 Aluminum Cap with Stone Under E/W Fence

N89°49'27"W - 2670.41' (Meas.)
N89°52.1'W - 40.461 (G.L.O.)

1000' 500' 0' 1000'

SCALE

N

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 N03°17'54"E 371.75' 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'.

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.

9-14-11

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R. BLAUER 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 921-22B

NBU 921-22B1CS
WELL PLAT
579' FNL, 1819' FEL (Bottom Hole)
NW $\frac{1}{4}$ NE $\frac{1}{4}$ OF SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 7-19-11	SURVEYED BY: D.J.S.	SHEET NO:
DATE DRAWN: 8-29-11	DRAWN BY: C.T.C.	4
SCALE: 1" = 1000'	Date Last Revised:	4 OF 18

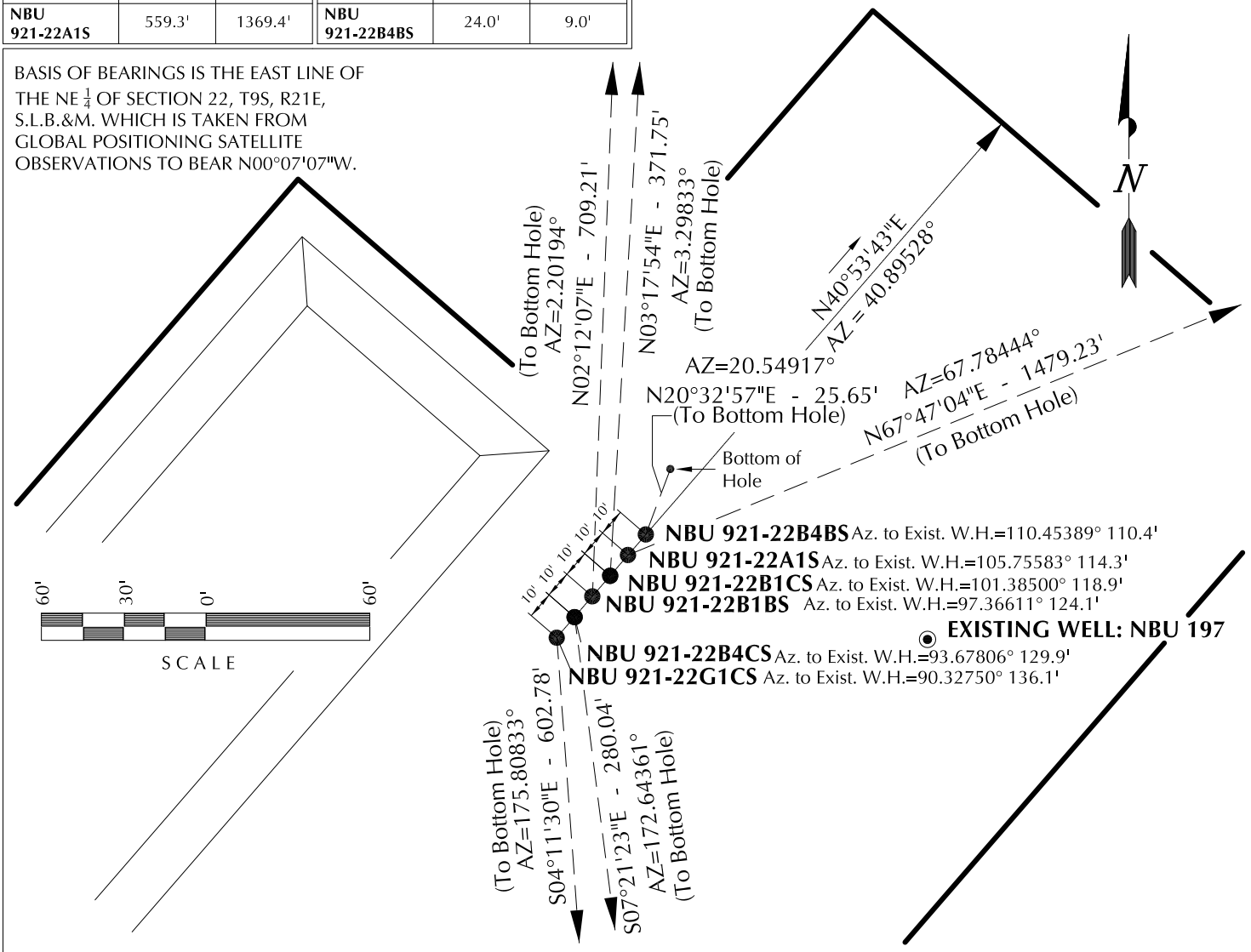
API Well Number: 43047525560000

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 921-22G1CS	40°01'34.136" 40.026149°	109°32'06.268" 109.535074°	40°01'34.263" 40.026184°	109°32'03.790" 109.534386°	973' FNL 1861' FEL	40°01'28.197" 40.024499°	109°32'05.695" 109.534915°	40°01'28.324" 40.024534°	109°32'03.218" 109.534227°	1574' FNL 1818' FEL
NBU 921-22B4CS	40°01'34.211" 40.026170°	109°32'06.184" 109.535051°	40°01'34.338" 40.026205°	109°32'03.707" 109.534363°	965' FNL 1854' FEL	40°01'31.467" 40.025408°	109°32'05.720" 109.534922°	40°01'31.594" 40.025443°	109°32'03.243" 109.534234°	1243' FNL 1819' FEL
NBU 921-22B1BS	40°01'34.286" 40.026191°	109°32'06.100" 109.535028°	40°01'34.413" 40.026226°	109°32'03.623" 109.534340°	958' FNL 1848' FEL	40°01'41.288" 40.028136°	109°32'05.757" 109.534933°	40°01'41.415" 40.028171°	109°32'03.280" 109.534244°	249' FNL 1819' FEL
NBU 921-22B1CS	40°01'34.361" 40.026211°	109°32'06.016" 109.535004°	40°01'34.488" 40.026247°	109°32'03.539" 109.534316°	950' FNL 1841' FEL	40°01'38.028" 40.027230°	109°32'05.745" 109.534929°	40°01'38.155" 40.027265°	109°32'03.268" 109.534241°	579' FNL 1819' FEL
NBU 921-22A1S	40°01'34.435" 40.026232°	109°32'05.932" 109.534981°	40°01'34.562" 40.026267°	109°32'03.454" 109.534293°	943' FNL 1835' FEL	40°01'39.971" 40.027770°	109°31'48.338" 109.530094°	40°01'40.099" 40.027805°	109°31'45.861" 109.529406°	386' FNL 464' FEL
NBU 921-22B4BS	40°01'34.510" 40.026253°	109°32'05.848" 109.534958°	40°01'34.637" 40.026288°	109°32'03.371" 109.534270°	935' FNL 1828' FEL	40°01'34.747" 40.026319°	109°32'05.733" 109.534926°	40°01'34.874" 40.026354°	109°32'03.255" 109.534238°	911' FNL 1819' FEL
NBU 197	40°01'34.130" 40.026147°	109°32'04.518" 109.534588°	40°01'34.257" 40.026182°	109°32'02.041" 109.533900°	974' FNL 1725' FEL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-22G1CS	-601.2'	44.1'	NBU 921-22B4CS	-277.7'	35.9'	NBU 921-22B1BS	708.7'	27.2'	NBU 921-22B1CS	371.1'	21.4'
WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST						
NBU 921-22A1S	559.3'	1369.4'	NBU 921-22B4BS	24.0'	9.0'						

BASIS OF BEARINGS IS THE EAST LINE OF THE NE $\frac{1}{4}$ OF SECTION 22, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°07'07"W.



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

WELL PAD - NBU 921-22B

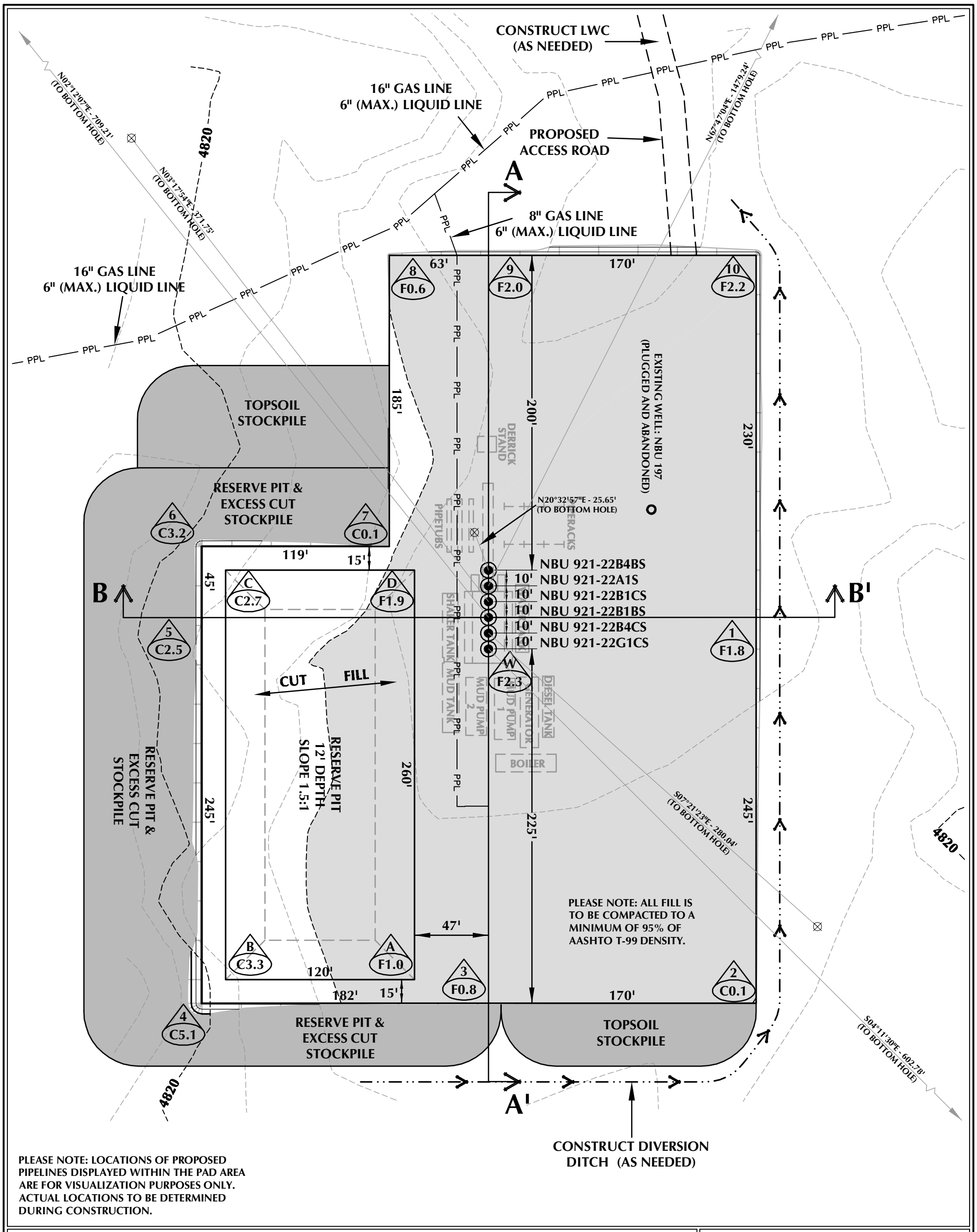
WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 7-19-11	SURVEYED BY: D.J.S.	SHEET NO: 7
DATE DRAWN: 8-29-11	DRAWN BY: C.T.C.	
SCALE: 1" = 60'	Date Last Revised: 12-01-11 J.G.C.	7 OF 18

RECEIVED: April 20, 2012



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

WELL PAD - NBU 921-22B DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4813.2'
FINISHED GRADE ELEVATION = 4815.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.44 ACRES
TOTAL DISTURBANCE AREA = 4.70 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 865 C.Y.
TOTAL FILL FOR WELL PAD = 10,440 C.Y.
TOPSOIL @ 6" DEPTH = 2,771 C.Y.
IMPORT MATERIAL = 9,575 C.Y.

RESERVE PIT QUANTITIES

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

WELL PAD LEGEND

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

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

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

WELL PAD - NBU 921-22B

WELL PAD - LOCATION LAYOUT
NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

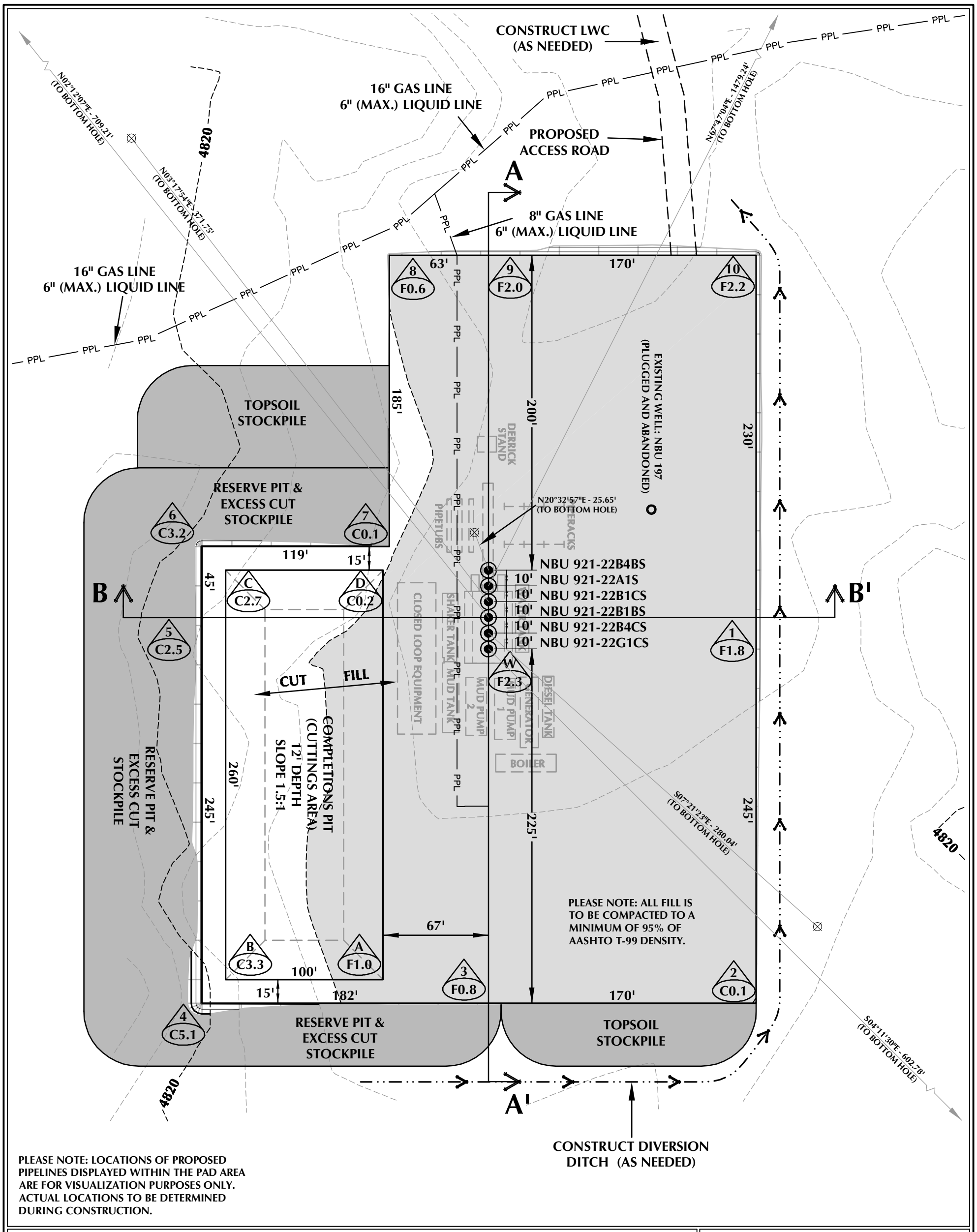
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

SCALE: 1"=60' | DATE: 9/14/11 | SHEET NO: 8
REVISED:
8 OF 18

K:\ANADARKO\2011\2011_44_NBU_FOCUS_921-22\DWG\NBU 921-22B\NBU 921-22B.dwg, 12/2/2011 9:19:57 AM, getty

RECEIVED: April 20, 2012



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

WELL PAD - NBU 921-22B (CLOSED LOOP) DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4813.2'
FINISHED GRADE ELEVATION = 4815.5'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.44 ACRES
TOTAL DISTURBANCE AREA = 4.70 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 865 C.Y.
TOTAL FILL FOR WELL PAD = 10,440 C.Y.
TOPSOIL @ 6" DEPTH = 2,771 C.Y.
IMPORT MATERIAL = 9,575 C.Y.

COMPLETIONS PIT QUANTITIES

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

WELL PAD LEGEND

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

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

WELL PAD - NBU 921-22B

WELL PAD - LOCATION LAYOUT
NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

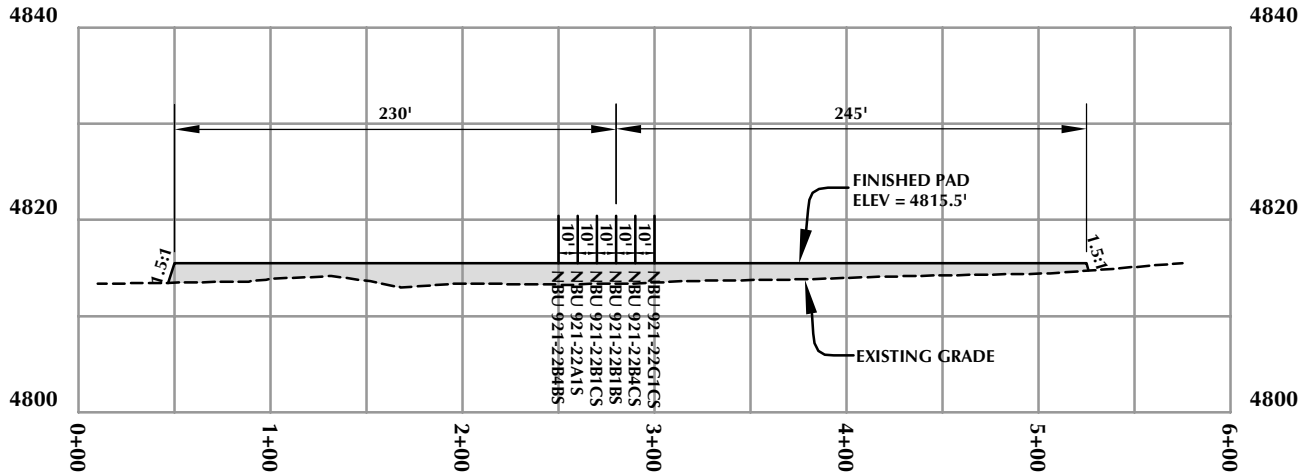
609 CONSULTING, LLC
2155 North Main Street
Sheridan, WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

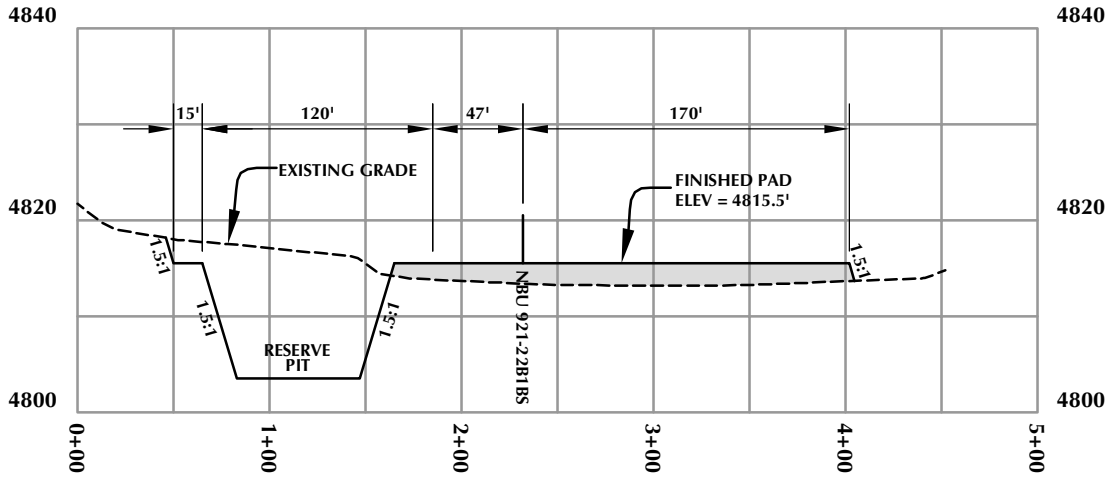
SCALE: 1"=60' | DATE: 12/2/11 | SHEET NO: 8B 8B OF 18
REVISED:

K:\ANADARKO\2011\2011_44_NBU_FOCUS_921-22\DWG\NBU 921-22B\NBU 921-22B.dwg, 12/2/2011 9:21:11 AM, getty

RECEIVED: April 20, 2012



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-22B

WELL PAD - CROSS SECTIONS
NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

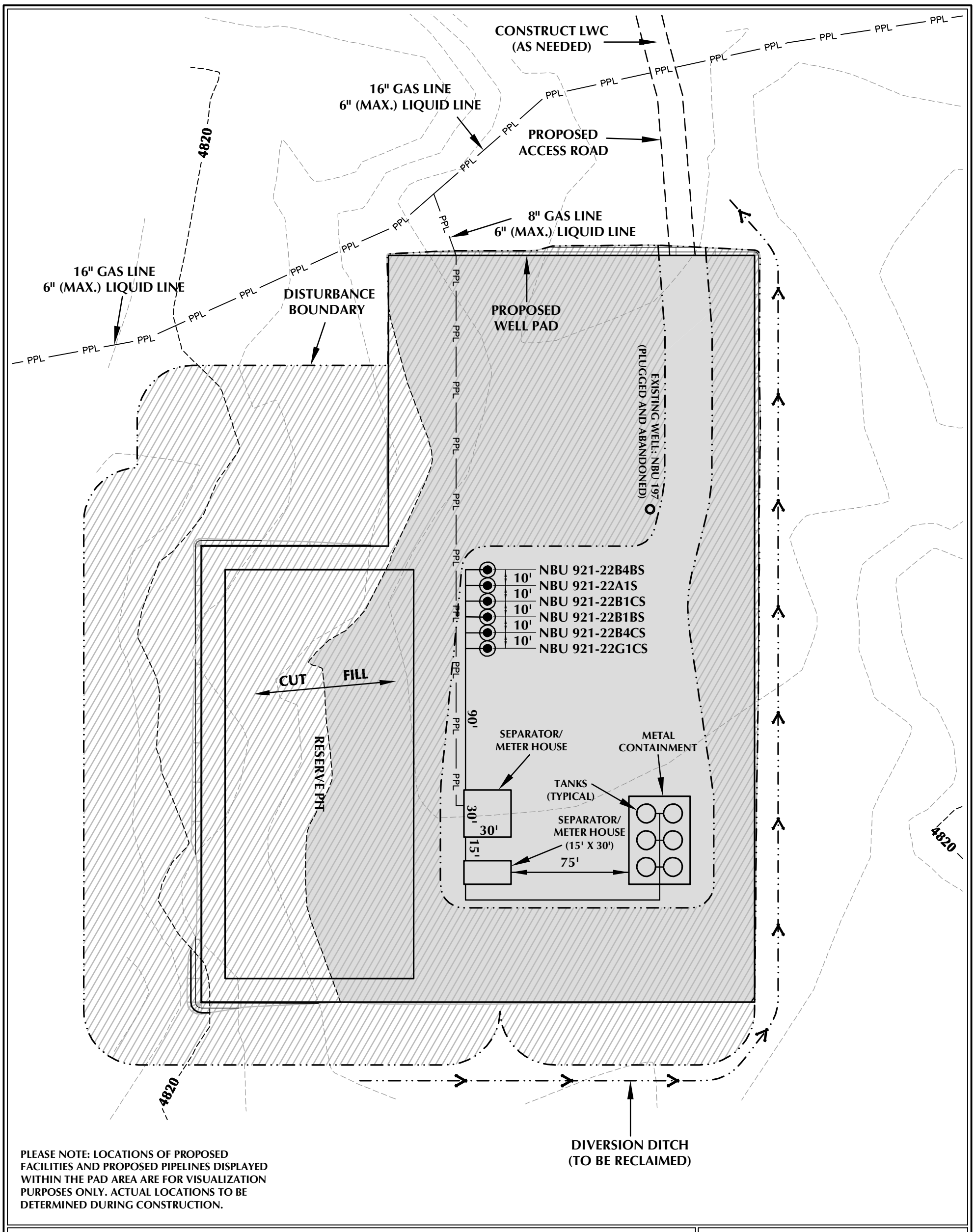
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

