

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 921-22F1CS				
2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>						3. FIELD OR WILDCAT NATURAL BUTTES				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.						7. OPERATOR PHONE 720 929-6515				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL julie.jacobson@anadarko.com				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0147566			11. MINERAL OWNERSHIP FEDERAL <input checked="" type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>			12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input checked="" type="checkbox"/> STATE <input type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')						14. SURFACE OWNER PHONE (if box 12 = 'fee')				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')						16. SURFACE OWNER E-MAIL (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN') Ute Indian Tribe			18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>			19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>				
20. LOCATION OF WELL		FOOTAGES		QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN		
LOCATION AT SURFACE		707 FNL 1984 FWL		NENW	22	9.0 S	21.0 E	S		
Top of Uppermost Producing Zone		1742 FNL 2149 FWL		SENW	22	9.0 S	21.0 E	S		
At Total Depth		1742 FNL 2149 FWL		SENW	22	9.0 S	21.0 E	S		
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 486			23. NUMBER OF ACRES IN DRILLING UNIT 160				
27. ELEVATION - GROUND LEVEL 4823			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 514			26. PROPOSED DEPTH MD: 11284 TVD: 11120				
28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE 43-8496							
Hole, Casing, and Cement Information										
String	Hole Size	Casing Size	Length	Weight	Grade & Thread	Max Mud Wt.	Cement	Sacks	Yield	Weight
Surf	11	8.625	0 - 2830	28.0	J-55 LT&C	0.2	Type V	180	1.15	15.8
							Class G	270	1.15	15.8
Prod	7.875	4.5	0 - 11284	11.6	HCP-110 LT&C	13.0	Premium Lite High Strength	340	3.38	12.0
							50/50 Poz	1620	1.31	14.3
ATTACHMENTS										
VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES										
<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER					<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN					
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)					<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER					
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)					<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP					
NAME Laura Abrams				TITLE Regulatory Analyst II				PHONE 720 929-6356		
SIGNATURE				DATE 04/27/2012				EMAIL Laura.Abrams@anadarko.com		
API NUMBER ASSIGNED 43047525700000				APPROVAL  Permit Manager						

Kerr-McGee Oil & Gas Onshore. L.P.**NBU 921-22F1CS**

Surface: 707 FNL / 1984 FWL NENW
 BHL: 1742 FNL / 2149 FWL SENW

Section 22 T9S R21E

Unitah County, Utah
 Mineral Lease: UTU 0147566

ONSHORE ORDER NO. 1**DRILLING PROGRAM**

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 - Surface	
Green River	1,542'	
Birds Nest	1,872'	Water
Mahogany	2,381'	Water
Wasatch	4,912'	Gas
Mesaverde	7,846'	Gas
Sego	10,070'	Gas
Castlegate	10,116'	Gas
MN5	10,520'	Gas
TVD =	11,120'	
TD =	11,284'	

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

If Kerr McGee drills to the Wasatch/Mesaverde formation please refer to Sego as the bottom formation. The attached Wasatch/Mesaverde Drilling Program includes Total Vertical Depth, Total Depth, and appropriate casing and cement programs for the depths the Wasatch/Mesaverde formations are found.

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

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

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

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

5. **Drilling Fluids Program:**

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

6. **Evaluation Program:**

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

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

Maximum anticipated bottom hole pressure calculated at 11120' TVD, approximately equals
7,339 psi (0.66 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,943 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

7.b Wasach/Mesaverde Target Formation

Maximum anticipated bottom hole pressure calculated at 10070' TVD, approximately equals
6,445 psi (0.64 psi/ft = actual bottomhole gradient)

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

Maximum anticipated surface pressure equals approximately 4,215 psi (bottom hole pressure
minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot, per Onshore Order No. 2).

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

8. **Anticipated Starting Dates:**

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

9. **Variiances:**

Please refer to the attached Blackhawk Drilling Program and the Wasatch/Mesaverde Drilling Program
Onshore Order #2 – Air Drilling Variance

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

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

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 11 inch 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 bleed 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.

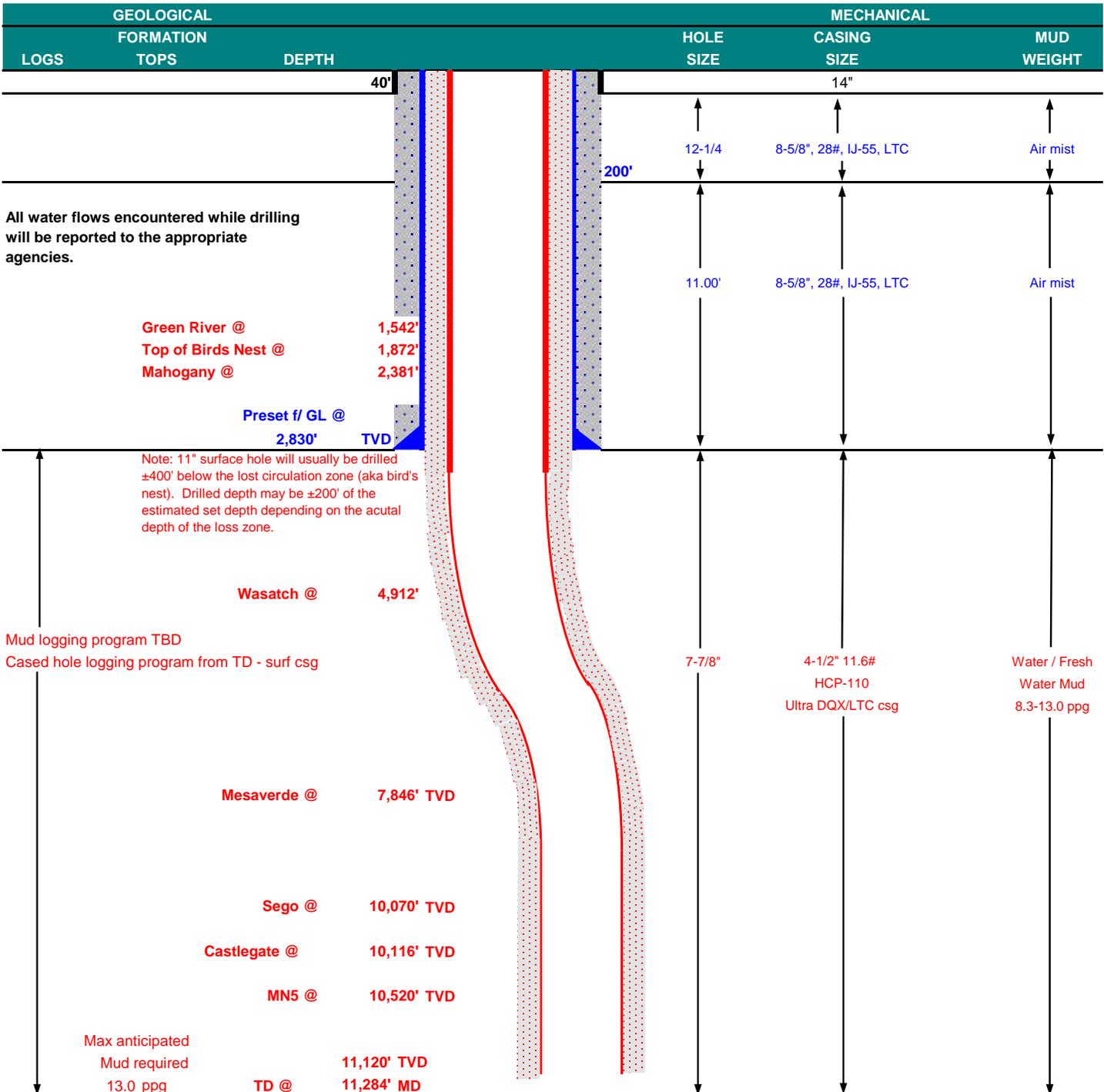
10. Other Information:

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



KERR-McGEE OIL & GAS ONSHORE LP BLACKHAWK DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 3, 2012	
WELL NAME	NBU 921-22F1CS		TD	11,120' TVD	11,284' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION			FINISHED ELEVATION		
NENW 707 FNL 1984 FWL Sec 22 T 9S R 21E			4,823'		
Latitude: 40.026884			Longitude: -109.540220		
NAD 83					
BTM HOLE LOCATION					
SEnw 1742 FNL 2149 FWL Sec 22 T 9S R 21E					
Latitude: 40.024040			Longitude: -109.539632		
NAD 83					
OBJECTIVE ZONE(S)	BLACKHAWK				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), Ute Indian Tribe (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP
BLACKHAWK DRILLING PROGRAM

CASING PROGRAM

							DESIGN FACTORS			
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX
		TENSION								
CONDUCTOR	14"	0-40'								
							3,390	1,880	348,000	N/A
SURFACE	8-5/8"	0	to 2,830	28.00	IJ-55	LTC	1.90	1.42	5.02	N/A
							10,690	8,650	279,000	367,174
PRODUCTION	4-1/2"	0	to 5,000	11.60	HCP-110	DQX	1.19	1.15		3.50
	4-1/2"	5,000	to 11,284'	11.60	HCP-110	LTC	1.19	1.15	4.78	

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 + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,330'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	210	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,404'	Premium Lite II +0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	35%	12.00	3.38
	TAIL	6,880'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,620	35%	14.30	1.31

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

Nick Spence / Danny Showers / Chad Loesel

DATE:

DRILLING SUPERINTENDENT:

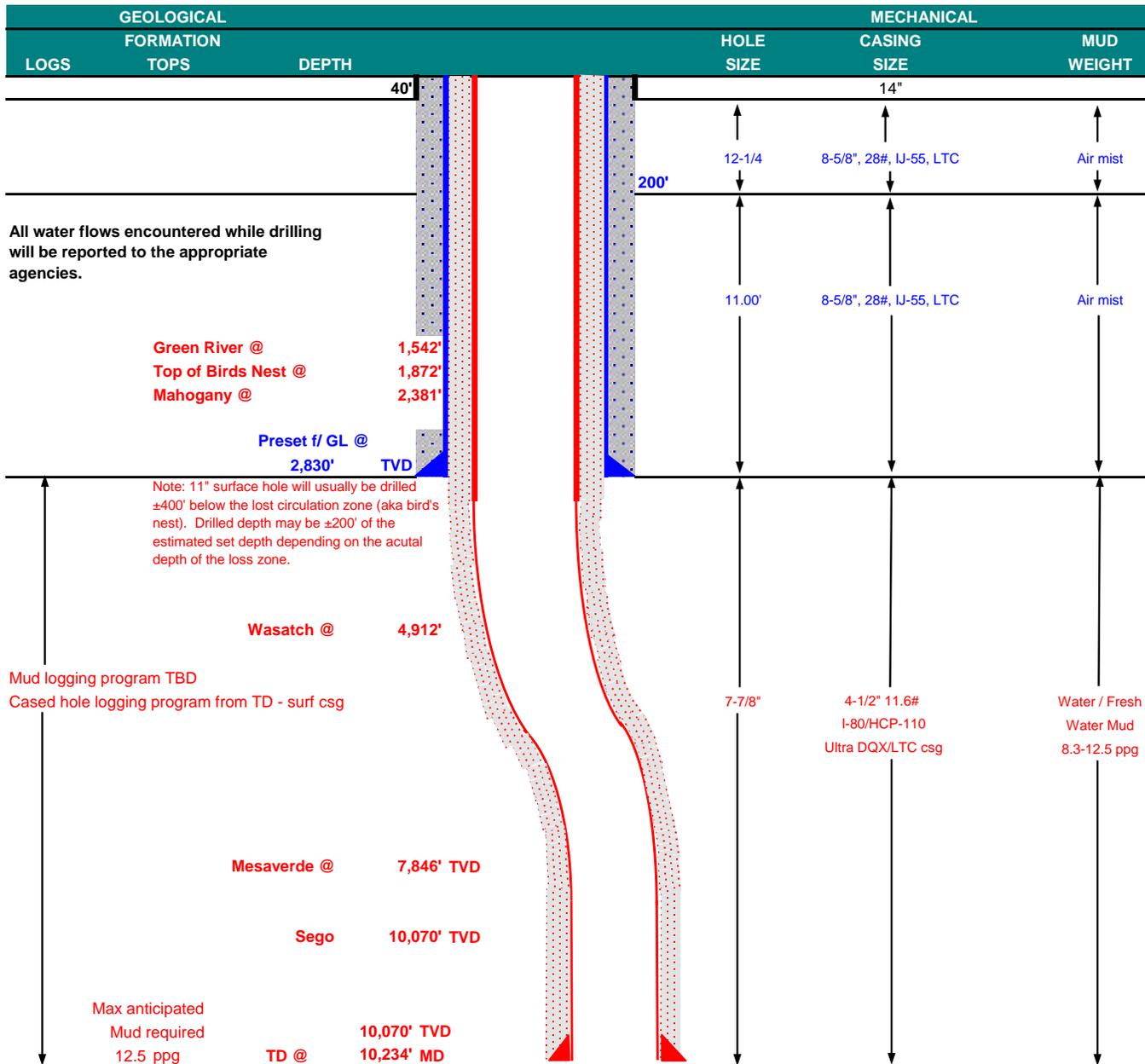
Kenny Gathings / Lovel Young

DATE:



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

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	January 3, 2012	
WELL NAME	NBU 921-22F1CS		TD	10,070'	10,234' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	4,823'
SURFACE LOCATION	NENW	707 FNL	1984 FWL	Sec 22	T 9S R 21E
	Latitude:	40.026884	Longitude:	-109.540220 NAD 83	
BTM HOLE LOCATION	SESW	1742 FNL	2149 FWL	Sec 22	T 9S R 21E
	Latitude:	40.024040	Longitude:	-109.539632 NAD 83	
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: BLM (Minerals), Ute Indian Tribe (Surface).				





KERR-McGEE OIL & GAS ONSHORE LP

WASATCH/MESAVERDE DRILLING PROGRAM

CASING PROGRAM

						DESIGN FACTORS				
	SIZE	INTERVAL		WT.	GR.	CPLG.	BURST	COLLAPSE	LTC	DQX
									TENSION	
CONDUCTOR	14"	0-40'								
						3,390	1,880	348,000	N/A	
SURFACE	8-5/8"	0	to 2,830	28.00	IJ-55	LTC	1.90	1.42	5.02	N/A
						7,780	6,350			267,035
PRODUCTION	4-1/2"	0	to 5,000	11.60	I-80	DQX	1.11	0.97		2.78
						10,690	8,650	223,000		
	4-1/2"	5,000	to 10,234'	11.60	HCP-110	LTC	1.53	1.32	4.54	

Surface casing:

(Burst Assumptions: TD = 12.5 ppg) 0.73 psi/ft = frac gradient @ surface shoe
Fracture at surface shoe with 0.1 psi/ft gas gradient above

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

Production casing:

(Burst Assumptions: Pressure test with 8.4ppg @ 7000 psi) 0.64 psi/ft = bottomhole gradient

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

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	60%	15.80	1.15
Option 1	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele	270	0%	15.80	1.15
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,330'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	210	35%	11.00	3.82
Option 2	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	150	35%	15.80	1.15
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15
PRODUCTION	LEAD	4,404'	Premium Lite II + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	340	35%	12.00	3.38
	TAIL	5,830'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,380	35%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. 15 centralizers for a Mesaverde and 20 for a Blackhawk well. 1 centralizer on the first 3 joints and one every third joint thereafter.

ADDITIONAL INFORMATION

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

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

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

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

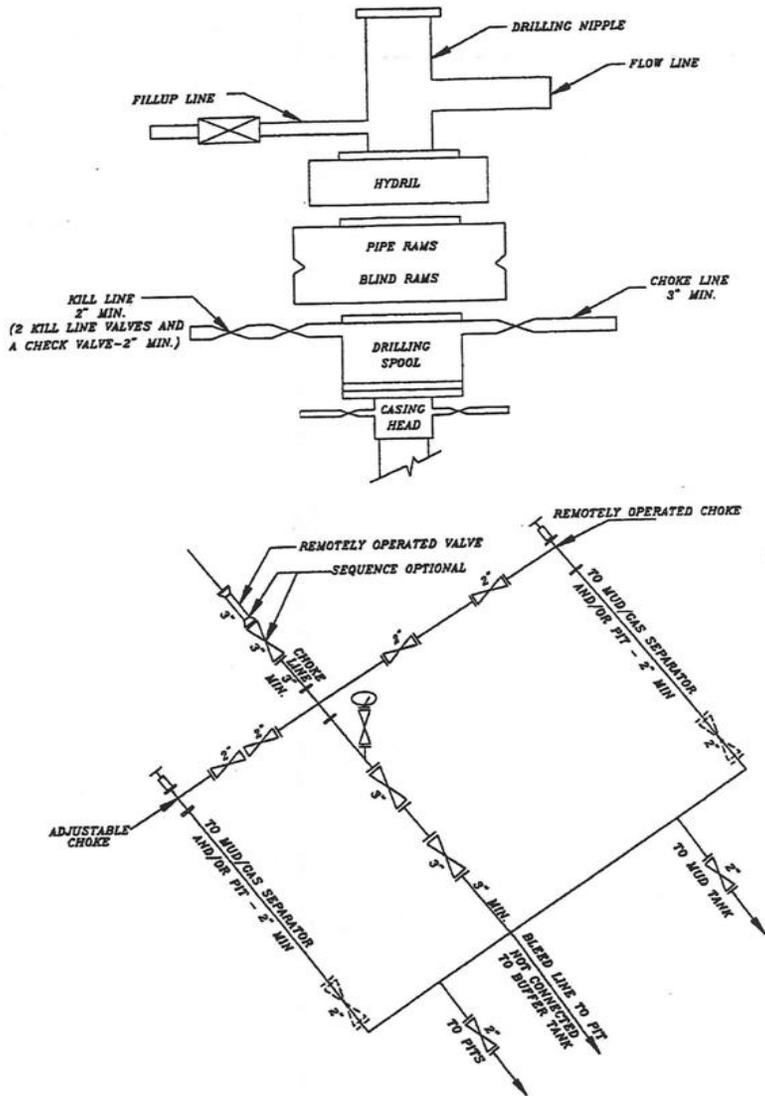
DRILLING ENGINEER: _____
Nick Spence / Danny Showers / Chad Loesel

DATE: _____

DRILLING SUPERINTENDENT: _____
Kenny Gathings / Lovel Young

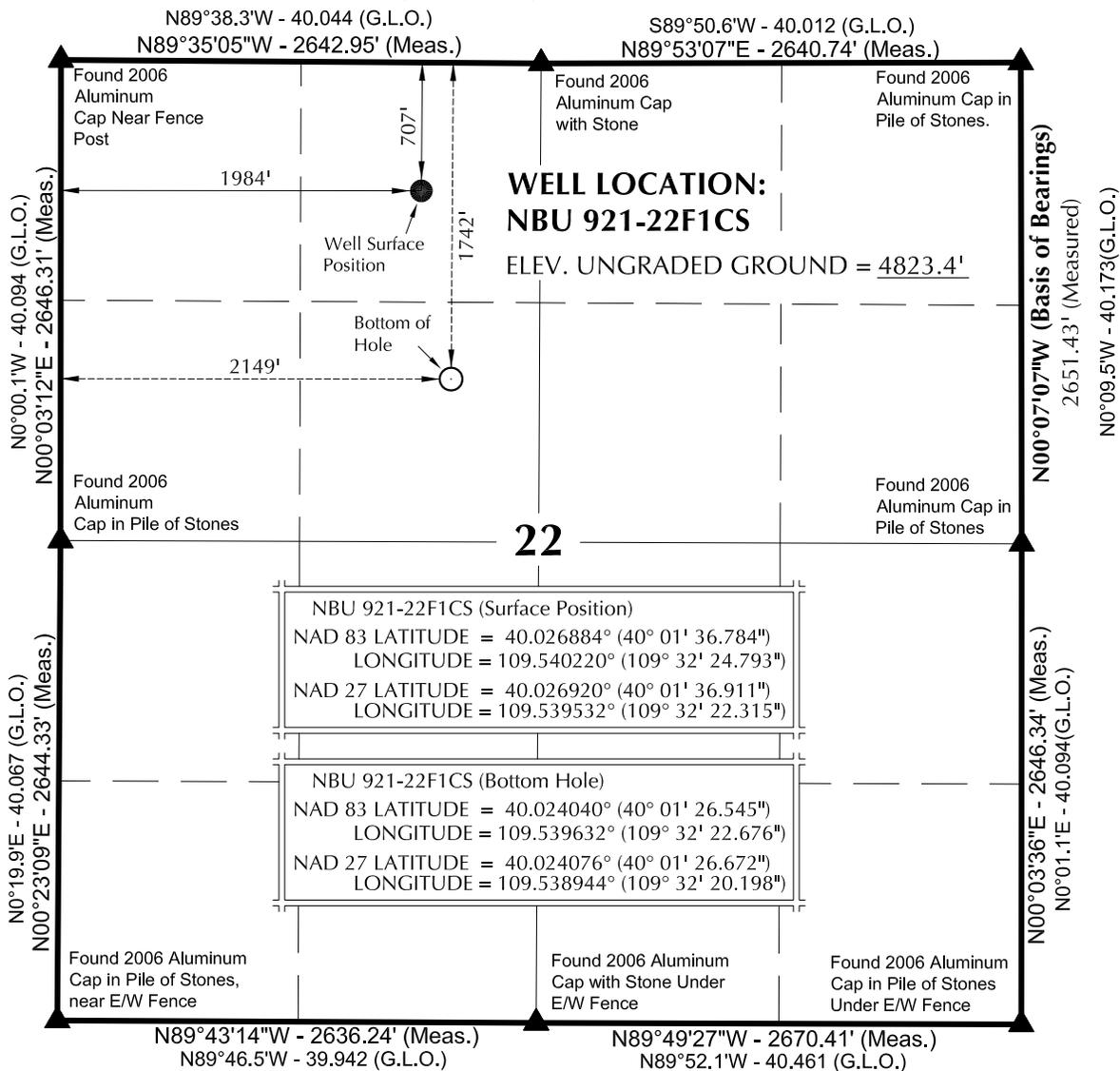
DATE: _____

EXHIBIT A
NBU 921-22F1CS



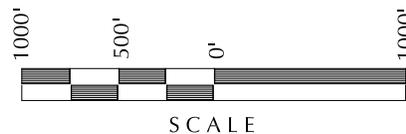
SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

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. The Bottom of hole bears S08°58'50"E 1049.34' from the Surface Position.
- 4. Bearings are based on Global Positioning Satellite observations.
- 5. Basis of elevation is Tri-Sta "Two Water" located in the NW 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'.



