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 921-8K
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: 720 929-6587
8. ADDRESS OF OPERATOR: P.O. Box 173779, Denver, CO, 80217	9. OPERATOR E-MAIL: mary.mondragon@anadarko.com
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE): UTU 0575B	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 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	1918 FSL 1923 FWL	NESW	8	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	1918 FSL 1923 FWL	NESW	8	9.0 S	21.0 E	S
At Total Depth	1918 FSL 1923 FWL	NESW	8	9.0 S	21.0 E	S

21. COUNTY: UINTAH	22. DISTANCE TO NEAREST LEASE LINE (Feet): 1918	23. NUMBER OF ACRES IN DRILLING UNIT: 811
	25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed): 1000	26. PROPOSED DEPTH: MD: 10611 TVD: 10611
27. ELEVATION - GROUND LEVEL: 4753	28. BOND NUMBER: WYB000291	29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE: Permit #43-8496

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 Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 10/01/2009	EMAIL danielle.piernot@anadarko.com

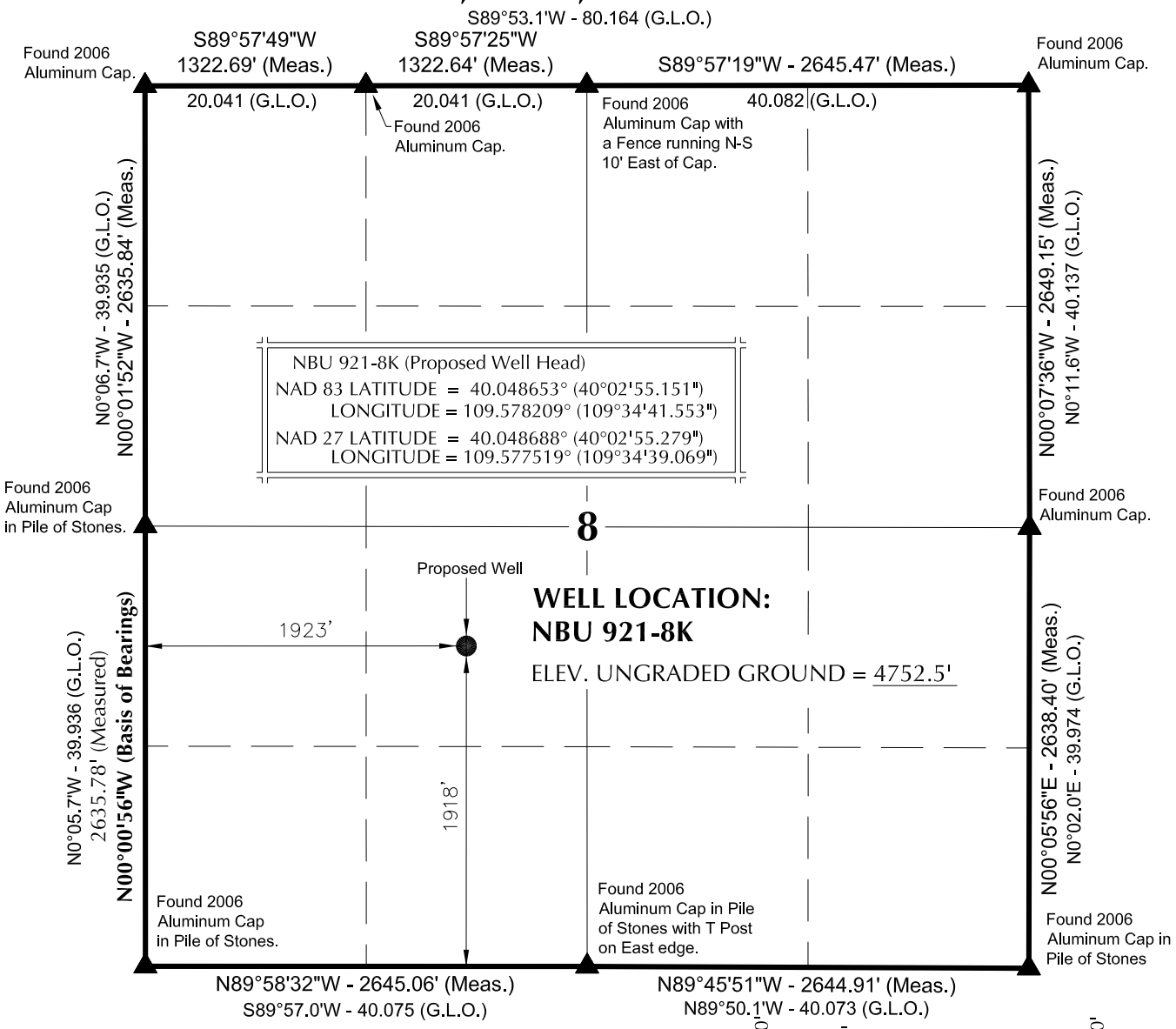
API NUMBER ASSIGNED	APPROVAL
43047507780000	Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	10611		
Pipe	**Grade**	**Length**	**Weight**			
	Grade HCP-110 LT&C	1011	11.6			
	Grade I-80 Buttress	9600	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	12.25	9.625	0	2835		
Pipe	**Grade**	**Length**	**Weight**			
	Grade J-55 LT&C	2835	36.0			

’APIWellNo:43047507780000’

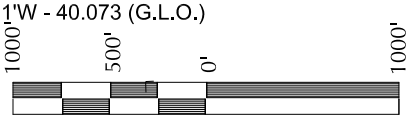
T9S, R21E, S.L.B.&M.



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. Bearings are based on Global Positioning Satellite observations.
4. Basis of elevation is Tri-Sta "Two Water" located in the NW ¼ 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'.



SCALE

SURVEYOR'S CERTIFICATE

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

REGISTERED LAND SURVEYOR No.362251 KOLBY R. KAY STATE OF UTAH

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

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

WELL PAD - NBU 921-8K

NBU 921-8K
WELL PLAT
1918' FSL, 1923' FWL
NE ¼ SW ¼ OF SECTION 8, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
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: 04-10-09	SURVEYED BY: D.J.S.	SHEET NO: 1
DATE DRAWN: 04-13-09	DRAWN BY: K.K.O.	1 OF 9
SCALE: 1" = 1000'	Date Last Revised:	

NBU 921-8K
Surface: 1,918' FSL 1,923' FWL (NE/4SW/4)
Sec. 8 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575B

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

Formation	Depth	Resource
Uinta	0 – Surface	
Green River	1,808'	
Birds Nest	2,115'	Water
Mahogany	2,632'	Water
Wasatch	5,263'	Gas
Mesaverde	8,353'	Gas
MVU2	9,363'	Gas
MVL1	9,894'	Gas
TD	10,611'	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,611' TD, approximately equals 6,611 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,276 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached 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.*

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 to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 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 9-5/8 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.

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)). The air rig operation utilizes a 5M BOPE when drilling. 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 Drilling Program.

’APIWellNo:43047507780000’

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	September 30, 2009
WELL NAME	**NBU 921-8K**	TD	10,611' MD/TVD
FIELD	Natural Buttes	COUNTY Uintah STATE Utah	FINISHED ELEVATION 4,750'
SURFACE LOCATION	NE/4 SW/4 1,918' FSL 1,923' FWL	Sec 8 T 9S R 21E	BHL Straight Hole
	Latitude: 40.048653	Longitude: -109.578209	NAD 83
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: BLM (MINERALS), Ute Tribe (SURFACE), UDOGM, Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 36#, J-55, LTC	Air mist

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

Green River @ 1,808'
Top of Birds Nest Water @ 2,115'
Mahogany @ 2,632'
Preset f/ GL @ 2,835' MD

Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

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

	7-7/8"	4-1/2" 11.6# HCP-110 & I-80 or equivalent BTC/LTC casing	Water/Fresh Water Mud 8.3-12.2 ppg

Wasatch @ 5,263'
Mverde @ 8,353'
MVU2 @ 9,363'
MVL1 @ 9,894'

Max anticipated Mud required 12.2 ppg

TD @ 10,611'

'APIWellNo:43047507780000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL			WT.	GR.	CPLG.	DESIGN FACTORS BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'								
								3,520	2,020	453,000
SURFACE	9-5/8"	0	to	2835	36.00	J-55	LTC	0.80*	1.52	4.44
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9600	11.60	I-80	BTC	1.77	1.04	2.78
								10,690	8,650	279,000
		9600	to	10611	11.60	HCP-110	LTC	2.43	1.28	29.24

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 1.97

1) Max Anticipated Surf. Press.(MASP) (Surf Csg) = (Pore Pressure at next csg point-(0.22 psi/ft-partial evac grad x TVD of next csg point))

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
(Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,276 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
(Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
(Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,611 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 0.25 pps flocele				
TOP OUT CMT (6 jobs)		1,200'	20 gals sodium silicate + Premium cmt	380	0%	15.60	1.18
			+ 2% CaCl + 0.25 pps flocele				
			Premium cmt + 2% CaCl				
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2,335'	Prem cmt + 16% Gel + 10 pps gilsonite	260	35%	11.00	3.82
			+ 0.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 0.25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,761'	Premium Lite II + 0.25 pps celloflake +	460	40%	11.00	3.38
			5 pps gilsonite + 10% gel '+ 1% Retarder				
	TAIL	5,850'	50/50 Poz/G + 10% salt + 2% gel	1430	40%	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. Centralize first 3 joints & every third joint for a total of 15 bow spring centralizers.

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.

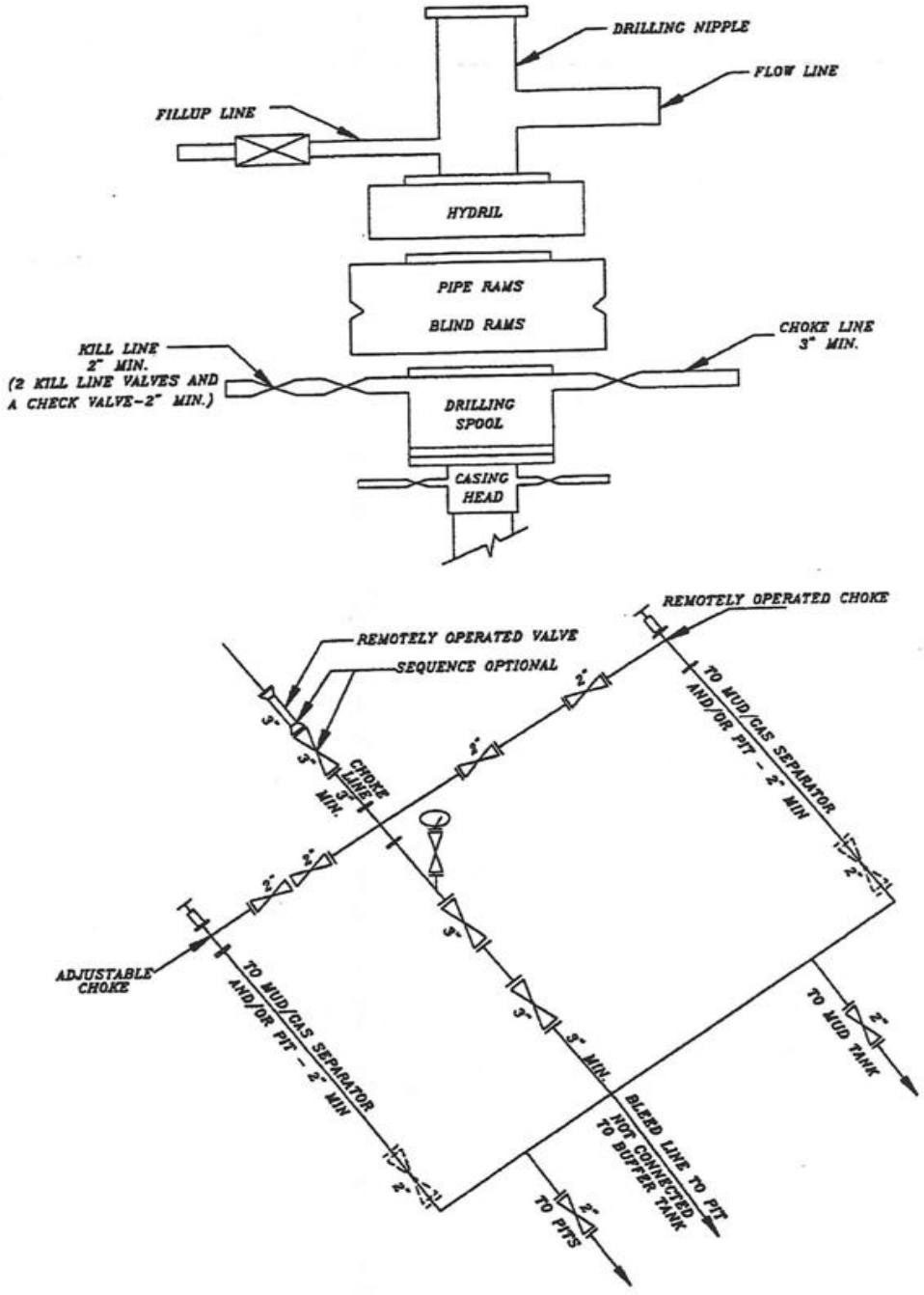
Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.

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

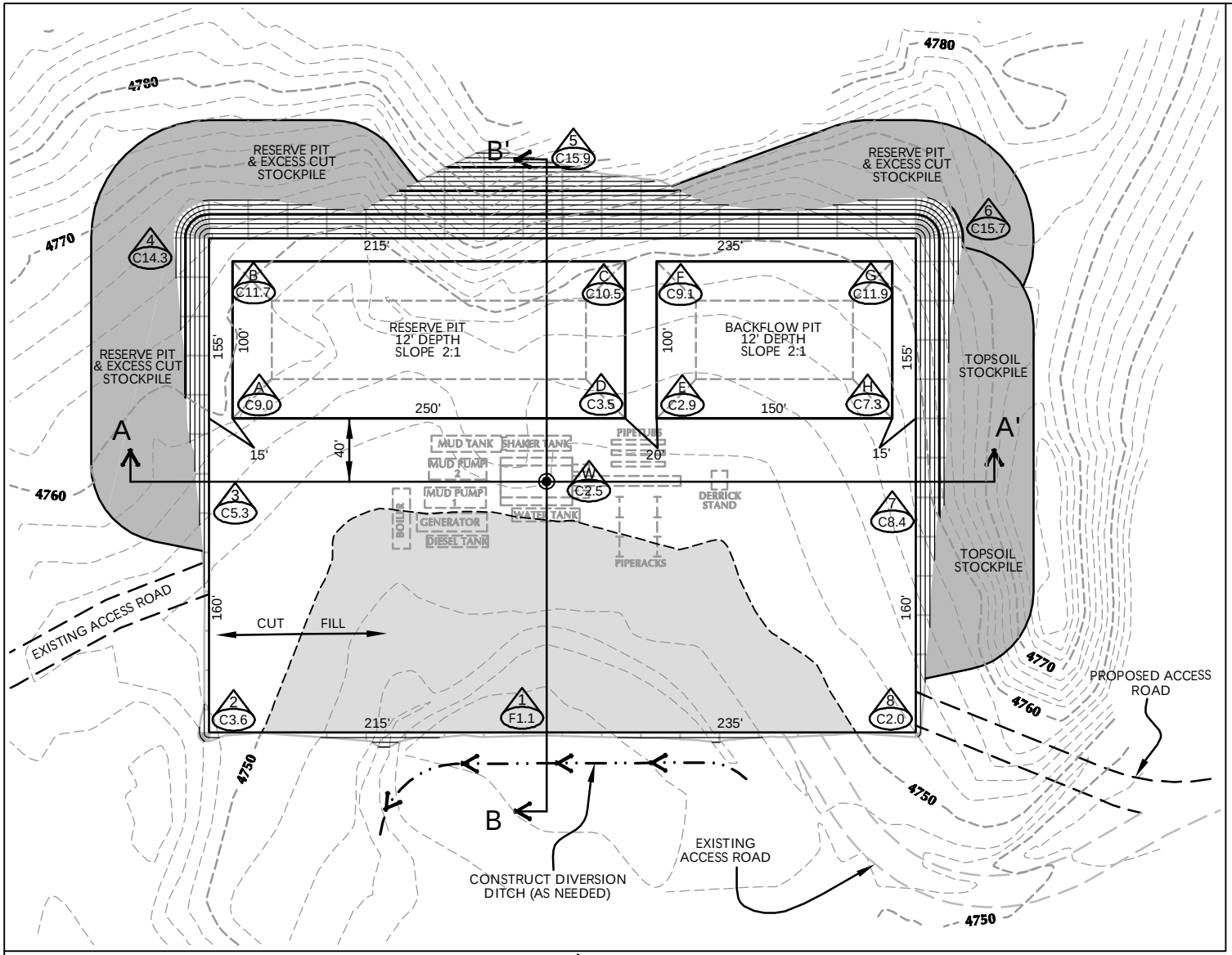
DRILLING ENGINEER: _____ **DATE:** _____
John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: _____ **DATE:** _____
John Merkel / Lovel Young