HORIZONTAL 0 50' 100' 1" = 100'
VERTICAL 0 10' 20' 1" = 20'

Scale: 1"=100' | Date: 9/14/11 | SHEET NO: 9
REVISED:
9 OF 18

K:\ANADARKO\2011\2011_44_NBU_FOCUS_921-22\DWG\NBU 921-22B\NBU 921-22B.dwg, 9/17/2011 11:16:31 PM, jacob

RECEIVED: April 20, 2012



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

WELL PAD - NBU 921-22B DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.70 ACRES
RECLAMATION AREA = 3.71 ACRES
TOTAL WELL PAD AREA AFTER RECLAMATION = 0.99 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

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

WELL PAD - NBU 921-22B

WELL PAD - RECLAMATION LAYOUT
NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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

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

SCALE: 1"=60' | DATE: 12/2/11 | SHEET NO: 10 10 OF 18
REVISED:

K:\ANADARKO\2011\2011_44_NBU_FOCUS_921-22\DWG\NBU 921-22B\NBU 921-22B.dwg, 12/1/2011 10:25:49 PM, jacob

API Well Number: 43047525560000

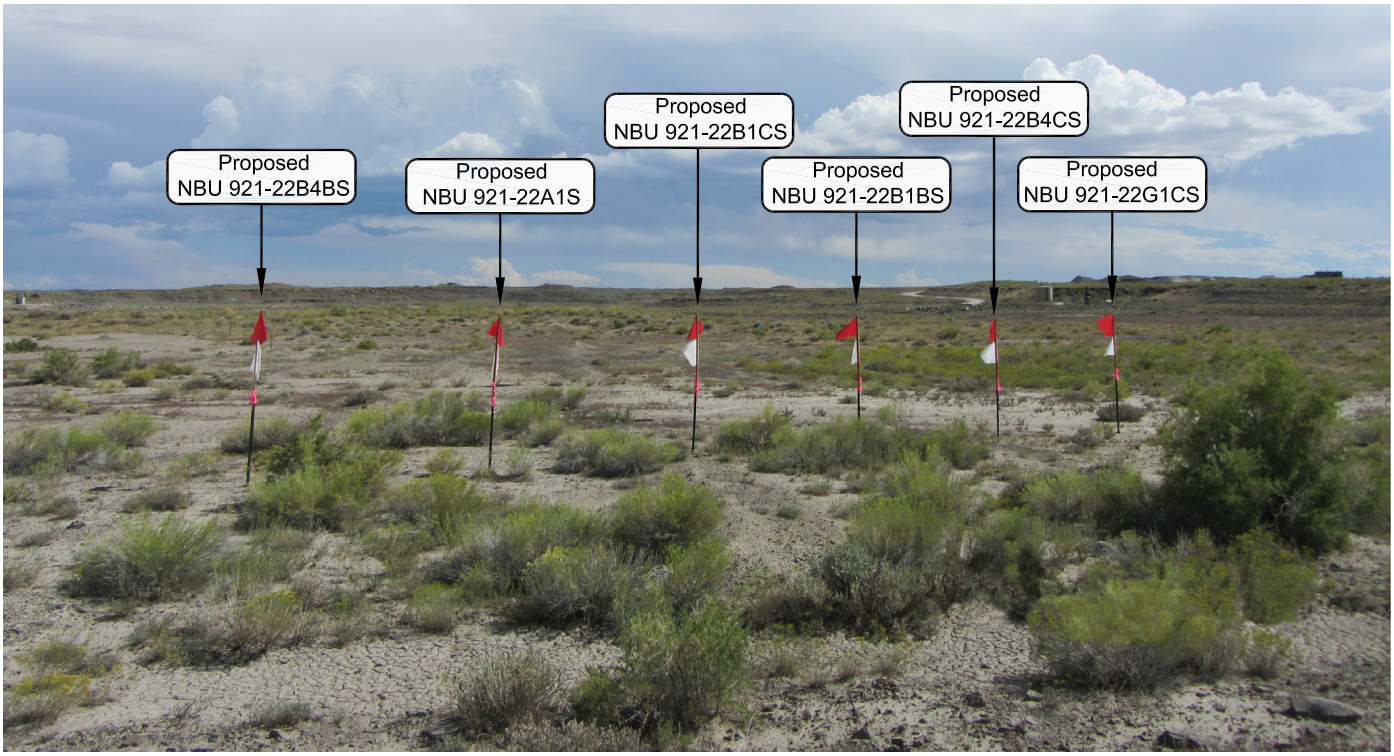


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE **CAMERA ANGLE: SOUTHEASTERLY**

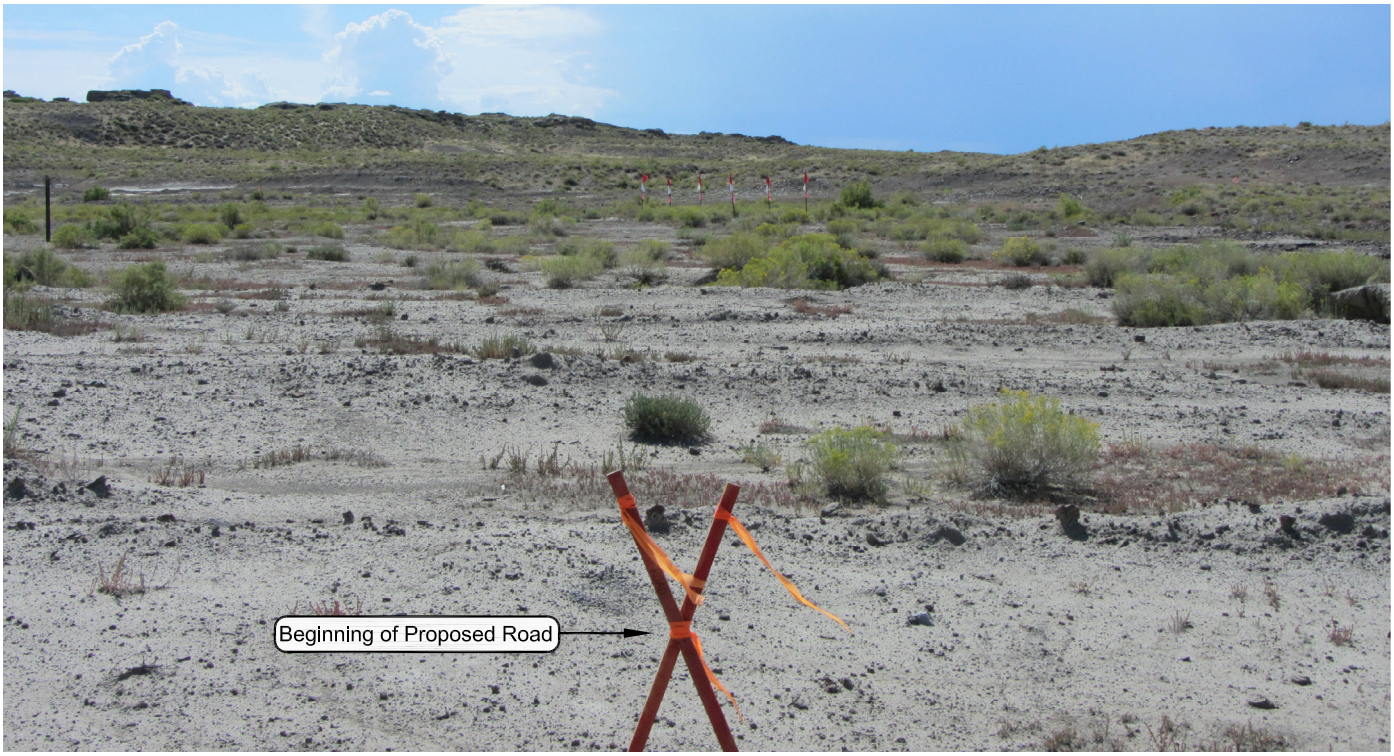


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD **CAMERA ANGLE: SOUTHWESTERLY**

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

WELL PAD - NBU 921-22B

LOCATION PHOTOS
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS, LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

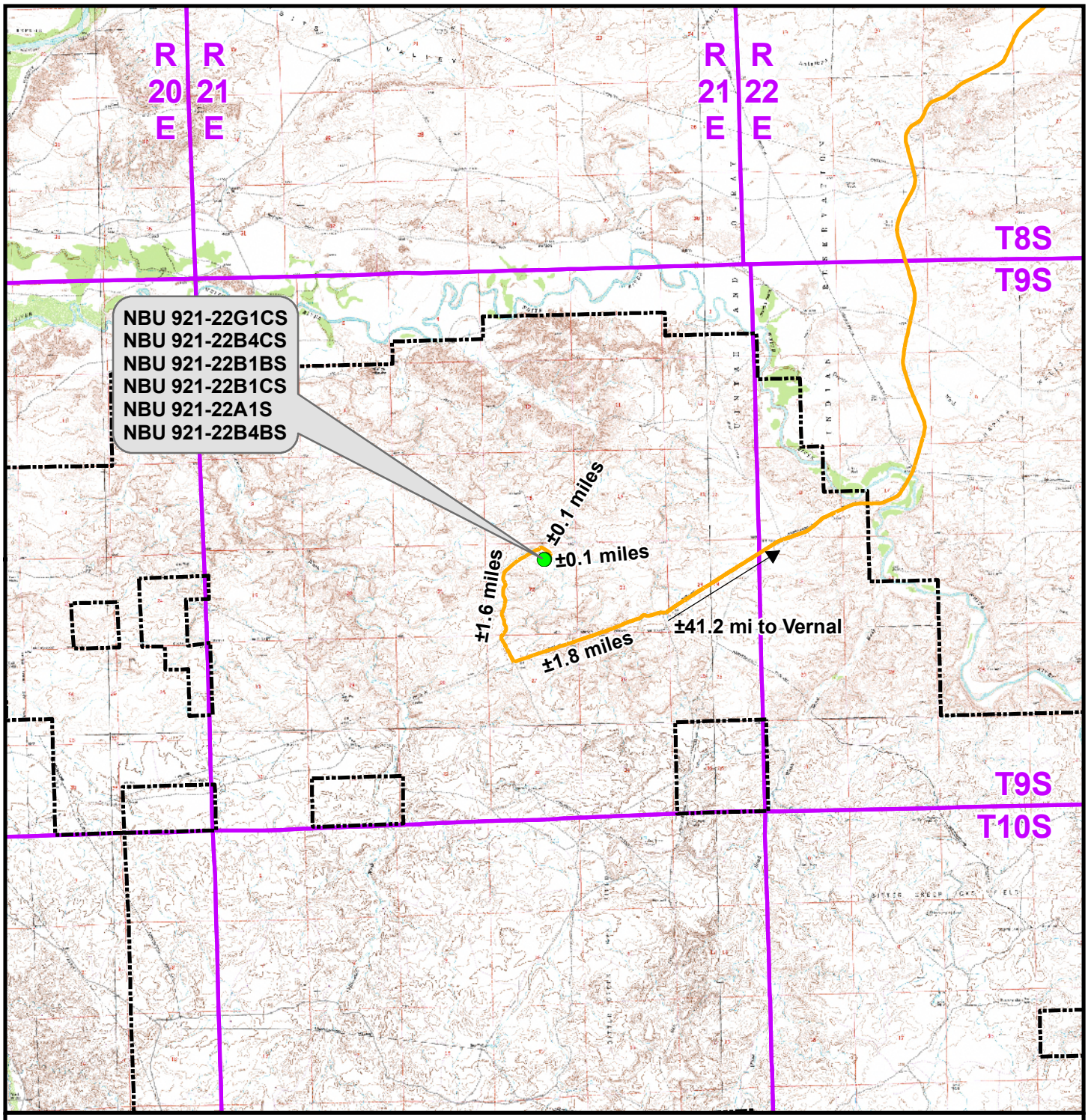
609
CONSULTING, LLC
2155 North Main Street
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE PHOTOS TAKEN: 7-19-11	PHOTOS TAKEN BY: D.J.S.	SHEET NO:
DATE DRAWN: 8-29-11	DRAWN BY: C.T.C.	11
Date Last Revised:		11 OF 18

RECEIVED: April 20, 2012

API Well Number: 43047525560000



Legend

Distance From Well Pad - NBU 921-22B To Unit Boundary: ±11,994ft

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

WELL PAD - NBU 921-22B

TOPO A
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

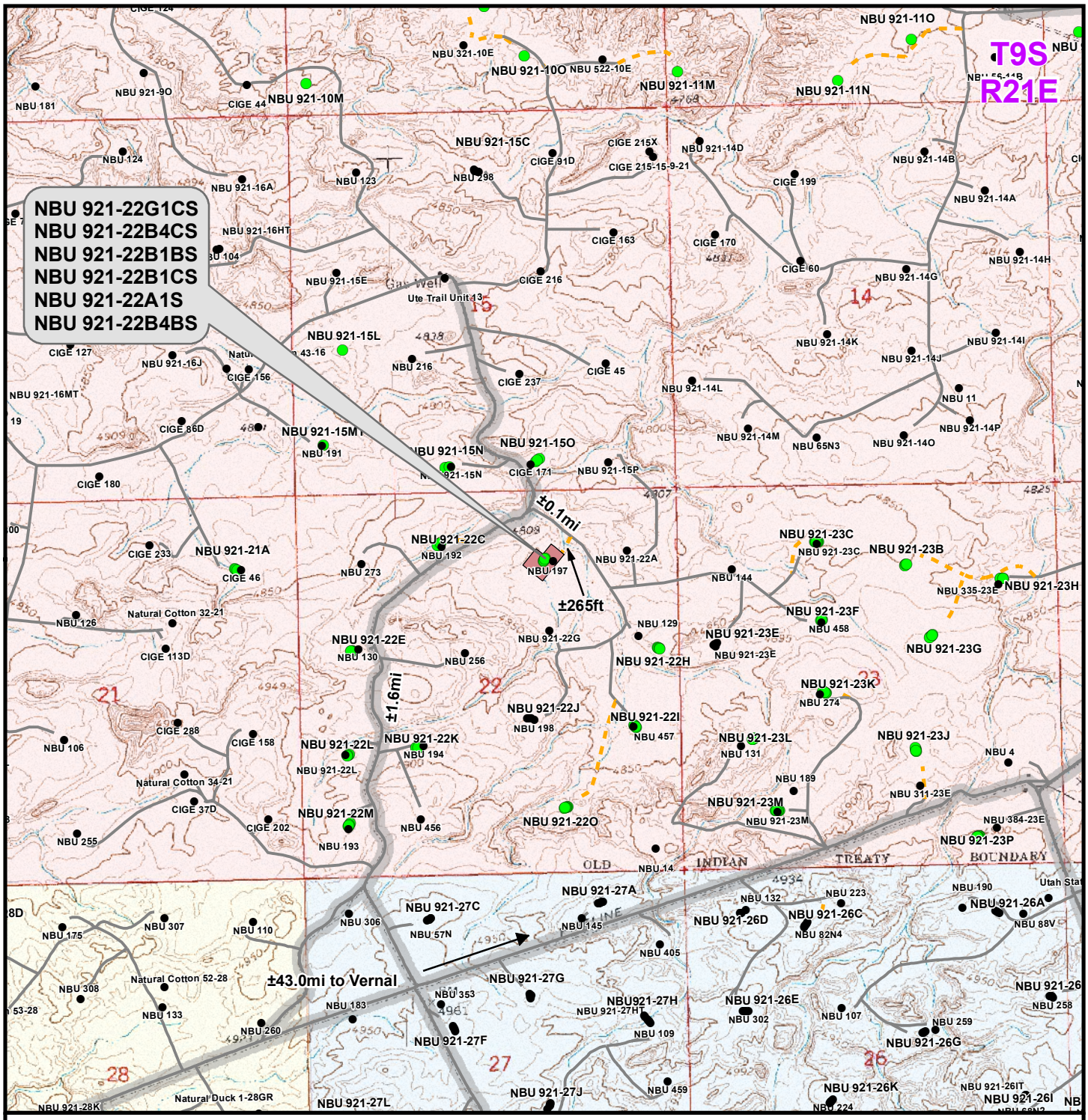
609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1:100,000	NAD83 USP Central	SHEET NO: 12
DRAWN: TL	DATE: 14 Sept 2011	12 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012

API Well Number: 43047525560000



Legend

Total Proposed Road Length: ±265ft

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

WELL PAD - NBU 921-22B

TOPO B
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202

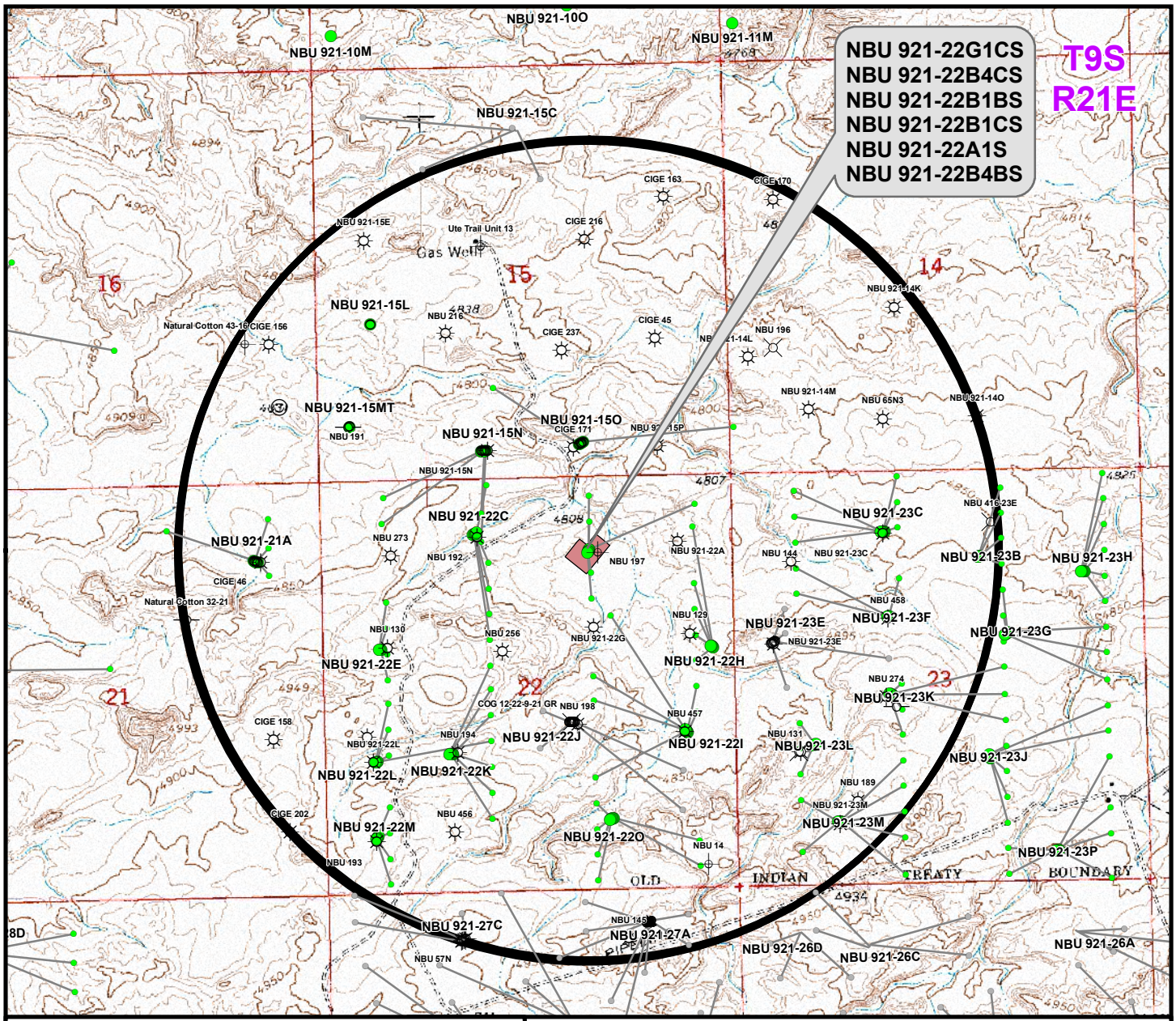
609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 13
DRAWN: TL	DATE: 14 Sept 2011	13 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012

API Well Number: 43047525560000



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

Proposed Well	Nearest Well Bore	Footage
NBU 921-22G1CS	NBU 921-22G	368ft
NBU 921-22B4CS	NBU 197	285ft
NBU 921-22B1BS	CIGE 171	655ft
NBU 921-22B1CS	NBU 197	406ft
NBU 921-22A1S	NBU 921-22A	527ft
NBU 921-22B4BS	NBU 197	113ft