SURVEYOR'S CERTIFICATE

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

9-14-11
 No. 6028691
 JOHN R. GAUGH
 PROFESSIONAL LAND SURVEYOR
 REGISTRATION No. 6028691
 STATE OF UTAH

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

WELL PAD: NBU 921-22C

**NBU 921-22F1CS
 WELL PLAT**
 1742' FNL, 2149' FWL (Bottom Hole)
 SE ¼ NW ¼ OF SECTION 22, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH.

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

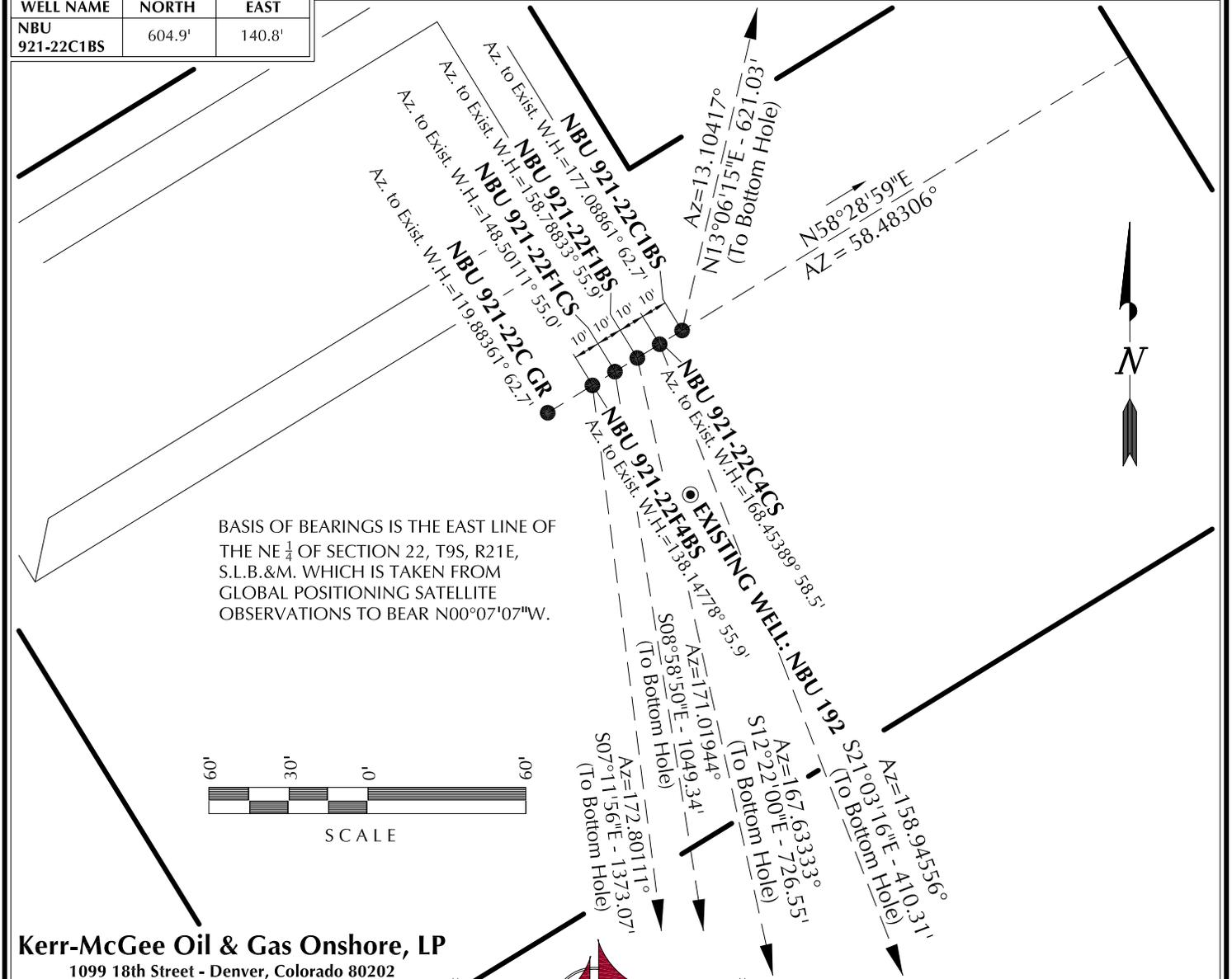
TIMBERLINE (435) 789-1365
 ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 7-19-11	SURVEYED BY: W.W.	SHEET NO: 3
DATE DRAWN: 8-22-11	DRAWN BY: T.J.R.	
SCALE: 1" = 1000'		3 OF 18

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-22C GR	40°01'36.629"	109°32'25.121"	40°01'36.756"	109°32'22.643"	723' FNL 1959' FWL					
NBU 921-22F4BS	40°01'36.732"	109°32'24.903"	40°01'36.859"	109°32'22.425"	712' FNL 1976' FWL	40°01'23.275"	109°32'22.677"	40°01'23.402"	109°32'20.199"	2073' FNL 2149' FWL
NBU 921-22F1CS	40°01'36.784"	109°32'24.793"	40°01'36.911"	109°32'22.315"	707' FNL 1984' FWL	40°01'26.545"	109°32'22.676"	40°01'26.672"	109°32'20.198"	1742' FNL 2149' FWL
NBU 921-22F1BS	40°01'36.836"	109°32'24.683"	40°01'36.963"	109°32'22.205"	701' FNL 1993' FWL	40°01'29.825"	109°32'22.676"	40°01'29.952"	109°32'20.198"	1410' FNL 2149' FWL
NBU 921-22C4CS	40°01'36.888"	109°32'24.574"	40°01'37.015"	109°32'22.096"	696' FNL 2001' FWL	40°01'33.106"	109°32'22.676"	40°01'33.233"	109°32'20.198"	1078' FNL 2149' FWL
NBU 921-22C1BS	40°01'36.939"	109°32'24.465"	40°01'37.066"	109°32'21.987"	691' FNL 2010' FWL	40°01'42.916"	109°32'22.662"	40°01'43.044"	109°32'20.184"	85' FNL 2150' FWL
NBU 192	40°01'36.321"	109°32'24.423"	40°01'36.448"	109°32'21.945"	753' FNL 2013' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-22F4BS	-1362.2'	172.1'	NBU 921-22F1CS	-1036.5'	163.8'	NBU 921-22F1BS	-709.7'	155.6'	NBU 921-22C4CS	-382.9'	147.4'
NBU 921-22C1BS	604.9'	140.8'									



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

WELL PAD - NBU 921-22C

WELL PAD INTERFERENCE PLAT
 WELLS - NBU 921-22C GR, NBU 921-22F4BS, NBU 921-22F1CS, NBU 921-22F1BS, NBU 921-22C4CS & NBU 921-22C1BS LOCATED IN SECTION 22, T9S, R21E, S.L.B.&M., UTAH COUNTY, UTAH.

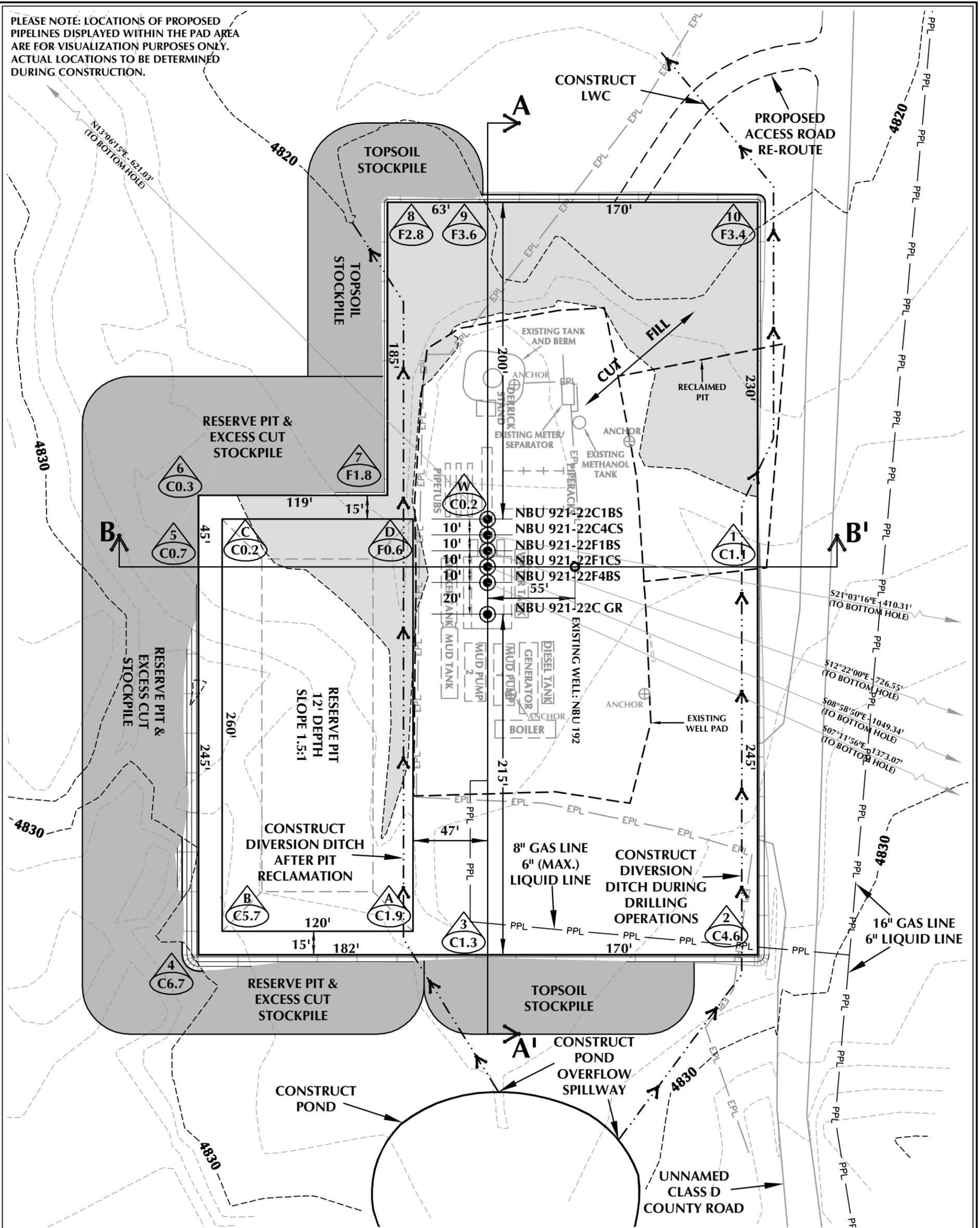
609

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

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

DATE SURVEYED: 7-19-11	SURVEYED BY: W.W.	SHEET NO: 7
DATE DRAWN: 8-22-11	DRAWN BY: T.J.R.	
SCALE: 1" = 60'		7 OF 18

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



WELL PAD - NBU 921-22C DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4823.4'
 FINISHED GRADE ELEVATION = 4823.2'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.51 ACRES
 TOTAL DISTURBANCE AREA = 4.88 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-22C

WELL PAD - LOCATION LAYOUT
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 4,939 C.Y.
 TOTAL FILL FOR WELL PAD = 3,392 C.Y.
 TOPSOIL @ 6" DEPTH = 2,061 C.Y.
 EXCESS MATERIAL = 1,547 C.Y.