EXHIBIT A
NBU 921-8K



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK



WELL PAD LEGEND

- WELL LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)

WELL PAD NBU 921-8K QUANTITIES

EXISTING GRADE @ LOC. STAKE = 4752.5'
FINISHED GRADE ELEVATION = 4750.0'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 21,620 C.Y.
TOTAL FILL FOR WELL PAD = 3,919 C.Y.
TOPSOIL @ 6" DEPTH = 3,073 C.Y.
EXCESS MATERIAL = 17,701 C.Y.
TOTAL DISTURBANCE = 3.81 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,730 BARRELS
RESERVE PIT VOLUME
+/- 7,720 CY
BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
+/- 15,900 BARRELS
BACKFLOW PIT VOLUME
+/- 4,350 CY

HORIZONTAL 0 50 100 1" = 100'
2' CONTOURS

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

WELL PAD - NBU 921-8K

WELL PAD - LOCATION LAYOUT
NBU 921-8K
1918' FSL, 1923' FWL
NE1/4 SW1/4 OF SECTION 8, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

Scale: 1"=100' | Date: 5/11/09 | SHEET NO: 2 2 OF 9
REVISED:

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

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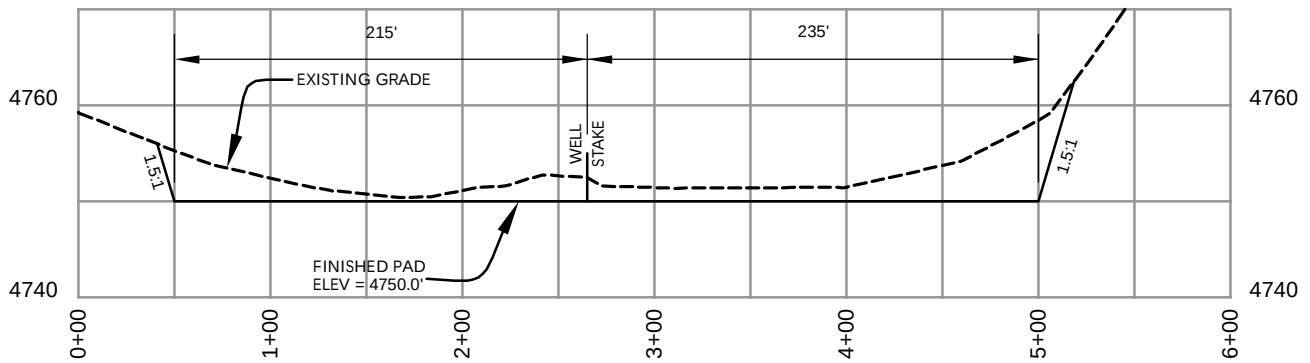
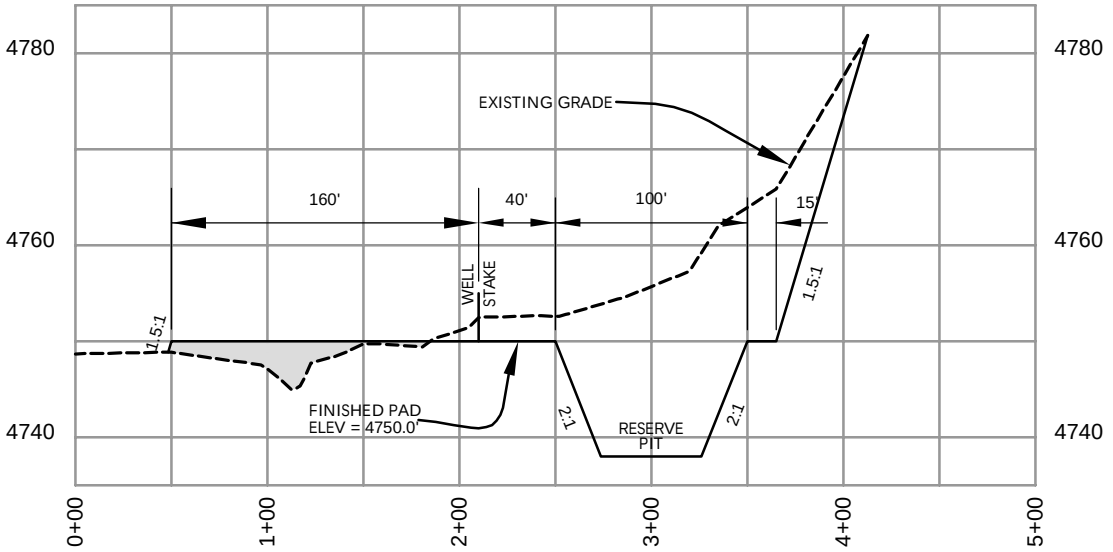


CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-8K

WELL PAD - CROSS SECTIONS
NBU 921-8K
1918' FSL, 1923' FWL
NE1/4 SW1/4 OF SECTION 8, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH

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

Scale: 1"=100'	Date: 5/11/09	SHEET NO: 3 3 OF 9
REVISED:		

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

’APIWellNo:43047507780000’

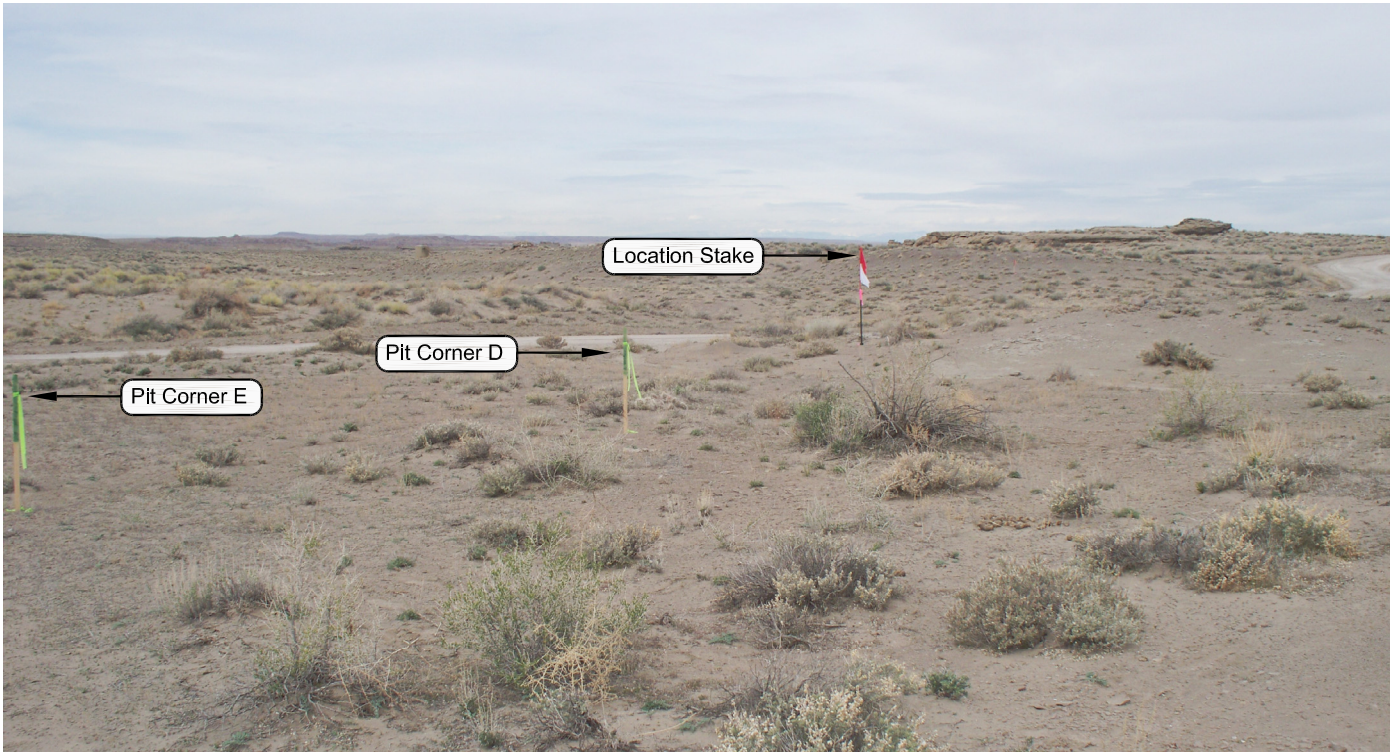

PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE CAMERA ANGLE: NORTHWESTERLY

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

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

Well Pad - NBU 921-8K

NBU 921-8K
LOCATION PHOTOS
1918' FSL, 1923' FWL
NE ¼ SW ¼ OF SECTION 8, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.

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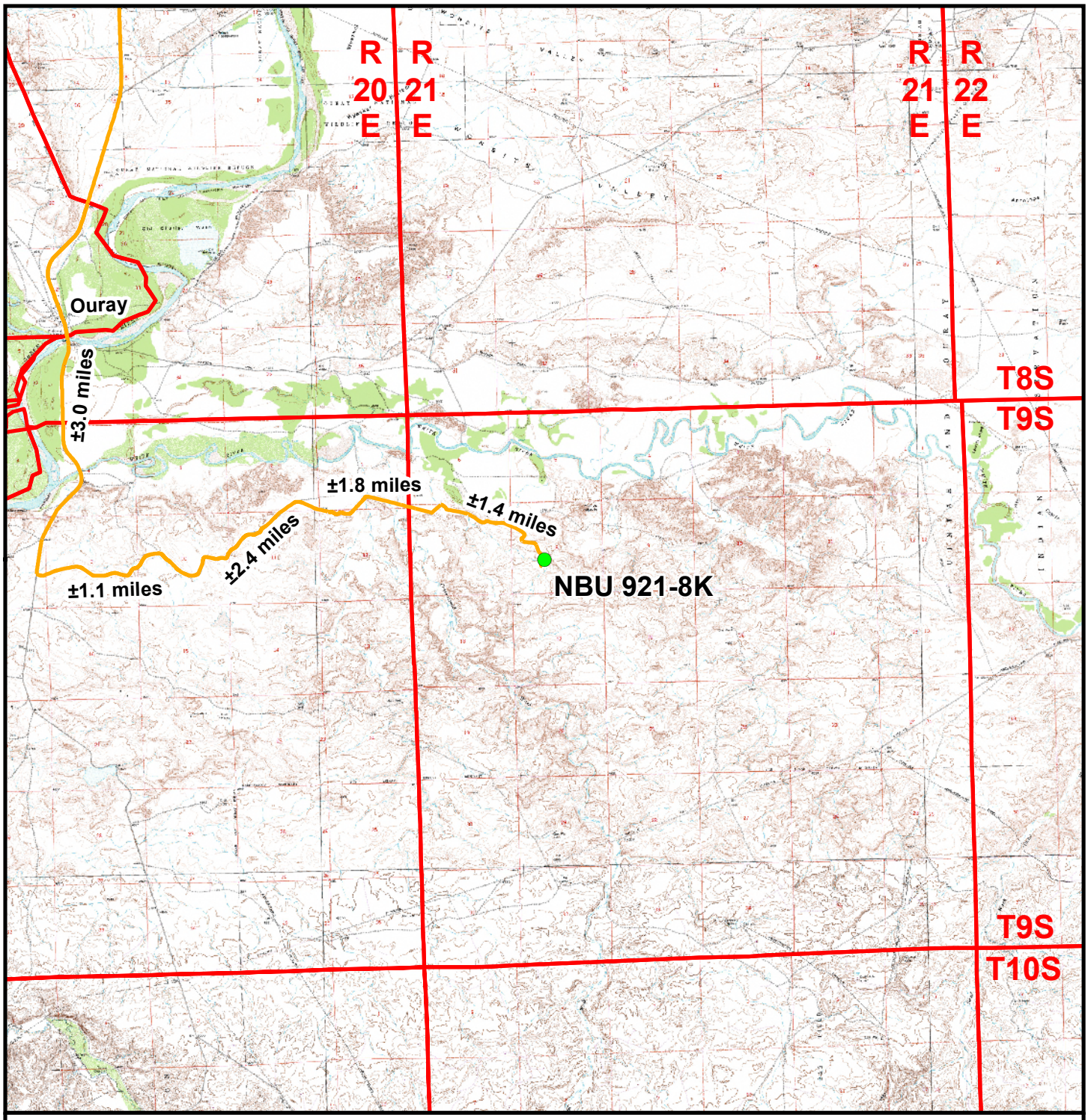
Fax 307-674-0182

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

DATE PHOTOS TAKEN: 04-10-09	PHOTOS TAKEN BY: D.J.S.	SHEET NO: 4
DATE DRAWN: 04-13-09	DRAWN BY: K.K.O.	4 OF 9
Date Last Revised:		

’APIWellNo:43047507780000’



Legend

- Proposed NBU 921-8K Well Location
- Access Route - Proposed

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

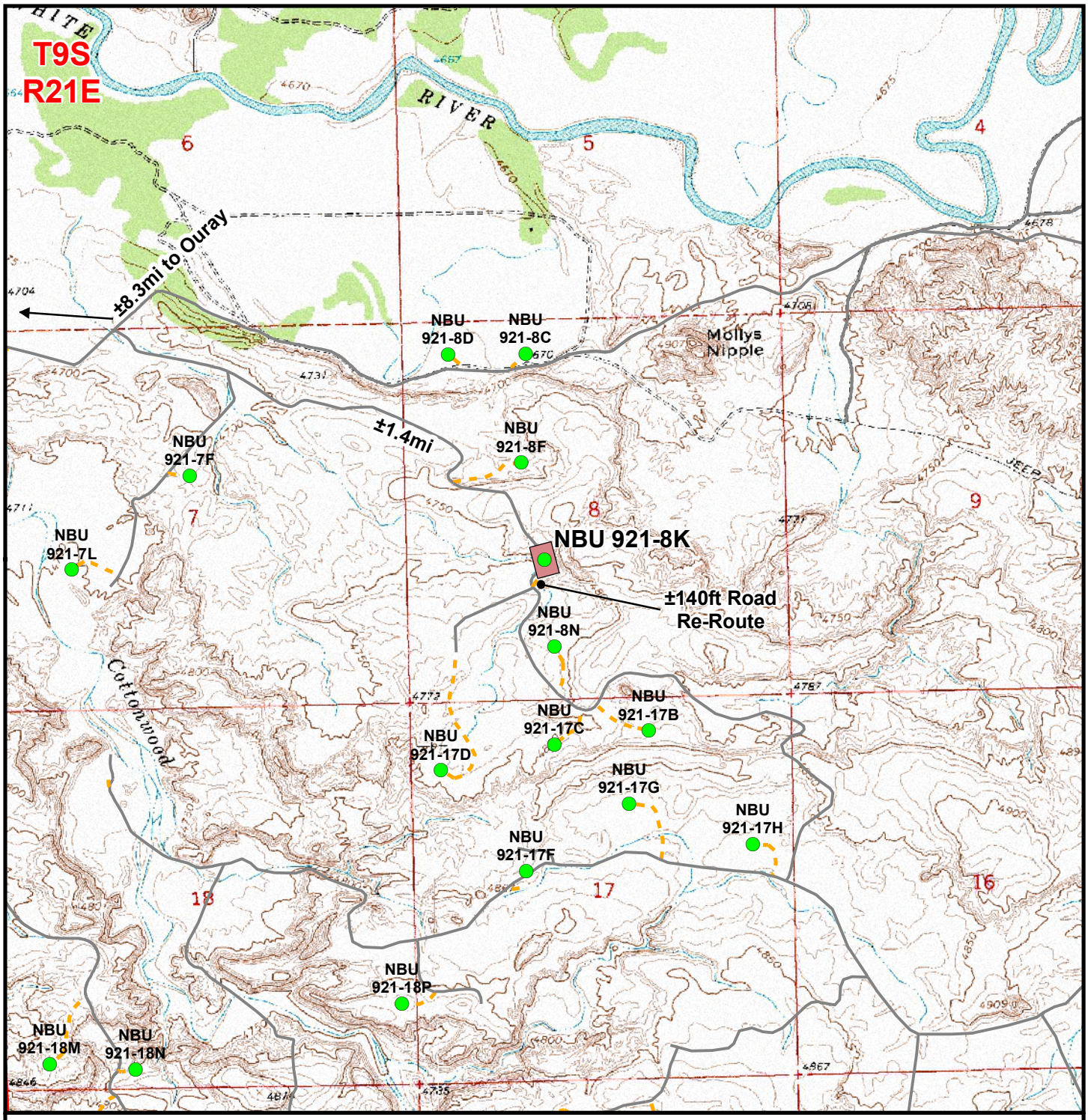
Well Pad - NBU 921-8K
NBU 921-8K
Topo A
1918' FSL, 1923' FWL
NE¼ SW¼, Section 8, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 5	5 of 9
Drawn: JELo	Date: 20 April 2009		
Revised: TL	Date: 25 Sept 2009		