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 921-22B

TOPO C
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

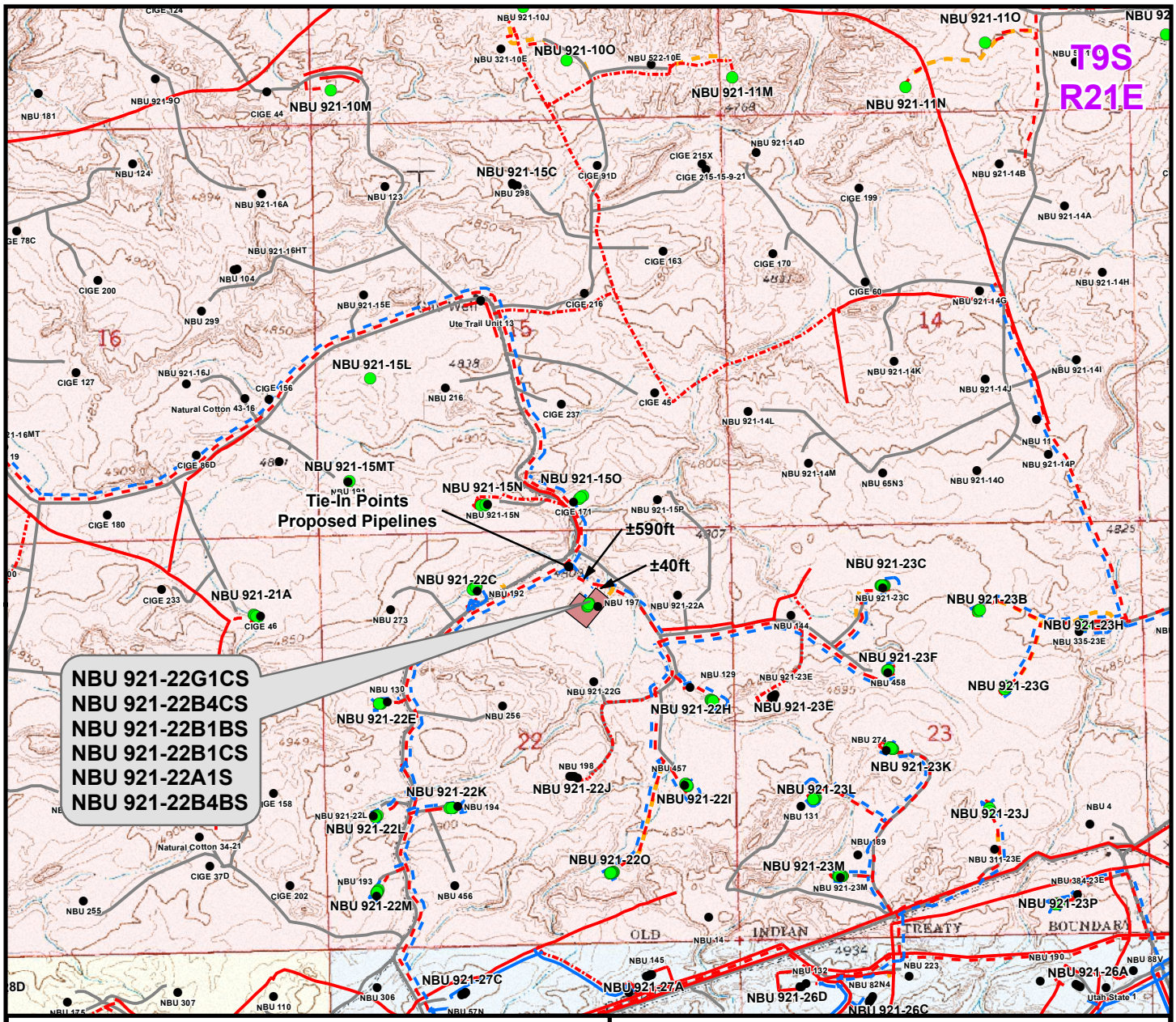
1099 18th Street
Denver, Colorado 80202

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

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 14
DRAWN: TL	DATE: 14 Sept 2011	14 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012



Proposed Liquid Pipeline	Length
Buried 6"(Max.) (Meter House to Edge of Pad)	±355ft
Buried 6"(Max.) (Edge of Pad to 22H Intersection)	±40ft
Buried 6"(Max.) (22H Intersection to Proposed 6" Liquid Pipeline ROW In Progress)	±590ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±985ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±355ft
Buried 8" (Edge of Pad to 22H Intersection)	±40ft
Buried 16" (22H Intersection to Proposed 16" Gas Pipeline ROW In Progress)	±590ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±985ft

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 921-22B

TOPO D
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.
1099 18th Street
Denver, Colorado 80202

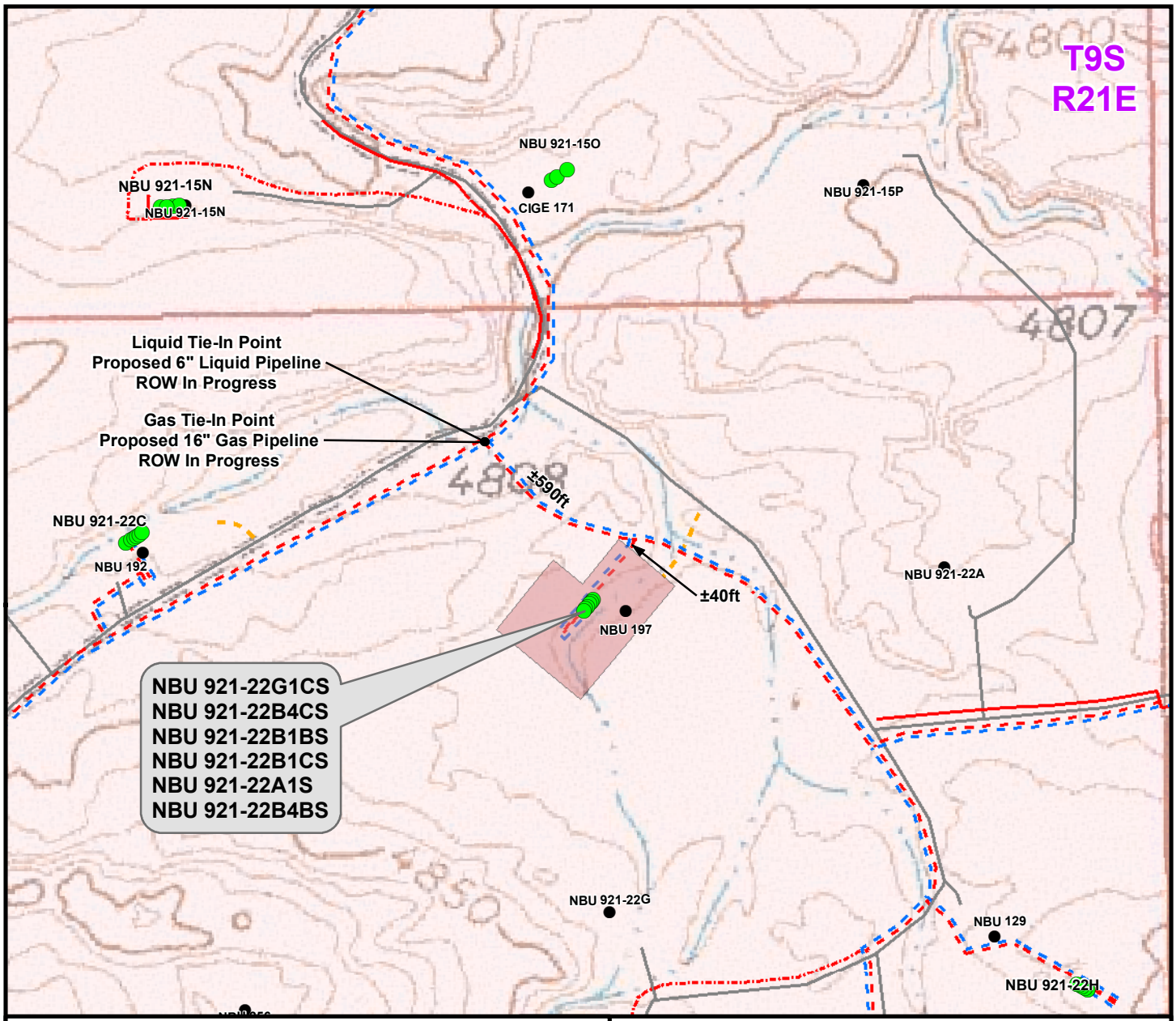
609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 15
DRAWN: TL	DATE: 14 Sept 2011	15 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012

API Well Number: 43047525560000



Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±355ft
Buried 6" (Max.) (Edge of Pad to 22H Intersection)	±40ft
Buried 6" (Max.) (22H Intersection to Proposed 6" Liquid Pipeline ROW In Progress)	±590ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±985ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±355ft
Buried 8" (Edge of Pad to 22H Intersection)	±40ft
Buried 16" (22H Intersection to Proposed 16" Gas Pipeline ROW In Progress)	±590ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±985ft

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 921-22B

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

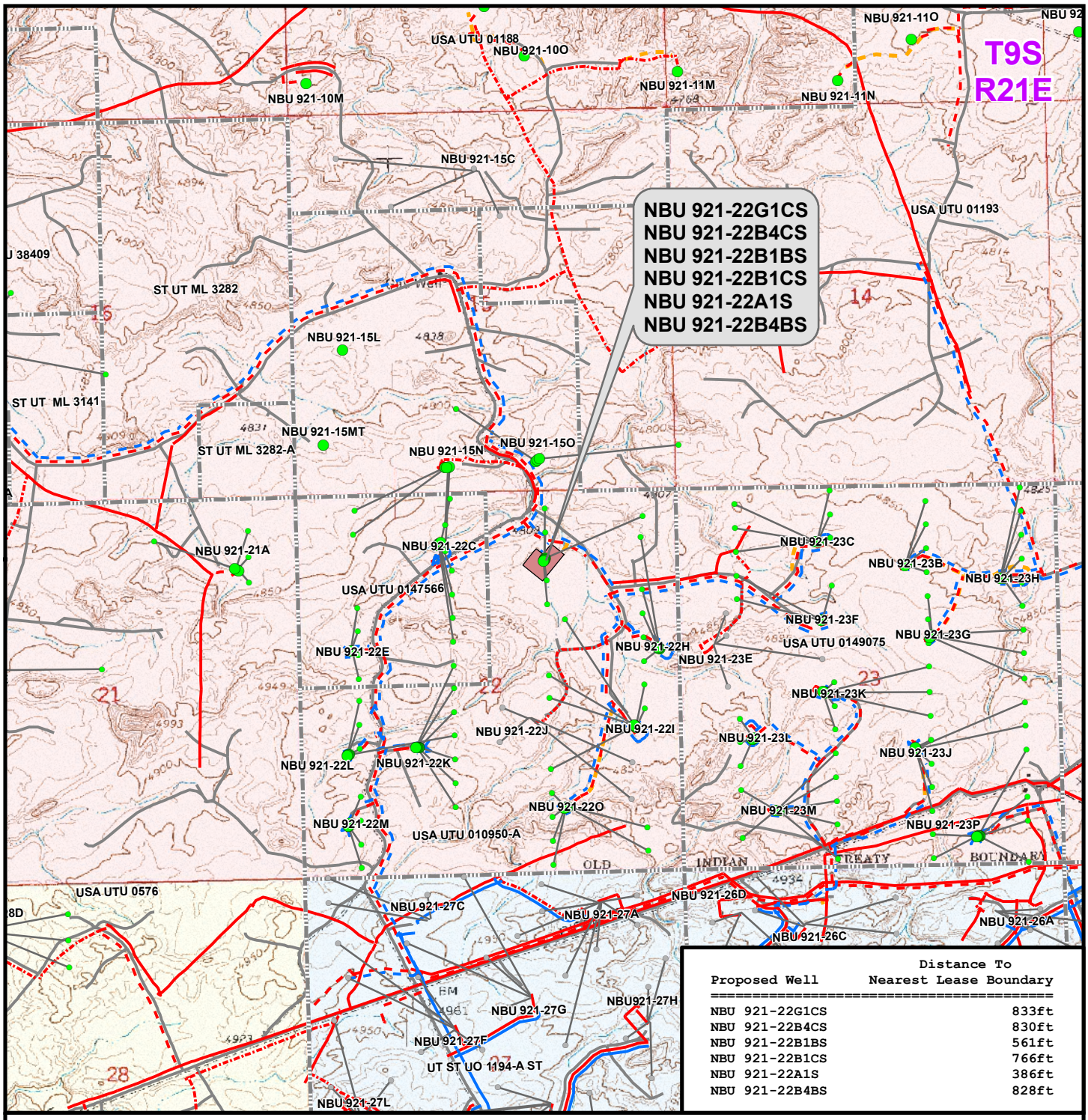
609 CONSULTING, LLC
2155 North Main Street
Sheridan, Wyoming 82801
Phone 307-674-0609
Fax 307-674-0182

N

SCALE: 1" = 500ft	NAD83 USP Central	SHEET NO: 16
DRAWN: TL	DATE: 14 Sept 2011	16 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012

API Well Number: 43047525560000



Proposed Well	Distance To Nearest Lease Boundary
NBU 921-22G1CS	833ft
NBU 921-22B4CS	830ft
NBU 921-22B1BS	561ft
NBU 921-22B1CS	766ft
NBU 921-22A1S	386ft
NBU 921-22B4BS	828ft

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

WELL PAD - NBU 921-22B

TOPO E
NBU 921-22G1CS, NBU 921-22B4CS, NBU 921-22B1BS, NBU 921-22B1CS, NBU 921-22A1S & NBU 921-22B4BS
LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH

Kerr-McGee Oil & Gas Onshore L.P.

1099 18th Street
Denver, Colorado 80202

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

N

SCALE: 1" = 2,000ft	NAD83 USP Central	SHEET NO: 17
DRAWN: TL	DATE: 14 Sept 2011	17 OF 18
REVISED:	DATE:	

RECEIVED: April 20, 2012

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 921-22B
WELLS - NBU 921-22G1CS, NBU 921-22B4CS,
NBU 921-22B1BS, NBU 921-22B1CS,
NBU 921-22A1S & NBU 921-22B4BS
Section 22, T9S, R21E, 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 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 1.6 miles to an existing service road to the southeast. Exit right and proceed in a southeasterly direction along the service road approximately 0.1 miles to the proposed access road. Follow road flags in a southwesterly direction approximately 265 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 44.7 miles in a southerly direction.

RECEIVED: April 20, 2012

API Well Number: 43047525560000

Scientific Drilling
Rocky Mountain Operations

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: NBU 921-22B PAD
Well: NBU 921-22B1CS
Wellbore: OH
Design: PLAN #1 PRELIMINARY

Anadarko Petroleum Corporation

T M
Azimuths to True North
Magnetic North: 11.04°

Magnetic Field
Strength: 52297.9snT
Dip Angle: 65.87°
Date: 2011/11/16
Model: IGRF2010

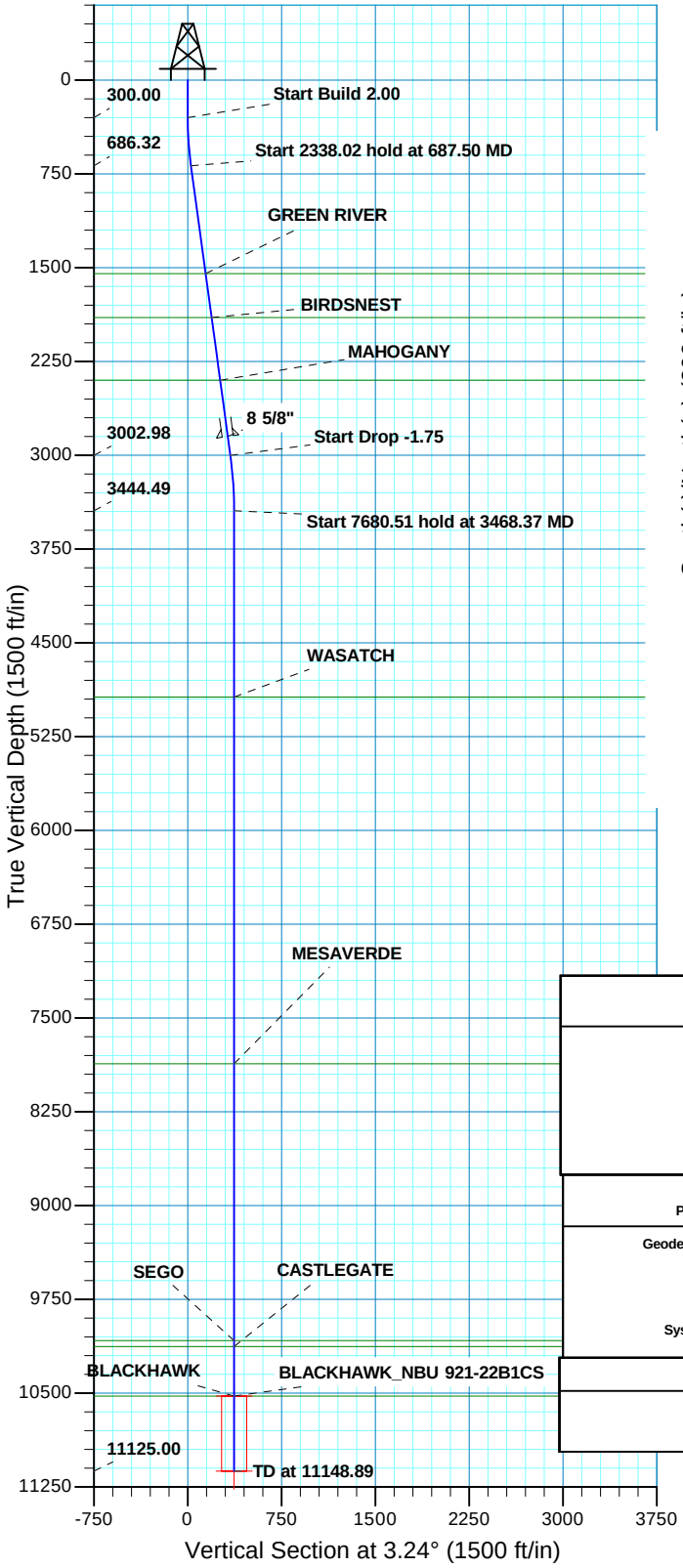
WELL DETAILS: NBU 921-22B1CS

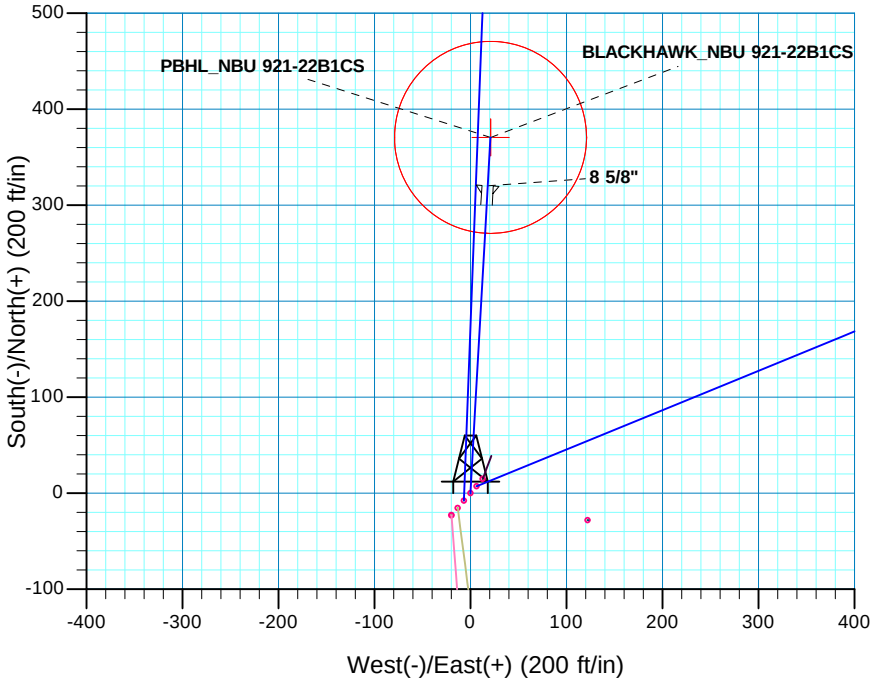
GL 4816 & KB 4 @ 4820.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14538977.61	2050744.28	40° 1' 34.489 N	109° 32' 3.538 W

DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
BLACKHAWK - plan hits target center	10525.00	370.76	21.00	14539348.66	2050759.17	40° 1' 38.154 N	109° 32' 3.268 W	Circle (Radius: 0.00)
PBHL - plan hits target center	11125.00	370.76	21.00	14539348.66	2050759.17	40° 1' 38.154 N	109° 32' 3.268 W	Circle (Radius: 100.00)





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	
687.50	7.75	3.24	686.32	26.13	1.48	2.00	3.24	26.17	
3025.52	7.75	3.24	3002.98	340.90	19.31	0.00	0.00	341.45	
3468.37	0.00	0.00	3444.49	370.76	21.00	1.75	180.00	371.36	
11148.89	0.00	0.00	11125.00	370.76	21.00	0.00	0.00	371.36	PBHL_NBU 921-22B1CS

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 22 T9S R21E
System Datum: Mean Sea Level

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1549.00	1558.13	GREEN RIVER
1900.00	1912.37	BIRDSNEST
2401.00	2417.99	MAHOGANY
4934.00	4957.89	WASATCH
7866.00	7889.89	MESAVERDE
10081.00	10104.89	SEGO
10129.00	10152.89	CASTLEGATE
10525.00	10548.89	BLACKHAWK

CASING DETAILS

TVD	MD	Name	Size
2851.00	2872.14	8 5/8"	8.62

Plan: PLAN #1 PRELIMINARY (NBU 921-22B1CS/OH)

Created By: RobertScott Date: 13:37, November 16 2011

RECEIVE

API Well Number: 43047525560000

Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
NBU 921-22B PAD
NBU 921-22B1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

16 November, 2011

Anadarko
Petroleum Corporation

RECEIVED: April 20, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Site:	NBU 921-22B PAD	**North Reference:**	True
Well:	NBU 921-22B1CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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

Map System:	Universal Transverse Mercator (US Survey Feet)	**System Datum:**	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Zone 12N (114 W to 108 W)		

Site NBU 921-22B PAD, SECTION 22 T9S R21E

Site Position:		**Northing:**	14,538,985.00 usft	**Latitude:**	40° 1' 34.561 N
From:	Lat/Long	**Easting:**	2,050,750.59 usft	**Longitude:**	109° 32' 3.455 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.20 in	**Grid Convergence:**	0.94 °

Well NBU 921-22B1CS, 950 FNL 1841 FEL

Well Position	**+N/-S**	-7.28 ft	**Northing:**	14,538,977.61 usft	**Latitude:**	40° 1' 34.489 N
	+E/-W	-6.44 ft	**Easting:**	2,050,744.27 usft	**Longitude:**	109° 32' 3.538 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,816.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	2011/11/16	11.04	65.87	52,298

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	3.24

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	
687.50	7.75	3.24	686.32	26.13	1.48	2.00	2.00	0.00	3.24	
3,025.52	7.75	3.24	3,002.98	340.90	19.31	0.00	0.00	0.00	0.00	
3,468.37	0.00	0.00	3,444.49	370.76	21.00	1.75	-1.75	0.00	180.00	
11,148.89	0.00	0.00	11,125.00	370.76	21.00	0.00	0.00	0.00	0.00	PBHL_NBU 921-22B´