RESERVE PIT QUANTITIES

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

WELL PAD LEGEND

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



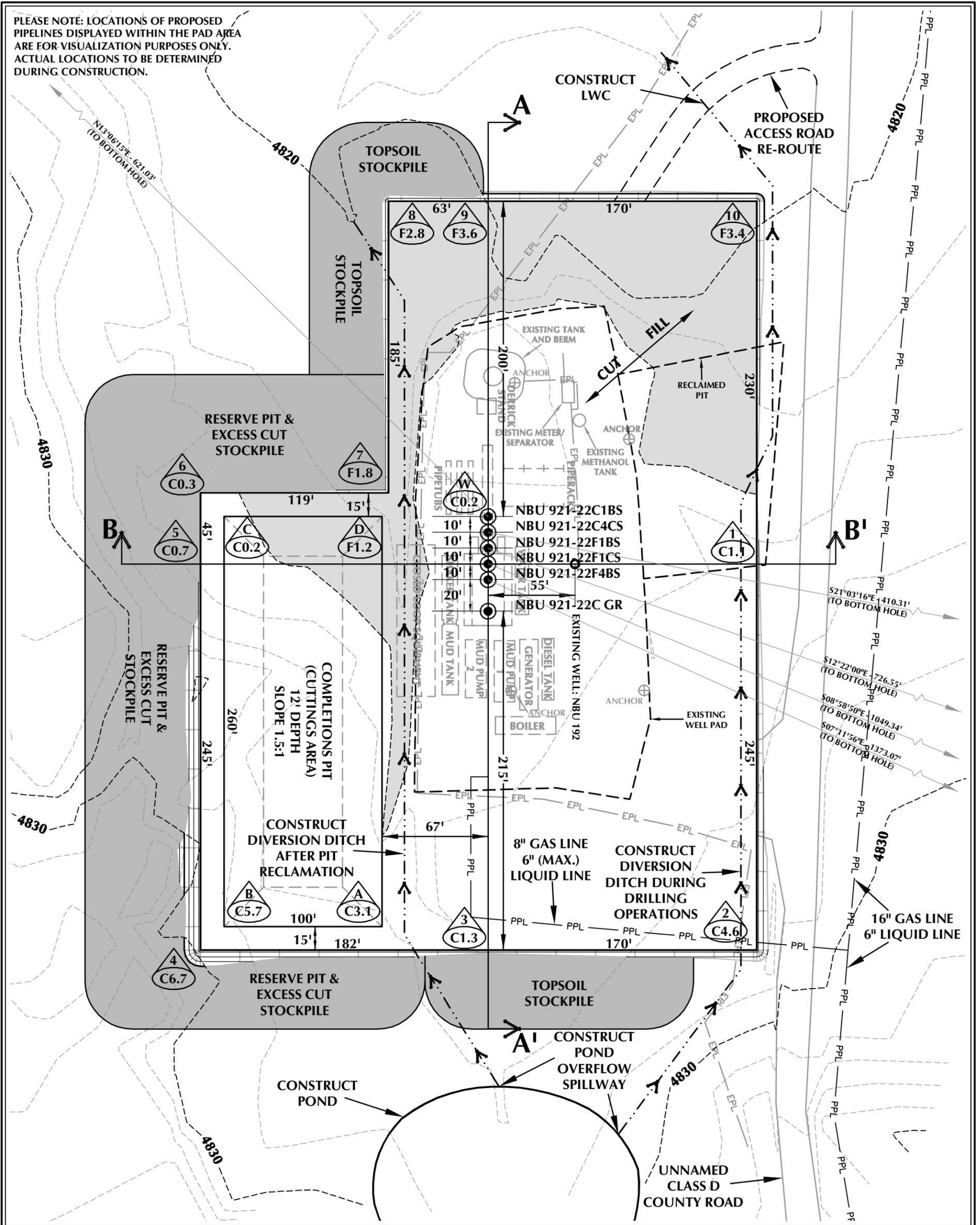
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

SCALE: 1"=60' DATE: 9/20/11 SHEET NO:

REVISED: **8** 8 OF 18

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

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



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

EXISTING GRADE @ CENTER OF WELL PAD = 4823.4'
 FINISHED GRADE ELEVATION = 4823.2'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1
 TOTAL WELL PAD AREA = 3.51 ACRES
 TOTAL DISTURBANCE AREA = 4.88 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00

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

WELL PAD - NBU 921-22C
 WELL PAD - LOCATION LAYOUT
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UTAH COUNTY, UTAH



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

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 4,939 C.Y.
 TOTAL FILL FOR WELL PAD = 3,392 C.Y.
 TOPSOIL @ 6" DEPTH = 2,061 C.Y.
 EXCESS MATERIAL = 1,547 C.Y.

COMPLETIONS PIT QUANTITIES

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

WELL PAD LEGEND

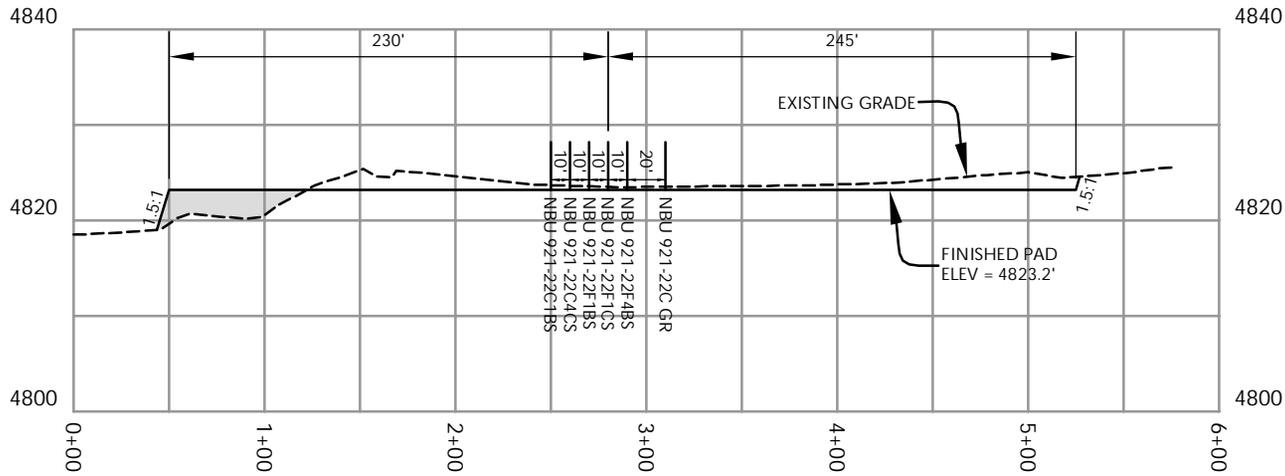
- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PROPOSED BOTTOM HOLE LOCATION
- EXISTING CONTOURS (2' INTERVAL)
- PROPOSED CONTOURS (2' INTERVAL)
- PPL - PROPOSED PIPELINE
- EPL - EXISTING PIPELINE



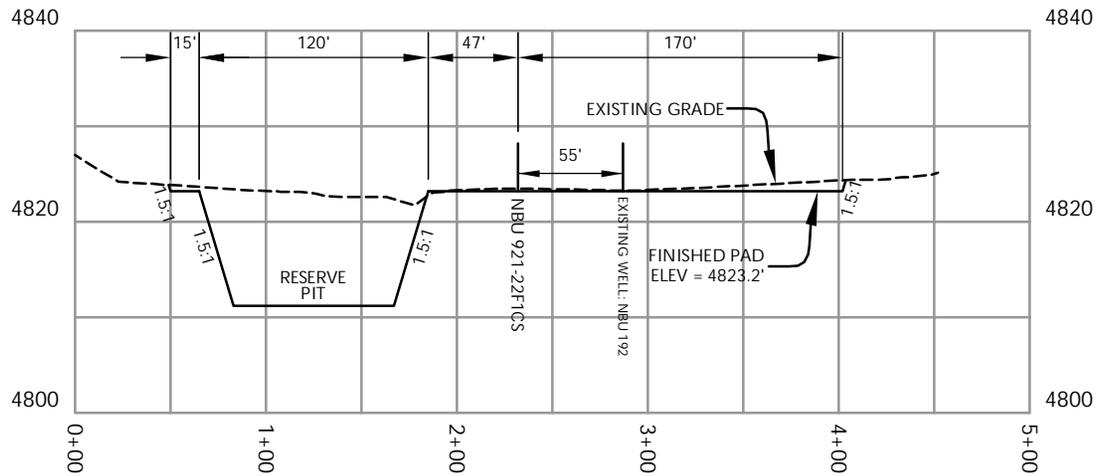
HORIZONTAL 0 30' 60' 1" = 60'
 2' CONTOURS

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

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



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-22C

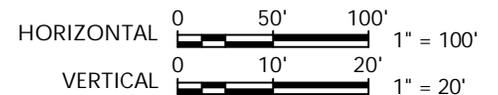
WELL PAD - CROSS SECTIONS
NBU 921-22C GR, NBU 921-22F4BS,
NBU 921-22F1CS, NBU 921-22F1BS,
NBU 921-22C4CS & NBU 921-22C1BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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

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

(435) 789-1365



Scale: 1"=100'

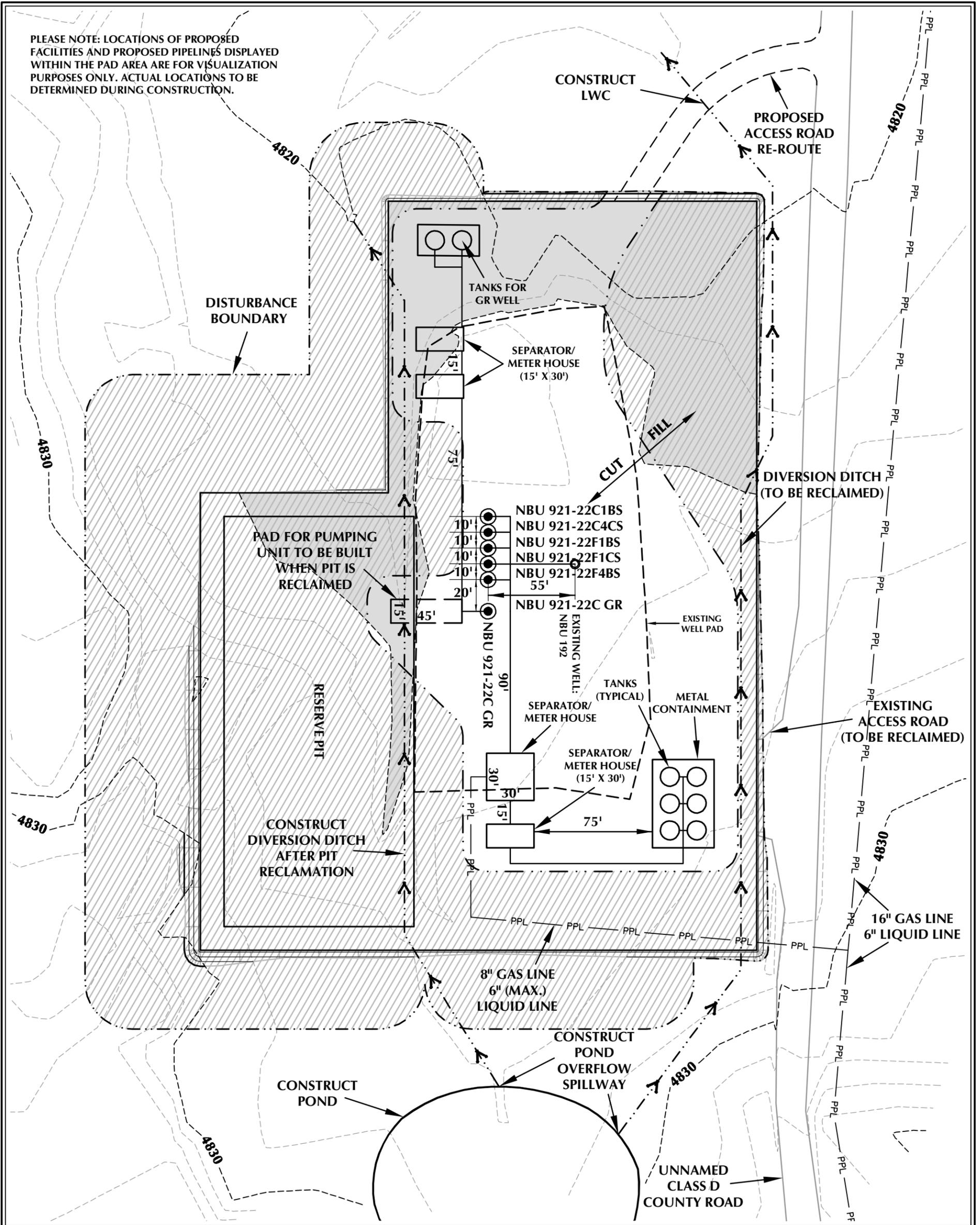
Date: 9/14/11

SHEET NO:

REVISED:

9

9 OF 18



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

WELL PAD - NBU 921-22C DESIGN SUMMARY

TOTAL DISTURBANCE AREA = 4.88 ACRES (INCLUDING EXISTING)
 RECLAMATION AREA = 3.29 ACRES
 TOTAL WELL PAD AREA AFTER RECLAMATION = 1.59 ACRES

WELL PAD LEGEND

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



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

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

WELL PAD - NBU 921-22C

WELL PAD - RECLAMATION LAYOUT
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

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

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

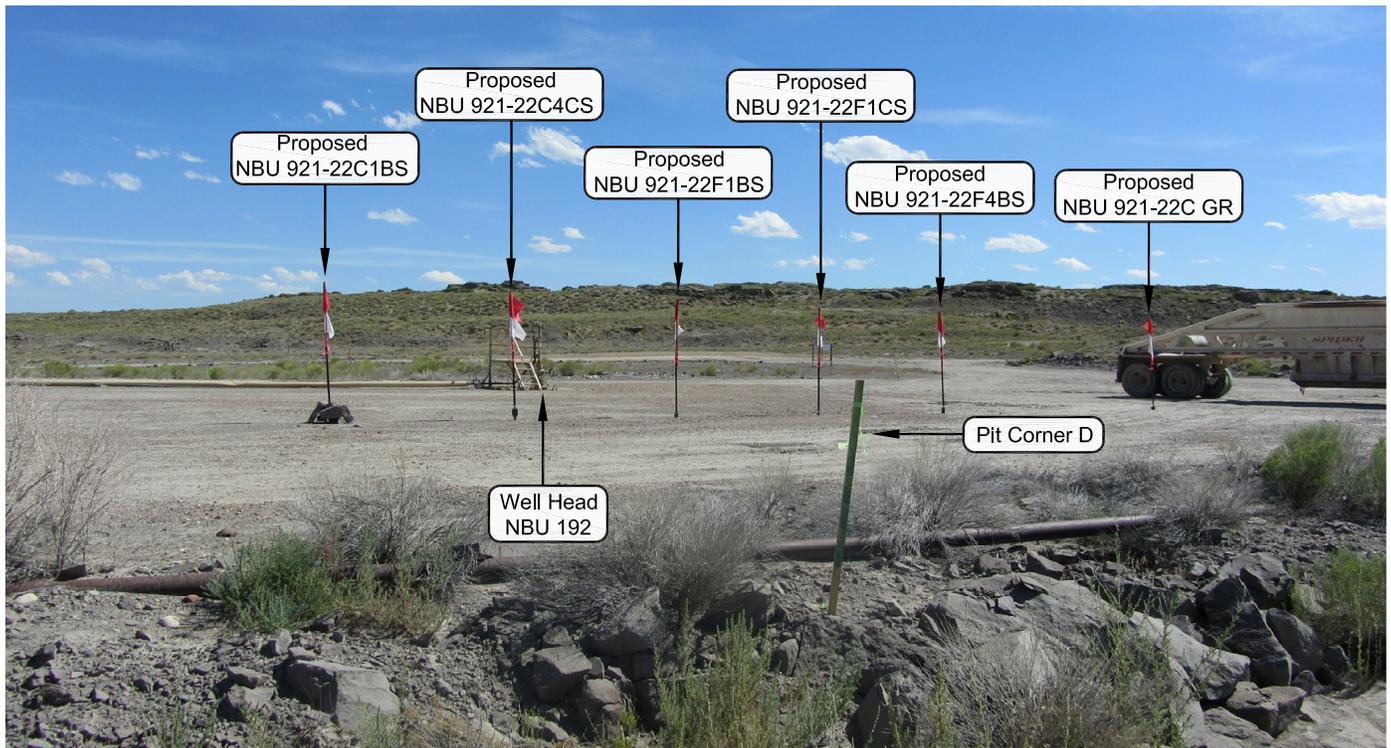


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: SOUTHERLY

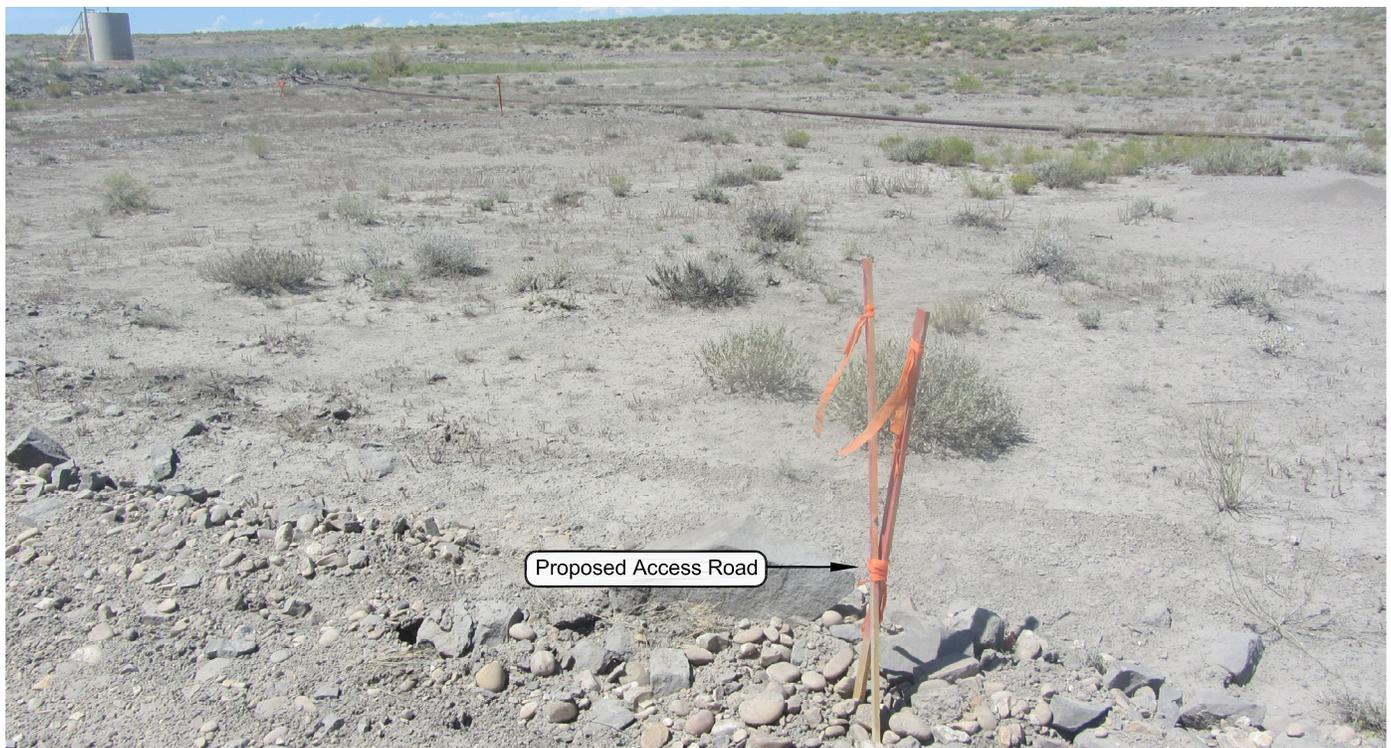


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHWESTERLY

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

WELL PAD - NBU 921-22C

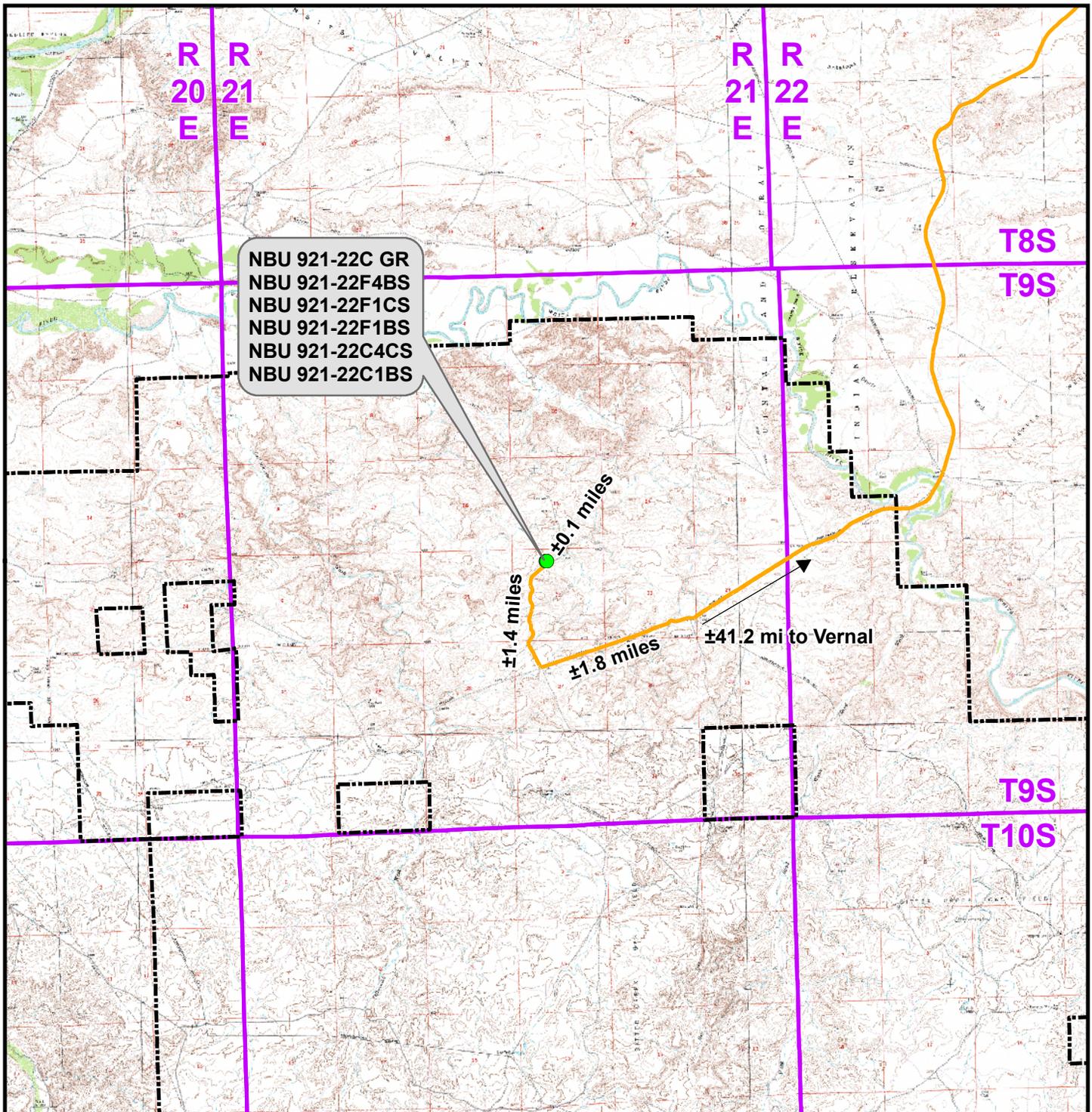
LOCATION PHOTOS
NBU 921-22C GR, NBU 921-22F4BS,
NBU 921-22F1CS, NBU 921-22F1BS,
NBU 921-22C4CS & NBU 921-22C1BS
LOCATED IN SECTION 22, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