’APIWellNo:43047507780000’



Legend

Total Proposed Road Length: ±140ft

Well - Proposed | Well Pad | Road - Proposed | Road - Existing

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

Well Pad - NBU 921-8K

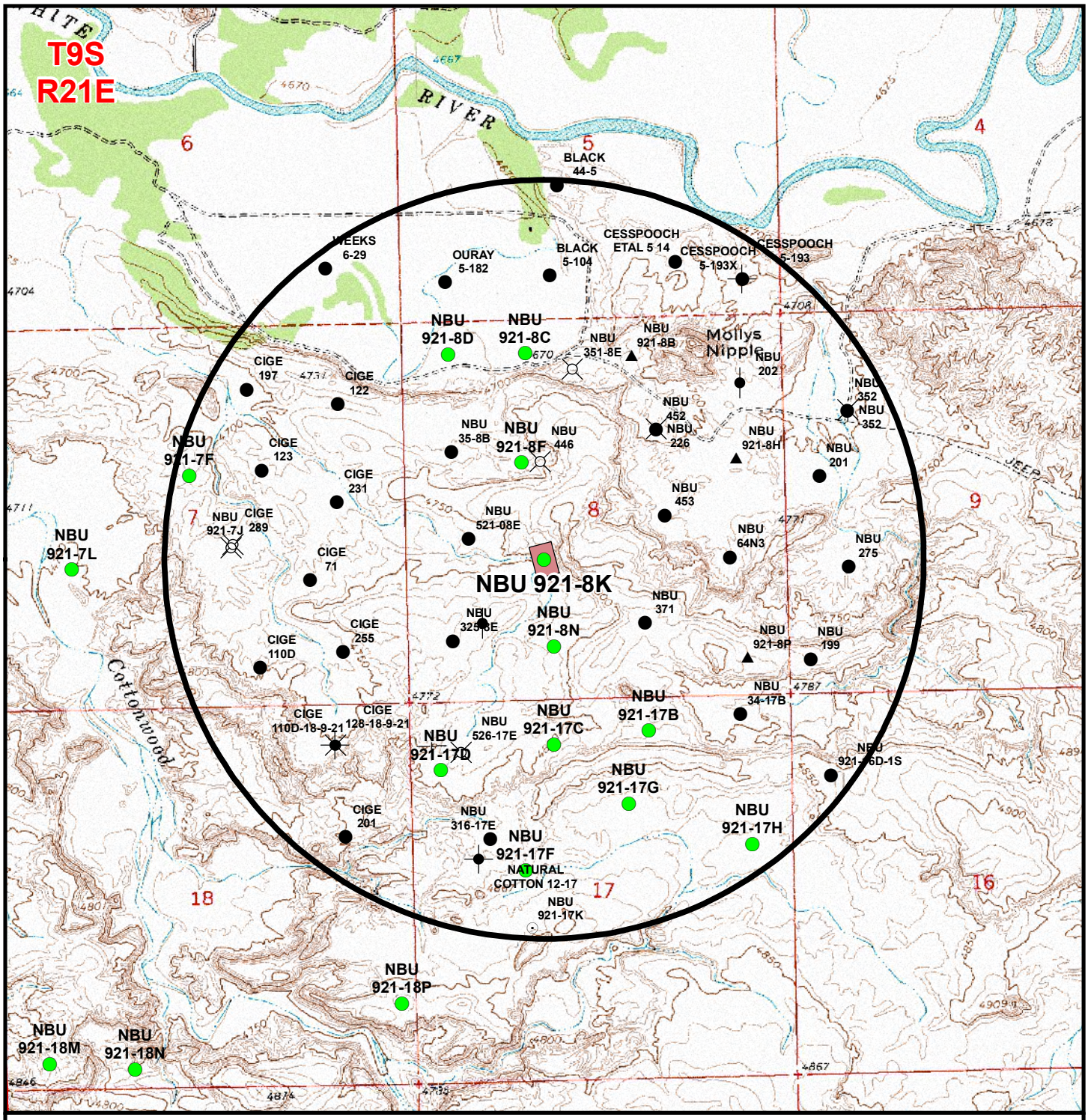
NBU 921-8K
Topo B
1918' FSL, 1923' FWL
NE¼ SW¼, Section 8, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 6	6 of 9
Drawn: JELo	Date: 20 April 2009		
Revised: TL	Date: 25 Sept 2009		

’APIWellNo:43047507780000’



Legend

Well locations derived from State of Utah, Dept. of Natural Resources, Division of Oil, Gas and Mining

- Well - Proposed
- Well - 1 Mile Radius
- Well Pad
- Producing
- Approved permit (APD); not yet spudded
- Spudded (Drilling commenced: Not yet comple
- Location Abandoned
- Temporarily-Abandoned
- Plugged and Abandoned
- Shut-In

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

Well Pad - NBU 921-8K

NBU 921-8K
Topo C
1918' FSL, 1923' FWL
NE¼ SW¼, Section 8, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
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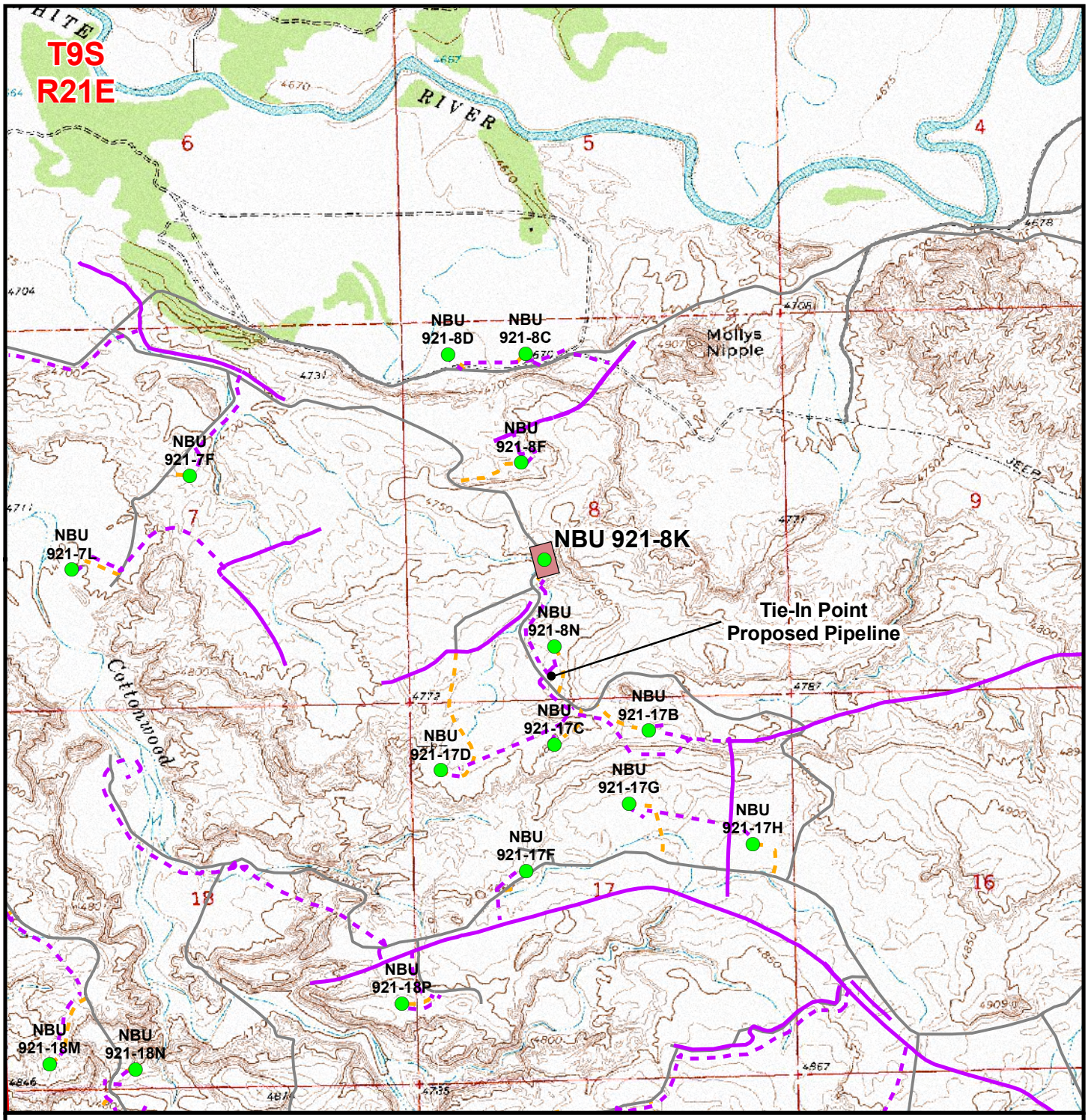
N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 7	7 of 9
Drawn: JELo	Date: 20 April 2009		
Revised: TL	Date: 25 Sept 2009		

’APIWellNo:43047507780000’



Legend

Well - Proposed | Well Pad | Pipeline - Proposed | Road - Proposed | Pipeline - Existing | Road - Existing

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±1,655ft
Proposed Pipeline Length Around Pad: ±660ft

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

Well Pad - NBU 921-8K

NBU 921-8K
Topo D
1918' FSL, 1923' FWL
NE¼ SW¼, Section 8, T9S, R21E
S.L.B.&M., Uintah County, Utah

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan, WY 82801
Phone (307) 674-0609
Fax (307) 674-0182

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 8 of 9
Drawn: JELo	Date: 20 April 2009	
Revised: TL	Date: 25 Sept 2009	

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-8K
WELL - NBU 921-8K
Section 8, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 3.0 MILES TO A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN AN EASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 2.4 MILES TO A THIRD SERVICE ROAD TO THE EAST. EXIT RIGHT AND PROCEED IN AN EAST BY SOUTHEAST DIRECTION ALONG THE THIRD SERVICE ROAD APPROXIMATELY 1.8 MILES TO A FOURTH SERVICE ROAD TO THE SOUTHEAST. EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE FOURTH SERVICE ROAD APPROXIMATELY 1.4 MILES TO THE PROPOSED WELL LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 40.4 MILES IN A SOUTHERLY DIRECTION.

NBU 921-8K
Surface: 1,918' FSL 1,923' FWL (NE/4SW/4)
Sec. 8 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575B

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN SUBMITTED WITH SITE-SPECIFIC INFORMATION

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface location in NE/4 SW/4 of Section 8 T9S R21E.

This Surface Use Plan of Operations (SUPO) or 13-point plan provides the site-specific information for the above-referenced wells. This information is to be incorporated by reference into the Master Development Plan (MDP) for Kerr-McGee Oil & Gas Onshore LP (Kerr-McGee). The MDP is available upon request from the BIA-Ft Duchesne Office.

An on-site meeting was held on August 27, 2009.

A. Existing Roads:

A) Refer to Topo Map A for directions to the location.
B) Refer to Topo Maps A and B for location of access roads within a 2-mile radius.

B. Planned Access Roads:

See MDP for additional details on road construction.
Approximately ±140' (±0.03 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

Existence of pipelines; maximum grade; turnouts; major cut and fills, culverts, or bridges; gates, cattle guards, fence cuts, or modifications to existing facilities were determined at the on-site and are typically shown on the attached Exhibits and Topo maps.

C. Location of Existing Wells Within a 1-Mile Radius:

Please refer to Topo Map C.

D. **Location of Existing and Proposed Facilities:**
See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.
Approximately ±2,315' (±0.44 miles) of new pipeline is proposed for this well. Another ±3,325' (±0.63 miles) of new pipeline is proposed for concurrent use to the NBU 921-8N proposed well. Please refer to the attached Topo Map D for existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place

E. **Location and Type of Water Supply:**
See MDP for additional details on Location and Type of Water Supply.

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

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.
- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

F. **Source of Construction Materials:**
See MDP for additional details on Source of Construction Materials.

G. **Methods of Handling Waste Materials:**
See MDP for additional details on Methods of Handling Waste Materials.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by 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

H. **Ancillary Facilities:**
See MDP for additional details on Ancillary Facilities.

None are anticipated.

I. **Well Site Layout:** (See Location Layout Diagram)
See MDP for additional details on Well Site Layout.

All pits will be fenced according to the following minimum standards:

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner 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.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

J. Plans for Reclamation of the Surface:

See MDP for additional details on Plans for Reclamation of the Surface.

Kerr-McGee shall call the BIA for the seed mixture prior to starting interim and/or final reclamation actions.

K. Surface/Mineral Ownership:

The well pad and access road are located on lands owned by:

Ute Indian Tribe
PO Box 70
Fort Duchesne, Utah 84026
435-722-5141

The mineral ownership is listed below:

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

L. Other Information:

See MDP for additional details on Other Information.

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

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6007

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.

Kathy Schneebeck Dulnoan

Kathy Schneebeck Dulnoan

October 1, 2009
Date

’APIWellNo:43047507780000’

CLASS I REVIEW OF KERR-MCGEE OIL & GAS ONSHORE LP’S 51 PROPOSED WELL LOCATIONS (T9S, R21E, SECTIONS 7, 8, 10, 11, 12, 17, 18, 19, 20, 23, 25, AND 30) IN UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, Utah 84078

Prepared By:

Montgomery Archaeological Consultants, Inc.
P.O. Box 219
Moab, Utah 84532

MOAC Report No. 09-39

May 11, 2009

United States Department of Interior (FLPMA)
Permit No. 09-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A09-363

IPC #09-97

Paleontological Reconnaissance Survey Report

Survey of Kerr McGee's Proposed Well Pads, Access Roads & Pipelines for "NBU #921-7F, 7L & 8K" (Sec. 7 & 8, T 9 S, R 21 E)

Ouray SE
Topographic Quadrangle
Uintah County, Utah

July 10, 2009

Prepared by Stephen D. Sandau
Paleontologist for
Intermountain Paleo-Consulting
P. O. Box 1125
Vernal, Utah 84078

’APIWellNo:43047507780000’

Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237
(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report #: GCI #70

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-8C, NBU 921-8D, NBU 921-8F, NBU 921-8K, NBU 921-8N

Pipelines: Associated pipelines to proposed well pads

Access Roads: Associated access roads to proposed well pads

Location: Section 08, Township 9 South, Range 21 East; Uintah County, Utah

Survey-Species: Uinta Basin Hookless Cactus (*Sclerocactus wetlandicus*)

Date: 07/02/2009

Observers: Grasslands Consulting, Inc. Biologists: Chris Gayer, Dan Hamilton, Nick Hall, and Jonathan Sexauer. Technicians: Chad Johnson, Dane Bartlett, and Daniel Ortiz.

Weather: Partly cloudy, 85-90ºF, 0-5 mph winds with no precipitation.