RECEIVED: April 20, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Site:	NBU 921-22B PAD	**North Reference:**	True
Well:	NBU 921-22B1CS	**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	3.24	399.98	1.74	0.10	1.75	2.00	2.00	0.00
500.00	4.00	3.24	499.84	6.97	0.39	6.98	2.00	2.00	0.00
600.00	6.00	3.24	599.45	15.67	0.89	15.69	2.00	2.00	0.00
687.50	7.75	3.24	686.32	26.13	1.48	26.17	2.00	2.00	0.00
Start 2338.02 hold at 687.50 MD									
700.00	7.75	3.24	698.71	27.81	1.58	27.85	0.00	0.00	0.00
800.00	7.75	3.24	797.79	41.27	2.34	41.34	0.00	0.00	0.00
900.00	7.75	3.24	896.88	54.74	3.10	54.82	0.00	0.00	0.00
1,000.00	7.75	3.24	995.97	68.20	3.86	68.31	0.00	0.00	0.00
1,100.00	7.75	3.24	1,095.05	81.66	4.63	81.79	0.00	0.00	0.00
1,200.00	7.75	3.24	1,194.14	95.13	5.39	95.28	0.00	0.00	0.00
1,300.00	7.75	3.24	1,293.22	108.59	6.15	108.76	0.00	0.00	0.00
1,400.00	7.75	3.24	1,392.31	122.05	6.91	122.25	0.00	0.00	0.00
1,500.00	7.75	3.24	1,491.40	135.52	7.68	135.73	0.00	0.00	0.00
1,558.13	7.75	3.24	1,549.00	143.34	8.12	143.57	0.00	0.00	0.00
GREEN RIVER									
1,600.00	7.75	3.24	1,590.48	148.98	8.44	149.22	0.00	0.00	0.00
1,700.00	7.75	3.24	1,689.57	162.44	9.20	162.70	0.00	0.00	0.00
1,800.00	7.75	3.24	1,788.66	175.91	9.96	176.19	0.00	0.00	0.00
1,900.00	7.75	3.24	1,887.74	189.37	10.73	189.67	0.00	0.00	0.00
1,912.37	7.75	3.24	1,900.00	191.04	10.82	191.34	0.00	0.00	0.00
BIRDSNEST									
2,000.00	7.75	3.24	1,986.83	202.83	11.49	203.16	0.00	0.00	0.00
2,100.00	7.75	3.24	2,085.92	216.30	12.25	216.64	0.00	0.00	0.00
2,200.00	7.75	3.24	2,185.00	229.76	13.01	230.13	0.00	0.00	0.00
2,300.00	7.75	3.24	2,284.09	243.22	13.78	243.61	0.00	0.00	0.00
2,400.00	7.75	3.24	2,383.18	256.69	14.54	257.10	0.00	0.00	0.00
2,417.99	7.75	3.24	2,401.00	259.11	14.68	259.53	0.00	0.00	0.00
MAHOGANY									
2,500.00	7.75	3.24	2,482.26	270.15	15.30	270.58	0.00	0.00	0.00
2,600.00	7.75	3.24	2,581.35	283.62	16.06	284.07	0.00	0.00	0.00
2,700.00	7.75	3.24	2,680.44	297.08	16.83	297.55	0.00	0.00	0.00
2,800.00	7.75	3.24	2,779.52	310.54	17.59	311.04	0.00	0.00	0.00
2,872.14	7.75	3.24	2,851.00	320.25	18.14	320.77	0.00	0.00	0.00
8 5/8"									
2,900.00	7.75	3.24	2,878.61	324.01	18.35	324.52	0.00	0.00	0.00
3,000.00	7.75	3.24	2,977.70	337.47	19.11	338.01	0.00	0.00	0.00
3,025.52	7.75	3.24	3,002.98	340.90	19.31	341.45	0.00	0.00	0.00
Start Drop -1.75									
3,100.00	6.45	3.24	3,076.89	350.09	19.83	350.65	1.75	-1.75	0.00
3,200.00	4.70	3.24	3,176.42	359.79	20.38	360.36	1.75	-1.75	0.00
3,300.00	2.95	3.24	3,276.19	366.44	20.76	367.03	1.75	-1.75	0.00
3,400.00	1.20	3.24	3,376.12	370.05	20.96	370.64	1.75	-1.75	0.00
3,468.37	0.00	0.00	3,444.49	370.76	21.00	371.36	1.75	-1.75	-4.74
Start 7680.51 hold at 3468.37 MD									
3,500.00	0.00	0.00	3,476.11	370.76	21.00	371.36	0.00	0.00	0.00
3,600.00	0.00	0.00	3,576.11	370.76	21.00	371.36	0.00	0.00	0.00
3,700.00	0.00	0.00	3,676.11	370.76	21.00	371.36	0.00	0.00	0.00

RECEIVED: April 20, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Site:	NBU 921-22B PAD	**North Reference:**	True
Well:	NBU 921-22B1CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
3,800.00	0.00	0.00	3,776.11	370.76	21.00	371.36	0.00	0.00	0.00
3,900.00	0.00	0.00	3,876.11	370.76	21.00	371.36	0.00	0.00	0.00
4,000.00	0.00	0.00	3,976.11	370.76	21.00	371.36	0.00	0.00	0.00
4,100.00	0.00	0.00	4,076.11	370.76	21.00	371.36	0.00	0.00	0.00
4,200.00	0.00	0.00	4,176.11	370.76	21.00	371.36	0.00	0.00	0.00
4,300.00	0.00	0.00	4,276.11	370.76	21.00	371.36	0.00	0.00	0.00
4,400.00	0.00	0.00	4,376.11	370.76	21.00	371.36	0.00	0.00	0.00
4,500.00	0.00	0.00	4,476.11	370.76	21.00	371.36	0.00	0.00	0.00
4,600.00	0.00	0.00	4,576.11	370.76	21.00	371.36	0.00	0.00	0.00
4,700.00	0.00	0.00	4,676.11	370.76	21.00	371.36	0.00	0.00	0.00
4,800.00	0.00	0.00	4,776.11	370.76	21.00	371.36	0.00	0.00	0.00
4,900.00	0.00	0.00	4,876.11	370.76	21.00	371.36	0.00	0.00	0.00
4,957.89	0.00	0.00	4,934.00	370.76	21.00	371.36	0.00	0.00	0.00
WASATCH									
5,000.00	0.00	0.00	4,976.11	370.76	21.00	371.36	0.00	0.00	0.00
5,100.00	0.00	0.00	5,076.11	370.76	21.00	371.36	0.00	0.00	0.00
5,200.00	0.00	0.00	5,176.11	370.76	21.00	371.36	0.00	0.00	0.00
5,300.00	0.00	0.00	5,276.11	370.76	21.00	371.36	0.00	0.00	0.00
5,400.00	0.00	0.00	5,376.11	370.76	21.00	371.36	0.00	0.00	0.00
5,500.00	0.00	0.00	5,476.11	370.76	21.00	371.36	0.00	0.00	0.00
5,600.00	0.00	0.00	5,576.11	370.76	21.00	371.36	0.00	0.00	0.00
5,700.00	0.00	0.00	5,676.11	370.76	21.00	371.36	0.00	0.00	0.00
5,800.00	0.00	0.00	5,776.11	370.76	21.00	371.36	0.00	0.00	0.00
5,900.00	0.00	0.00	5,876.11	370.76	21.00	371.36	0.00	0.00	0.00
6,000.00	0.00	0.00	5,976.11	370.76	21.00	371.36	0.00	0.00	0.00
6,100.00	0.00	0.00	6,076.11	370.76	21.00	371.36	0.00	0.00	0.00
6,200.00	0.00	0.00	6,176.11	370.76	21.00	371.36	0.00	0.00	0.00
6,300.00	0.00	0.00	6,276.11	370.76	21.00	371.36	0.00	0.00	0.00
6,400.00	0.00	0.00	6,376.11	370.76	21.00	371.36	0.00	0.00	0.00
6,500.00	0.00	0.00	6,476.11	370.76	21.00	371.36	0.00	0.00	0.00
6,600.00	0.00	0.00	6,576.11	370.76	21.00	371.36	0.00	0.00	0.00
6,700.00	0.00	0.00	6,676.11	370.76	21.00	371.36	0.00	0.00	0.00
6,800.00	0.00	0.00	6,776.11	370.76	21.00	371.36	0.00	0.00	0.00
6,900.00	0.00	0.00	6,876.11	370.76	21.00	371.36	0.00	0.00	0.00
7,000.00	0.00	0.00	6,976.11	370.76	21.00	371.36	0.00	0.00	0.00
7,100.00	0.00	0.00	7,076.11	370.76	21.00	371.36	0.00	0.00	0.00
7,200.00	0.00	0.00	7,176.11	370.76	21.00	371.36	0.00	0.00	0.00
7,300.00	0.00	0.00	7,276.11	370.76	21.00	371.36	0.00	0.00	0.00
7,400.00	0.00	0.00	7,376.11	370.76	21.00	371.36	0.00	0.00	0.00
7,500.00	0.00	0.00	7,476.11	370.76	21.00	371.36	0.00	0.00	0.00
7,600.00	0.00	0.00	7,576.11	370.76	21.00	371.36	0.00	0.00	0.00
7,700.00	0.00	0.00	7,676.11	370.76	21.00	371.36	0.00	0.00	0.00
7,800.00	0.00	0.00	7,776.11	370.76	21.00	371.36	0.00	0.00	0.00
7,889.89	0.00	0.00	7,866.00	370.76	21.00	371.36	0.00	0.00	0.00
MESAVERDE									
7,900.00	0.00	0.00	7,876.11	370.76	21.00	371.36	0.00	0.00	0.00
8,000.00	0.00	0.00	7,976.11	370.76	21.00	371.36	0.00	0.00	0.00
8,100.00	0.00	0.00	8,076.11	370.76	21.00	371.36	0.00	0.00	0.00
8,200.00	0.00	0.00	8,176.11	370.76	21.00	371.36	0.00	0.00	0.00
8,300.00	0.00	0.00	8,276.11	370.76	21.00	371.36	0.00	0.00	0.00
8,400.00	0.00	0.00	8,376.11	370.76	21.00	371.36	0.00	0.00	0.00
8,500.00	0.00	0.00	8,476.11	370.76	21.00	371.36	0.00	0.00	0.00
8,600.00	0.00	0.00	8,576.11	370.76	21.00	371.36	0.00	0.00	0.00
8,700.00	0.00	0.00	8,676.11	370.76	21.00	371.36	0.00	0.00	0.00

RECEIVED: April 20, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Site:	NBU 921-22B PAD	**North Reference:**	True
Well:	NBU 921-22B1CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,776.11	370.76	21.00	371.36	0.00	0.00	0.00
8,900.00	0.00	0.00	8,876.11	370.76	21.00	371.36	0.00	0.00	0.00
9,000.00	0.00	0.00	8,976.11	370.76	21.00	371.36	0.00	0.00	0.00
9,100.00	0.00	0.00	9,076.11	370.76	21.00	371.36	0.00	0.00	0.00
9,200.00	0.00	0.00	9,176.11	370.76	21.00	371.36	0.00	0.00	0.00
9,300.00	0.00	0.00	9,276.11	370.76	21.00	371.36	0.00	0.00	0.00
9,400.00	0.00	0.00	9,376.11	370.76	21.00	371.36	0.00	0.00	0.00
9,500.00	0.00	0.00	9,476.11	370.76	21.00	371.36	0.00	0.00	0.00
9,600.00	0.00	0.00	9,576.11	370.76	21.00	371.36	0.00	0.00	0.00
9,700.00	0.00	0.00	9,676.11	370.76	21.00	371.36	0.00	0.00	0.00
9,800.00	0.00	0.00	9,776.11	370.76	21.00	371.36	0.00	0.00	0.00
9,900.00	0.00	0.00	9,876.11	370.76	21.00	371.36	0.00	0.00	0.00
10,000.00	0.00	0.00	9,976.11	370.76	21.00	371.36	0.00	0.00	0.00
10,100.00	0.00	0.00	10,076.11	370.76	21.00	371.36	0.00	0.00	0.00
10,104.89	0.00	0.00	10,081.00	370.76	21.00	371.36	0.00	0.00	0.00
SEGO									
10,152.89	0.00	0.00	10,129.00	370.76	21.00	371.36	0.00	0.00	0.00
CASTLEGATE									
10,200.00	0.00	0.00	10,176.11	370.76	21.00	371.36	0.00	0.00	0.00
10,300.00	0.00	0.00	10,276.11	370.76	21.00	371.36	0.00	0.00	0.00
10,400.00	0.00	0.00	10,376.11	370.76	21.00	371.36	0.00	0.00	0.00
10,500.00	0.00	0.00	10,476.11	370.76	21.00	371.36	0.00	0.00	0.00
10,548.89	0.00	0.00	10,525.00	370.76	21.00	371.36	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_NBU 921-22B1CS									
10,600.00	0.00	0.00	10,576.11	370.76	21.00	371.36	0.00	0.00	0.00
10,700.00	0.00	0.00	10,676.11	370.76	21.00	371.36	0.00	0.00	0.00
10,800.00	0.00	0.00	10,776.11	370.76	21.00	371.36	0.00	0.00	0.00
10,900.00	0.00	0.00	10,876.11	370.76	21.00	371.36	0.00	0.00	0.00
11,000.00	0.00	0.00	10,976.11	370.76	21.00	371.36	0.00	0.00	0.00
11,100.00	0.00	0.00	11,076.11	370.76	21.00	371.36	0.00	0.00	0.00
11,148.89	0.00	0.00	11,125.00	370.76	21.00	371.36	0.00	0.00	0.00
PBHL_NBU 921-22B1CS									

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
BLACKHAWK_NBU 921 - plan hits target center - Circle (radius 0.00)	0.00	0.00	10,525.00	370.76	21.00	14,539,348.67	2,050,759.17	40° 1' 38.154 N	109° 32' 3.268 W
PBHL_NBU 921-22B1C - plan hits target center - Circle (radius 100.00)	0.00	0.00	11,125.00	370.76	21.00	14,539,348.67	2,050,759.17	40° 1' 38.154 N	109° 32' 3.268 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,872.14	2,851.00	8 5/8"	8.63	11.00

RECEIVED: April 20, 2012

Scientific Drilling
Rocky Mountain Operations

SDI
Planning Report

Anadarko Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Company:	US ROCKIES REGION PLANNING	**TVD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**MD Reference:**	GL 4816 & KB 4 @ 4820.00ft (ASSUMED)
Site:	NBU 921-22B PAD	**North Reference:**	True
Well:	NBU 921-22B1CS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,558.13	1,549.00	GREEN RIVER			
1,912.37	1,900.00	BIRDSNEST			
2,417.99	2,401.00	MAHOGANY			
4,957.89	4,934.00	WASATCH			
7,889.89	7,866.00	MESAVERDE			
10,104.89	10,081.00	SEGO			
10,152.89	10,129.00	CASTLEGATE			
10,548.89	10,525.00	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
687.50	686.32	26.13	1.48	Start 2338.02 hold at 687.50 MD
3,025.52	3,002.98	340.90	19.31	Start Drop -1.75
3,468.37	3,444.49	370.76	21.00	Start 7680.51 hold at 3468.37 MD
11,148.89	11,125.00	370.76	21.00	TD at 11148.89

RECEIVED: April 20, 2012

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

NBU 921-22B Pad

API #4304740348		**NBU 921-22A1S**		
	Surface:	943 FNL / 1835 FEL	NWNE	Lot
	BHL:	386 FNL / 464 FEL	NENE	Lot
API #		**NBU 921-22B1BS**		
	Surface:	958 FNL / 1848 FEL	NWNE	Lot
	BHL:	249 FNL / 1819 FEL	NWNE	Lot
API #		**NBU 921-22B1CS**		
	Surface:	950 FNL / 1841 FEL	NWNE	Lot
	BHL:	579 FNL / 1819 FEL	NWNE	Lot
API #		**NBU 921-22B4BS**		
	Surface:	935 FNL / 1828 FEL	NWNE	Lot
	BHL:	911 FNL / 1819 FEL	NWNE	Lot
API #		**NBU 921-22B4CS**		
	Surface:	965 FNL / 1854 FEL	NWNE	Lot
	BHL:	1243 FNL / 1819 FEL	NWNE	Lot
API #		**NBU 921-22G1CS**		
	Surface:	973 FNL / 1861 FEL	NWNE	Lot
	BHL:	1574 FNL / 1818 FEL	SWNE	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 October 3-4, 2011. Present were:

- Bucky Secakuku (10/4/2011 only) - BIA;
- LeAllen Blackhair, Rainey Longhair - Ute Indian Tribe;
- Kelly Jo Jackson - Montgomery Archeological Consultants Inc.;
- Scott Carson - Smiling Lake Consulting;
- John Slaugh, Mitch Batty - Timberline Engineering & Land Surveying, Inc.;
- Laura Abrams, Charles Chase, Raleen White, Doyle Holmes, Lovel Young, Sheila Wopsock - Kerr-McGee

A. Existing Roads:

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

RECEIVED: April 20, 2012

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

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

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

All new or reconstructed roads will be located, designed, and maintained to meet the standards of the BIA.

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

Where safety objectives can be met. As applicable, Kerr-McGee may use unimproved and/or two-track roads for lease operations, to lessen total disturbance.

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

Where topography would direct storm water runoff to an access road or well pad, drainage ditches or other common drainage control facilities, such as V- or wing-ditches, will be constructed to divert surface water runoff. Drainage features, including culverts, will be constructed or installed prior to commencing other operations, including drilling or facilities placement. Riprap will be placed at the inlet and outlet at the culvert(s), as necessary.

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

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

RECEIVED: April 20, 2012

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

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

The following segments are "on-lease"

±265' (0.05 miles) – Section 22 T9S R21E (NE/4) – On-lease UTU010950A, from the edge of pad to the existing road to the northeast. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 457, which is a producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records on December 7, 2011. 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).

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

GAS GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The gas gathering pipeline material: Steel line pipe. Surface = Bare pipe. Buried = Coated with fusion bonded epoxy coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is ±985' and the individual segments are broken up as follows:

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±985' (0.2 miles) – Section 22 T9S R21E (NE/4) – On-lease UTU010950A Ute Indian Tribe surface, New 8" and 16" buried gas gathering pipeline from the meter to the proposed 16" gas pipeline - ROW in progress. Please refer to Topo D2 - Pad and Pipeline Detail.

LIQUID GATHERING

Please refer to Topo D2- Pad and Pipeline Detail.

The total liquid gathering pipeline distance from the separator to the tie in point is ±985' and the individual segments are broken up as follows:

RECEIVED: April 20, 2012

The following segments will require a ROW to be submitted under a different cover to the Ute Indian Tribe.

±985' (0.2 miles) – Section 22 T9S R21E (NE/4) – On-lease UTU010950A Ute Indian Tribe surface,
New 6" buried liquid gathering pipeline from the separator to the proposed 6" liquid pipeline- ROW in progress.
Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee. Gas gathering pipeline(s,) gas lift, or liquids pipelines may be constructed to lie on the surface or be buried. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. The area of disturbance during construction from the edge of road or well pad will typically be 30' in width. Where pipelines run cross country, the width of disturbance will typically be 45 ft for buried lines and 30 ft for surface lines. In addition, Kerr-McGee requests for a permanent 30' disturbance width that will be maintained for the portion adjacent to the road. The need for the 30' permanent disturbance width is for maintenance and repairs. Cross country permanent disturbance width also are required to be 30ft.

Above-ground installation will generally not require clearing of vegetation or blading of the surface, except where safety considerations necessitate earthwork. In some surface pipeline installation instances pipe cannot be constructed where it will lay. In these cases where an above-ground pipeline is constructed parallel and adjacent to a road, it will be welded/fused on the road and then lifted from the road to the pipeline route. In other cases where a pipeline route is not parallel and adjacent to a road (cross-country between sites), it will be welded/fused in place at a well pad, access road, or designated work area and pulled between connection locations with a suitable piece of equipment.

Buried pipelines will generally be installed parallel and adjacent to existing and/or newly constructed roads and within the permitted disturbance corridor. Buried pipelines may vary from 2 inches (typically fuel gas lines) to 24 inches (typically transportation lines) in diameter, but 6 to 16 inches is typical for a buried gas line. The diameter of liquids pipelines may vary from 2 inches to 12 inches, but 6 inches is the typical diameter. Gas lift lines may vary from 2 to 12 inches in diameter, but 6-inch diameter pipes are generally used for gas lift. If two or more pipelines are present (gas gathering, gas lift, and fluids), they will share a common trench where possible.

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

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

The liquid gathering lines will be made of polyethylene or a composite polyethylene/steel or polyethylene/fiberglass that is not subject to internal or external pipe corrosion. The content of the produced fluids to be transferred by the liquid gathering system will be approximately 92% produced water and 8% condensate. Trunk line valve connections for the water gathering system will be below ground but accessible from the surface in order to prevent freezing during winter time.

RECEIVED: April 20, 2012

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

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

Upon completion of the proposed buried pipeline, the entire area of disturbance will be reclaimed to the standards proposed in the Green River District Reclamation Guidelines. Please refer to section J for more details regarding final reclamation.
When no longer deemed necessary by the operator, Kerr-McGee or it's successor will consult with the Vernal BIA Office before terminating of the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

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

If Kerr-McGee does not use a closed loop system, it will construct a drilling reserve pit to contain drill cuttings and for use in completion operations. Depending on the location of the pit, its relation to future drilling locations, the reserve/completion pit will be utilized for the completion of the wells on that pad and/or be used as part of our ACTS system.

Kerr-McGee will use ACTS to optimize the completion processes for multiple pads across the project area which may include up to a section of development. ACTS will facilitate management of frac fluids by utilizing existing reserve pits and temporary, surface-laid aluminum liquids transfer lines between frac locations. The pit will be refurbished as follows when a traditional drill pit is used: mix and pile up drill cuttings with dry dirt, bury the original liner in the pit, walk bottom of pit with cat. Kerr-McGee will reline the pit with a 30 mil liner and double felt padding. The refurbished pit will be the same size or smaller as specified in the originally approved ROW/APD. The pit refurb will be done in a normal procedure and there will be no modification to the pit.

All four sides of the completions pit will be fenced in according to standard pit fencing procedures. Netting will be installed over all pits.

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

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

RECEIVED: April 20, 2012

The temporary ACTS lines will be permitted under a separate cover to the Ute Indian Tribe.

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

E. Location and Types of Water Supply:

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

Permit # 49-2307	JD Field Services	Green River- Section 15, T2N, R22E
Permit # 49-2321	R.N. Industries	White River- Section 2, T10S, R24E
Permit # 49-2319	R.N. Industries	White River- Various Sources
Permit # 49-2320	R.N. Industries	Green River- Section 33, T8S, R23E

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

No water well is to be drilled on this lease.

F. Construction Materials:

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

G. Methods for Handling Waste:

All wastes subject to regulation will be handled in compliance with applicable laws to minimize the potential for leaks or spills to the environment. Kerr-McGee also maintains a Spill Control and Countermeasure Plan, which includes notification requirements, including the BIA, for all reportable spills of oil, produced liquids, and hazardous materials.

Any accidental release, such as a leak or spill in excess of the reportable quantity, as established by 40 CFR Part 117.3, will be reported as per the requirements of CERCLA, Section 102 B. If a release involves petroleum hydrocarbons or produced liquids, Kerr-McGee will comply with the notification requirements of NTL-3A. Drill cuttings and/or drilling fluids will be contained in the reserve/frac pit whether a closed loop system is used or not. Cuttings will be buried in pit(s) upon closure. Unless specifically approved by the BIA, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface precipitation runoff into the pit (via appropriate placement of subsoil storage areas and/or construction of berms, ditches, etc.). Should unexpected liquid petroleum hydrocarbons (crude oil or condensate) be encountered during drilling, completions or well testing, liquid petroleum hydrocarbons will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/ sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by the BIA. Should timely removal not be feasible, the pit will be netted as soon as practical. Similarly, hydrocarbon removal will take place prior to the closure of the pit, unless authorization is provided for disposal via alternate pit closure methods (e.g. solidification).