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

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

DATE PHOTOS TAKEN: 7-19-11	PHOTOS TAKEN BY: W.W.	SHEET NO: 11
DATE DRAWN: 8-22-11	DRAWN BY: T.J.R.	
Date Last Revised:		11 OF 18



Legend

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

Distance From Well Pad - NBU 921-22C To Unit Boundary: ±12,711ft

WELL PAD - NBU 921-22C

TOPO A
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202



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



SCALE: 1:100,000

NAD83 USP Central

SHEET NO:

DRAWN: TL

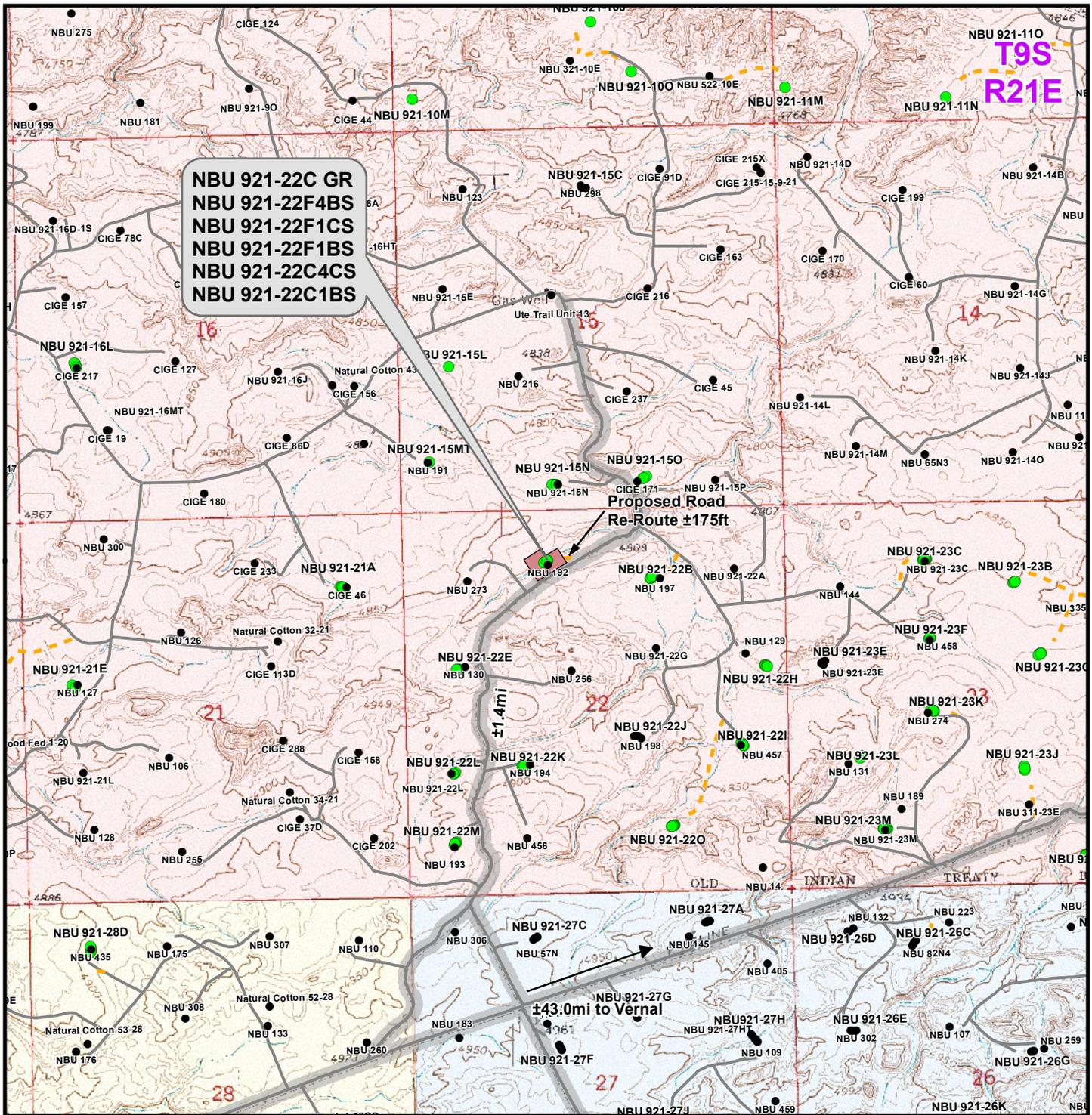
DATE: 13 Sept 2011

12

REVISED:

DATE:

12 OF 18



Legend

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

Total Proposed Road Re-Route Length: ±175ft

WELL PAD - NBU 921-22C

TOPO B
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

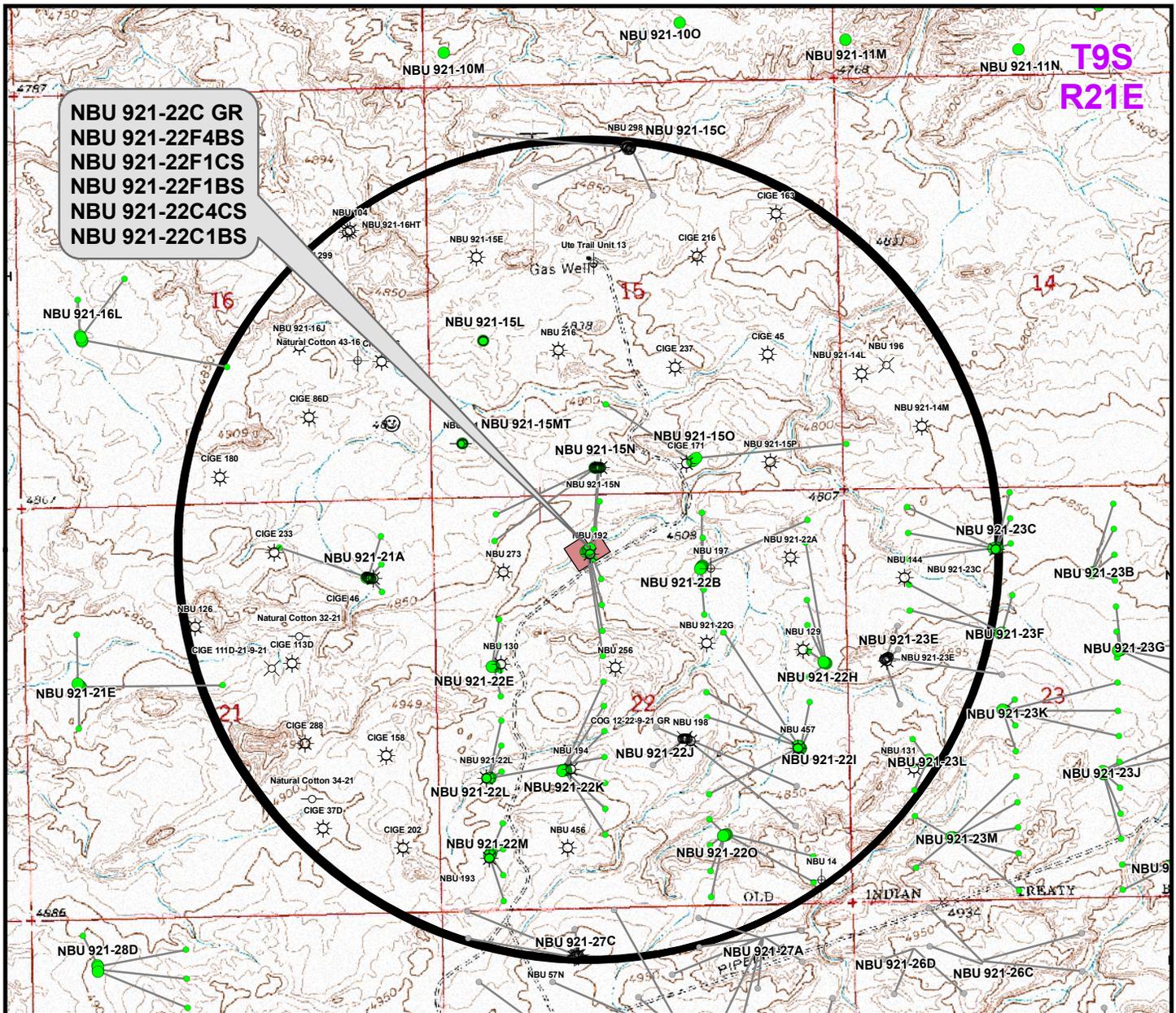
1099 18th Street
 Denver, Colorado 80202



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



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



**NBU 921-22C GR
 NBU 921-22F4BS
 NBU 921-22F1CS
 NBU 921-22F1BS
 NBU 921-22C4CS
 NBU 921-22C1BS**

**T9S
 R21E**

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

Proposed Well	Nearest Well Bore	Footage
NBU 921-22C GR	NBU 192	63ft
NBU 921-22F4BS	NBU 256	224ft
NBU 921-22F1CS	NBU 256	514ft
NBU 921-22F1BS	NBU 192	671ft
NBU 921-22C4CS	NBU 192	353ft
NBU 921-22C1BS	NBU 921-15N	446ft