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)

October 2, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2009 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 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50769	NBU 1022-35K4CS	Sec 35 T10S R22E 0636 FSL 2186 FEL
	BHL	Sec 35 T10S R22E 1325 FSL 2100 FWL
43-047-50770	NBU 1022-35N1CS	Sec 35 T10S R22E 0638 FSL 2206 FEL
	BHL	Sec 35 T10S R22E 0965 FSL 2100 FWL
43-047-50771	NBU 1022-35O1BS	Sec 35 T10S R22E 0634 FSL 2166 FEL
	BHL	Sec 35 T10S R22E 1030 FSL 1800 FEL
43-047-50772	NBU 1022-35O1CS	Sec 35 T10S R22E 0631 FSL 2146 FEL
	BHL	Sec 35 T10S R22E 0670 FSL 1800 FEL
43-047-50773	NBU 922-32P1BS	Sec 32 T09S R22E 1723 FSL 0195 FEL
	BHL	Sec 32 T09S R22E 1203 FSL 0537 FEL
43-047-50774	NBU 922-32P1CS	Sec 32 T09S R22E 1748 FSL 0164 FEL
	BHL	Sec 32 T09S R22E 0857 FSL 0571 FEL
43-047-50775	NBU 922-32P3AS	Sec 32 T09S R22E 1735 FSL 0179 FEL
	BHL	Sec 32 T09S R22E 0588 FSL 0733 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50776	NBU 921-17B	Sec 17 T09S R21E 0492 FNL 1966 FEL
43-047-50777	NBU 921-8F	Sec 08 T09S R21E 2003 FNL 1636 FWL
43-047-50778	NBU 921-8K	Sec 08 T09S R21E 1918 FSL 1923 FWL
43-047-50779	NBU 920-32C	Sec 32 T09S R20E 0605 FNL 2077 FWL
43-047-50780	NBU 920-32F	Sec 32 T09S R20E 1884 FNL 2131 FWL

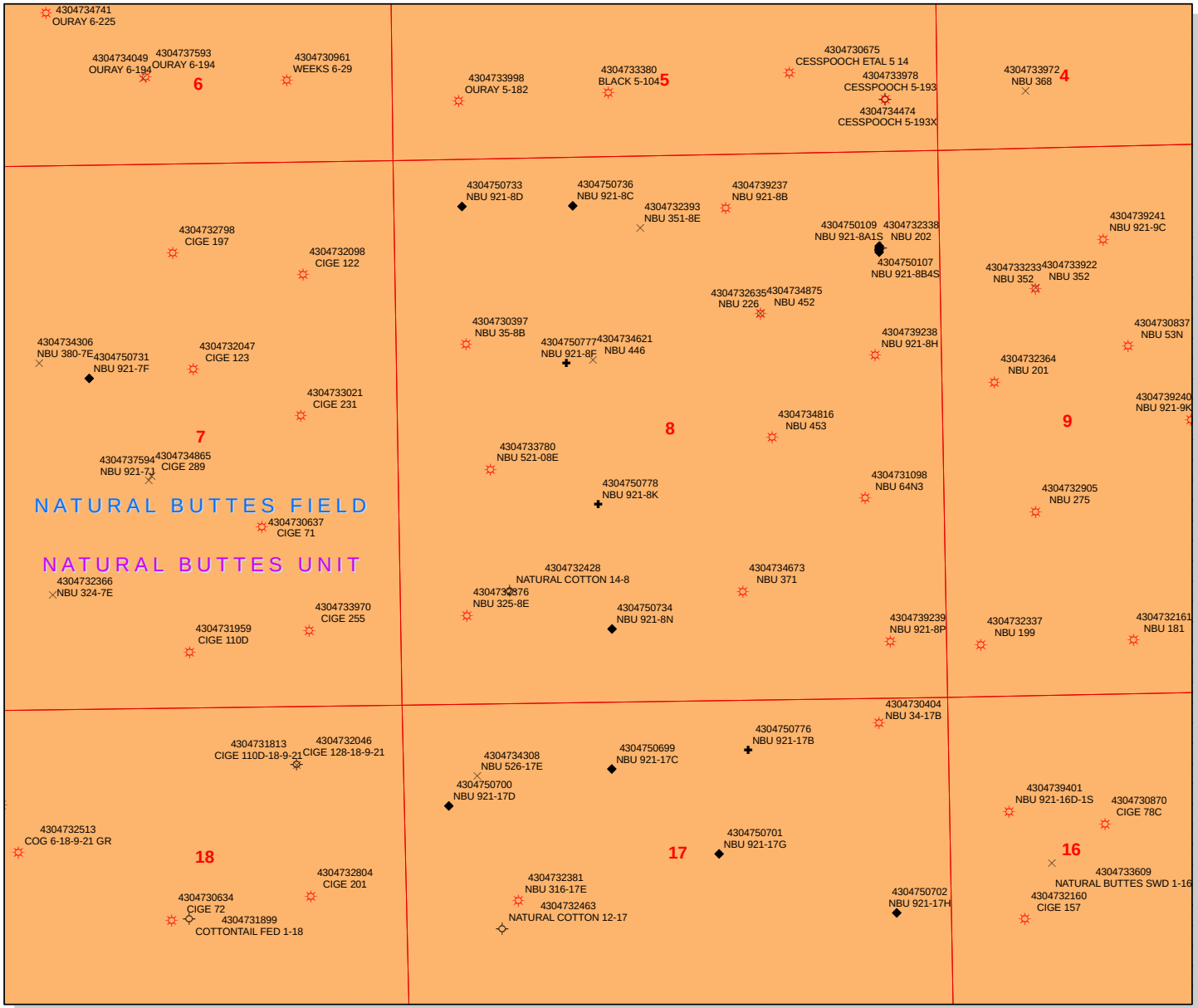
This office has no objection to permitting the wells at this time.

/s/ Michael L. Coulthard

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

API Well No: 43047507780000

MCoulthard:mc:10-2-09



API Number: 4304750778

Well Name: NBU 921-8K

Township 09.0 S Range 21.0 E Section 8

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
- ACTIVE
- COMBINED
- Sections

Wells Query Events
- <all other values>

GIS_STAT_TYPE
- <Null>
- APD
- DRL
- GI
- GS
- LA
- NEW
- OPS
- PA
- PGW
- POW
- RET
- SGW
- SOW
- TA
- TW
- WD
- WI
- WS

1,200 600 0 1,200 Feet

1:12,000

'APIWellNo:43047507780000'

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 10/1/2009 **API NO. ASSIGNED:** 43047507780000

WELL NAME: NBU 921-8K

OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NESW 8 090S 210E **Permit Tech Review:** ☑

SURFACE: 1918 FSL 1923 FWL **Engineering Review:** ☑

BOTTOM: 1918 FSL 1923 FWL **Geology Review:** ☑

COUNTY: UINTAH

LATITUDE: 40.04857 **LONGITUDE:** -109.57753

UTM SURF EASTINGS: 621341.00 **NORTHINGS:** 4433907.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0575B **PROPOSED PRODUCING FORMATION(S):** WASATCH-MESA VERDE

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:** 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: 460' fr u bdry & uncomm. tract

- ☐ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

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 921-8K
API Well Number: 43047507780000
Lease Number: UTU 0575B
Surface Owner: INDIAN
Approval Date: 10/14/2009

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

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

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

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

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

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

In accordance with 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.

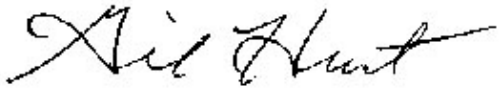
Notification Requirements:
The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:
- Within 24 hours following the spudding of the well – contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at https://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:



Gil Hunt
Associate Director, Oil & Gas

API Well No: 43047507780000

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575B

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 Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-8K

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

9. API NUMBER: 43047507780000

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779 **PHONE NUMBER:** 720 929-6007 Ext

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 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: 10/14/2010	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: October 11, 2010

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE		**DATE**
N/A		10/11/2010

RECEIVED October 11, 2010

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507780000

API: 43047507780000
Well Name: NBU 921-8K
Location: 1918 FSL 1923 FWL QTR NESW SEC 08 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 10/14/2009

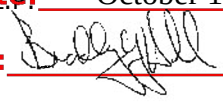
The undersigned as owner with legal rights to drill on the property as permitted above, hereby verifies that the information as submitted in the previously approved application to drill, remains valid and does not require revision. Following is a checklist of some items related to the application, which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

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

Approved by the Utah Division of Oil, Gas and Mining

Signature: Danielle Piernot **Date:** 10/11/2010
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

Date: October 11, 2010

By: 

RECEIVED October 11, 2010

Form 3160-3
(August 2007)

RECEIVED
OCT 06 2009

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

1a. Type of Work: ☒ DRILL ☐ REENTER	5. Lease Serial No. UTU0575B
	6. If Indian, Allottee or Tribe Name
	7. If Unit or CA Agreement, Name and No. 891008900A
1b. Type of Well: ☐ Oil Well ☒ Gas Well ☐ Other ☐ Single Zone ☒ Multiple Zone	8. Lease Name and Well No. NBU 921-8K
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP — Contact: DANIELLE E PIERNOT — E-Mail: Danielle.Piernot@anadarko.com	9. API Well No. 43-047-50778
3a. Address PO BOX 173779 DENVER, CO 80202-3779 — 3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156	10. Field and Pool, or Exploratory NATURAL BUTTES
4. Location of Well *(Report location clearly and in accordance with any State requirements.*)* At surface NESW 1918FSL 1923FWL 40.04865 N Lat, 109.57821 W Lon — At proposed prod. zone NESW 1918FSL 1923FWL 40.04865 N Lat, 109.57821 W Lon	11. Sec., T., R., M., or Blk. and Survey or Area Sec 8 T9S R21E Mer SLB
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 10 MILES SOUTHEAST OF OURAY, UTAH	12. County or Parish UINTAH — 13. State UT
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 1918 FEET — 16. No. of Acres in Lease 811.02	17. Spacing Unit dedicated to this well
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 1000 FEET — 19. Proposed Depth 10611 MD 10611 TVD	20. BLM/BIA Bond No. on file WYB000291
21. Elevations (Show whether DF, KB, RT, GL, etc. 4753 GL — 22. Approximate date work will start 10/20/2009	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) DANIELLE E PIERNOT Ph: 720-929-6156	Date 10/01/2009
Title REGULATORY ANALYST I		
Approved by (Signature) Jamie Hatch	Name (Printed/Typed) Jamie Hatch	Date JUL 20 2011
Title acting Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

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

Additional Operator Remarks (see next page)

Electronic Submission #75073 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal
Committed to AFMSS for processing by ROBIN R[illegible] on 10/02/2009 ()

NOTICE OF APPROVAL

RECEIVED
JUL 26 2011
DIV OF OIL, GAS & MINING

UDOGM

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

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**	**Location:**	**NESW, Sec. 8, T9S, R21E**
Well No:	**NBU 921-8K**	**Lease No:**	**UTU-0575B**
API No:	**43-047-50778**	**Agreement:**	**Natural Buttes Unit**

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: 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.

- Paint facilities "Shadow Gray."

- Construct diversion ditch around the well pad from the south east to the northwest to divert storm water into the ephemeral drainage.

- Monitor construction operations by a permitted archaeologist.

- Monitor construction operations by a permitted paleontologist.

- Comply with all requirement of Nationwide Permit #12, as detailed in the authorization to construct.

- Bury the pipeline from the well pad to the tie-in with the NBU 921-8N gathering line.

- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 1 through September 30). If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D)

- Conduct a new biological survey in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus and the 2008 BLM RMP ROD, to include a 300-foot buffer from proposed construction operations (See Appendix D), and conduct operations according to agency specifications and the requirements of the BO issued as a result of Section 7 USFWS consultation.

DOWNHOLE PROGRAM
CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- A Gama Ray Log shall be run from TD 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 two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

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 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

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.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-8K

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

9. API NUMBER: 43047507780000

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: 1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 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: 10/14/2011	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	✓ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

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

Approved by the Utah Division of Oil, Gas and Mining

Date: 09/20/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Danielle Piernot	720 929-6156	Regulatory Analyst
SIGNATURE N/A		**DATE** 9/19/2011

RECEIVED Sep. 19, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047507780000

API: 43047507780000
Well Name: NBU 921-8K
Location: 1918 FSL 1923 FWL QTR NESW SEC 08 TWNP 090S RNG 210E MER S
Company Permit Issued to: KERR-MCGEE OIL & GAS ONSHORE, L.P.
Date Original Permit Issued: 10/14/2009

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

- **If located on private land, has the ownership changed, if so, has the surface agreement been updated?** ○ **Yes** ◉ **No**
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- **Have there been any physical changes to the surface location or access route which will require a change in plans from what was discussed at the onsite evaluation?** ○ **Yes** ◉ **No**
- **Is bonding still in place, which covers this proposed well?** ◉ **Yes** ○ **No**

Signature: Danielle Piernot **Date:** 9/19/2011
Title: Regulatory Analyst **Representing:** KERR-MCGEE OIL & GAS ONSHORE, L.P.

RECEIVED Sep. 19, 2011

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 0575B

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.

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UTE

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-8K

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

9. API NUMBER:
43047507780000

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:
1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 08 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: 10/4/2011	☐ ACIDIZE	✓ ALTER CASING	☐ CASING REPAIR
	✓ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	✓ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
☐ SPUD REPORT Date of Spud:	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ DRILLING REPORT Report Date:	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator requests authorization to deepen this well to the Blackhawk formation which resides in the Mesaverde formation. This request also includes a change in surface casing size, production casing program to Ultra DQX/LTC casing, and drilling options for the use of a Closed Loop system, as indicated in the attachment. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 10/13/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		10/4/2011

RECEIVED Oct. 04, 2011

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

NBU 921-8K

Surface: 1918 FSL / 1923 FWL NESW
BHL: 1918 FSL / 1923 FWL NESW

Section 8 T9S R21E

Unitah County, Utah
Mineral Lease: UTU-0575B

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

Formation	Depth	Resource
Uinta	0 - Surface	
Green River	1787	Water
Birds Nest	2096	Water
Mahogany	2670	Water
Wasatch	5255	Gas
Mesaverde	8353	Gas
Sego	10630	Gas
Castlegate	10723	Gas
MN5	11104	Gas
TVD	11704	
TD	11704	

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

Please refer to the attached Drilling Program

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

Please refer to the attached Drilling Program

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5. Drilling Fluids Program:

Please refer to the attached Drilling Program

6. Evaluation Program:

Please refer to the attached Drilling Program

7. Abnormal Conditions:

Maximum anticipated bottom hole pressure calculated at 11704' TVD, approximately equals 7,725 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 5,203 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 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.

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.

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 Drilling Program.

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KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP			DATE	October 4, 2011
WELL NAME	**NBU 921-8K**			TD	11,704' TVD 11,704' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah FINISHED ELEVATION 4,750'
SURFACE LOCATION	NESW 1918 FSL	1923 FWL	Sec 8	T 9S	R 21E
	Latitude: 40.048653	Longitude:	-109.578090		NAD 83
BTM HOLE LOCATION	NESW 1918 FSL	1923 FWL	Sec 8	T 9S	R 21E
	Latitude: 40.048653	Longitude:	-109.578090		NAD 83
OBJECTIVE ZONE(S)	Blackhawk				
ADDITIONAL INFO	Regulatory Agencies: BIM (Minerals), Tribal (Surface), UDOGM Tri-County Health Dept.				

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12 1/4"	8-5/8", 28#, IJ-55, LTC	Air mist
All water flows encountered while drilling will be reported to the appropriate agencies.					
		200'			
			11'	8-5/8", 28#, IJ-55, LTC	Air mist
	Green River @	**1,787'**			
	Top of Birds Nest @	**2,096'**			
	Mahogany @	**2,670'**			
	Preset f/ GL @ 3,120' 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 @	**5,255'**			
Mud logging program TBD Cased hole logging program from TD - surf csg			7-7/8"	4-1/2" 11.6# HCP-110 Ultra DQX/LTC csg	Water / Fresh Water Mud 8.3-13.0 ppg
	Mverde @	**8,353' TVD**			
	MVU1 @	**0,000' TVD**			
	Sego @	**10,630' TVD**			
	Castlegate @	**10,723' TVD**			
	MN5 @	**11,104' TVD**			
Max anticipated Mud required 13.0 ppg	**TD @**	**11,704' TVD 11,704' MD**			

KERR-McGEE OIL & GAS ONSHORE LP

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	3,120	28.00	IJ-55	LTC	1.72	1.29	4.55	N/A
								10,690	8,650	279,000	367,000
PRODUCTION	4-1/2"	0	to	5,000	11.60	HCP-110	DQX	1.19	1.09		3.37
	4-1/2"	5,000	to	11,704'	11.60	HCP-110	LTC	1.19	1.09	3.59	

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	2,620'	65/35 Poz + 6% Gel + 10 pps gilsonite	240	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	4,754'	Premium Lite II +0.25 pps	370	35%	11.00		3.38
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,950'	50/50 Poz/G + 10% salt + 2% gel	1,640	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. No centralizers will be used.

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.