RECEIVED: April 20, 2012

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

Where necessary and if conditions (freeboard, etc.) allow, produced liquids from newly completed wells may be temporarily disposed of into pits for a period not to exceed 90 days as per Onshore Order Number 7 (OSO 7). Subsequently, permanent approved produced water disposal methods will be employed in accordance with OSO 7 and/or as described in a Water Management Plan (WMP). Otherwise, fluids disposal locations and associated haul routes, for ROW consideration, are typically depicted on Topo A of individual projects. Revisions to the water source or method of transportation will be subject to written approval from the BIA.

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

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after one year from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse (trash and other solid waste including cans, paper, cable, etc.) generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility. Immediately after removal of the drilling rig, all debris and other waste materials not contained within trash receptacles will be collected and removed from the well location.

For the protection of livestock and wildlife, all open pits (excluding flare pits) will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet. Siphons, catchments, and absorbent pads will be installed to keep hydrocarbons produced by the drilling rig or other equipment on location from entering the reserve pit. Hydrocarbons, contaminated pads, and/or soils will be disposed of in accordance with state and federal requirements.

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

Materials Management

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

RECEIVED: April 20, 2012

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

Potentially hazardous materials used in the development or operation of wells will be kept in limited quantities on well sites and at the production facilities for short periods of time. Chemicals meeting the criteria for being an acutely hazardous material/substance or meet the quantities criteria per BLM Instruction Memorandum No. 93-344 will not be used.

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities (crude oil/condensate, produced water). They may also be kept in limited quantities on drilling sites (barite, diesel fuel, cement, cottonseed hulls etc.) for short periods of time during drilling or completion activities.

Fluids disposal and pipeline/haul routes are depicted on Topo Map A.

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

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

Or to one of the following Kerr-McGee active Salt Water Disposal (SWD) wells:

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

H. Ancillary Facilities:

ancillary facilities are

I. Well Site Layout:

The location, orientation and aerial extent of each drill pad, reserve/completion/flare pit (for closed loop or non-closed loop operations), access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure, proposed cuts and fills, and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment depending on whether a closed loop system is used. Surface distance may be less if using closed loop. But in either case, the area of disturbance will not exceed the maximum disturbance outlined in the attached exhibits.

RECEIVED: April 20, 2012

For the protection of livestock and wildlife, all open pits and cellars will be fenced to prevent wildlife or livestock entry. Total height of pit fencing will be at least 42 inches and corner posts will be cemented and/or braced in such a manner as to keep the fence tight at all times. Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

Each well will utilize either a centralized tank battery, centralized fluids management system, or have tanks installed on its pad. Production/ Produced Liquid tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks will be kept reasonably free from surface accumulations of liquid hydrocarbons. The tanks are not to be used for disposal of liquids from additional sources without prior approval of BIA.

J. Plans for Surface Reclamation:

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

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

Interim Reclamation

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

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

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

Final Reclamation

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

RECEIVED: April 20, 2012

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

Reclamation of roads will be performed at the discretion of the BIA/Tribe. All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded in accordance with the seeding specifications as proposed below in "Measures Common to Interim and Final Reclamation".

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

Measures Common to Interim and Final Reclamation

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

Seeding will occur year-round as conditions allow and will typically be accomplished through the use of a no-till rangeland style seed drill with a “picker box” in order to seed “fluffy” seed. Where drill seeding is not the preferred method, seed will be broadcast and then raked into the ground at double the rate of drill seeding. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The seed mixes will be selected from a list provided by or approved by the BIA/Tribe or a specific seed mix will be proposed by Kerr-McGee to the BIA/Tribe and used after its approval. The selected specific seed mix for each well location and road segment will be utilized while performing interim and final reclamation for each project. All seed will be certified and tags will be maintained by Kerr-McGee. Every effort will be made to obtain “cheat grass free seed”.

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

Indian Ricegrass (Nezpar)	3
Sandberg Bluegrass	0.75
Bottlebrush Squirreltail	1
Great Basin Wildrye	0.5
Crested Wheatgrass	1.5
Winterfat	0.25
Shadscale	1.5
Four-wing Saltbrush	0.75
Forage Kochia	0.25
Total	9.5

Additional soil amendments and/or stabilization may be required on sites with poor soils and/or excessive erosion potential. Where severe erosion can become a problem and/or the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. Slopes will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to: erosion control blankets, hydro-mulch, and/or bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Weed Control

Noxious weeds will be controlled in akk orihect areas un accordance with all applicable rules and regulations.

RECEIVED: April 20, 2012

K. Surface/Mineral Ownership:

Ute Indian Tribe
P.O. Box 70
988 South 7500 East Annex Building
Fort Duschesne, UT 84026
(435) 722-4307

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

L. Other Information:

Onsite Specifics:

- Entire pad to be raised to avoid drainage issues. Gravel will come from KW Gravel Pit and N&S Gravel
- Diversion ditch between corners 6, 7 and 8
- Old PA well on location
- Arch monitor during construction
- No Paleo monitor during construction

Cultural and Paleontological Resources

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

Resource Reports:

A Class I literature survey was completed in December, 2011 by Montgomery Archaeological Consultants, Inc (MOAC). For additional details please refer to report MOAC 11-406.

A paleontological reconnaissance survey was completed on July 19, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-114.

Biological field survey was completed on August 8, 16 and 17, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-565.

Proposed Action Annual Emissions Tables:

Table 1: Proposed Action Annual Emissions (tons/year)[1]

Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO_2	0.005	0.0043	0.0093
PM_{10}	1.7	0.11	1.81
$PM_{2.5}$	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

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

RECEIVED: April 20, 2012

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

Species	Proposed Action Production Emissions (ton/yr)	WRAP Phase III 2012 Uintah Basin Emission Inventory[a] (ton/yr)	Percentage of Proposed Action to WRAP Phase III
NOx	23.52	16,547	0.14%
VOC	30	127,495	0.02%

[a] http://www.wrapair.org/forums/ogwg/PhaseIII_Inventory.html Uintah Basin Data

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

Laura Abrams
Regulatory Analyst II
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6356

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.

Laura Abrams

December 15, 2011
Date

Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779

October 10, 2011

Ms. Diana Mason
Division of Oil, Gas and Mining
P.O. Box 145801
Salt Lake City, UT 84114-6100

Re: Directional Drilling R649-3-11
NBU 921-22B1CS
T9S-R21E
Section 22 NWNE (Surface and Bottom Hole)
Surface: 950' FNL, 1841' FEL
Bottom Hole: 579' FNL, 1819' FEL
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

- Kerr-McGee's NBU 921-22B1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information, Kerr-McGee Oil & Gas Onshore LP requests the permit be granted pursuant to R649-3-11.

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney

Joe Matney
Sr. Staff Landman

RECEIVED: April 20, 2012

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)

May 14, 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)		
WELL PAD - NBU 921-22K		
43-047-52550	NBU 921-22K2AS	Sec 22 T09S R21E 1748 FSL 1611 FWL
		BHL Sec 22 T09S R21E 2366 FSL 1832 FWL
43-047-52551	NBU 921-22K4CS	Sec 22 T09S R21E 1753 FSL 1640 FWL
		BHL Sec 22 T09S R21E 1576 FSL 2147 FWL
43-047-52552	NBU 921-22N1BS	Sec 22 T09S R21E 1751 FSL 1630 FWL
		BHL Sec 22 T09S R21E 1244 FSL 2147 FWL
43-047-52575	NBU 921-22F4CS	Sec 22 T09S R21E 1755 FSL 1650 FWL
		BHL Sec 22 T09S R21E 2406 FNL 2148 FWL
43-047-52576	NBU 921-22F3DS	Sec 22 T09S R21E 1747 FSL 1601 FWL
		BHL Sec 22 T09S R21E 2634 FNL 1870 FWL
43-047-52580	NBU 921-22N1CS	Sec 22 T09S R21E 1750 FSL 1620 FWL
		BHL Sec 22 T09S R21E 0912 FSL 2146 FWL
WELL PAD - NBU 921-22B		
43-047-52553	NBU 921-22G1CS	Sec 22 T09S R21E 0973 FNL 1861 FEL
		BHL Sec 22 T09S R21E 1574 FNL 1818 FEL
43-047-52554	NBU 921-22B4CS	Sec 22 T09S R21E 0965 FNL 1854 FEL
		BHL Sec 22 T09S R21E 1243 FNL 1819 FEL
43-047-52555	NBU 921-22B4BS	Sec 22 T09S R21E 0935 FNL 1828 FEL
		BHL Sec 22 T09S R21E 0911 FNL 1819 FEL
43-047-52556	NBU 921-22B1CS	Sec 22 T09S R21E 0950 FNL 1841 FEL
		BHL Sec 22 T09S R21E 0579 FNL 1819 FEL

RECEIVED: May 15, 2012

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

43-047-52557 NBU 921-22B1BS Sec 22 T09S R21E 0958 FNL 1848 FEL
BHL Sec 22 T09S R21E 0249 FNL 1819 FEL

43-047-52607 NBU 921-22A1S Sec 22 T09S R21E 0943 FNL 1835 FEL
BHL Sec 22 T09S R21E 0386 FNL 0464 FEL

WELL PAD - NBU 921-22C

43-047-52558 NBU 921-22C1BS Sec 22 T09S R21E 0691 FNL 2010 FWL
BHL Sec 22 T09S R21E 0085 FNL 2150 FWL

43-047-52567 NBU 921-22C4CS Sec 22 T09S R21E 0696 FNL 2001 FWL
BHL Sec 22 T09S R21E 1078 FNL 2149 FWL

43-047-52569 NBU 921-22F1BS Sec 22 T09S R21E 0701 FNL 1993 FWL
BHL Sec 22 T09S R21E 1410 FNL 2149 FWL

43-047-52570 NBU 921-22F1CS Sec 22 T09S R21E 0707 FNL 1984 FWL
BHL Sec 22 T09S R21E 1742 FNL 2149 FWL

43-047-52571 NBU 921-22F4BS Sec 22 T09S R21E 0712 FNL 1976 FWL
BHL Sec 22 T09S R21E 2073 FNL 2149 FWL

WELL PAD - NBU 921-22I

43-047-52560 NBU 921-22I1CS Sec 22 T09S R21E 1973 FSL 0620 FEL
BHL Sec 22 T09S R21E 2237 FSL 0494 FEL

43-047-52561 NBU 921-22I1BS Sec 22 T09S R21E 1981 FSL 0626 FEL
BHL Sec 22 T09S R21E 2569 FSL 0494 FEL

43-047-52562 NBU 921-22G4CS Sec 22 T09S R21E 2013 FSL 0650 FEL
BHL Sec 22 T09S R21E 2569 FNL 1818 FEL

43-047-52564 NBU 921-22J4CS Sec 22 T09S R21E 1989 FSL 0632 FEL
BHL Sec 22 T09S R21E 1410 FSL 1817 FEL

43-047-52565 NBU 921-22J4AS Sec 22 T09S R21E 1997 FSL 0638 FEL
BHL Sec 22 T09S R21E 1796 FSL 1580 FEL

43-047-52566 NBU 921-22J1BS Sec 22 T09S R21E 2005 FSL 0644 FEL
BHL Sec 22 T09S R21E 2405 FSL 1817 FEL

WELL PAD - NBU 921-22H

43-047-52563 NBU 921-22H4CS Sec 22 T09S R21E 2196 FNL 0627 FEL
BHL Sec 22 T09S R21E 2403 FNL 0494 FEL

43-047-52650 NBU 921-22H1CS Sec 22 T09S R21E 2179 FNL 0637 FEL
BHL Sec 22 T09S R21E 1740 FNL 0494 FEL

43-047-52651 NBU 921-22A4CS Sec 22 T09S R21E 2170 FNL 0642 FEL
BHL Sec 22 T09S R21E 1288 FNL 0504 FEL

43-047-52652 NBU 921-22A4BS Sec 22 T09S R21E 2162 FNL 0647 FEL
BHL Sec 22 T09S R21E 0670 FNL 0494 FEL

43-047-52653 NBU 921-22H4BS Sec 22 T09S R21E 2188 FNL 0632 FEL
BHL Sec 22 T09S R21E 2071 FNL 0494 FEL

RECEIVED: May 15, 2012

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 921-22E

43-047-52568 NBU 921-22E4BS Sec 22 T09S R21E 2179 FNL 0750 FWL
BHL Sec 22 T09S R21E 2239 FNL 0824 FWL

43-047-52572 NBU 921-22E1BS Sec 22 T09S R21E 2179 FNL 0720 FWL
BHL Sec 22 T09S R21E 1576 FNL 0824 FWL

43-047-52573 NBU 921-22E1CS Sec 22 T09S R21E 2179 FNL 0730 FWL
BHL Sec 22 T09S R21E 1908 FNL 0824 FWL

43-047-52574 NBU 921-22E4CS Sec 22 T09S R21E 2179 FNL 0740 FWL
BHL Sec 22 T09S R21E 2572 FNL 0824 FWL

WELL PAD - NBU 921-22L

43-047-52577 NBU 921-22K2DS Sec 22 T09S R21E 1668 FSL 0666 FWL
BHL Sec 22 T09S R21E 2038 FSL 1784 FWL

43-047-52582 NBU 921-22L1BS Sec 22 T09S R21E 1660 FSL 0648 FWL
BHL Sec 22 T09S R21E 2408 FSL 0824 FWL

43-047-52583 NBU 921-22L4BS Sec 22 T09S R21E 1672 FSL 0675 FWL
BHL Sec 22 T09S R21E 1744 FSL 0824 FWL

43-047-52585 NBU 921-22L1CS Sec 22 T09S R21E 1664 FSL 0657 FWL
BHL Sec 22 T09S R21E 2076 FSL 0824 FWL

WELL PAD - NBU 921-22O

43-047-52578 NBU 921-22O4CS Sec 22 T09S R21E 0269 FSL 1655 FEL
BHL Sec 22 T09S R21E 0086 FSL 1816 FEL

43-047-52579 NBU 921-22P4BS Sec 22 T09S R21E 0280 FSL 1606 FEL
BHL Sec 22 T09S R21E 0581 FSL 0494 FEL

43-047-52581 NBU 921-22P4CS Sec 22 T09S R21E 0278 FSL 1616 FEL
BHL Sec 22 T09S R21E 0251 FSL 0494 FEL

43-047-52590 NBU 921-22O4BS Sec 22 T09S R21E 0271 FSL 1645 FEL
BHL Sec 22 T09S R21E 0416 FSL 1816 FEL

43-047-52612 NBU 921-22O1BS Sec 22 T09S R21E 0276 FSL 1625 FEL
BHL Sec 22 T09S R21E 1079 FSL 1817 FEL

43-047-52613 NBU 921-22O1CS Sec 22 T09S R21E 0274 FSL 1635 FEL
BHL Sec 22 T09S R21E 0747 FSL 1816 FEL

WELL PAD - NBU 921-22M

43-047-52586 NBU 921-22M1BS Sec 22 T09S R21E 0695 FSL 0660 FWL
BHL Sec 22 T09S R21E 1080 FSL 0823 FWL

43-047-52587 NBU 921-22M1CS Sec 22 T09S R21E 0686 FSL 0654 FWL
BHL Sec 22 T09S R21E 0748 FSL 0823 FWL

43-047-52588 NBU 921-22M4BS Sec 22 T09S R21E 0678 FSL 0649 FWL
BHL Sec 22 T09S R21E 0416 FSL 0823 FWL

43-047-52589 NBU 921-22M4CS Sec 22 T09S R21E 0670 FSL 6043 FWL
BHL Sec 22 T09S R21E 0086 FSL 0823 FWL

RECEIVED: May 15, 2012

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

Michael L. Coulthard

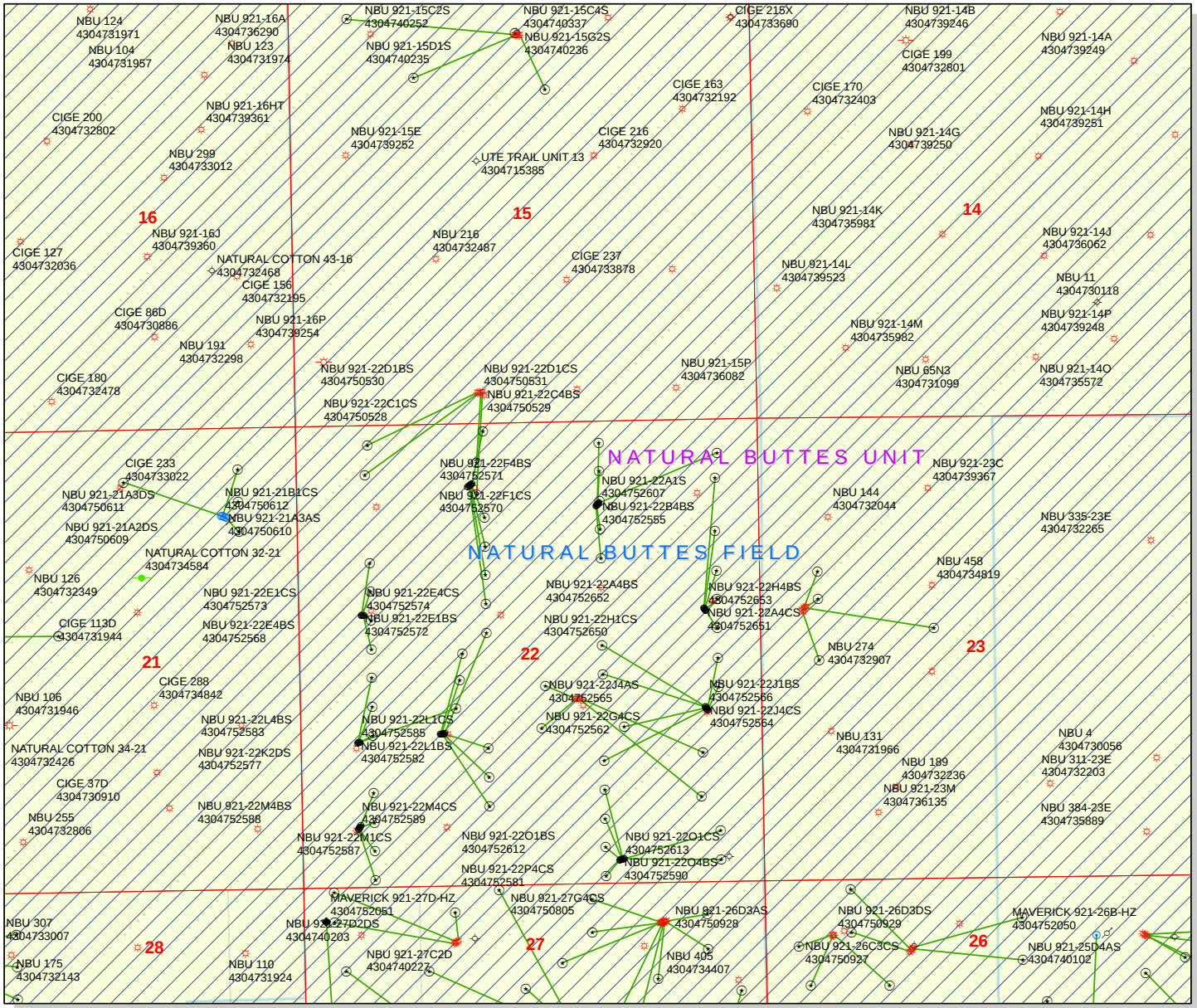
Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals, email=Michael_Coulthard@blm.gov, c=US
Date: 2012.05.15 07:17:01 -06'00'

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

MCoulthard:mc:5-14-12

RECEIVED: May 15, 2012

API Well Number: 43047525560000



API Number: 4304752556

Well Name: NBU 921-22B1CS

Township T0.9 . Range R2.1 . Section 22

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
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- 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

1,500 750 0 1,500 Feet

1:14,184

RECEIVED: May 16, 2012

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/26/2012
API NO. ASSIGNED: 43047525560000
WELL NAME: NBU 921-22B1CS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995)
PHONE NUMBER: 720 929-6356
CONTACT: Laura Abrams

PROPOSED LOCATION: NWNE 22 090S 210E
Permit Tech Review: ✔

SURFACE: 0950 FNL 1841 FEL
Engineering Review: ✔

BOTTOM: 0579 FNL 1819 FEL
Geology Review: ✔

COUNTY: UINTAH
LATITUDE: 40.02621
LONGITUDE: -109.53496
UTM SURF EASTINGS: 625010.00
NORTHINGS: 4431695.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 1 - Federal
LEASE NUMBER: UTU 010950-A
PROPOSED PRODUCING FORMATION(S): BLACKHAWK
SURFACE OWNER: 2 - Indian
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: May 30, 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 921-22B1CS
API Well Number: 43047525560000
Lease Number: UTU 010950-A
Surface Owner: INDIAN
Approval Date: 5/30/2012

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 BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

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

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

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

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

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

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

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

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

- Within 24 hours following the spudding of the well - contact Carol Daniels at 801-538-5284
  (please leave a voicemail message if not available)
  OR
  submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website
  at http://oilgas.ogm.utah.gov

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

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

Approved By:

For John Rogers
Associate Director, Oil & Gas

RECEIVED

JUN 18 2012

DIV. OF OIL, GAS & MINING

RECEIVED

JAN 10 2012

BLM VERNAL, UTAH

Form 3160-3
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU010950A

6. If Indian, Allottee or Tribe Name

1a. Type of Work: ☒ DRILL ☐ REENTER

7. If Unit or CA Agreement, Name and No.
UTU63047A

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

8. Lease Name and Well No.
NBU 921-22B1CS

2. Name of Operator
KERR MCGEE OIL&GAS ONSHORE LP
Contact: LAURA ABRAMS
E-Mail: Laura.Abrams@anadarko.com

9. API Well No.
43 047 52556

3a. Address
PO BOX 173779
DENVER, CO 80202-3779

3b. Phone No. (include area code)
Ph: 720-929-6356
Fx: 720-929-7356

10. Field and Pool, or Exploratory
NATURAL BUTTES

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

At surface NWNE 950FNL 1841FEL 40.026211 N Lat, 109.535004 W Lon

At proposed prod. zone NWNE 579FNL 1819FEL 40.027230 N Lat, 109.534929 W Lon

11. Sec., T., R., M., or Blk. and Survey or Area
Sec 22 T9S R21E Mer SLB

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 44.7 MILES SOUTH OF VERNAL, UT

12. County or Parish
UINTAH

13. State
UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any)
766'

16. No. of Acres in Lease
800.00

17. Spacing Unit dedicated to this well

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
406'

19. Proposed Depth
11149 MD
11125 TVD

20. BLM/BIA Bond No. on file
WYB000291

21. Elevations (Show whether DF, KB, RT, GL, etc.
4814 GL

22. Approximate date work will start
06/30/2012

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)
LAURA ABRAMS Ph: 720-929-6356

Date
12/15/2011

Title
REGULATORY ANALYST II

Approved by (Signature)

Name (Printed/Typed) Jerry Kenczka

Date JUN 08 2012

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.

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)

Electronic Submission #125903 verified by the BLM Well Information System
For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal

UDOGM

NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

12RRH1294AE

NO NOS ADD Posted 2/2/12

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:**	**NWNE, Sec.22,T9S R21E**
Well No:	**NBU 921-22B1CS**	**Lease No:**	**UTU-010950A**
API No:	**43-047-52556**	**Agreement:**	**Natural Buttes**

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

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	-	Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM 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 BLM Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM 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.