Legend

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

WELL PAD - NBU 921-22C

TOPO C
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

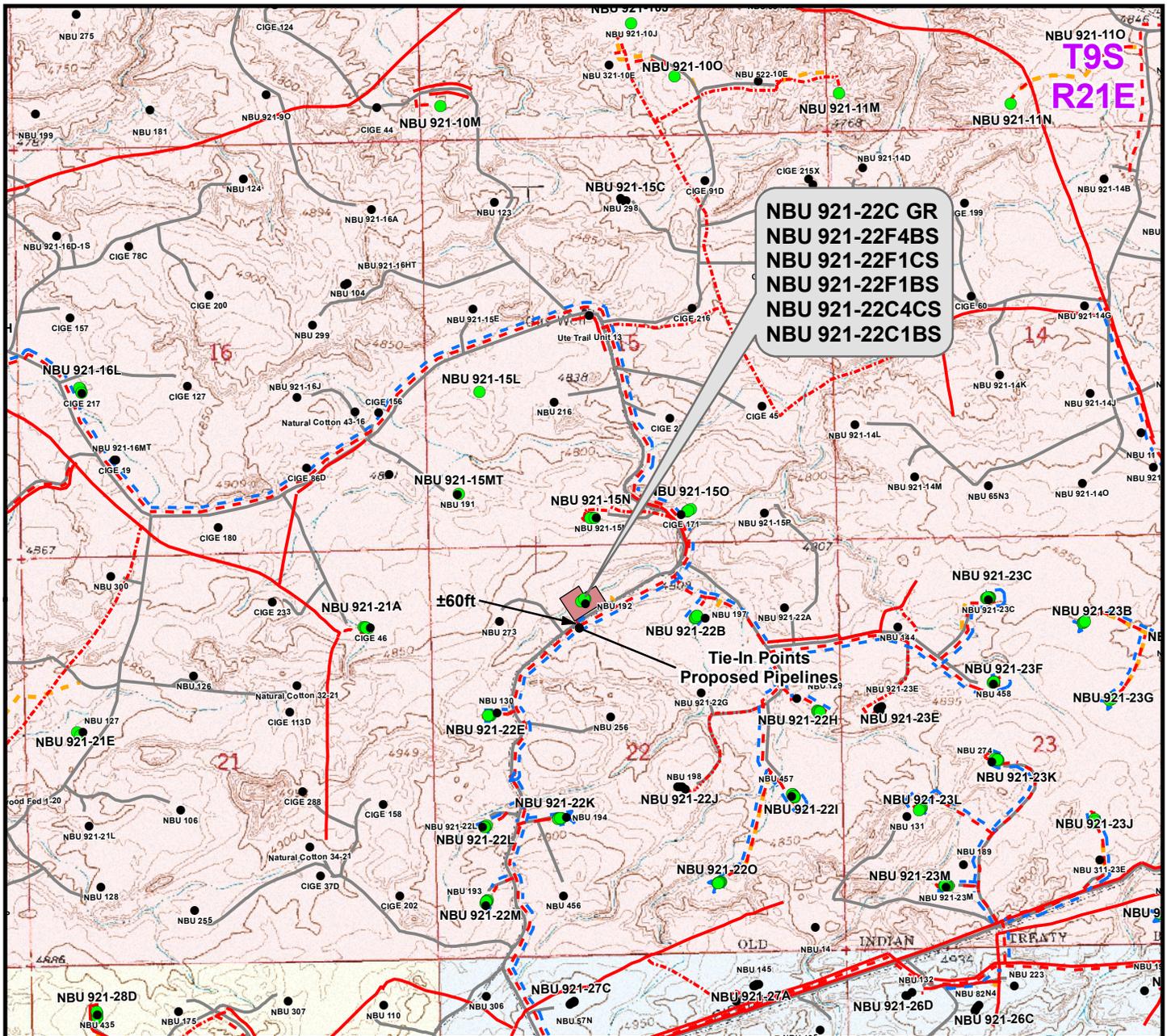
**Kerr-McGee Oil &
 Gas Onshore L.P.**

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



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

SCALE: 1" = 2,000ft	NAD83 USP Central	14 14 OF 18
DRAWN: TL	DATE: 13 Sept 2011	
REVISED:	DATE:	



**NBU 921-22C GR
 NBU 921-22F4BS
 NBU 921-22F1CS
 NBU 921-22C4CS
 NBU 921-22C1BS**

Proposed Liquid Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±255ft
Buried 6" (Max.) (Edge of Pad to Proposed 6" Liquid Pipeline ROW In Progress)	±60ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±315ft

Proposed Gas Pipeline	Length
Buried 8" (Meter House to Edge of Pad)	±255ft
Buried 8" (Edge of Pad to Proposed 16" Gas Pipeline ROW In Progress)	±60ft
TOTAL PROPOSED BURIED GAS PIPELINE =	±315ft

Legend

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

WELL PAD - NBU 921-22C

TOPO D
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

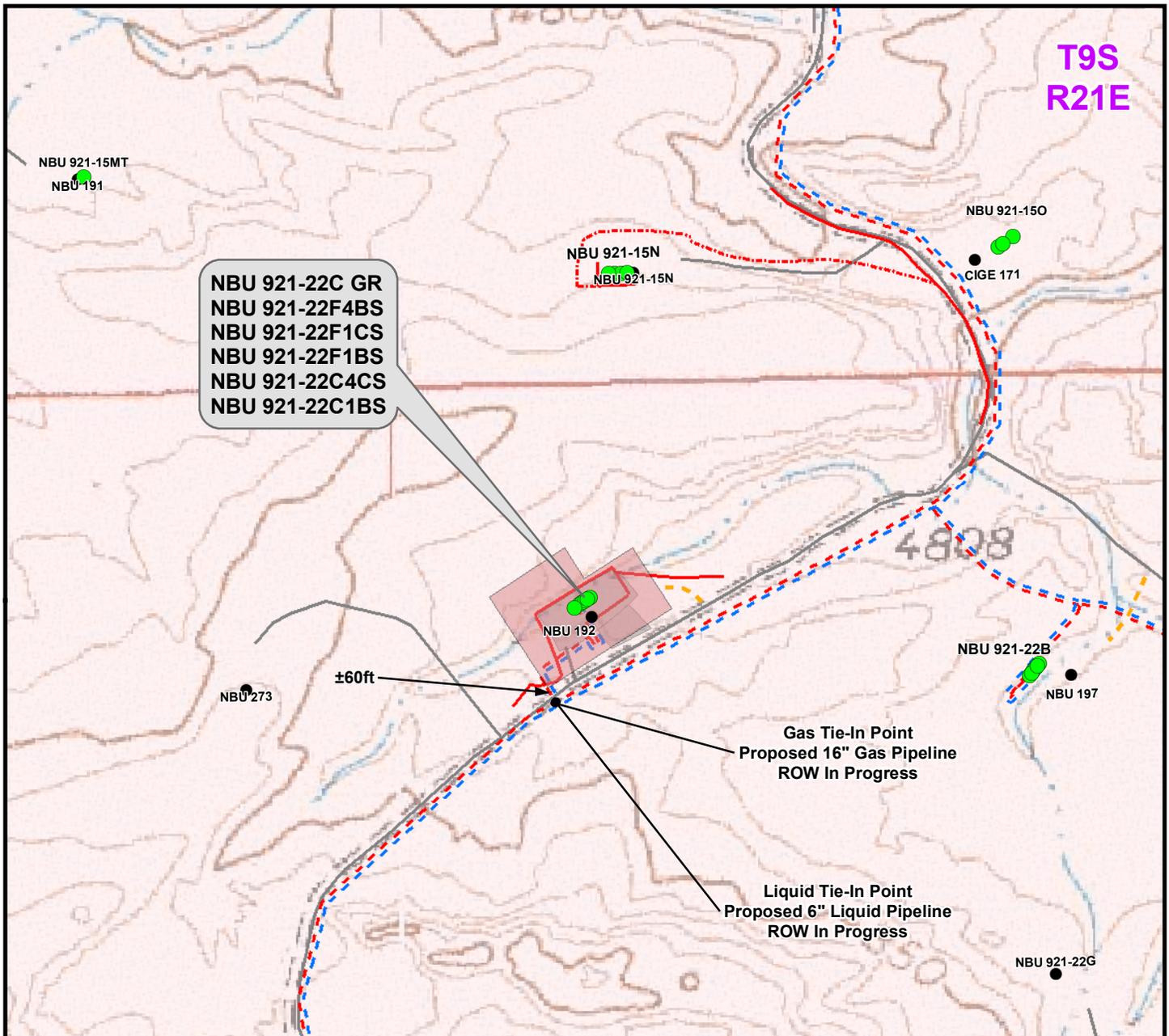
**Kerr-McGee Oil &
 Gas Onshore L.P.**

1099 18th Street
 Denver, Colorado 80202



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

SCALE: 1" = 2,000ft	NAD83 USP Central	15 15 OF 18
DRAWN: TL	DATE: 13 Sept 2011	
REVISED:	DATE:	



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Buried 6" (Max.) (Meter House to Edge of Pad)	±255ft	Buried 8" (Meter House to Edge of Pad)	±255ft
Buried 6" (Max.) (Edge of Pad to Proposed 6" Liquid Pipeline ROW In Progress)	±60ft	Buried 8" (Edge of Pad to Proposed 16" Gas Pipeline ROW In Progress)	±60ft
TOTAL PROPOSED BURIED LIQUID PIPELINE =	±315ft	TOTAL PROPOSED BURIED GAS PIPELINE =	±315ft

Legend

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

WELL PAD - NBU 921-22C

TOPO D2 (PAD & PIPELINE DETAIL)
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202

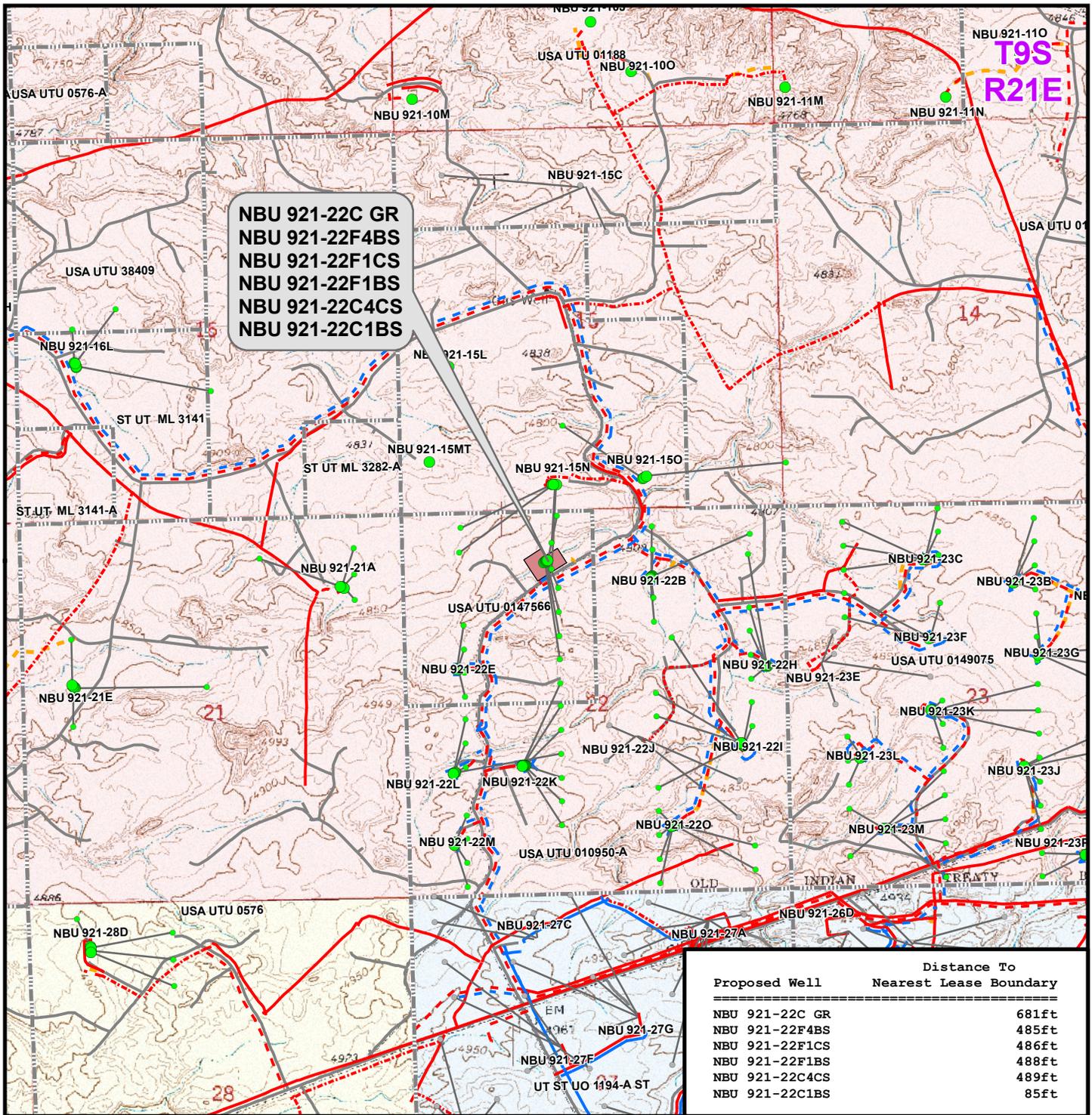


CONSULTING, LLC
 2155 North Main Street
 Sheridan, Wyoming 82801
 Phone 307-674-0609
 Fax 307-674-0182