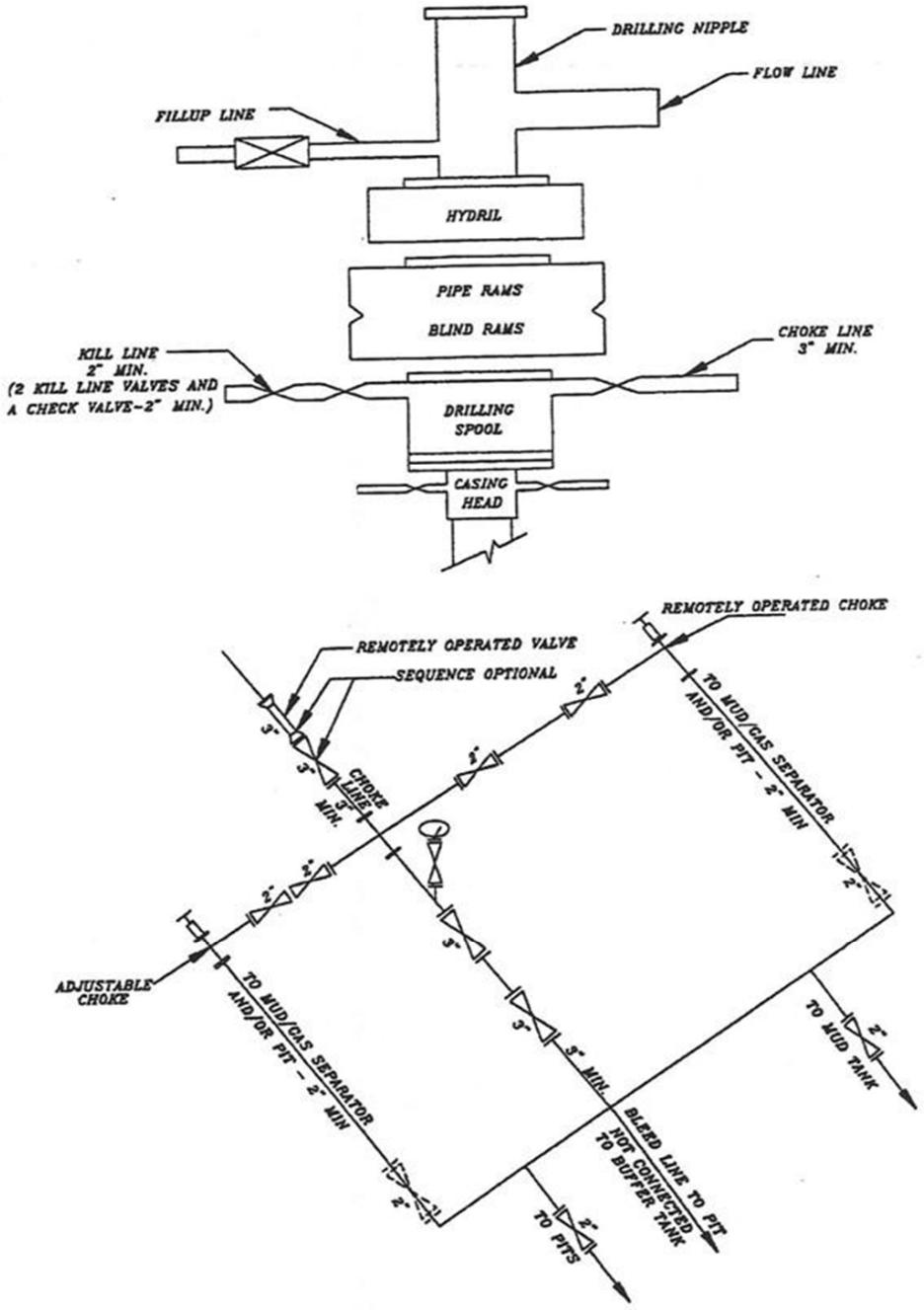
DRILLING ENGINEER: _____ **DATE:** _____

Nick Spence / Emile Goodwin / Chad Loesel

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Kenny Gathings / Lovel Young

EXHIBIT A
NBU 921-8K



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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Requested Drilling Options:

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

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

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SUBMIT AS EMAIL | Print Form

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# CAPSTAR #310
Submitted By SHEILA WOPSOCH Phone Number 435.781.7024
Well Name/Number NBU 921-8K
Qtr/Qtr NE/SW Section 8 Township 9S Range 21E
Lease Serial Number UTU-0575B
API Number 4304750778

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

Date/Time 10/31/2011 0900 HRS AM ☑ PM ☐

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

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

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OCT 28 2011
DIV. OF OIL, GAS & MINING

Date/Time 11/12/2011 0800 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 ~~LOVEL YOUNG AT 435.781.7051 FOR MORE~~

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 0575B

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

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-8K

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

9. API NUMBER:
43047507780000

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:
1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 08 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
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ 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
☑ SPUD REPORT Date of Spud: 10/31/2011	☐ 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:	☐ 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 PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 10/31/2011 AT 1430 HRS.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/2/2011

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 0575B

SUNDRY NOTICES AND REPORTS ON WELLS

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6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
UTE

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-8K

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

9. API NUMBER:
43047507780000

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:
1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 08 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
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ 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
☑ SPUD REPORT Date of Spud: 10/31/2011	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
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	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 10/31/2011 AT 1430 HRS.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE		**DATE**
N/A		11/2/2011

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

FORM 9

SUNDRY NOTICES AND REPORTS ON WELLS

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5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-8K

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

9. API NUMBER: 43047507780000

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: 1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 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
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ 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
☐ 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: 11/10/2011	☐ 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 AIR RIG ON NOV. 7, 2011. DRILLED SURFACE HOLE TO 2712'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.

Accepted by the Utah Division of Oil, Gas and Mining

FOR RECORD ONLY

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE N/A		**DATE** 11/11/2011

RECEIVED Nov. 11, 2011

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: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751627	NBU 922-36G4BS		SWNE	36	9S	22E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	10/1/2011			11/9/11	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL ON 11/01/2011 AT 1200 HRS. BHL = SWNE

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750778	NBU 921-8K		NESW	8	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	10/31/2011			11/9/11	

Comments: MIRU PETE MARTIN BUCKET RIG. BLKHK = MVRD = WSMVD
SPUD WELL ON 10/31/2011 AT 1430 HRS.

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750734	NBU 921-8N		SESW	8	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	11/1/2011			11/9/11	

Comments: MIRU PETE MARTIN BUCKET RIG. BLKHK = MVRD = WSMVD
SPUD WELL ON 11/01/2011 AT 1030 HRS.

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)

SHEILA WOPSOCK
Name (Please Print)
Signature
REGULATORY ANALYST
Title
11/1/2011
Date

(5/2000)

RECEIVED
NOV 02 2011
DIV. OF OIL, GAS & MINING

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UTU 0575B

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

7.UNIT or CA AGREEMENT NAME:
NATURAL BUTTES

1. TYPE OF WELL
Gas Well

8. WELL NAME and NUMBER:
NBU 921-8K

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

9. API NUMBER:
43047507780000

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:
1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: NESW Section: 08 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
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 12/16/2011	☐ 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 ROTARY RIG. FINISHED DRILLING FROM 2712' TO 11,705' ON DEC. 13, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED SST RIG 54 ON DEC. 16, 2011 @ 18:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Jaime Scharnowske	720 929-6304	Regulartory Analyst
SIGNATURE		**DATE**
N/A		12/19/2011

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

FORM 9

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.

5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575B

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: UTE

7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES

1. TYPE OF WELL Gas Well

8. WELL NAME and NUMBER: NBU 921-8K

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

9. API NUMBER: 43047507780000

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

PHONE NUMBER: 720 929-6514

9. FIELD and POOL or WILDCAT: NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 1918 FSL 1923 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NESW Section: 08 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
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
✓ DRILLING REPORT Report Date: 1/7/2012	☐ 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 01/07/2012 AT 1900 HRS. 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
January 11, 2012

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst
SIGNATURE N/A		**DATE** 1/9/2012

RECEIVED: Jan. 09, 2012

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. UTU0575B

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: JAIME L. SCHARNOWSKE
E-Mail: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No. NBU 921-8K

3. Address PO BOX 173779
DENVER, CO 80217

3a. Phone No. (include area code) Ph: 720-929-6304

9. API Well No. 43-047-50778

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

At surface NESW 1918FSL 1923FWL

At top prod interval reported below NESW 1918FSL 1923FWL

At total depth NESW 1918FSL 1923FWL

10. Field and Pool, or Exploratory NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey or Area Sec 8 T9S R21E Mer SLB

12. County or Parish UINTAH

13. State UT

14. Date Spudded	15. Date T.D. Reached	16. Date Completed	17. Elevations (DF, KB, RT, GL)*
10/31/2011	12/13/2011	☐ D & A ☒ Ready to Prod. 01/07/2012	4750 GL

18. Total Depth:	19. Plug Back T.D.:	20. Depth Bridge Plug Set:
MD 11705 TVD	MD 11653 TVD	MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
HDIL/ZDL/CNGR-CBL/GR-SYNTHETIC COMBO-RSL/SM

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 J-55	28.0	0	2726		635		0	
7.875	4.500 P-110	11.6	0	11698		1850		3384	

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	11201							

25. Producing Intervals / 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) MESAVERDE	9399	11500	9399 TO 11500	0.360	168	OPEN
B)						
C)						
D)						

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

Depth Interval	Amount and Type of Material
9399 TO 11500	PUMP 14,903 BBLS SLICK H2O & 275,375 LBS 30/50 TLC, 37,856 30/50 WHITE

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
01/07/2012	01/09/2012	24	→	0.0	1995.0	593.0			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	2000	2800.0	→	0	1995	593		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 #131273 VERIFIED BY THE BLM WELL INFORMATION SYSTEM

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

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	1824
				BIRD'S NEST	2082
				MAHOGANY	2628
				WASATCH	5255
				MESAVERDE	8410

32. Additional remarks (include plugging procedure):
The first 210?of the surface hole was drilled with a 12 ?? bit. The remainder of surface hole was drilled with an 11? bit. Attached is the chronological well history, perforation report & 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 #131273 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal

Name *(please print)* JAIME L. SCHARNOWSKE Title REGULATORY ANALYST

Signature (Electronic Submission) Date 02/21/2012

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 ****

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K			Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011		End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
11/7/2011	10:30 - 0:00	13.50	MIRU	01	A	P		MOVE RIG F/NBU 922-36I PAD T/NBU 921-8K
11/8/2011	0:00 - 1:30	1.50	MIRU	01	A	P		MOVE RIG F/NBU 922-36I PAD T/NBU 921-8K
	1:30 - 10:00	8.50	MIRU	01	B	P		R/U ON NBU 921-8K
	10:00 - 15:30	5.50	ALL	08	B	Z		PUMP DOWN, WAIT ON PUMP HAND
	15:30 - 17:00	1.50	DRLSUR	02	B	P		SPUD 11/08/2011 @ 15:30, DRILL 12.25" HOLE 44'-210'. (166', 110'/HR) RPM=45, WOB 5-15K. PSI ON/OFF 600/400. UP/DOWN/ ROT 20/20/20 K. DRAG 0 K. CIRC RESERVE W. 8.3# WATER. DRILL DOWN TO 210' W/ 6" COLLARS.
	17:00 - 19:30	2.50	DRLSUR	06	A	P		POOH, PU, 11" BIT AND DIRECTIONAL TOOLS, TIH T/ 210'
	19:30 - 0:00	4.50	DRLSUR	02	B	P		DRILL F/210 T/670 (460' @ 102' PER HR) WOB 20K, PSI ON/OFF 1200/980, RPM 50 UP/DWN/ROT 50/45/48
11/9/2011	0:00 - 12:00	12.00	DRLSUR	02	B	P		DRILL F/670 T/2050 (1590' @ 132' PER HR) WOB 24K, PSI ON/OFF 1850/1700, RPM 60 UP/DWN/ROT 70/67/70
	12:00 - 20:30	8.50	DRLSUR	02	B	P		DRILL F/2050 T/2712 (662' @ 132' PER HR) WOB 24K, PSI ON/OFF 2000/1850, RPM 60 UP/DWN/ROT 76/73/76 TD@20:30
	20:30 - 22:30	2.00	DRLSUR	05	C	P		CIRC. F/CSNG
	22:30 - 0:00	1.50	DRLSUR	06	D	P		LDDS BHA & DIR. TOOLS
11/10/2011	0:00 - 3:00	3.00	DRLSUR	06	D	P		LDDS, BHA, DIR TOOLS
	3:00 - 3:30	0.50	DRLSUR	12	A	P		R/U TO RUN CSG AND CMT
	3:30 - 7:30	4.00	DRLSUR	12	C	P		RUN CSG, 61 JOINTS 8.625 CSG
	7:30 - 8:30	1.00	DRLSUR	12	B	P		HOLD SAFETY MEETING, RUN 200' OF 1". RIG DOWN RIG MOVE OFF WELL, REBUILD DITCH. RIG UP CEMENT TRUCK, 2" HARD LINES,. CEMENT HEAD, LOAD PLUG. LAND CSNG @08:30
	8:30 - 10:30	2.00	DRLSUR	12	B	P		HOLD SAFETY MEETING. TEST LINES TO 2000 PSI. PUMP 25 BBLS OF 8.4# H20 AHEAD,FULL RETURNS PUMP 20 BBLS OF 8.4# GEL WATER AHEAD. PUMP 220 SX(149.6 BBLS) 11# 3.82 YIELD LEAD CEMENT, PUMP 200 SX (41 BBLS) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE).DROP PLUG ON FLY AND DISPLACE W/ 80 BBLS OF 8.4# H20. LIFT PRESSURE WAS 600 PSI, BUMP PLUG AND HOLD 1100 PSI FOR 5 MIN. FLOAT HELD , RETURNS THRU OUT JOB ,25 BBLS LEAD CEMENT TO SURF. PUMED 140 SX (28.7 BBLS) 15.8# CEMENT DOWN 1".
	10:30 - 12:30	2.00	DRLSUR	13	A	P		WAIT ON CMT 1.5 HOURS, CMT FELL 50'. PUMP 75 SX (15.3 BBLS) DOWN BACKSIDE. CMT STAYED AT SURFACE
12/1/2011	19:00 - 0:00	5.00	DRLPRO	01	A	P		RIG DOWN & PREPARE TO MOVE RIG
12/2/2011	0:00 - 6:00	6.00	DRLPRO	01	E	P		RIG DOWN AND PREPARE FOR TRUCKS
	6:00 - 18:00	12.00	DRLPRO	01	A	P		MOVE IN AND RIG UP
	18:00 - 0:00	6.00	DRLPRO	21	C	P		SHUT DOWN FOR NIGHT
12/3/2011	0:00 - 7:00	7.00	DRLPRO	21	C	P		WAIT ON DAYLIGHT

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011	End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:00 - 0:00	17.00	DRLPRO	01	B	P		MOVE IN & RIG UP. STOOD DERRICK @ 16:00, RIG UP FLOOR & PICK UP TOP DRIVE, PUT UP WINTER SHED.
12/4/2011	0:00 - 11:00	11.00	DRLPRO	01	B	P		MIRU. PICK UP TOP DRIVE. RIG UP FLOOR. PUT UP WINTER SHED. HOOK UP PUMPS
	11:00 - 23:30	12.50	DRLPRO	14	A	P		NIPPLE UP BOP & RIG UP STRATA. REROUTE CHOKE LINE. CHANGE FLOW LINE. CHANGE OUT GAS BUSTER LINE. INSTALL STRATA EQUIPMENT.
	23:30 - 0:00	0.50	DRLPRO	15	A	P		TEST BOP.
12/5/2011	0:00 - 4:00	4.00	DRLPRO	15	A	P		TEST BOP. TEST CASING TO 1500 PSI FOR 30 MINUTES. TEST FLOOR VALVES, IBOP, PIPE & BLIND RAMS, KILL LINE VALVES, STRATA VALVES, CHOKE LINE VALVES, CHOKE LINE, & CHOKE MANIFOLD VALVES. 250 PSI LOW 5000 PSI HIGH. TEST ANNULAR 250 PSI/ 2500 PSI. FUNCTION BOTH CHOKES WITH PRESSURE. WINTERIZE SYSTEM.
	4:00 - 7:00	3.00	DRLPRO	15	A	P		TEST STRATA SYSTEM. WINTERIZE SYSTEM.
	7:00 - 11:00	4.00	DRLPRO	08	C	P		WOR K ON PIT EDGE & SET FLARE STACK
	11:00 - 17:30	6.50	DRLPRO	06	A	P		RIG UP FRANKS LAY DOWN MACHINE & PICK UP BHA & DP
	17:30 - 19:00	1.50	DRLPRO	06	A	P		INSTALL STRATA ROTATING RUBBER.
	19:00 - 20:00	1.00	DRLPRO	09	A	P		SLIP & CUT 90' DRLG LINE.
	20:00 - 21:00	1.00	DRLPRO	02	F	P		TAG CEMENT @ 2655'. DRLG CEMENT 2655 TO 2708'. CLEAN OUT TO 2726'.
	21:00 - 0:00	3.00	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SRVEY. 2726' TO 2980'. WOB 12K. TD RPM 55. MMRPM 153. PUMPING 530 GPM. PSI ON/OFF 1830/1675. TORQUE ON/OFF 5890/3850
12/6/2011	0:00 - 8:30	8.50	DRLPRO	02	B	P		DRLG. ROTATE/SLIDE/SURVEY. 2980' TO 4042'. 1062' @ 124.9FPH. WOB 12/ 18K, TD RPM 55. MM RPM 153. PUMPING 530 GPM. PSI ON/OFF 2030/1750. TORQUE ON/OFF 7020/5880
	8:30 - 9:00	0.50	DRLPRO	07	A	P		SERVICE RIG. FUNCTION BOP
	9:00 - 0:00	15.00	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 4042' TO 5950'. 1908' @ 127.2 FPH. WOB 20 TO 22K. TD RPM 50. MM RPM 150. PUMPING 520 GPM. PSI ON/OFF 2450/2100. TORQUE ON/OFF 7810/5880. OCCASIONAL 4 TO 6' FLARE.
12/7/2011	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 5,950' TO 7,475', 1,525',@ 105.1 FPH. WOB 20 / 22K. TD RPM 40/55 MM RPM 150. PUMPING 500 GPM. PSI ON/OFF 2355/2145. TORQUE ON/OFF 4825/6875. NO FLARE.
	14:30 - 15:00	0.50	DRLPRO	07	A	P		SERVICE RIG, FUNCTION BOP
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 7,475 TO 8047, 572,@ 63.5 FPH. WOB 20 / 22K. TD RPM 55 MM RPM 150. PUMPING 500 GPM. PSI ON/OFF 2455/2250. TORQUE ON/OFF 5885/6550. NO FLARE.
12/8/2011	0:00 - 15:30	15.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 8,047 TO 8905,858@ 55.3 FPH. WOB 22K. TD RPM 55 MM RPM 153.@ 511,GPM, PSI ON/OFF 2555/2245. TORQUE ON/OFF 6685/5825, FLARE INTERMITTENT 3' TO 6'
	15:30 - 16:00	0.50	DRLPRO	07	A	P		SERVICE RIG FUNCTION BOP