Site Specific COA's

- Paint facilities "Shadow Gray".

- Conduct a raptor survey prior to construction operation if such activates would take place during raptor nesting season (January 1- September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah.

- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.

- Monitor construction operation with a permitted archaeology.

- Monitor construction operation with a permitted paleontologist.

- Construct diversion ditch between corners #6, #7, and #8.

- Construct low water crossing on access road.

- Cut and bury old P&A marker.

<u>Pipeline Route from North Compressor to West Cottonwood Compressor</u>

- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.

- Monitor areas with a permitted paleontologist where pipeline travels through Sections 15, 16, 17, and 22. Monitor section 27 at the beginning of construction and spot monitor thereafter.

<u>ACTS line</u>

- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.

- Monitor areas with a permitted paleontologist where ACTS line travels through Section 15 SWSE, and Section 22 NWNE, NENW, SWSW, and SWSE.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- Gamma ray Log shall be run from Total Depth to Surface.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 40'from the well bore.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for the kill medium and will utilize a skid pump near the reserve pit to supply the water to the well bore if necessary.
- Automatic igniter. Variance granted for igniter due to there being no productive formations encountered while air drilling.
- FIT Test. Variance granted due to well-known geology and the problems that can occur with the FIT test.

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 LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**

- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.

- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:

    - Operator name, address, and telephone number.

    - Well name and number.

    - Well location (¼¼, Sec., Twn, Rng, and P.M.).

    - Date well was placed in a producing status (date of first production for which royalty will be paid).

    - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).

    - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.

    - Unit agreement and/or participating area name and number, if applicable.

    - Communitization agreement number, if applicable.

- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.

- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.

- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.

- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.

- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.

- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.

- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ✓ SPUD REPORT — Date of Spud: 7/18/2012
- ☐ 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.

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28 SACKS READY MIX. SPUD WELL LOCATION ON JULY 18, 2012 AT 15:00 HRS.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
July 20, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst

SIGNATURE	DATE
N/A	7/20/2012

RECEIVED: Jul. 20, 2012

SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
Submitted By J. Scharnowske Phone Number 720.929.6304
Well Name/Number NBU 921-22B1CS
Qtr/Qtr NWNE Section 22 Township 9S Range 21E
Lease Serial Number UTU010950A
API Number 4304752556

Spud Notice – Spud is the initial spudding of the well, not drilling out below a casing string.

Date/Time 07/18/2012 07:00 HRS AM ☐ PM ☐

Casing – Please report time casing run starts, not cementing times.

- ☑ Surface Casing
- ☐ Intermediate Casing
- ☐ Production Casing
- ☐ Liner
- ☐ Other

Date/Time 08/09/2012 08:00 HRS AM ☐ PM ☐

BOPE

- ☐ Initial BOPE test at surface casing point
- ☐ BOPE test at intermediate casing point
- ☐ 30 day BOPE test
- ☐ Other

Date/Time _____ _____ AM ☐ PM ☐

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT 435.828.0986 OR LOVEL YOUNG AT 435.781.7051

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP

Operator Account Number: N 2995

Address: P.O. Box 173779
city DENVER
state CO zip 80217

Phone Number: (720) 929-6304

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752556	NBU 921-22B1CS		NWNE	22	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/18/2012			7/31/2012	

Comments: MIRU TRIPLE A BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 07/18/2012 AT 15:00 HRS. BHL: nwne

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752607	NBU 921-22A1S		NWNE	22	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/19/2012			7/31/2012	

Comments: MIRU TRIPLE A BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 07/19/2012 AT 07:30 HRS. BHL: nene

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752555	NBU 921-22B4BS		NWNE	22	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	7/19/2012			7/31/2012	

Comments: MIRU TRIPLE A BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 07/19/2012 AT 09:30 HRS. BHL: nwne

ACTION CODES:

- **A** - Establish new entity for new well (single well only)
- **B** - Add new well to existing entity (group or unit well)
- **C** - Re-assign well from one existing entity to another existing entity
- **D** - Re-assign well from one existing entity to a new entity
- **E** - Other (Explain in 'comments' section)

JAIME SCHARNOWSKE
Name (Please Print)

Jaime Scharnowske
Signature

REGULATORY ANALYST
Title

7/20/2012
Date

RECEIVED
JUL 23 2012
Div. of Oil, Gas & Mining

(5/2000)

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 9/5/2012	☐ 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.

No Activity for the month of August 2012. Well TD at 2,895.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
September 07, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst

SIGNATURE	DATE
N/A	9/5/2012

RECEIVED: Sep. 05, 2012

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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

PHONE NUMBER: 720 929-6304

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 10/3/2012	☐ 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.

No Activity for the month of September 2012. Well TD at 2,895.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
October 11, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst

SIGNATURE	DATE
N/A	10/3/2012

RECEIVED: Oct. 03, 2012

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 11/2/2012	☐ 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.

No Activity for the month of October 2012. Well TD at 2,895.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
November 02, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II

SIGNATURE	DATE
N/A	11/2/2012

RECEIVED: Nov. 02, 2012

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 12/3/2012	☐ 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.

No Activity for the month of November 2012. Well TD at 2,895.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
December 03, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Lindsey Frazier	720 929-6857	Regulatory Analyst II

SIGNATURE	DATE
N/A	12/3/2012

RECEIVED: Dec. 03, 2012

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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

PHONE NUMBER: 720 929-6356

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 2/4/2013	☐ 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.

No Activity for the month of January 2013. Well TD at 2,917

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 08, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II

SIGNATURE	DATE
N/A	2/4/2013

RECEIVED: Feb. 04, 2013

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 2/10/2013	☐ 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.

FINISHED DRILLING TO 10,083' ON 2/8/2013. CEMENTED PRODUCTION CASING. RELEASED H&P 298 RIG ON 2/10/2013. DETAILS OF CASING AND CEMENT WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
February 14, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE N/A		**DATE** 2/12/2013

RECEIVED: Feb. 12, 2013

FEDERAL APPROVAL OF THIS ACTION IS NECESSARY

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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

PHONE NUMBER: 720 929-6356 EXT

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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: 2/6/2013	☐ 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: Multi-phase meter

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

Kerr-McGee respectfully requests the option to measure the total gas produced from the above captioned pad and allocate gas production to the individual wells on the pad based upon multi-phase flow measurement at each well and periodic well tests. The following wells are on the NBU 921-22B pad: NBU 921-22A1S, 4304752607 NBU 921-22B1BS, 4304752557 NBU 921-22B1CS, 4304752556 NBU 921-22B4BS, 4304752555 NBU 921-22B4CS, 4304752554 NBU 921-22G1CS, 4304752553 Please see the attached.

Approved by the Utah Division of Oil, Gas and Mining

Date: March 05, 2013

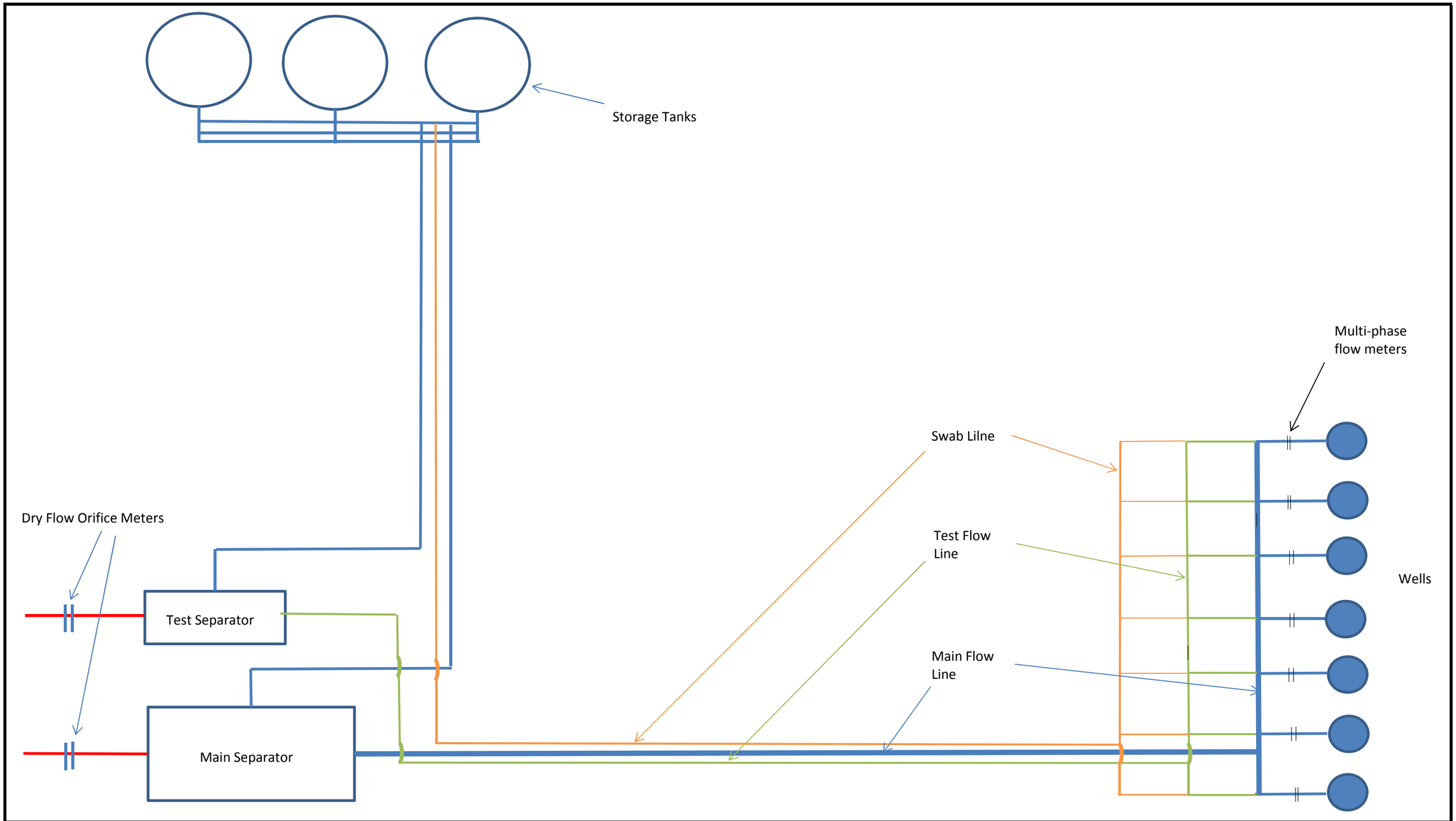
By: Dark K Quist

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Laura Abrams	720 929-6356	Regulatory Analyst II
SIGNATURE N/A		**DATE** 2/6/2013

RECEIVED: Feb. 06, 2013

The fluids from each well will be measured utilizing a multi-phase flow meter and then directed to a common separator for all wells on the pad. Liquids would be directed to tanks and the gas from all the wells measured through a calibrated orifice meter. The volume of gas measured through this meter, plus fuel gas consumed on location, will be the volume of gas that is produced from the pad. Gas volume for each individual well on the pad will be based on an allocation formula utilizing the total pad volume measured plus fuel gas consumed and the calculated volume from each well utilizing the multi-phase flow meters. The multi-phase flow meter volume calculation will be calibrated by periodic individual well tests.

RECEIVED: Feb. 06, 2013



Location Diagram with Multi-phase flow meters, main separator, test separator and associated storage tanks and flowlines.
28-Jun-12

RECEIVED: Feb. 06, 2013

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 4/4/2013	☐ 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.

No Activity for the month of March 2013. Well TD at 10,083

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
April 05, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Luke Urban	720 929-6501	Regulatory Specialist
SIGNATURE N/A		**DATE** 4/4/2013

RECEIVED: Apr. 04, 2013

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ 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
✓ DRILLING REPORT Report Date: 5/3/2013	☐ 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.

Well was completed, finishing well completion report. Well TD at 10,083.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 03, 2013

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 5/3/2013

RECEIVED: May. 03, 2013

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 010950-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: Ute In

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-22B1CS

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

9. API NUMBER: 43047525560000

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: 0950 FNL 1841 FEL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNE Section: 22 Township: 09.0S Range: 21.0E 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:
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ✓ DRILLING REPORT — Report Date: 4/30/2013

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.

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/30/2013. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
May 02, 2013

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

SIGNATURE	DATE
N/A	5/2/2013

RECEIVED: May. 02, 2013

API Well Number: 43047525560000

Form 3160-4
(August 2007)

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No. UTU010950A

1a. Type of Well ☐ Oil Well ☒ Gas Well ☐ Dry ☐ Other
b. Type of Completion ☒ New Well ☐ Work Over ☐ Deepen ☐ Plug Back ☐ Diff. Resvr.
Other _____

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No. UTU63047A

2. Name of Operator KERR MCGEE OIL&GAS ONSHORE LP
Contact: TEENA PAULO
E-Mail: teena.paulo@anadarko.com

8. Lease Name and Well No. NBU 921-22B1CS

3. Address PO BOX 173779 DENVER, CO 80217
3a. Phone No. (include area code) Ph: 720-929-6236

9. API Well No. 43-047-52556

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
At surface NWNE 950FNL 1841FEL 40.026211 N Lat, 109.535004 W Lon
At top prod interval reported below NWNE 576FNL 1830FEL
At total depth NWNE 594FNL 1799FEL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 22 T9S R21E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded 07/18/2012

15. Date T.D. Reached 02/08/2013

16. Date Completed ☐ D & A ☐ Ready to Prod. 04/30/2013

17. Elevations (DF, KB, RT, GL)* 4842 KB

18. Total Depth: MD 10083 TVD 10056

19. Plug Back T.D.: MD 10038 TVD 10011

20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each) CBL/GR/CCL/TEMP

22. Was well cored? ☒ No ☐ Yes (Submit analysis)
Was DST run? ☒ No ☐ Yes (Submit analysis)
Directional Survey? ☐ No ☒ Yes (Submit analysis)

23. Casing and Liner Record *(Report all strings set in well)*

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
11.000	8.625 IJ-55	28.0	0	2887		630		0	
7.875	4.500 I-80	11.6	0	10059		1650		1070	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9374							

25. Producing Intervals

Formation	Top	Bottom
A) WASATCH	6950	7645
B) MESAVERDE	8073	9855
C)		
D)		

26. Perforation Record

Perforated Interval	Size	No. Holes	Perf. Status
6950 TO 7645	0.360	66	OPEN
8073 TO 9855	0.360	156	OPEN

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
6950 TO 9855	PUMP 11,795 BBLS SLICK H2O & 268,785 LBS 30/50 OTTAWA SAND

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
04/30/2013	05/03/2013	24	→	0.0	2020.0	0.0			FLOWS FROM WELL

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
20/64	1696	2481.0	→	0	2020	0		PGW

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						

Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status
			→					

(See Instructions and spaces for additional data on reverse side)

ELECTRONIC SUBMISSION #208679 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas*(Sold, used for fuel, vented, etc.)*
SOLD

30. Summary of Porous Zones (Include Aquifers):

Show all important zones of porosity and contents thereof: Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top Meas. Depth
				GREEN RIVER	1549
				BIRD'S NEST	1900
				MAHOGANY	2401
				WASATCH	4987
				MESAVERDE	7922

32. Additional remarks (include plugging procedure):
The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. A DV tool was placed in the well from 4437.5 ft. - 4440.5 ft. DQX csg was run from surface to 4437.5 ft; LTC csg was run from 4437.5 ft. to 10,059 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

1. Electrical/Mechanical Logs (1 full set req'd.)
2. Geologic Report
3. DST Report
4. Directional Survey
5. Sundry Notice for plugging and cement verification
6. Core Analysis
7 Other:

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

Electronic Submission #208679 Verified by the BLM Well Information System.
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal

Name *(please print)* TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 05/28/2013

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 fradulent statements or representations as to any matter within its jurisdiction.

**** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ** ORIGINAL ****

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/26/2012	18:00 - 19:00	1.00	MIRU	01	B	P		SPOT IN RIG, CATWALK AND PIPE RACKS. RIG UP PUMP. PRIME PUMP. INSPECT RIG. SAFETY MEETING
	19:00 - 19:30	0.50	PRPSPD	06	A	P		PICK UP 12.25" BIT & 8" MUD MOTOR
	19:30 - 20:30	1.00	DRLSUR	02	B	P		DRILL 12.25" SURFACE HOLE F/ 44'- 210' ROP= 166' @ 166 FPH WOB= 5/15K RPM= 45- POWERHEAD /// 79- MUD MOTOR UP/DN/RT= 37/33/34 SPP- ON/OFF= 800/400 M.W. 8.4# VIS 27 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF=2600/1000 NOV - ONLINE
	20:30 - 21:00	0.50	DRLSUR	06	A	P		TOOH & LAY DOWN 12.25" BIT
	21:00 - 22:00	1.00	DRLSUR	06	A	P		PICK UP 11" BIT, DIR. TOOLS, SCRIBE & TIH
	22:00 - 0:00	2.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 210'- 520' ROP= 310' @ 155 FPH WOB= 18/20K RPM= 50- POWERHEAD /// 79- MUD MOTOR UP/DN/RT= 50/40/48 ~ 2K DRAG SPP- ON/OFF=1100/900 M.W. 8.4# VIS 28 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF= 3000/2400 HOLE IN GOOD SHAPE 2.7' ABOVE & .5' LEFT OF TARGET LINE 57' / 10% SLIDE NOV - ONLINE 100% RETURNS
8/27/2012	0:00 - 5:00	5.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 520'-1240' ROP= 720' @ 144 FPH WOB= 18/20K RPM= 50- POWERHEAD /// 79- MUD MOTOR UP/DN/RT= 60/50/55 ~ 5K DRAG SPP- ON/OFF=1300/1100 M.W. 8.4# VIS 28 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF= 3000/2400 HOLE IN GOOD SHAPE 2' ABOVE & .5' RIGHT OF TARGET LINE 148' / 13.5% SLIDE NOV - ONLINE 100% RETURNS

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	5:00 - 12:00	7.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 1240'-2024' ROP=784' @ 112 FPH WOB= 18/20K RPM= 50- POWERHEAD /// 79- MUD MOTOR UP/DN/RT=82/65/74 ~ 8K DRAG SPP- ON/OFF=1300/1050 M.W. 8.4# VIS 28 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF= 3000/2400 HOLE IN GOOD SHAPE 11' ABOVE & 2' LEFT OF TARGET LINE 234' / 12.5% SLIDE NOV - ONLINE 100% RETURNS
	12:00 - 16:00	4.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 2024'-2350' ROP= 326' @ 81 FPH WOB= 18/20K RPM= 50- POWERHEAD /// 79- MUD MOTOR UP/DN/RT= 83/64/75 ~ 8K DRAG SPP- ON/OFF=1600/1450 M.W. 8.4# VIS 28 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF= 3000/2400 HOLE IN GOOD SHAPE 10.5' above & 3' LEFT OF TARGET LINE 279' / 11.8% SLIDE NOV - ONLINE 100% RETURNS
	16:00 - 23:00	7.00	DRLSUR	02	D	P		DRILL 11" SURFACE HOLE F/ 2350'-2895' ROP= 545' @ 78 FPH WOB= 18/20K RPM= 50- POWERHEAD /// 79- MUD MOTOR UP/DN/RT= 94/71/80~ 14K DRAG SPP- ON/OFF=1600/1450 M.W. 8.4# VIS 28 465 GPM PUMP RATE /// NO AIR TORQUE- ON/OFF= 3000/2400 HOLE IN GOOD SHAPE 3' ABOVE & 2' LEFT OF TARGET LINE 342' / 12.3% SLIDE NOV - ONLINE 100% RETURNS
	23:00 - 0:00	1.00	DRLSUR	05	A	P		CIRCULATE & CONDITION HOLE F/ 8-5/8" SURFACE CSG
8/28/2012	0:00 - 1:00	1.00	DRLSUR	05	A	P		CIRCULATE & CONDITION HOLE FOR 8-5/8" SURFACE CSG
	1:00 - 4:00	3.00	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR. TOOLS
	4:00 - 5:00	1.00	CSGSUR	12	A	P		MOVE PIPE RACKS AND CATWALK. PULL DIVERTER HEAD. RIG UP TO RUN CSG. MOVE CSG INTO POSITION TO P/U
	5:00 - 7:00	2.00	CSGSUR	12	C	P		PJSM /// RUN 65 JT'S, 8-5/8", 28#, J-55, LT&C CSG /// SHOE SET @ 2864' & BAFFLE @ 2818'
	7:00 - 7:30	0.50	CSGSUR	12	B	P		PJSM /// CIRCULATE CSG /// RUN 200' OF 1" DOWN BACK SIDE /// RIG DOWN CARRIER & MOVE RIG OFF WELL /// INSTALL CEMENT HEAD IN CSG

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:30 - 10:00	2.50	CSGSUR	12	E	P		RIG UP PRO PETRO PUMP TRUCK /// LOAD PLUG /// TEST LINES TO 2000 PSI. /// PUMP 165 BBLS WATER FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 280sx CLASS G CMT @ 12.0 WT & 2.86 YIELD /// TAIL = 200sx OF 15.8 WT & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 175 BBLS WATER /// PLUG DOWN @ 09:20 08/28/2012 /// BUMP PLUG @ 1050 PSI /// FINAL LIFT = 750 PSI. /// CHECK FLOAT - HELD W/ 1 BBL BACK /// FULL RETURNS THROUGH OUT JOB /// 22 BBLS CMT TO SURFACE /// PUMP 120 SX 15.8# CMT W/4% CALCIUM DOWN 1". /// CEMENT TO SURFACE BUT FELL BACK
	10:00 - 11:30	1.50	CSGSUR	12	E	P		WOC /// PUMP 2nd TOP OUT W/ 30 sx CLASS G CMT @ 15.8 WT & 1.15 YIELD /// CEMENT TO SURFACE & STAYED
	11:30 - 12:00	0.50	CSGSUR	12	B	P		WASH OUT PUMP TRUCK & RIG DOWN CEMENT CREW /// RELEASE RIG @ 12:00 08/28/2012 TO NBU 921-22A1S
2/5/2013	0:00 - 1:30	1.50	RDMO	01	C	P		PREPARE & SKID RIG
	1:30 - 2:30	1.00	RDMO	01	B	P		RIG UP ROTARY TOOLS
	2:30 - 3:00	0.50	PRPSPD	14	A	P		NIPPLE UP BOP'S & EQUIPMENT
	3:00 - 7:00	4.00	PRPSPD	15	A	P		TEST BOP'S & EQUIPMENT AS PER PROGRAM 250/5000 PSI / ANNULAR 250/ 2500
	7:00 - 8:00	1.00	PRPSPD	15	A	P		TEST MI SWACO PRESSURE CONTROL EQUIPMENT
	8:00 - 8:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	8:30 - 10:30	2.00	PRPSPD	06	A	P		PICK UP & MAKE UP DIRECTIONAL BHA WITH WEATHERFORD SCRIBE ,ORIENTATE &TEST SAME
	10:30 - 12:00	1.50	PRPSPD	07	B	P		LEVEL DERRICK , SERVICE RIG & HOLD PRE JOB SPUD MEETING & SAFETY CHECK
	12:00 - 14:30	2.50	PRPSPD	06	A	P		CONTINUE TO TRIP IN HOLE TO 2,741' TAG CEMENT
	14:30 - 16:00	1.50	DRLPRC	02	F	P		DRILL OUT CEMENT & SHOE TRACK FROM 2,741' TO 2,886' CLEAN OUT RAT HOLE TO 2,917'
	16:00 - 0:00	8.00	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 2,917' TO 4,235 = 1,318=165 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2,120/ 1,800 TORQUE ON/OFF BTM 7,000/ 4,000 PICK UP WT 123,000 SLACK OFF WT 105,000 ROT WT 114,000 SLIDE 78' IN 55 MIN 5.90% OF FOOTAGE DRILLED, 11.46 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.4 VIS 26 NOV-D WATER SWACO OFF LINE

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/6/2013	0:00 - 15:00	15.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/4,235' TO 6,398 = 2,163' =144.20 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 110 / 123 PUMPS 130 SPM= 495 / 585 GPM PUMP PRESSURE ON/OFF BTM 2,235/ 1,969 TORQUE ON/OFF BTM 10,000/ 4,000 PICK UP WT 165,000 SLACK OFF WT 134,000 ROT WT 148,000 SLIDE 115' IN 100 MIN 5.30% OF FOOTAGE DRILLED, 11.11 %OF HRS DRILLED LOST TOTAL RETURNS @ 6,086' 50 BBLS 425 BBL FLUID LOST TOTAL PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.4 VIS 26 NOV-D WATER SWACO OFF LINE
	15:00 - 15:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 6,398'
	15:30 - 0:00	8.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 6,398' TO 7,178' = 780=91.76 FPH WOB 18,000-23,000 TOP DRIVE RPM 45-75 MUD MOTOR RPM 123 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2,275/ 1,970 TORQUE ON/OFF BTM 10,000/ 8,000 PICK UP WT 186,000 SLACK OFF WT 143,000 ROT WT 160,000 SLIDE 20' IN 15 MIN 2.58% OF FOOTAGE DRILLED, 2.78 %OF HRS DRILLED 175 BBL FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-5% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 26 NOV-D WATER SWACO OFF LINE

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/7/2013	0:00 - 15:00	15.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,178' TO 8,283' = 1,105 = 73.66 FPH WOB 20,000-25,000 TOP DRIVE RPM 45-75 MUD MOTOR RPM 104 / 123 PUMPS 110 / 130 SPM= 495 / 585 GPM PUMP PRESSURE ON/OFF BTM 2,075/ 1,600 TORQUE ON/OFF BTM 12,000/ 8,000 PICK UP WT 200,000 SLACK OFF WT 162,000 ROT WT 183,000 SLIDE 65' IN 185 MIN 5.84% OF FOOTAGE DRILLED,21.26 %OF HRS DRILLED 100 BBL FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-5% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 26 NOV-D WATER SWACO OFF LINE
	15:00 - 15:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 8,283'
	15:30 - 0:00	8.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 8,283' TO 9,176' = 893 = 105 FPH WOB 22,000-26,000 TOP DRIVE RPM 40-55 MUD MOTOR RPM 104 PUMPS 110 SPM= 495GPM PUMP PRESSURE ON/OFF BTM 2010/1650 TORQUE ON/OFF BTM 12,000/ 9,000 PICK UP WT 222,000 SLACK OFF WT 173,000 ROT WT 196,000 SLIDE 20' IN 30 MIN 2.24% OF FOOTAGE DRILLED,5.66 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-5% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 26 NOV-D WATER SWACO OFF LINE

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
2/8/2013	0:00 - 15:00	15.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,176' TO 10,083' TD= 907' = 60.46 FPH WOB 23,000-28,000 TOP DRIVE RPM 40-65 MUD MOTOR RPM 104 PUMPS 110 SPM= 495GPM PUMP PRESSURE ON/OFF BTM 2150/1850 TORQUE ON/OFF BTM 12,000/ 9,000 PICK UP WT 237,000 SLACK OFF WT 192,000 ROT WT 209,000 NO SLIDES 100 BBL FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-5% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 26 NOV-D WATER SWACO ON LINE FULL OPEN CHOKE 10 TO 30' FLARE START DISPLACING WELL WITH 10.5 PPG MUD 15% LCM NOTE: UNABLE TO GET BIT TO DRILL@ 10,083' MUD MOTOR SPIKING & STACKING WT OUT ON STRING - 26' FROM PLANNED TD @ 10,109'
	15:00 - 19:00	4.00	DRLPRV	05	B	P		CIRC & CONDITION MUD @ 10,083' TD
	19:00 - 22:00	3.00	DRLPRV	06	E	P		20 STD WIPER TRIP - OK
	22:00 - 0:00	2.00	DRLPRV	05	A	P		CIRC & CONDITION MUD FOR TOOH @ 10,083',PUMP & SPOT 90 BBL 12.5 PPG 10% LCM PILL ON BOTTOM
2/9/2013	0:00 - 8:00	8.00	DRLPRV	06	A	P		TOOH FROM 10,083' TO BIT
	8:00 - 8:30	0.50	DRLPRV	14	B	P		PULL WEAR BUSHING
	8:30 - 10:00	1.50	CSGPRO	12	A	P		PJSM RIG UP FRANKS CASING EQUIPMENT
	10:00 - 19:00	9.00	CSGPRO	12	C	P		RUN 4 1/2" CASING TO 6,700'
	19:00 - 20:30	1.50	CSGPRO	22	L	Z		TROUBLE SHOOT FRANKS TORQUE TURN ELECTRICAL INTERFERENCE, MEANWHILE CIRCULATE
	20:30 - 23:00	2.50	CSGPRO	12	C	P		CONTINUE TO RUN 4 1/2" CASING FROM 6,700' TO 10,059.09 /LAND CASING WITH 100K / FLOAT @ 10,013.20 / M Verde Marker @ 7,911.15 / DV TOOL @ 4,414.55 / X-O @ 4,411.55 (WASHED THROUGH BRIDGE @ 4,507') NO OTHER HOLE PROBLEMS
	23:00 - 0:00	1.00	CSGPRO	05	A	P		CIRCULATE & CLEAN HOLE , MEANWHILE RIG DOWN FRANKS CASING EQUIPMENT & HOLD PJSM WITH BJ CEMENTERS
2/10/2013	0:00 - 1:00	1.00	CSGPRO	05	A	P		CONTINUE TO CIRCULATE, MEANWHILE HOLD PRE JOB SAFETY MEETING WITH BJ CEMENTERS

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: PROPETRO 11/11, H&P 298/298
Event: DRILLING	Start Date: 8/2/2012	End Date: 2/10/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	1:00 - 3:30	2.50	CSGPRO	12	E	P		RIG UP BJ CEMENTERS / PRESSURE TEST TO 6,500 PSI / PUMP 1ST STAGE OF CEMENT / 25 BBLS WATER SPACER /PUMP TAIL CEMENT 1,105 SKS - 14.3 PPG - 1.33 YIELD / (262 BBL) / DROP PLUG, DISPLACE,W/ 95 BBLS WATER , 61 BBLS 11.4 PPG MUD / PLUG DOWN @ 03:10 HRS LIFT PRESSURE @ 1,950 BUMP PRESS @ 2,550/FLOATS OK / 1.5 BBL MUD BACK TO INVENTORY / CONTINUE TO PUMP PRESSURE UP TO 3700 PSI OPEN HYDRAULIC DV TOOL NO CEMENT BACK TO SURFACE / GOOD RETURNS THROUGH OUT JOB
	3:30 - 8:30	5.00	CSGPRO	13	A	P		CIRCULATE WITH RIG PUMP @ 5 BPM, MEANWHILE WAIT ON CEMENT
	8:30 - 11:00	2.50	CSGPRO	12	E	P		CEMENT 2ND STAGE PUMP 25 BBLS WATER SPACER,495 SACKS LEAD @ 12.0 PPG / 2.30 YIELD (202BBLS) TAIL 50 SACKS (10 BBLS)@ 15.8 PPG /1.16 YIELD DROP PLUG DISPLACE W/ 68 BBLS WATER,PLUG DOWN @ 10:33 HRS,LIFT PRESSURE @ 1200 PSI / BUMP PRESS @ 3100, FLOATS HELD W/ 1 BBL RETURNED TO INVENTORY / DV TOOL CLOSED / 35 BBL CEMENT TO SURFACE / GOOD RETURNS THROUGH OUT JOB / RIG DOWN BJ CEMENTERS
	11:00 - 13:30	2.50	CSGPRO	14	B	P		FLUSH & BLOW DOWN SURFACE EQUIPMENT,SET PACK OFF / LD RUNNING TOOL
	13:30 - 14:00	0.50	CSGPRO	12	A	P		CHANGE OUT CASING BAILS TO DRILLING BAILS
	14:00 - 15:30	1.50	CSGPRO	14	B	P		NIPPLE DOWN BOP'S / RELEASE RIG @ 2/10/13 15:30

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-22B1CS (GREEN)	Wellbore No.	OH
Well Name	NBU 921-22B1CS	Wellbore Name	NBU 921-22B1CS
Report No.	1	Report Date	4/15/2013
Project	UTAH-UINTAH	Site	NBU 921-22B PAD
Rig Name/No.		Event	COMPLETION
Start Date	3/12/2013	End Date	4/30/2013
Spud Date	8/26/2012	Active Datum	RKB @4,842.00usft (above Mean Sea Level)
UWI	NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type		Fluid Density	
Surface Press		Estimate Res Press	
TVD Fluid Top		Fluid Head	
Hydrostatic Press		Press Difference	
Balance Cond	NEUTRAL		

1.5 Summary

Gross Interval	6,950.0 (usft)-9,855.0 (usft	Start Date/Time	4/15/2013 12:00AM
No. of Intervals	71	End Date/Time	4/15/2013 12:00AM
Total Shots	222	Net Perforation Interval	74.00 (usft)
Avg Shot Density	3.00 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/15/2013 12:00AM	WASATCH/			6,950.0	6,951.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/15/2013 12:00AM	WASATCH/			6,959.0	6,960.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,096.0	7,097.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,116.0	7,117.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,156.0	7,157.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,171.0	7,173.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,239.0	7,240.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,260.0	7,261.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,271.0	7,272.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,281.0	7,282.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,352.0	7,353.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,362.0	7,363.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,372.0	7,373.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,386.0	7,387.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,458.0	7,459.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,498.0	7,499.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,524.0	7,525.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,536.0	7,537.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,554.0	7,555.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,616.0	7,617.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	WASATCH/			7,644.0	7,645.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,073.0	8,074.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/15/2013 12:00AM	MESAVERDE/			8,090.0	8,091.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,165.0	8,166.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,171.0	8,172.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,192.0	8,193.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,213.0	8,214.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,239.0	8,240.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,313.0	8,314.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,327.0	8,328.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,427.0	8,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,508.0	8,509.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,528.0	8,529.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,540.0	8,542.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,725.0	8,726.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,752.0	8,753.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,767.0	8,768.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,778.0	8,779.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,826.0	8,827.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,847.0	8,848.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,888.0	8,890.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,968.0	8,969.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			8,992.0	8,993.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/15/2013 12:00AM	MESAVERDE/			9,004.0	9,005.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,024.0	9,025.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,040.0	9,041.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,098.0	9,099.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,152.0	9,153.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,195.0	9,196.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,202.0	9,203.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,217.0	9,218.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,240.0	9,241.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,297.0	9,298.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,308.0	9,309.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,331.0	9,332.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,346.0	9,347.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,408.0	9,409.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,424.0	9,425.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,462.0	9,463.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,484.0	9,485.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,514.0	9,515.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,526.0	9,527.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,561.0	9,562.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,609.0	9,610.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

RECEIVED: May. 28, 2013

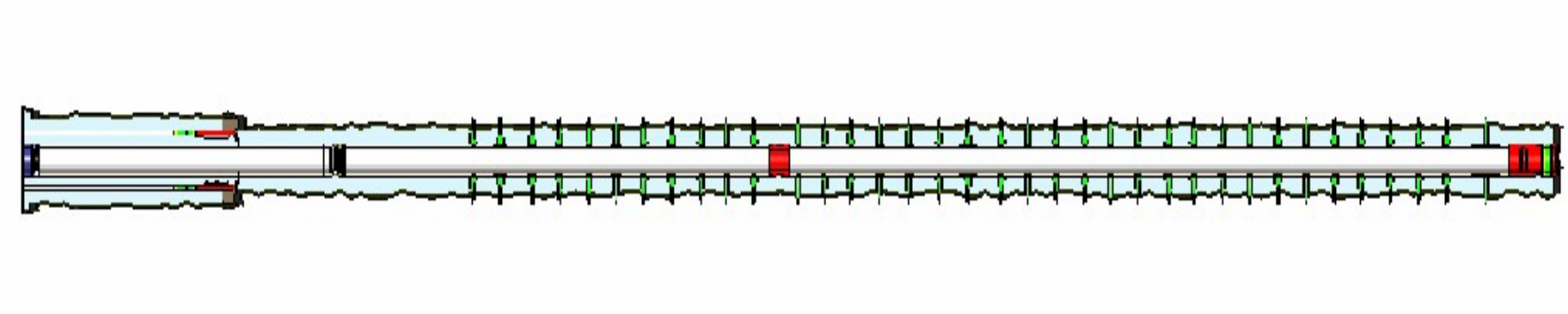
API Well Number: 43047525560000

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/15/2013 12:00AM	MESAVERDE/			9,682.0	9,683.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,727.0	9,728.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,762.0	9,763.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,782.0	9,783.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,821.0	9,822.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,846.0	9,847.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
4/15/2013 12:00AM	MESAVERDE/			9,854.0	9,855.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



RECEIVED: May. 28, 2013

API Well Number: 43047525560000

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 3/12/2013	End Date: 4/30/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/6/2013	11:30 - 12:30	1.00	SUBSPR	52	E	P		REMOVE POP-OFF ASSEMBLY. FILL SURFACE CSG W/2 BBLS BRINE. ATTM T/ EST INJT RT. PSI T/ 1500 PSI. BLED DOWN T/ 1300 PSI. TRYED 3 TIMES. COULD NOT EST INJT RT. BLEED OFF PSI. REINSTALL POP-OFF ASSEMBLY.
3/12/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= DRILLING
	7:15 - 17:00	9.75	SUBSPR	30		P		PU 3-7/8" MILL TALLY & PU TUBING RIH TAG TOC @ 4350' RU DRILLING EQUIP EST REV CIRC C/O & DRILL TO DV TOOL @ 4437' DRILL THRU DV TOOL CIRC CLEAN CONTINUE TO RIH TAG @ 9990' RU DRILLING EQUIP EST REV CIRC C/O TO 10000' CIRC W/ 140 BBLS CLEAN TMAC RD DRILLING EQUIP POOH LD 30 JNTS SIW SDFN
3/13/2013	7:00 - 7:15	0.25	SUBSPR	48		P		JSA= PINCH POINTS
	7:15 - 17:00	9.75	SUBSPR	30		P		CONTINUE TO POOH LD TUBING LD MILL RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD RD RIG MOVE TO NBU 921-22B1BS PRTEP TO PU TUBING
3/19/2013	-							
3/22/2013	11:00 - 12:00	1.00	SUBSPR	33	C	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 55 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 500 PSI HELD FOR 5 MIN LOST -252 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN
4/9/2013	11:00 - 11:45	0.75	SUBSPR	33	C	P		PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 7000 PSI. HELD FOR 15 MIN LOST 42 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI.
4/12/2013	7:00 - 7:15	0.25	SUBSPR	48		P		HSM, RIGGING UP
	7:15 - 7:15	0.00	SUBSPR	37	B	P		MIRU CASED HOLE SOLUTION, 1ST SHOOT MESA VERDE , STG #1 AS DESIGN
4/15/2013	7:00 - 7:15	0.25	FRAC	48		P		HSM, WORKING AROUND TRACER

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 3/12/2013	End Date: 4/30/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:30	10.25	FRAC	36	B	P		REFER TO STIMULATION PJR FOR FLUID, SAND AND CHEMICAL VOLUMES, ALL STAGES WERE PERFORATED ACCORDING TO PERF RECORD IN OPEN WELLS, ALL STAGES WERE STIMULATED TO VENDOR POST JOB REPORT. ALL PLUGS ARE HALIBURTON 8K CBPS FRAC STG #1] WHP=1,675#, BRK DN PERFS=3,661#, @=4.9 BPM, INTIAL ISIP=2,829#, FG=.73, FINAL ISIP=3,108#, FG=.76, SET PLUG & PERFORATE STG #2 SWIFN.
4/16/2013	6:30 - 6:45	0.25	FRAC	48		P		HSM, OPENING & CLOSING VALVES
	6:45 - 17:30	10.75	FRAC	36	B	P		11FRAC STG #2] WHP=2,330#, BRK DN PERFS=3,802#, @=4.8 BPM, INTIAL ISIP=2,796#, FG=.73, FINAL ISIP=3,227#, FG=.76, SET PLUG & PERFORATE STG #3 FRAC STG #3] WHP=2,550#, BRK DN PERFS=3,588#, @=5.1 BPM, INTIAL ISIP=2,790#, FG=.74, FINAL ISIP=3,289#, FG=.79, SET PLUG & PERFORATE STG #4 FRAC STG #4] WHP=2,611#, BRK DN PERFS=3,186#, @=7.2 BPM, INTIAL ISIP=2,684#, FG=.73, FINAL ISIP=3,066#, FG=.78, SWIFN.
4/17/2013	14:00 - 17:00	3.00	FRAC	36	B	P		SET PLUG AND PERFORATE STG #5 FRAC STG #5] WHP=2,282#, BRK DN PERFS=3,389#, @=4.7 BPM, INTIAL ISIP=2,750#, FG=.75, FINAL ISIP=3,286#, FG=.81, SET PLUG AND PERFORATE STG #6 SWIFN.
4/18/2013	6:15 - 6:30	0.25	FRAC	48		P		HSM, PINCH POINTS
	6:30 - 17:30	11.00	FRAC	36	B	P		FRAC STG #6] WHP=1,700#, BRK DN PERFS=3,311#, @=4.8 BPM, INTIAL ISIP=2,159#, FG=.69, FINAL ISIP=2,697#, FG=.76, SET PLUUG AND PERFORATE STG #7 FRAC STG #7] WHP=1,950#, BRK DN PERFS=2,248#, @=4.7 BPM, INTIAL ISIP=1,957#, FG=.68, FINAL ISIP=2,461#, FG=.74, SET PLUG AND PERFORATE STG #8 FRAC STG #8] WHP=830#, BRK DN PERFS=2,70#, @=4.9 BPM, INTIAL ISIP=2,263#, FG=.74, FINAL ISIP=2,474#, FG=.77, SWIFN

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 3/12/2013	End Date: 4/30/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/19/2013	6:45 - 7:00	0.25	FRAC	48		P		HSM, RIGGING DOWN
	7:00 - 15:00	8.00	FRAC	36	B	P		SET PLUG AND PERFORATE STG #9 FRAC STG #9] WHP=648#, BRK DN PERFS=3,499#, @=5.4 BPM, INTIAL ISIP=1,816#, FG=.69, FINAL ISIP=2,276#, FG=.75, SET PLUG AND PERFORATE STG #10 FRAC STG #10] WHP=1,694#, BRK DN PERFS=3,783#, @=5 BPM, INTIAL ISIP=2,242#, FG=.76, FINAL ISIP=1,974#, FG=.73, SET TOP KILL TOTAL BBLS=11,795 TOTAL SAND=268,785#
4/29/2013	7:00 - 7:15	0.25	DRLOUT	48		P		SAFETY JSA
	7:15 - 11:00	3.75	DRLOUT	31	I	P		MAKE UP BHA TALLY, PU & RIH WITH 150 JTS 2-3/8" 8RD J-55 TBG, 6' L-80 PUP JT & 67 JTS OF 2-3/8" 8RD L-80 TBG. TAGGED FILL ON KILL PLUG @ 6886' 15' OF FILL. KILL PLUG SET @ 6901' PSI TEST BOP TO 3000#. TEST GOOD. BLED OF PSI TO PIT, RU PWR SWVL, BREAK CIRC, D/O PLUGS.

RECEIVED: May. 28, 2013

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-22B1CS (GREEN)	Spud Date: 8/26/2012	
Project: UTAH-UINTAH	Site: NBU 921-22B PAD	Rig Name No: GWS 1/1
Event: COMPLETION	Start Date: 3/12/2013	End Date: 4/30/2013
Active Datum: RKB @4,842.00usft (above Mean Sea Level)	UWI: NW/NE/0/9/S/21/E/22/0/0/26/PM/N/950/E/0/1841/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:00 - 18:00	7.00	DRLOUT	31	I	P		1ST CBP- TAG SAND @ 6886' = 15' SAND. DRL OUT CBP @ 6900' IN 5 MIN. 100 PSI. CONT RIH. 2ND CBP- TAG SAND @ 7173' = 30' SAND. DRL OUT CBP @ 7203' IN 5 MIN. 200 PSI. CONT RIH 3RD CBP- TAG SAND @ 7370' = 50' SAND. DRL OUT CBP @ 7417' IN 5 MIN. 200 PSI. CONT RIH. 4TH CBP- TAG SAND @ 7522' = 50' SAND. DRL OUT CBP @ 7675' IN 5 MIN. 800 PSI. CONT RIH. 5TH CBP- TAG SAND @ 8238' = 30' SAND. DRL OUT CBP @ 8270' IN 5 MIN. 400 PSI. CONT RIH. 6TH CBP- TAG SAND @ 8542' = 30' SAND. DRL OUT CBP @ 8572' IN 5 MIN. 800 PSI. CONT RIH. 7THCBP- TAG SAND @ 8890' = 30' SAND. DRL OUT CBP @ 8920' IN 5 MIN. 900PSI. CONT RIH. 8TH CBP- TAG SAND @ 9150' = 30' SAND. DRL OUT CBP @ 9173' IN 5 MIN. 500 PSI. CONT RIH. 9TH CBP- TAG SAND @ 9347' = 30' SAND. DRL OUT CBP @ 9377' IN 5 MIN. 500 PSI. CONT RIH. 10TH CBP- TAG SAND @ 9610' = 30' SAND. DRL OUT CBP @ 9640' IN 5 MIN. . CONT RIH. CO TO PBTD @ 10038'. CIRC. WELL. RD PWR SWVL. POOH W/ 20 JTS L-80 ONTO TBG TRAILER. P/U TBG HANGER AND LAND TBG W 145 JTS L-80 6' PUP & 150 JTS J-55 TBG. EOT @ 9373.77' KB= 26.00 TBG HANGER= .83 TBG DELIVERED 150 JTS J-55 L-80 145 JTS= 4604.55 TBG DELIVERED 165 JTS L-80 PUP JT= 6.12 TOTAL 315 JTS J-55 150 JTS= 4734.02 TBG USED 295 JTS J-55 & L-80 EOT= 9373.77 TBG TRURNED 20 JTS L-80 TWTR= 11,795 BBLS TWR= 2,100 BBLS TWLTR= 9,695 BBLS
4/30/2013	6:45 - 7:00	0.25	DRLOUT	48		P		SAFETY MEETING JSA
	7:00 - 8:00	1.00	FLOWBK	50	A	P		SITP= SICP= PUMP OF THE BIT SUB TURN OVER TOFLOWBACK CREW AND ON SALES
	8:00 - 9:00	1.00	SURFPR	30	C	P		RD MOVE OVER TO NBU 921-22A1S
	9:00 - 9:00	0.00	SURFPR	50				WELL TURNED TO SALES @ 800 HR ON 4/30/2013. 1130 MCFD, 1920 BWPD, FCP 2975#, FTP 2000#, 20/64" CK.