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011	End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 21:30	5.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 8,905 TO 9284, 379,@ 68.9 FPH. WOB 22K. TD RPM 41 MM RPM 148. @ 511,GPM. PSI ON/OFF 2860/2715. DIFF. 379,TORQUE ON/OFF 8250/7290. FLARE 4' TO 6'
	21:30 - 23:30	2.00	DRLPRO	08	B	Z		HUNG DERRICK BOARD WITH TOP DRIVE PULLING IT DOWN. REPAIR LINK CYLINDER AND REMOVE DAMAGED FINGER FROM OFF DRILLERS SIDE OF BOARD.SEURE DAMAGED BOARE FOR DRILLING. WELDER TO BE ON LOCATION WITH PARTS TO FAB AND START REPAIRS IN THE AM.
	23:30 - 0:00	0.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 9,284 TO , 9380, 96'@ 192 FPH. WOB 22K. TD RPM 42 MM RPM 148.@ 511,GPM. PSI ON/OFF 2855/2700. DIFF. 481,TORQUE ON/OFF 8970/7280. FLARE 4' TO 6'
12/9/2011	0:00 - 16:30	16.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 9,380 TO 10,143, 763' AROP 46.2, WOB 20/22K. TD RPM 40 MM RPM 145.@ 501,GPM. PSI ON/OFF 2645/2565. DIFF. 410/165,TORQUE ON/OFF 9625/6285. NO FLARE
	16:30 - 17:00	0.50	DRLPRO	07	A	P		RIG SERVICE, FUNCTION BOP
	17:00 - 18:30	1.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY, 10,143, TO 10,218, 75' AROP 50, WOB 20/22K. TD RPM 40 MM RPM 145.@ 501,GPM. PSI ON/OFF 2715/2560. DIFF. 425/205,TORQUE ON/OFF 9640/5845. FLARE 2' TO 3'
	18:30 - 20:00	1.50	DRLPRO	22	L	Z		PROBLEM WITH ROT. HEAD RUBBER LEEKING CHANGE OUT RUBBER.
	20:00 - 0:00	4.00	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 10,218 TO 10,350, 132' AROP 33, WOB 20/22K. TDRPM 40 MMRPM 144.@ 500,GPM. PSI ON/OFF 2807/2575. DIFF. 385/140,TORQUE ON/OFF 9685/7185. FLARE 5 TO 8
12/10/2011	0:00 - 12:30	12.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 10,350 TO 10,716,366' AROP 29.2, WOB 19/20K,TDRPM 38/40 MMRPM 135.@ 470,GPM. PSI ON/OFF 2807/2575. DIFF. 225,TORQUE ON/OFF 8560/7025,FLARE 5 TO 8, BYPASS DRILL CHOKE@ 10:00 AM, DRILLING THROUGH MANIFOLD, MUD WT. 9.8 CGS. 100 PSI.NO FLAR.
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE AND FUNCTION BOP,INSTALL NEW DIVING BOARD.
	13:00 - 16:30	3.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 10,716 TO 10,793,77' AROP 22, WOB 19/20K,TDRPM 38/40 MMRPM 135.@ 470,GPM. PSI ON/OFF 2825/2375. DIFF. 150,TORQUE ON/OFF 9745/8210, TORQUE 10,725/11,550 IN TOP OF CASTLEGATE + BIT HOPPING AND CHATTER.
	16:30 - 18:30	2.00	DRLPRO	05	A	P		CIRC.CLEAN TWO BOTTOMS UP,MIX AND PUMP 110 Bbl. 12.4 MUD DISPLACE WITH 1400 STROKES. FLOW CHECK, SPOT ON BOTTOM, 10793 TOP OF PILL AT 8900 EMW 11.3
	18:30 - 0:00	5.50	DRLPRO	06	A	P		TRIP FOR BIT FIRST 8 STANDS TIGHT OVER PULL 40 TO 50K STRING PULLED DRY @ 8580 REMOVE ROT.HEAD, BLOW STAND PIPE, AND STRATA EQUIPMENT. FLOW CHECK, CONT. TRIP OUT TIGHT SPOT AT 5379 BACK REAM F/ 5379

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011	End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/11/2011	0:00 - 1:00	1.00	DRLPRO	06	A	P		BACK REAM TIGHT SPOT FROM 5373 TO 5186, 187 ft.
	1:00 - 4:00	3.00	DRLPRO	06	A	P		FINISH TOOH TO DIR. TOOLS NO PROBLEMS.
	4:00 - 8:00	4.00	DRLPRO	06	A	P		BREAK BIT CHANGE MOTOR MWD TOOL ASSEMBLE WASHED CHANGE OUT M/U PROGRAM & ORIENT TOOLS CIRC. & BLOW DOWN STAND PIPE.
	8:00 - 11:00	3.00	DRLPRO	06	A	P		TRIP IN WITH NEW ASS.TO CASING SHOE.
	11:00 - 13:00	2.00	DRLPRO	09	A	P		CUT DRILLING LINE 84', CLEAN FLOOR
	13:00 - 17:30	4.50	DRLPRO	06	A	P		TRIP IN TAG BRIDGE AT 5155' WASH AND REAM TO 5450', TIH FILLING PIPE TO 10,617 NO DRAG M/O TOP DRIVE FILL PIPE CIRC. 15 MINS. AT 65 SPM START HEAVY MUD MOVING
	17:30 - 19:30	2.00	DRLPRO	03	E	P		WASH & REAM F/ 10,617 TO 10,793 BOTTOM,TIGHT AT 10,750 BOTTOMS UP GOOD FLAIR 230 PSI ON MANIFOLD NO CHOCK FLAIR 40 TO 45 FT. HIGH FOR 30 MINS. PRESSURE DROPED OFF FLAIR 4 TO 5 FT. HIGH.
	19:30 - 0:00	4.50	DRLPRO	02	B	P		DRLG ROTATE/SLIDE/SURVEY. 10,793 TO 10,879, 86' AROP 19.1, WOB 20K. TDRPM 40 MMRPM 80.@ 475,GPM. PSI ON/OFF 2685/2475. DIFF. 110,TORQUE ON/OFF 9145/7645. FLARE 5 TO 6
12/12/2011	0:00 - 14:30	14.50	DRLPRO	02	B	P		DRLG ROTATE/SURVEY. 10,879 TO 11,283, 404' AROP 27.8, WOB 20K.TDRPM 38 MMRPM 90.@ 475,GPM. PSI ON/OFF 2695/2490. DIFF. 160/85,TORQUE ON/OFF 9875/7548. FLARE 8 TO 10 MUD LOSS 560+ Bbls. OFF DRILL CHOCK AT 11:30 AM MIX LCM SWEEPS + 3 SX. SAWDUST PER HR. LOSS STOPED @ 16:30
	14:30 - 15:00	0.50	DRLPRO	02	B	P		RIG SERVICE, FUNCTION BOP.
	15:00 - 0:00	9.00	DRLPRO	02	B	P		DRLG ROTATE/SURVEY. 11,283, TO 11,625 342' AROP 38, WOB 20K.TDRPM 40 MMRPM 86.@ 455,GPM. PSI ON/OFF 2780/2605. DIFF. 217/125,TORQUE ON/OFF 10,825/8250. FLARE 15 TO 35, SAWDUST 2 SX. PER HR.
12/13/2011	0:00 - 2:00	2.00	DRLPRO	02	B	P		DRLG ROTATE/SURVEY. 11,625, TO 11,705 TD WELL @ 02:00 12/13/11, 80' AROP 40, WOB 20K.TDRPM 40 MMRPM 86.@ 455,GPM. PSI ON/OFF 2780/2605. DIFF. 217/125,TORQUE ON/OFF 10,825 /8250. FLARE 15 TO 35, SAWDUST 2 SX. PER HR.
	2:00 - 4:00	2.00	DRLPRO	05	C	P		CIRC.TWO BOTTOMS UP CLEAN,MIX PUMP 125 BBLS. 12.5 MUD DISPLACE WITH 1300 STROKES. EMW 11.2 FLOW CHECK,
	4:00 - 5:30	1.50	DRLPRO	06	E	P		TRIP OUT F/ 11705 TO 10681 NO DRAG NO PROBLEMS.
	5:30 - 9:30	4.00	DRLPRO	06	E	P		CONT.TRIP OUT TO CASING SHOE DRAG AT 5200 20,000
	9:30 - 15:00	5.50	DRLPRO	06	E	P		TRIP IN TAG BRIDGE@ 5000, 5415, CONT. TRIP IN TAG BRIDGE AT 8137 & 11400 M/U TD WASH REAM TO 11705 BOTTOM GAS TO SURFACE GOOD FLAIR 15 TO 80 FT. ANNULAR PRESSURE 139 PSI. (MUD LOSS 110 Bbls.)

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011	
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011		End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:00 - 22:00	7.00	DRLPRO	05	A	P		CIRC. COND. BALANCE MUD TO 10.8 VIS 51 CIRC. CLEAN MIX PUMP 125 Bbls 12.4 MUD DISPLACE W/ 1300 STROKES TOP AT 9605 EMW 11.2 FLOW CHECK
	22:00 - 0:00	2.00	DRLPRO	06	B	P		TRIP OUT FOR LOGS.
12/14/2011	0:00 - 5:30	5.50	DRLPRO	06	B	P		TOOH FOR LOGS@5300 SLUG PIPE, FLOW CHECK, FINISH TRIP OUT L/D DIRECTIONAL TOOLS,MUD MOTOR & BIT.
	5:30 - 6:30	1.00	DRLPRO	11	G	P		R/U BAKER ATLAS WIRE LINE
	6:30 - 9:00	2.50	DRLPRO	11	G	Z		ATTEMPT TO LOG START IN W/ LOGGING TOOLS & COUNTER WHEEL BUSTED R/D W/O LOGGING TRUCK
	9:00 - 13:30	4.50	DRLPRO	11	G	P		R/U BAKER ATLAS WIRE LINE RUN IN HOLE W/ LOG TRIPLE COMBO BRIDGE @ 8776 WORK TOOLS NO LUCK LOG F/ 8,776 TO SURFACE. RIG DOWN ATLAS W/L AND STANDBY FOR SECOND RUN AFTER L/D DRILL PIPE.
	13:30 - 14:30	1.00	DRLPRO	06	F	P		TRIP IN HWDP, INSTALL ROT. HEAD TIH TO 2000 FT.
	14:30 - 16:00	1.50	DRLPRO	09	A	P		CUT DRILLING LINE 95'
	16:00 - 20:00	4.00	DRLPRO	06	F	P		TRIP IN FOR CONDTION HOLE F/ LOGS AND L/D DP.
	20:00 - 21:30	1.50	DRLPRO	05	A	P		M/U TD WASH 246 FT. TO BOTTOM NO FILL CIRC. WITH 86 SPM TO START MUD TO MOVING TO CUT DOWN ON LOSSES GOOD FLAIR 15 TO 45 FT. ON FLOW LINE AND GAS BUSTER.
	21:30 - 0:00	2.50	DRLPRO	05	B	P		CIRC. COND. MUD TO 11.5 48 VIS. FOR LOGS. MUD LOSS 260+Bbls. MUD LOSS TO GREAT, PUMP 105 SPM FOR HOLE CLEANING. UNABLE TO REMOVE JETS FROM BIT. PUT IN WITH LOCK TIGHT.COND MUD AT 11.3 MIX LCM AND STOP LOSS AT 11.3 NO LIQUID MUD ON LOCATION, MIX 100 Bbls 12.5 MUD TO SPOT ON BOTTOM .
12/15/2011	0:00 - 1:00	1.00	DRLPRO	05	A	P		CIRC.COND. MUD TO 11.3, PUMP AND SPOT 12.5 MUD ON BOTTOM FOR LOGS & RUN CASING.
	1:00 - 11:00	10.00	DRLPRO	06	B	P		TRIP OUT LAIDING DOWN DRILL PIPE & HEVI-WATE DRILL PIPE PULL FOR LOGS & CASING RUN
	11:00 - 12:00	1.00	DRLPRO	06	B	P		PULL WEAR BUSHING & RIG DOWN PICK PICK UP MICHENE TO LOG WELL.
	12:00 - 13:00	1.00	DRLPRO	11	G	P		RIG UP BAKER ATLAS WIRE LINE.
	13:00 - 15:30	2.50	DRLPRO	11	G	P		RUN TRIPLE COMBO TAG BRIDGE AT 8,765 WORK THROUGH CONT.RUN IN HOLE TO 11,050 TAG BRIDGE WORK TOOL NO LUCK GEOLOGIST DECIDED NOT TO LOG THE WELL FROM 11,050 TO 8,765, POOH WITH TOOLS.
	15:30 - 16:00	0.50	DRLPRO	11	G	P		RIG DOWN BAKER ATLAS W/L
	16:00 - 18:00	2.00	DRLPRO	12	A	P		SAFETY MEETING ALL PERSONNEL,RIG UP FRANKS CASING CREW AND LAY DOWN MACHINE.
	18:00 - 0:00	6.00	DRLPRO	12	C	P		RUN 4.5 11.6 LT&C CASING MAKE UP SHOE TRACK TEST FLOAT EQUIPMENT, RUN CASING RAN AND FILL 161JTS. + TWO PUP JTS.@ 6,721. FT.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K	Rig Name No: PROPETRO 11/11, SST 54/54
Event: DRILLING	Start Date: 10/27/2011	End Date: 12/16/2011
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/16/2011	0:00 - 4:30	4.50	PROD	12	C	P		RUN 120 JTS. OF 4.5 11.6 DQX, CASING. CASING RAN AS FOLLOWS RAN 160 JTS OF 4.5", 11.6#, P-110, LT&C CASING & 120 JTS OF 4.5", 11.6#, P-110, DQX CASING TOTAL JTS. 280, WITH WEATHERFORD FLOAT SHOE @11,697' & FLOAT COLLAR@11,659' PLACED 1 JT ABOVE SHOE. 17 CENTRALIZERS SPACED @ 15' ABOVE SHOE, TOP OF SECOUND COLLARS, & EVERY 3RD COLLAR TO 9,689' 2 MARKER JOINTS AT 11,108' & 8,333' + ONE PUP AT 6,721 + X-OVER AT 6,744, LAND CASING @ 11,697' PU 155K. SO 115K. STRING WT 135K
	4:30 - 6:00	1.50	PROD	05	A	P		RIG UP CIRC.CASING & RIG DOWN FRANKS CASING CREW AND LAY DOWN MACHINE.
	6:00 - 8:00	2.00	PROD	05	A	P		CIRC.OUT GAS FLAIR 35 TO 40 FT. MUD CUT F/11.3 TO 10.9, SAFETY MEETING WITH B J & RIG CREW.
	8:00 - 9:00	1.00	PROD	12	D	P		RIG UP B J CEMENT EQUIPMENT TEST LINES TO 5000 PSI.
	9:00 - 11:30	2.50	PROD	12	E	P		CEMENT 4 1/2 CASING AS FOLLOWS PUMP 25 BBLS OF FRESH WATER SPACER MIX AND PUMP LEAD CEMENT 530 SKS.@12 PPB YLD 2.26 MIX WATER GPS 2.48, 214 Bbls. MIX AND PUMP TAIL CEMENT 1320 SKS @14.3 PPB. YLD 1.31 MIX WATER GPS 5.91 308 Bbls,SHUT DOWN. WASH LINES. DROP PLUG DISPLACE @ 7 BPM W/ 181 Bbls.FRESH WATER + CLAYCARE + 1 GAL. MAGNACIDE. BUMP PLUG 3394 TO 4010 PSI HOLD 5 MINS.BLEAD BACK FLOATS HELD. 15 Bbls. OF SPACER WATER TO PIT GOOD RETURNS THROUGH OUT JOB. RIG DOWN B J SERVICE. LIFT 2833 PSI. ADD.PL2+6%Gel+5#KOL+0.4%SMS+0.25#CF+0.3% R-3 50:50:2+10%NaCL+0.2%R-3+0.05#SF+0.002FP-6L
	11:30 - 12:30	1.00	PROD	13	A	P		CLOSE VALVES ON CEMENT HEAD WHILE RIG DOWN BJ CEMENT LINES AND LOAD OUT SAME. OPEN VALVES REMOVE CEMENT HEAD LAST THING.
	12:30 - 15:30	3.00	PROD	14	A	P		NIPPLE DOWN BOP, FLOW LINE,STRATS VALVES & LINES,CHOCK & KILL LINE, SET CASING SLIPS WITH 95K. MAKE ROUGH CUT ON CASING. RIG DOWN,CLEAN PITS.TWO DAY CREWS ON LOCATION FOR RIG MOVE.
	15:30 - 18:00	2.50	PROD	01	E	P		CLEAN PITS WITH CRAIG'S SUPPER VAC.RIG DOWN TOP DRIVE PREPARE FOR TRUCKS, L&S TO BE ON LOCATION AT 07:00 FOR RIG MOVE. (RIG RELEASE @ 18:00 12/16/11)

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-8K	**Wellbore No.**	OH
Well Name	NBU 921-8K	**Wellbore Name**	NBU 921-8K
Report No.	1	**Report Date**	11/8/2011
Project	UTAH-UINTAH	**Site**	NBU 921-8K
Rig Name/No.		**Event**	COMPLETION
Start Date		**End Date**	1/7/2012
Spud Date	11/8/2011	**Active Datum**	RKB @4,768.00usft (above Mean Sea Level)
UWI	NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

1.3 General

Contractor	JW WIRELINE	**Job Method**	PERFORATE	**Supervisor**	STEVE WALL, SR.
Perforated Assembly		**Conveyed Method**	WIRELINE		

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	8,397.0 (usft)-11,500.0 (us	**Start Date/Time**	1/4/2012 12:00AM
No. of Intervals	53	**End Date/Time**	1/6/2012 12:00AM
Total Shots	263	**Net Perforation Interval**	81.00 (usft)
Avg Shot Density	3.25 (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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
	WASATCH/			8,397.0	8,398.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
	MESAVERDE/			8,414.0	8,415.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,433.0	8,434.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,489.0	8,490.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,518.0	8,519.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,547.0	8,548.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,610.0	8,612.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,650.0	8,652.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,762.0	8,764.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,919.0	8,920.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			8,939.0	8,940.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			8,971.0	8,972.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			8,991.0	8,992.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,006.0	9,007.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,021.0	9,022.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
	MESAVERDE/			9,069.0	9,070.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,119.0	9,121.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,186.0	9,188.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,276.0	9,278.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
	MESAVERDE/			9,326.0	9,328.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,399.0	9,400.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,430.0	9,431.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

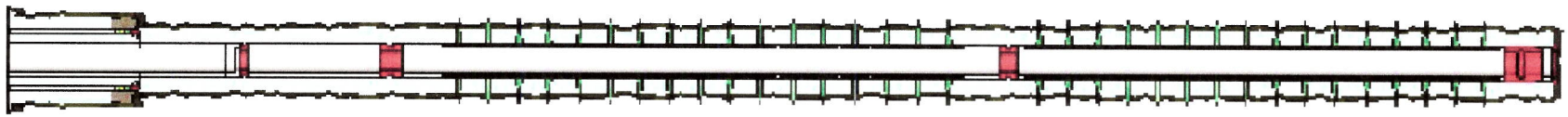
Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/6/2012 12:00AM	MESAVERDE/			9,465.0	9,466.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,484.0	9,485.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,545.0	9,546.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,594.0	9,595.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,609.0	9,610.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,643.0	9,644.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,694.0	9,695.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,709.0	9,710.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,740.0	9,742.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,860.0	9,862.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,880.0	9,882.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			9,950.0	9,952.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			10,040.0	10,042.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			10,110.0	10,112.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/6/2012 12:00AM	MESAVERDE/			10,139.0	10,141.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,160.0	11,162.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,184.0	11,188.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,200.0	11,202.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,236.0	11,237.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,246.0	11,248.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,264.0	11,266.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
1/5/2012 12:00AM	MESAVERDE/			11,276.0	11,278.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,290.0	11,291.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,332.0	11,334.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,342.0	11,344.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
1/5/2012 12:00AM	MESAVERDE/			11,364.0	11,366.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
1/4/2012 12:00AM	MESAVERDE/			11,446.0	11,448.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/4/2012 12:00AM	MESAVERDE/			11,461.0	11,462.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/4/2012 12:00AM	MESAVERDE/			11,471.0	11,472.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/4/2012 12:00AM	MESAVERDE/			11,484.0	11,486.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
1/4/2012 12:00AM	MESAVERDE/			11,498.0	11,500.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K			Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No:
Event: COMPLETION	Start Date:		End Date: 1/7/2012
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
1/3/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, RIGGING DOWN & MOVING EQUIP.
	7:30 - 12:00	4.50	COMP	30	A	P		RIG DWN OFF McCOOK 1-170, MIRU, ND WH NU BOPS, RU FLOOR & TBG EQUIP.
	12:00 - 17:00	5.00	COMP	31	I	P		TALLY & PU 37/8 BIT & 262 JTS 23/8 L-80 TBG OFF FLOAT, EOT @ 8335', POOH W/ 80 JTS EOT @ 5730' SWI SDFN.
1/4/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, POOH W/ TBG, WATCHING PINCH POINTS.
	7:30 - 9:30	2.00	COMP	31	I	P		SICP 0 PSI.POOH W/ REM 182 JTS 23/8 L-80, L/D BIT, RD FLOOR, ND BOPS, NU FV.
	9:30 - 11:00	1.50	COMP	33	C	P		RU B&C TEST CSG TO 1,200 PSI FOR 15 MIN, LOST 8 PSI, TEST TO 3650 PSI FOR 15 MIN, LOST 50 PSI. TEST TO 9,100 PSI FOR 30 MIN, LOST 100 PSI. GOOD TEST.
	11:00 - 15:00	4.00	COMP	34	H	P		RU JW RIH W/ 31/8 EXP 23 GRM, .36" HLS 120 DEG PHASING GUNS & PERF 1ST STG AS OF PROCEDURE, PREP TO FRAC IN AM. SWI SDFN.
1/5/2012	6:30 - 7:00	0.50	COMP	48		P		HSM W/ SUPERIOR. STAYING AWAY FROM HIGH PRESSURE LINES.
	7:00 - 8:10	1.17	COMP	36	E	P		(STG #1) PRIME PUMPS & LINES, TEST TO 9500 PSI, SET POPOFF @ 8800 PSI, SET KILLS ON 2 TRKS @ 8800 PSI, 4 TRKS @ 8600 PSI. WHP 481 PSI, BRK 4218 PSI @ 4.8 BPM. ISIP 3635 PSI, FG .76. SPOT ACID ON PERFS SHUT DWN LET SOAK FOR MINS. CALC HOLES OPEN @ 47.9 BPM @ 7625 PSI = 74% HOLES OPEN. MP 8176 PSI, MR 52.2 BPM, AP 7551 PSI, AR 49.5 BPM ISIP 4333 PSI, FG .82 NPI 698 PSI.
	8:10 - 15:12	7.03	COMP	36	E	P		(STG #2) PU 4-1/2 HAL 10-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 90 DEG PHASING, SET CBP @ 11,396', PERF WELL AS OF PROCEDURE. 9:50 WHILE BUMPING UP WIRE LINE PULLED OUT OF ROPE SOCKET, ORDERED WIRE LINE FISHING TOOLS. RIH TAG FISH, GOT LOOSE, POOH LD FISH.13:15 (3.65 HRS.) WHP 2917 PSI, BRK 4691 PSI @ 4.1 BPM. ISIP 4213 PSI, FG .81. CALC HOLES OPEN @ 46.1 BPM @ 8031 PSI = 73% HOLES OPEN. MP 8819 PSI, MR 50.7 BPM, AP 7272 PSI, AR 49.8 BPM ISIP 5533 PSI, FG .93 NPI 1320 PSI. HAD TO CUT SAND SHORT BY 7371 LBS DUE TO HIGH PRESSURE

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K			Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No:
Event: COMPLETION	Start Date:		End Date: 1/7/2012
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	15:12 - 18:47	3.58	COMP	36	E	P		(STG # 3) PU 4-1/2 HAL 10-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 11,311', PERF WELL AS OF PROCEDURE. WHP 2575 PSI, BRK 4059 PSI @ 3.7 BPM. ISIP 3625 PSI, FG .76. CALC HOLES OPEN @ 49.0 BPM @ 7042 PSI = 89% HOLES OPEN. MP 8504 PSI, MR 49.5 BPM, AP 7096 PSI, AR 48.9 BPM ISIP 3889 PSI, FG .78 NPI 264 PSI. HAD TO CUT SHORT 22,604 LBS SAND LOST 1 PUMP, LOST SUCTION HOSE ON 1 PUMP, LOST SUCTION HOSE ON BLEANDER. HAD TO FLUSH EARLY.WENT 10 BBLS OVER ON FLUSH FOR PLUG SETTING.
	18:47 - 20:30	1.72	COMP	34	H	P		(STG #4) PU 4-1/2 HAL 10-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 11,226', PERF WELL AS OF PROCEDURE. POOH SWI SDFN
1/6/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, WORKING W/ FRAC CREW & WIRELINE.
	7:30 - 9:40	2.17	COMP	46	E	P		WAIT ON SUPERIOR TO ARIVE AFTER 10 HRS OFF & GET EQUIP READY.HAD A BROKEN GROUND WIRE HAD TO GET FIXED.TEST LINES TO 9000.
	9:40 - 11:08	1.47	COMP	36	E	P		(STG #4) WHP 1066 PSI, BRK 4810 PSI @ 3.4 BPM. ISIP 4363 PSI, FG .83. CALC HOLES OPEN @ 45.3 BPM @ 8111 PSI = 71% HOLES OPEN. MP 8384 PSI, MR 49.6 BPM, AP 7865 PSI, AR 47.0 BPM ISIP 4271 PSI, FG .82 NPI -92 PSI.
	11:08 - 12:47	1.65	COMP	36	E	P		(STG # 5) PU 4-1/2 HAL 8-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 10,171', PERF WELL AS OF PROCEDURE. WHP 2070 PSI, BRK 3420 PSI @ 5.1 BPM. ISIP 3100 PSI, FG .75. CALC HOLES OPEN @ 41.5 BPM @ 6184 PSI = 71% HOLES OPEN. MP 7173 PSI, MR 50.7 BPM, AP 6639 PSI, AR 47.1 BPM ISIP 3530 PSI, FG .79 NPI 430 PSI.
	12:47 - 14:17	1.50	COMP	36	E	P		(STG # 6)PU 4-1/2 HAL 8-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 9912', PERF WELL AS OF PROCEDURE. WHP 2098 PSI, BRK 3128 PSI @ 4.5 BPM. ISIP 2736 PSI, FG .72. CALC HOLES OPEN @ 47.2 BPM @ 6063 PSI = 80% HOLES OPEN. MP 6341 PSI, MR 50.3 BPM, AP 6131 PSI, AR 49.8 BPM ISIP 3044 PSI, FG .75 NPI 308 PSI.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K		Spud Date: 11/8/2011	
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No:
Event: COMPLETION	Start Date:		End Date: 1/7/2012
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	14:17 - 15:56	1.65	COMP	36	E	P		(STG # 7) PU 4-1/2 HAL 8-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, SET CBP @ 9674', PERF WELL AS OF PROCEDURE. WHP 1958 PSI, BRK 2831 PSI @ 4.6 BPM. ISIP 2479 PSI, FG .70. CALC HOLES OPEN @ 42.8 BPM @ 5958 PSI = 66% HOLES OPEN. MP 6815 PSI, MR 50.4 BPM, AP 6078 PSI, AR 49.2 BPM ISIP 2963 PSI, FG .75 NPI 484 PSI.
	15:56 - 20:30	4.57	COMP	36	E	P		(STG # 8) PU 4-1/2 HAL 8-K CBP & 3-1/8 EXP 23 GRM .36" HLS, 120 DEG PHASING, TRY TO SET CBP @ 9358', DEAD SHORT PLUG WOULDN'T GO OFF, POOH SLOW, L/D GUNS & PLUG, RIH W/ 4-1/2 8-K CBP & SET FOR KILL PLUG @ 9358' POOH SWI RD WL & FRAC CREW. SDFN TOTAL 275,375 LBS 30/50 TLC TOTAL 37,856 LBS 30/50 WHITE TOTAL 14,903 BBLS WTR TOTAL 831 GALS SCALE INH TOTAL 283 GALS BIOCIDE
1/7/2012	7:00 - 7:30	0.50	COMP	48		P		HSM, TRIPPING TBG, WATCHING FOR ICE PLUGS.
	7:30 - 11:30	4.00	COMP	31	I	P		ND FV, NU BOPS, RU FLOOR & EQUIP.RIH W/ 37/8 BIT, POBS, 1.875 X/N & 262 JTS TBG OUT OF DERICK, PU 23 JTS OFF FLOAT, RU DRLG EQUIP.

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-8K			Spud Date: 11/8/2011
Project: UTAH-UINTAH	Site: NBU 921-8K		Rig Name No:
Event: COMPLETION	Start Date:		End Date: 1/7/2012
Active Datum: RKB @4,768.00usft (above Mean Sea Level)	UWI: NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:30 - 18:00	6.50	COMP	44	C	P		BROKE CIRC CONVENTIONAL, TEST BOPS TO 3,000# FOR 15 MIN NO PSI LOSS. RIH. C/O 0' SAND TAG 1ST PLUG @ 9358' DRL PLG IN 7 MIN, 1750# PSI INCREASE RIH. C/O 20' SAND TAG 2ND PLUG @ 9674' DRL PLG IN 6 MIN, 1100# PSI INCREASE RIH. C/O 10' SAND TAG 3RD PLUG @ 9912' DRL PLG IN 7 MIN, 800# PSI INCREASE RIH. C/O 15' SAND TAG 4TH PLUG @ 10,171' DRL PLG IN 3 MIN, 0# PSI INCREASE RIH C/O 35' SAND TAG 5TH PLUG @ 11,226' DRL PLG IN 9 MIN, 700# PSI INCREASE RIH C/O 30' SAND TAG 6TH PLUG @ 11,311' DRL PLG IN 6 MIN, 200# PSI INCREASE RIH C/O 30' SAND TAG 7TH PLUG @ 11,396' DRL PLG IN 8 MIN, 900# PSI INCREASE RIH C/O TO PBTD @ 11,652', CIRC CLN, L/D 13 JTS. LAND TBG ON 352 JTS 23/8 L-80.LANDING JTS GAULDED INTOP OF HANGER, STRIP OUT HANGER. HANGER WAS GAULDED ON BTM JT ALSO. STRIP OUT JT & HANGER. PU NEW JT INSTALLED NEW HANGER & RELAND TBG, ND BOPS NU WH, PUMP OFF BIT, TURN WELL OVER TO FB CREW. SDFWE KB= 18' (SURFACE OPEN W/ POPOFF) HANGER = .83' SICP 2100 PSI, FTP 100 PSI 352 JTS 23/8 L-80 = 11,180.11' POBS W/ 1.875 X/N = 2.20' (TEST LINE TO HAL 9000 TO 4500) EOT @ 11,201.14' TWTR 15,113 BBLS TWR 1690 BBLS TWLTR 13,423 BBLS 372 JTD HAULED OUT 352 LANDED 20 TO RETURN 2 BAD
	19:00 -		PROD	50				WELL TURNED TO SALES @ 1900 HR ON 1/7/2012 - 700 MCFD, 1920 BWPD, FCP 2350#, FTP 1900#, 18/64" CK
1/9/2012	7:00 -		PROD	50				WELL IP'D ON 1/9/12 - 1995 MCFD, 0 BOPD, 593 BWPD, CP 2800 #, FTP 2000#, CK 20/64", LP 175#, 24 HRS

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-8K	**Wellbore No.**	OH
Well Name	NBU 921-8K	**Common Name**	NBU 921-8K
Project	UTAH-UINTAH	**Site**	NBU 921-8K
Vertical Section Azimuth	0.00 (°)	**North Reference**	True
Origin N/S		**Origin E/W**	
Spud Date	11/8/2011	**UWI**	NE/SW/0/9/S/21/E/8/0/0/26/PM/S/1918/W/0/1923/0/0
Active Datum	RKB @4,768.00usft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	**Company**	WEATHERFORD
Started	11/7/2011	**Ended**	
Tool Name		**Engineer**	Anadarko Employee