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-22B PAD
Well: NBU 921-22B1CS
Wellbore: Wellbore #1
Section: SW ¼ NE ¼ Sec.22-T9S-R21E
SHL: 950' FNL 1841' FEL
Design: PLAN 1
Latitude: 40.026247
Longitude: -109.534316
GL: 4816.00
KB: 26' RKB+4816' GL @ 4842.00ft (H&P 298)

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1549.00	1559.74	GREEN RIVER
1900.00	1915.04	BIRDS NEST
2401.00	2421.28	MAHOGANY MARKER
4934.00	4960.92	WASATCH
5534.00	5560.93	TOP OF CYLINDER
7866.00	7892.95	MESAVERDE
10081.00	10107.97	SEGO

Weatherford®

WELL DETAILS: NBU 921-22B1CS

Ground Level: 4816.00

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Slot
0.00	0.00	14538977.61	2050744.28	40.026247	-109.534316	

CASING DETAILS

TVD	MD	Name	Size
2840.43	2864.62	8 5/8"	8-5/8

T M

Azimuths to True North
Magnetic North: 10.90°

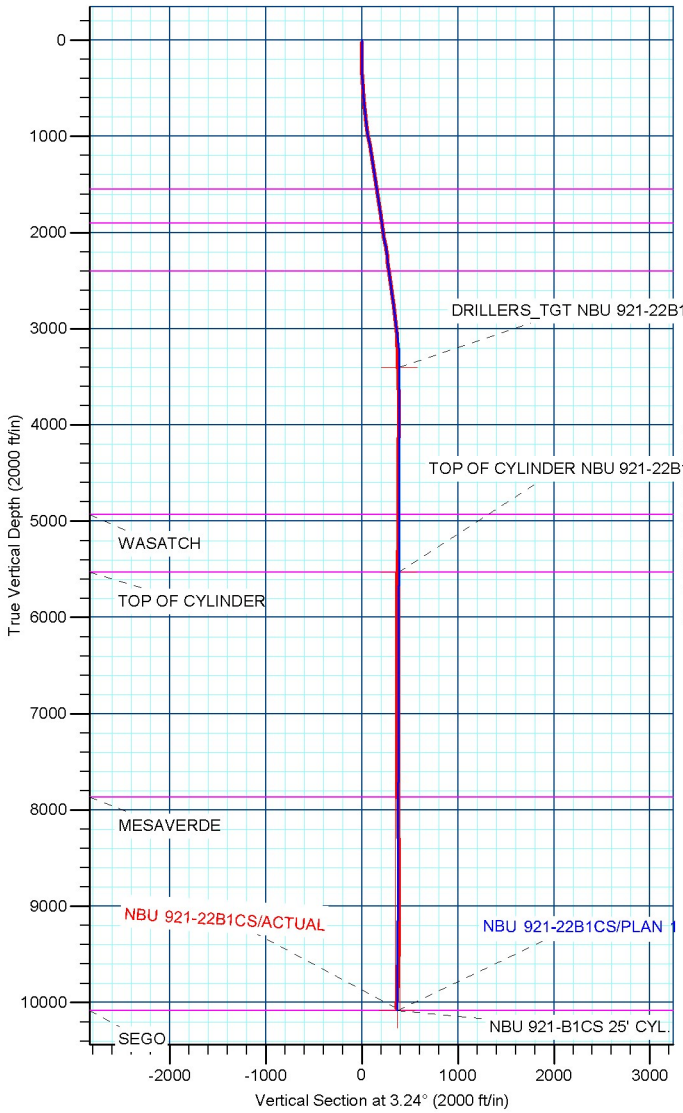
Magnetic Field
Strength: 52189.0snT
Dip Angle: 65.84°
Date: 12/20/2012
Model: IGRF2010

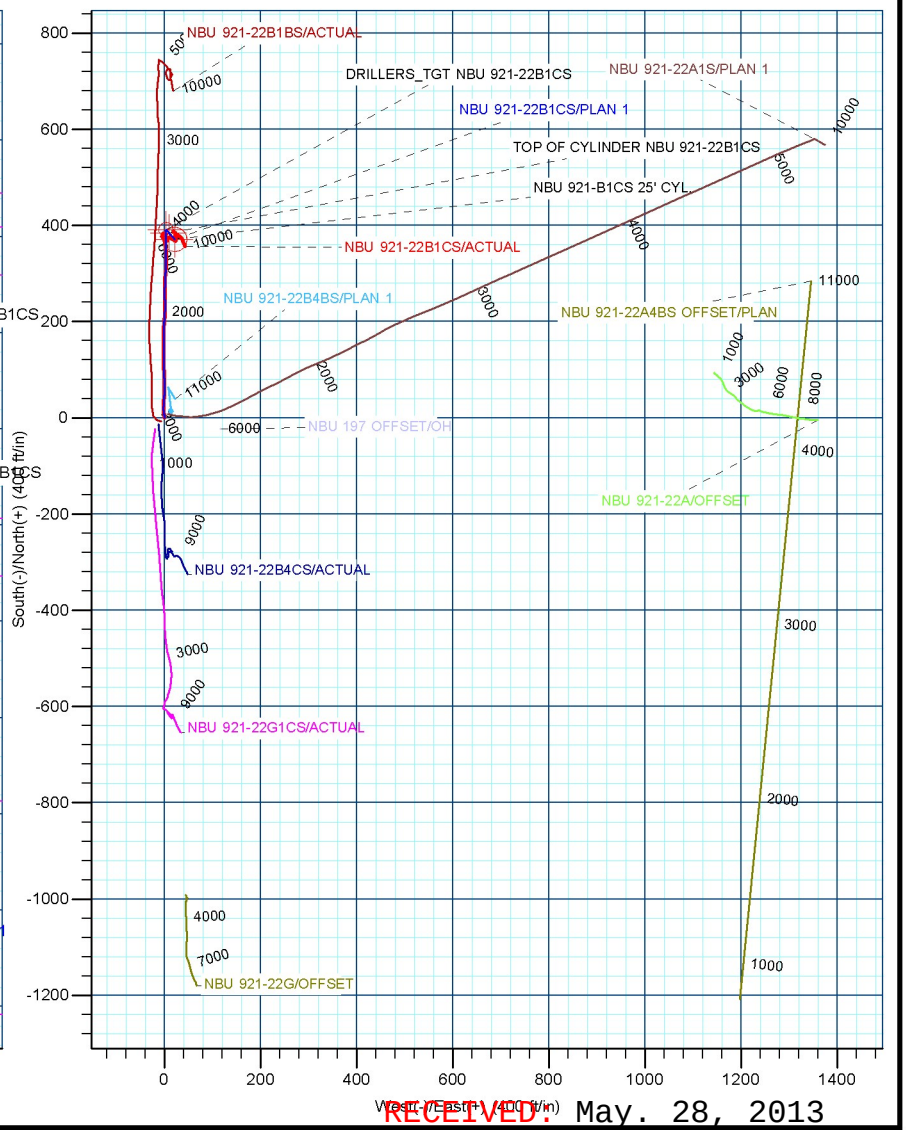
DESIGN TARGET DETAILS

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
DRILLERS_TGT NBU 921-22B1CS	3402.09	391.15	2.63	14539368.74	2050740.47	40.027321	-109.534307	Circle (Radius: 15.00)
TOP OF CYLINDER NBU 921-22B1CS	5534.00	384.72	8.42	14539362.41	2050746.36	40.027303	-109.534286	Point
NBU 921-B1CS 25' CYL.	10081.00	370.76	21.00	14539348.66	2050759.17	40.027265	-109.534241	Circle (Radius: 25.00)

SECTION DETAILS

MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect
2851.00	7.56	359.87	2826.93	339.93	2.74	0.00	0.00	339.54
3051.00	7.56	359.87	3025.19	366.24	2.68	0.00	0.00	365.81
3429.00	0.00	359.87	3402.09	391.15	2.63	2.00	180.00	390.67
3507.94	0.24	137.97	3481.03	391.02	2.73	0.30	137.97	390.55
10107.97	0.24	137.97	10081.00	370.76	21.00	0.00	0.00	371.36





RECEIVED: May. 28, 2013

API Well Number: 43047525560000

Weatherford®

US ROCKIES REGION PLANNING

UTAH - UTM (feet), NAD27, Zone 12N
UINTAH_NBU 921-22B PAD
NBU 921-22B1CS

Wellbore #1

Design: ACTUAL

Standard Survey Report

11 February, 2013

Anadarko Petroleum Corporation

RECEIVED: May. 28, 2013

API Well Number: 43047525560000

Weatherford

Andarko Petroleum Corporation

Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Site:	UINTAH_NBU 921-22B PAD	**MD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Well:	NBU 921-22B1CS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

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 UINTAH_NBU 921-22B PAD, SW ¼ NE ¼ Sec.22-T9S-R21E

Site Position:		**Northing:**	14,538,954.35 usft	**Latitude:**	40.026184
From:	Lat/Long	**Easting:**	2,050,725.05 usft	**Longitude:**	-109.534386
Position Uncertainty:	0.00 ft	**Slot Radius:**	13-3/16 "	**Grid Convergence:**	0.94 °

Well NBU 921-22B1CS

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,538,977.61 usft	**Latitude:**	40.026247
	+E/-W	0.00 ft	**Easting:**	2,050,744.27 usft	**Longitude:**	-109.534316
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,816.00 ft

Wellbore Wellbore #1

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	12/20/2012	10.90	65.84	52,189

Design ACTUAL

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	22.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	6.67

Survey Program **Date** 2/11/2013

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
166.00	2,851.00	Survey #1 (Wellbore #1)	MWD	MWD - STANDARD
2,933.00	10,083.00	Survey #2 (Wellbore #1)	MWD	MWD - STANDARD

Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Vertical Section (ft)**	**Dogleg Rate (°/100usft)**	**Build Rate (°/100usft)**	**Turn Rate (°/100usft)**
22.00	0.00	0.00	22.00	0.00	0.00	0.00	0.00	0.00	0.00
166.00	0.40	343.42	166.00	0.48	-0.14	0.46	0.28	0.28	0.00
195.00	0.38	3.05	195.00	0.67	-0.17	0.65	0.46	-0.07	67.69
278.00	1.23	347.13	277.99	1.82	-0.35	1.77	1.05	1.02	-19.18
360.00	2.09	345.19	359.95	4.12	-0.93	3.99	1.05	1.05	-2.37
450.00	2.84	348.10	449.87	7.89	-1.81	7.63	0.84	0.83	3.23
540.00	3.67	355.48	539.72	12.94	-2.50	12.57	1.03	0.92	8.20
630.00	4.87	1.15	629.47	19.63	-2.65	19.19	1.41	1.33	6.30
720.00	5.99	4.65	719.07	28.13	-2.19	27.69	1.30	1.24	3.89
810.00	7.30	5.14	808.46	38.51	-1.30	38.10	1.46	1.46	0.54

RECEIVED: May. 28, 2013

Weatherford

Andarko Petroleum Corporation

Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Site:	UINTAH_NBU 921-22B PAD	**MD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Well:	NBU 921-22B1CS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
900.00	8.53	1.98	897.60	50.88	-0.55	50.47	1.45	1.37	-3.51
990.00	9.32	358.99	986.51	64.83	-0.45	64.34	1.02	0.88	-3.32
1,080.00	9.58	358.20	1,075.29	79.61	-0.81	78.97	0.32	0.29	-0.88
1,170.00	9.50	358.29	1,164.05	94.52	-1.27	93.73	0.09	-0.09	0.10
1,260.00	8.97	358.02	1,252.88	108.95	-1.73	108.01	0.59	-0.59	-0.30
1,350.00	8.71	1.19	1,341.81	122.78	-1.84	121.73	0.61	-0.29	3.52
1,440.00	8.88	0.29	1,430.75	136.54	-1.66	135.42	0.24	0.19	-1.00
1,530.00	9.15	359.61	1,519.64	150.64	-1.67	149.43	0.32	0.30	-0.76
1,620.00	9.15	359.87	1,608.50	164.95	-1.74	163.63	0.05	0.00	0.29
1,710.00	8.79	1.28	1,697.40	178.98	-1.60	177.58	0.47	-0.40	1.57
1,800.00	8.88	2.95	1,786.33	192.79	-1.09	191.36	0.30	0.10	1.86
1,890.00	8.88	3.47	1,875.25	206.66	-0.31	205.23	0.09	0.00	0.58
1,980.00	8.18	2.07	1,964.25	220.00	0.34	218.55	0.81	-0.78	-1.56
2,070.00	8.35	0.22	2,053.32	232.93	0.60	231.42	0.35	0.19	-2.06
2,160.00	8.71	358.99	2,142.32	246.28	0.50	244.67	0.45	0.40	-1.37
2,250.00	8.27	358.29	2,231.34	259.56	0.19	257.83	0.50	-0.49	-0.78
2,340.00	7.83	1.19	2,320.45	272.16	0.12	270.33	0.67	-0.49	3.22
2,430.00	7.47	4.35	2,409.65	284.12	0.69	282.28	0.62	-0.40	3.51
2,520.00	7.29	2.56	2,498.90	295.66	1.39	293.82	0.32	-0.20	-1.99
2,610.00	7.83	2.68	2,588.12	307.49	1.93	305.63	0.60	0.60	0.13
2,700.00	7.83	1.72	2,677.28	319.74	2.41	317.86	0.15	0.00	-1.07
2,790.00	7.65	0.92	2,766.46	331.86	2.69	329.93	0.23	-0.20	-0.89
2,851.00	7.56	359.87	2,826.93	339.93	2.74	337.95	0.27	-0.15	-1.72
TIE ON TO SDI MWD SURVEY									
2,933.00	6.93	356.71	2,908.27	350.26	2.45	348.18	0.91	-0.77	-3.85
FIRST WFT MWD SURVEY									
3,027.00	5.42	351.97	3,001.72	360.32	1.50	358.06	1.69	-1.61	-5.04
3,121.00	3.90	342.05	3,095.41	367.76	-0.11	365.26	1.82	-1.62	-10.55
3,216.00	2.63	326.80	3,190.26	372.66	-2.30	369.87	1.61	-1.34	-16.05
3,310.00	1.69	319.05	3,284.19	375.51	-4.38	372.46	1.04	-1.00	-8.24
3,405.00	0.88	10.92	3,379.17	377.28	-5.16	374.13	1.41	-0.85	54.60
3,499.00	0.50	338.55	3,473.16	378.37	-5.18	375.21	0.56	-0.40	-34.44
3,594.00	1.44	23.80	3,568.15	379.85	-4.85	376.72	1.20	0.99	47.63
3,688.00	0.56	27.42	3,662.13	381.34	-4.16	378.28	0.94	-0.94	3.85
3,783.00	1.69	47.17	3,757.11	382.71	-2.92	379.78	1.24	1.19	20.79
3,877.00	1.13	61.30	3,851.08	384.09	-1.09	381.37	0.70	-0.60	15.03
3,971.00	0.88	112.05	3,945.07	384.27	0.39	381.71	0.95	-0.27	53.99
4,066.00	0.74	157.64	4,040.06	383.43	1.30	380.98	0.67	-0.15	47.99
4,160.00	1.38	170.17	4,134.05	381.75	1.73	379.37	0.72	0.68	13.33
4,254.00	1.19	75.05	4,228.03	380.89	2.86	378.64	2.02	-0.20	-101.19
4,349.00	0.94	325.55	4,323.02	381.78	3.38	379.59	1.84	-0.26	-115.26
4,444.00	0.31	302.67	4,418.02	382.56	2.72	380.29	0.70	-0.66	-24.08
4,538.00	0.50	213.80	4,512.01	382.36	2.28	380.04	0.62	0.20	-94.54

RECEIVED: May. 28, 2013

Weatherford

Andarko Petroleum Corporation

Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Site:	UINTAH_NBU 921-22B PAD	**MD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Well:	NBU 921-22B1CS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,633.00	0.81	216.30	4,607.01	381.47	1.65	379.09	0.33	0.33	2.63
4,727.00	1.25	187.05	4,700.99	379.92	1.13	377.48	0.72	0.47	-31.12
4,821.00	0.81	88.80	4,794.98	378.92	1.67	376.55	1.69	-0.47	-104.52
4,916.00	0.56	153.17	4,889.98	378.52	2.55	376.25	0.80	-0.26	67.76
5,010.00	0.63	176.30	4,983.97	377.59	2.79	375.36	0.26	0.07	24.61
5,104.00	0.81	160.67	5,077.96	376.45	3.04	374.26	0.28	0.19	-16.63
5,199.00	0.88	132.05	5,172.95	375.33	3.81	373.23	0.45	0.07	-30.13
5,295.00	1.00	158.17	5,268.94	374.06	4.67	372.07	0.46	0.13	27.21
5,389.00	0.75	168.80	5,362.93	372.69	5.09	370.76	0.32	-0.27	11.31
5,484.00	0.88	157.92	5,457.92	371.40	5.48	369.53	0.21	0.14	-11.45
5,579.00	0.88	159.05	5,552.91	370.05	6.02	368.24	0.02	0.00	1.19
5,673.00	1.19	160.55	5,646.90	368.45	6.60	366.73	0.33	0.33	1.60
5,768.00	0.31	298.42	5,741.89	367.65	6.71	365.94	1.51	-0.93	145.13
5,862.00	0.56	293.05	5,835.89	367.95	6.06	366.16	0.27	0.27	-5.71
5,956.00	0.81	240.05	5,929.88	367.79	5.06	365.89	0.69	0.27	-56.38
6,051.00	1.19	248.55	6,024.87	367.10	3.56	365.03	0.43	0.40	8.95
6,145.00	0.50	273.05	6,118.86	366.76	2.24	364.54	0.81	-0.73	26.06
6,240.00	0.56	4.67	6,213.85	367.25	1.87	364.98	0.80	0.06	96.44
6,334.00	1.25	8.17	6,307.84	368.72	2.05	366.46	0.74	0.73	3.72
6,429.00	0.81	357.92	6,402.82	370.42	2.17	368.16	0.50	-0.46	-10.79
6,523.00	1.75	50.42	6,496.80	372.00	3.25	369.86	1.50	1.00	55.85
6,618.00	1.50	70.17	6,591.77	373.34	5.54	371.46	0.64	-0.26	20.79
6,712.00	1.19	75.55	6,685.74	374.00	7.65	372.36	0.36	-0.33	5.72
6,807.00	1.13	83.05	6,780.72	374.36	9.53	372.94	0.17	-0.06	7.89
6,901.00	1.31	115.92	6,874.70	374.00	11.42	372.80	0.76	0.19	34.97
6,995.00	1.38	110.42	6,968.67	373.14	13.44	372.18	0.16	0.07	-5.85
7,090.00	1.44	131.30	7,063.65	371.95	15.41	371.23	0.54	0.06	21.98
7,184.00	1.38	121.17	7,157.62	370.59	17.27	370.09	0.27	-0.06	-10.78
7,279.00	1.50	126.80	7,252.59	369.25	19.24	368.99	0.20	0.13	5.93
7,373.00	1.69	146.80	7,346.55	367.35	20.99	367.31	0.62	0.20	21.28
7,467.00	0.75	41.17	7,440.54	366.66	22.15	366.75	2.15	-1.00	-112.37
7,562.00	0.81	50.92	7,535.53	367.55	23.08	367.74	0.15	0.06	10.26
7,656.00	0.88	59.92	7,629.52	368.33	24.22	368.65	0.16	0.07	9.57
7,751.00	1.25	344.17	7,724.51	369.69	24.57	370.04	1.41	0.39	-79.74
7,845.00	2.13	338.17	7,818.46	372.30	23.64	372.53	0.95	0.94	-6.38
7,940.00	1.44	351.55	7,913.42	375.12	22.81	375.23	0.84	-0.73	14.08
8,034.00	1.19	353.17	8,007.39	377.26	22.52	377.32	0.27	-0.27	1.72
8,129.00	0.94	353.42	8,102.38	379.01	22.31	379.04	0.26	-0.26	0.26
8,223.00	0.94	18.42	8,196.36	380.51	22.47	380.54	0.43	0.00	26.60
8,318.00	1.88	327.55	8,291.34	382.56	21.88	382.52	1.56	0.99	-53.55
8,412.00	1.44	333.17	8,385.30	384.92	20.52	384.70	0.50	-0.47	5.98
8,506.00	0.69	333.55	8,479.28	386.48	19.73	386.16	0.80	-0.80	0.40
8,601.00	0.81	297.92	8,574.27	387.30	18.89	386.88	0.50	0.13	-37.51
8,695.00	0.38	283.42	8,668.27	387.69	17.99	387.16	0.48	-0.46	-15.43

RECEIVED: May. 28, 2013

Weatherford

Andarko Petroleum Corporation

Survey Report

Anadarko Petroleum Corporation

Company:	US ROCKIES REGION PLANNING	**Local Co-ordinate Reference:**	Well NBU 921-22B1CS
Project:	UTAH - UTM (feet), NAD27, Zone 12N	**TVD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Site:	UINTAH_NBU 921-22B PAD	**MD Reference:**	26' RKB+4816' GL @ 4842.00ft (H&P 298)
Well:	NBU 921-22B1CS	**North Reference:**	True
Wellbore:	Wellbore #1	**Survey Calculation Method:**	Minimum Curvature
Design:	ACTUAL	**Database:**	edmp

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,789.00	0.25	165.67	8,762.27	387.56	17.74	387.00	0.58	-0.14	-125.27
8,884.00	0.19	100.17	8,857.27	387.33	17.95	386.80	0.26	-0.06	-68.95
8,979.00	0.44	129.05	8,952.27	387.08	18.39	386.59	0.30	0.26	30.40
9,073.00	0.82	131.02	9,046.26	386.41	19.17	386.02	0.40	0.40	2.10
9,168.00	1.63	131.42	9,141.24	385.07	20.70	384.87	0.85	0.85	0.42
9,262.00	1.75	131.42	9,235.20	383.23	22.78	383.29	0.13	0.13	0.00
9,356.00	1.94	123.17	9,329.15	381.41	25.19	381.76	0.35	0.20	-8.78
9,451.00	1.69	128.17	9,424.10	379.67	27.64	380.31	0.31	-0.26	5.26
9,545.00	2.00	126.42	9,518.05	377.84	30.04	378.77	0.34	0.33	-1.86
9,640.00	2.19	136.30	9,612.99	375.54	32.63	376.79	0.43	0.20	10.40
9,734.00	2.31	142.67	9,706.92	372.74	35.02	374.28	0.29	0.13	6.78
10,018.00	3.37	164.86	9,990.57	360.13	40.67	362.41	0.53	0.37	7.81
LAST WFT MWD SURVEY									
10,083.00	3.37	164.86	10,055.46	356.44	41.67	358.87	0.00	0.00	0.00
PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
2,851.00	2,826.93	339.93	2.74	TIE ON TO SDI MWD SURVEY
2,933.00	2,908.27	350.26	2.45	FIRST WFT MWD SURVEY
10,018.00	9,990.57	360.13	40.67	LAST WFT MWD SURVEY
10,083.00	10,055.46	356.44	41.67	PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

RECEIVED: May. 28, 2013