2.1.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
14.00	0.00	0.00	14.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
11/7/2011	Tie On	14.00	0.00	0.00	14.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
11/8/2011	NORMAL	164.00	0.74	117.94	164.00	-0.45	0.86	-0.45	0.49	0.49	0.00	117.94
	NORMAL	244.00	0.93	93.58	243.99	-0.74	1.96	-0.74	0.50	0.24	-30.45	-74.38
	NORMAL	354.00	1.05	90.42	353.97	-0.80	3.86	-0.80	0.12	0.11	-2.87	-26.05
	NORMAL	654.00	0.44	37.23	653.95	0.10	7.30	0.10	0.29	-0.20	-17.73	-155.87
11/9/2011	NORMAL	954.00	0.25	70.23	953.94	1.24	8.62	1.24	0.09	-0.06	11.00	149.41
	NORMAL	1,254.00	0.25	61.98	1,253.94	1.76	9.81	1.76	0.01	0.00	-2.75	-94.12
	NORMAL	1,554.00	0.31	147.60	1,553.94	1.39	10.82	1.39	0.13	0.02	28.54	126.21
	NORMAL	1,854.00	0.06	315.98	1,853.94	0.81	11.15	0.81	0.12	-0.08	56.13	178.12
	NORMAL	2,154.00	0.13	170.98	2,153.94	0.59	11.09	0.59	0.06	0.02	-48.33	-155.87
	NORMAL	2,454.00	0.56	183.35	2,453.93	-1.21	11.06	-1.21	0.14	0.14	4.12	16.05
	NORMAL	2,711.00	1.02	183.80	2,710.90	-4.74	10.84	-4.74	0.18	0.18	0.18	1.00
12/7/2011	NORMAL	2,968.00			2,967.89	-7.03	10.68	-7.03	0.40	-0.40	0.00	180.00

2.2 Survey Name: Survey #2

Survey Name	Survey #2	Company	Anadarko Petroleum Corp
Started	12/2/2011	Ended	
Tool Name	MWD	Engineer	Anadarko Employee

2.2.1 Tie On Point

MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)
18.00	0.00	0.00	18.00	0.00	0.00

2.2.2 Survey Stations

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
12/2/2011	Tie On	18.00	0.00	0.00	18.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
12/5/2011	NORMAL	2,708.00	1.02	183.80	2,707.86	-23.89	-1.59	-23.89	0.04	0.04	0.00	183.80
	NORMAL	2,750.00	1.27	175.60	2,749.85	-24.73	-1.58	-24.73	0.71	0.60	-19.52	-37.39
	NORMAL	2,845.00	1.05	323.69	2,844.84	-25.08	-2.01	-25.08	2.35	-0.23	155.88	165.59
	NORMAL	2,939.00	1.58	321.49	2,938.82	-23.37	-3.33	-23.37	0.57	0.56	-2.34	-6.54
12/6/2011	NORMAL	2,939.00	1.58	321.49	2,938.82	-23.37	-3.33	-23.37	0.00	0.00	0.00	0.00
	NORMAL	3,034.00	2.15	325.36	3,033.77	-20.88	-5.16	-20.88	0.61	0.60	4.07	14.40
	NORMAL	3,129.00	1.89	312.44	3,128.71	-18.35	-7.33	-18.35	0.55	-0.27	-13.60	-126.07
	NORMAL	3,225.00	1.41	300.22	3,224.67	-16.69	-9.51	-16.69	0.62	-0.50	-12.73	-149.76
	NORMAL	3,321.00	0.53	273.68	3,320.65	-16.07	-10.98	-16.07	1.01	-0.92	-27.65	-165.80
	NORMAL	3,415.00	1.05	282.99	3,414.64	-15.85	-12.25	-15.85	0.57	0.55	9.90	18.55
	NORMAL	3,511.00	1.63	304.61	3,510.62	-14.87	-14.23	-14.87	0.79	0.60	22.52	52.23
	NORMAL	3,604.00	2.29	335.29	3,603.57	-12.43	-16.10	-12.43	1.31	0.71	32.99	73.79
	NORMAL	3,699.00	1.63	320.79	3,698.51	-9.66	-17.74	-9.66	0.86	-0.69	-15.26	-150.18
	NORMAL	3,794.00	1.05	321.49	3,793.48	-7.93	-19.14	-7.93	0.61	-0.61	0.74	178.73
	NORMAL	3,889.00	2.07	309.89	3,888.45	-6.15	-21.00	-6.15	1.12	1.07	-12.21	-23.06
	NORMAL	3,984.00	1.67	308.92	3,983.40	-4.18	-23.39	-4.18	0.42	-0.42	-1.02	-175.96
	NORMAL	4,079.00	1.10	290.55	4,078.37	-2.99	-25.32	-2.99	0.75	-0.60	-19.34	-151.03
	NORMAL	4,175.00	1.45	305.85	4,174.35	-1.96	-27.17	-1.96	0.51	0.36	15.94	52.03
	NORMAL	4,270.00	1.32	272.18	4,269.32	-1.21	-29.24	-1.21	0.85	-0.14	-35.44	-115.65
	NORMAL	4,365.00	1.58	294.86	4,364.29	-0.62	-31.52	-0.62	0.66	0.27	23.87	77.25
	NORMAL	4,461.00	2.72	299.43	4,460.22	1.05	-34.71	1.05	1.20	1.19	4.76	10.84
	NORMAL	4,556.00	1.93	278.69	4,555.14	2.40	-38.25	2.40	1.20	-0.83	-21.83	-143.24
	NORMAL	4,651.00	1.58	315.78	4,650.10	3.58	-40.74	3.58	1.23	-0.37	39.04	125.09
	NORMAL	4,747.00	1.58	329.31	4,746.07	5.67	-42.34	5.67	0.39	0.00	14.09	96.76
	NORMAL	4,842.00	1.10	15.72	4,841.04	7.68	-42.76	7.68	1.20	-0.51	48.85	135.88
	NORMAL	4,937.00	1.23	355.24	4,936.02	9.57	-42.60	9.57	0.46	0.14	-21.56	-83.07
	NORMAL	5,033.00	0.48	3.77	5,032.01	11.00	-42.66	11.00	0.79	-0.78	8.89	174.61
	NORMAL	5,128.00	0.66	357.52	5,127.01	11.94	-42.66	11.94	0.20	0.19	-6.58	-22.20
	NORMAL	5,224.00	1.10	358.05	5,222.99	13.41	-42.71	13.41	0.46	0.46	0.55	1.32
	NORMAL	5,319.00	0.53	281.06	5,317.99	14.41	-43.18	14.41	1.17	-0.60	-81.04	-152.23
	NORMAL	5,414.00	2.20	327.38	5,412.96	16.03	-44.59	16.03	1.97	1.76	48.76	58.12
	NORMAL	5,510.00	1.93	326.15	5,508.90	18.92	-46.48	18.92	0.28	-0.28	-1.28	-171.29
	NORMAL	5,605.00	1.19	290.99	5,603.86	20.61	-48.30	20.61	1.24	-0.78	-37.01	-144.40
	NORMAL	5,700.00	1.14	353.83	5,698.85	21.90	-49.32	21.90	1.28	-0.05	66.15	123.43
	NORMAL	5,796.00	0.88	318.33	5,794.83	23.40	-49.91	23.40	0.69	-0.27	-36.98	-129.65
	NORMAL	5,892.00	0.79	310.33	5,890.82	24.38	-50.91	24.38	0.15	-0.09	-8.33	-131.62
12/7/2011	NORMAL	5,986.00	0.53	322.72	5,984.82	25.14	-51.66	25.14	0.31	-0.28	13.18	157.34
	NORMAL	6,082.00	0.75	253.29	6,080.81	25.32	-52.53	25.32	0.78	0.23	-72.32	-110.78
	NORMAL	6,177.00	1.41	304.53	6,175.80	25.80	-54.09	25.80	1.17	0.69	53.94	83.11
	NORMAL	6,271.00	2.02	333.62	6,269.75	27.94	-55.78	27.94	1.11	0.65	30.95	70.11
	NORMAL	6,367.00	1.49	321.40	6,365.71	30.43	-57.31	30.43	0.67	-0.55	-12.73	-150.78
	NORMAL	6,462.00	1.01	308.22	6,460.69	31.91	-58.74	31.91	0.59	-0.51	-13.87	-155.55

2.2.2 Survey Stations (Continued)

Date	Type	MD (usft)	Inc (°)	Azi (°)	TVD (usft)	N/S (usft)	E/W (usft)	V. Sec (usft)	DLeg (°/100usft)	Build (°/100usft)	Turn (°/100usft)	TFace (°)
12/7/2011	NORMAL	6,558.00	0.83	205.83	6,556.68	31.81	-59.71	31.81	1.50	-0.19	-106.66	-145.69
	NORMAL	6,654.00	1.49	327.99	6,652.67	32.24	-60.67	32.24	2.14	0.69	127.25	142.14
	NORMAL	6,749.00	0.79	304.70	6,747.65	33.66	-61.87	33.66	0.87	-0.74	-24.52	-157.77
	NORMAL	6,845.00	1.49	335.20	6,843.63	35.17	-62.93	35.17	0.94	0.73	31.77	56.85
	NORMAL	6,940.00	1.23	340.30	6,938.60	37.26	-63.80	37.26	0.30	-0.27	5.37	157.57
	NORMAL	7,035.00	0.66	314.55	7,033.59	38.60	-64.53	38.60	0.73	-0.60	-27.11	-155.72
	NORMAL	7,131.00	0.40	294.51	7,129.59	39.13	-65.23	39.13	0.33	-0.27	-20.88	-154.25
	NORMAL	7,226.55	0.57	234.04	7,225.13	38.99	-65.92	38.99	0.53	0.18	-63.29	-103.50
	NORMAL	7,321.45	0.75	215.58	7,320.03	38.20	-66.66	38.20	0.29	0.19	-19.45	-59.23
	NORMAL	7,417.00	0.44	202.49	7,415.57	37.36	-67.16	37.36	0.35	-0.32	-13.70	-162.78
	NORMAL	7,512.55	0.62	187.37	7,511.12	36.50	-67.37	36.50	0.24	0.19	-15.82	-45.57
	NORMAL	7,608.10	0.97	187.54	7,606.66	35.19	-67.54	35.19	0.37	0.37	0.18	0.47
	NORMAL	7,702.00	0.98	182.89	7,700.55	33.60	-67.69	33.60	0.08	0.01	-4.95	-85.13
	NORMAL	7,798.00	0.26	81.20	7,796.54	32.81	-67.51	32.81	1.11	-0.75	-105.93	-166.15
	NORMAL	7,893.00	1.01	48.33	7,891.53	33.40	-66.68	33.40	0.85	0.79	-34.60	-42.98
	NORMAL	7,989.00	1.14	42.48	7,987.52	34.67	-65.40	34.67	0.18	0.14	-6.09	-43.12
	NORMAL	8,084.00	0.92	44.99	8,082.50	35.91	-64.22	35.91	0.24	-0.23	2.64	169.66
	NORMAL	8,180.00	0.66	82.78	8,178.49	36.52	-63.13	36.52	0.59	-0.27	39.36	134.57
	NORMAL	8,275.00	0.26	92.18	8,273.49	36.58	-62.37	36.58	0.43	-0.42	9.89	173.99
12/8/2011	NORMAL	8,370.00	0.22	145.71	8,368.49	36.42	-62.05	36.42	0.23	-0.04	56.35	126.15
	NORMAL	8,466.00	0.53	176.82	8,464.49	35.83	-61.92	35.83	0.38	0.32	32.41	49.51
	NORMAL	8,561.00	0.70	152.39	8,559.48	34.87	-61.63	34.87	0.33	0.18	-25.72	-69.66
	NORMAL	8,657.00	0.44	307.60	8,655.48	34.58	-61.65	34.58	1.16	-0.27	161.68	170.47
	NORMAL	8,752.00	0.53	281.06	8,750.48	34.89	-62.37	34.89	0.25	0.09	-27.94	-81.79
	NORMAL	8,847.00	0.26	305.76	8,845.47	35.10	-62.98	35.10	0.33	-0.28	26.00	159.71
	NORMAL	8,942.00	0.44	227.80	8,940.47	34.98	-63.42	34.98	0.49	0.19	-82.06	-111.35
	NORMAL	9,037.00	0.40	145.62	9,035.47	34.46	-63.50	34.46	0.58	-0.04	-86.51	-134.21
	NORMAL	9,132.00	0.44	137.97	9,130.47	33.91	-63.07	33.91	0.07	0.04	-8.05	-58.36
12/9/2011	NORMAL	9,227.00	0.79	168.91	9,225.46	33.00	-62.70	33.00	0.50	0.37	32.57	59.67
	NORMAL	9,322.00	0.97	184.03	9,320.45	31.56	-62.63	31.56	0.31	0.19	15.92	59.94
	NORMAL	9,417.00	1.05	156.34	9,415.44	29.96	-62.34	29.96	0.52	0.08	-29.15	-94.71
	NORMAL	9,512.00	1.32	171.72	9,510.42	28.08	-61.83	28.08	0.44	0.28	16.19	57.53
	NORMAL	9,608.00	1.67	167.42	9,606.38	25.62	-61.37	25.62	0.38	0.36	-4.48	-19.93
	NORMAL	9,704.00	1.80	168.74	9,702.34	22.77	-60.77	22.77	0.14	0.14	1.38	17.75
	NORMAL	9,799.50	2.07	172.51	9,797.79	19.59	-60.25	19.59	0.31	0.28	3.95	27.13
	NORMAL	9,895.00	2.24	167.42	9,893.22	16.06	-59.62	16.06	0.27	0.18	-5.33	-50.95
	NORMAL	9,990.50	2.55	163.37	9,988.64	12.20	-58.61	12.20	0.37	0.32	-4.24	-30.67
	NORMAL	10,085.00	3.03	157.57	10,083.02	7.88	-57.05	7.88	0.59	0.51	-6.14	-33.38
	NORMAL	10,180.50	2.02	156.52	10,178.43	4.00	-55.42	4.00	1.06	-1.06	-1.10	-177.90
	NORMAL	10,276.00	1.80	163.46	10,273.88	1.02	-54.32	1.02	0.33	-0.23	7.27	137.00
12/10/2011	NORMAL	10,371.50	1.63	160.91	10,369.33	-1.70	-53.45	-1.70	0.20	-0.18	-2.67	-157.09
	NORMAL	10,467.00	1.76	153.44	10,464.79	-4.30	-52.35	-4.30	0.27	0.14	-7.82	-63.30
	NORMAL	10,562.50	1.98	158.28	10,560.24	-7.14	-51.08	-7.14	0.28	0.23	5.07	38.11
	NORMAL	10,658.00	2.37	166.98	10,655.67	-10.60	-50.03	-10.60	0.53	0.41	9.11	44.65
12/11/2011	NORMAL	10,743.00	2.55	169.61	10,740.59	-14.17	-49.29	-14.17	0.25	0.21	3.09	33.41
	NORMAL	10,837.00	2.42	169.70	10,834.51	-18.18	-48.56	-18.18	0.14	-0.14	0.10	178.33
	NORMAL	10,933.00	2.50	177.44	10,930.42	-22.26	-48.10	-22.26	0.36	0.08	8.06	80.35
12/12/2011	NORMAL	11,028.00	2.64	176.03	11,025.32	-26.52	-47.86	-26.52	0.16	0.15	-1.48	-25.01
	NORMAL	11,122.00	2.86	174.10	11,119.21	-31.01	-47.47	-31.01	0.25	0.23	-2.05	-23.79
	NORMAL	11,218.00	2.86	175.85	11,215.09	-35.78	-47.05	-35.78	0.09	0.00	1.82	90.87
	NORMAL	11,313.00	2.68	176.12	11,309.98	-40.36	-46.73	-40.36	0.19	-0.19	0.28	175.99
	NORMAL	11,408.00	2.64	173.75	11,404.88	-44.75	-46.34	-44.75	0.12	-0.04	-2.49	-111.17
	NORMAL	11,503.00	2.50	170.05	11,499.79	-48.97	-45.74	-48.97	0.23	-0.15	-3.89	-132.00
	NORMAL	11,599.00	2.55	168.56	11,595.69	-53.12	-44.96	-53.12	0.09	0.05	-1.55	-53.45
12/16/2011	NORMAL	11,706.00	2.55	168.56	11,702.59	-57.79	-44.01	-57.79	0.00	0.00	0.00	0.00