SCALE: 1" = 500ft	NAD83 USP Central	16
DRAWN: TL	DATE: 13 Sept 2011	
REVISED:	DATE:	

SHEET NO:
16 OF 18



Legend

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

WELL PAD - NBU 921-22C

TOPO E
 NBU 921-22C GR, NBU 921-22F4BS,
 NBU 921-22F1CS, NBU 921-22F1BS,
 NBU 921-22C4CS & NBU 921-22C1BS
 LOCATED IN SECTION 22, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH

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

1099 18th Street
 Denver, Colorado 80202



CONSULTING, LLC

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

SCALE: 1" = 2,000ft	NAD83 USP Central	17 17 OF 18
DRAWN: TL	DATE: 13 Sept 2011	
REVISED:	DATE:	

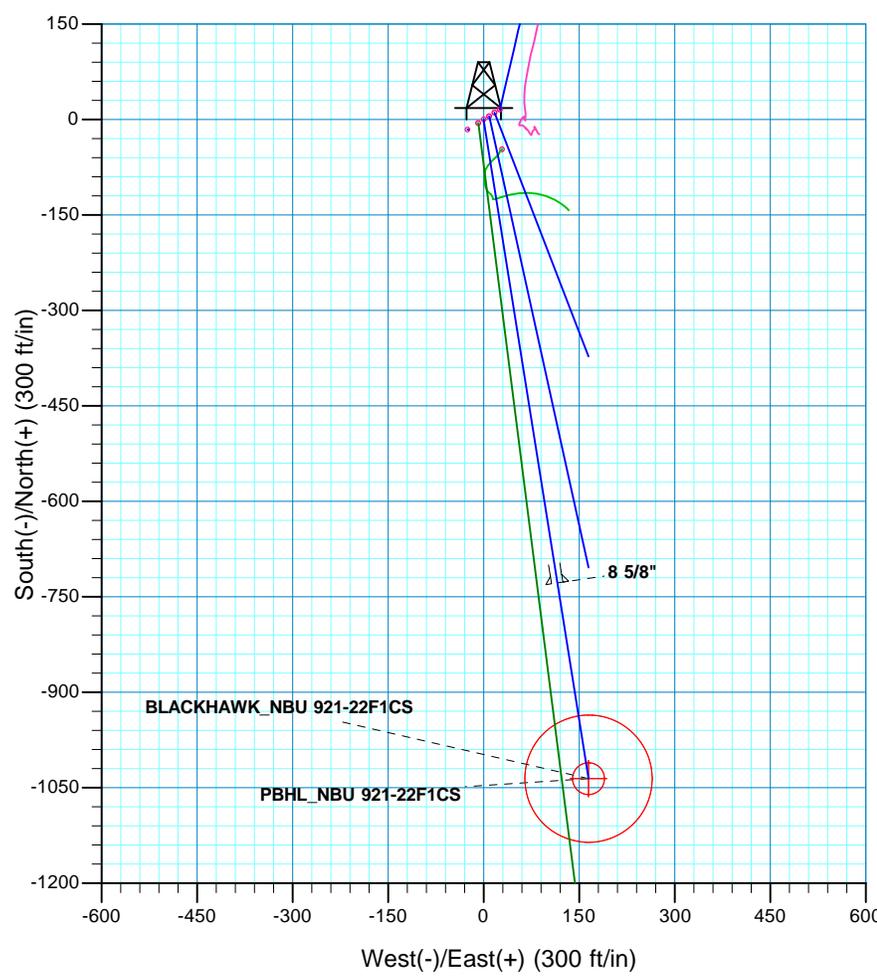
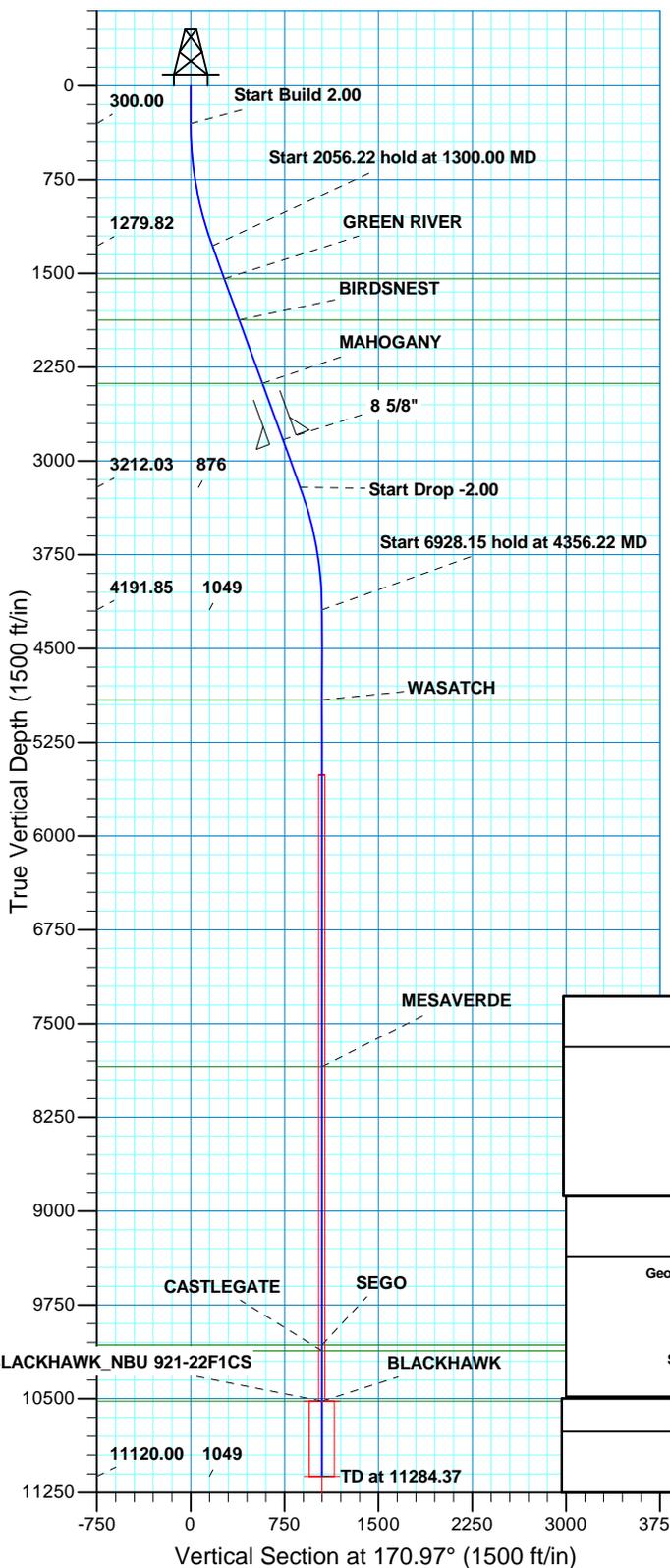
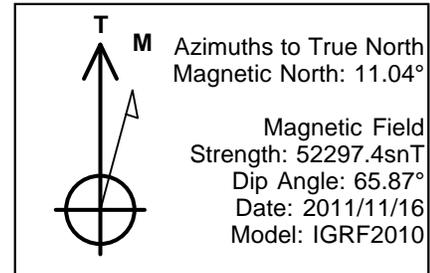
**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD - NBU 921-22C
WELLS – NBU 921-22C GR, NBU 921-22F4BS,
NBU 921-22F1CS, NBU 921-22F1BS,
NBU 921-22C4CS & NBU 921-22C1BS
Section 22, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East street in Vernal, Utah, proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45. Exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 17.7 miles to a Class D County Road to the southwest. Exit right and proceed in a southwesterly direction along the Class D County Road approximately 1.8 miles to a second Class D County Road to the north. Exit right and proceed in a northerly direction along the second Class D County Road approximately 1.4 miles to the proposed access road. Follow road flags in a northwesterly direction approximately 175 feet to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 44.4 miles in a southerly direction.



WELL DETAILS: NBU 921-22F1CS								
GL 4823 & KB 4 @ 4827.00ft (ASSUMED)								
+N-S	+E-W	Northing	Easting	Latitude	Longitude			
0.00	0.00	14539198.69	2049279.95	40° 1' 36.912 N	109° 32' 22.315 W			
DESIGN TARGET DETAILS								
Name	TVD	+N-S	+E-W	Northing	Easting	Latitude	Longitude	Shape
BLACKHAWK	10520.00	-1035.80	164.65	14538165.73	2049461.56	40° 1' 26.674 N	109° 32' 20.198 W	Circle (Radius: 25.00)
- plan hits target center								
PBHL	11120.00	-1035.80	164.65	14538165.73	2049461.56	40° 1' 26.674 N	109° 32' 20.198 W	Circle (Radius: 100.00)
- plan hits target center								



SECTION DETAILS									
MD	Inc	Azi	TVD	+N-S	+E-W	Dleg	TFace	VSect	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
1300.00	20.00	170.97	1279.82	-170.63	27.12	2.00	170.97	172.77	
3356.22	20.00	170.97	3212.03	-865.18	137.52	0.00	0.00	876.04	
4356.22	0.00	0.00	4191.85	-1035.80	164.65	2.00	180.00	1048.81	
11284.37	0.00	0.00	11120.00	-1035.80	164.65	0.00	0.00	1048.81	PBHL_NBU 921-22F1CS

PROJECT DETAILS: UTAH - UTM (feet), NAD27, Zone 12N			FORMATION TOP DETAILS		
Geodetic System: Universal Transverse Mercator (US Survey Feet)			TVDPPath	MDPath	Formation
Datum: NAD 1927 (NADCON CONUS)			1542.00	1579.01	GREEN RIVER
Ellipsoid: Clarke 1866			1872.00	1930.19	BIRDSNEST
Zone: Zone 12N (114 W to 108 W)			2381.00	2471.86	MAHOGANY
Location: SECTION 22 T9S R21E			4912.00	5076.37	WASATCH
System Datum: Mean Sea Level			7846.00	8010.37	MESAVERDE
			10070.00	10234.37	SEGO
			10116.00	10280.37	CASTLEGATE
			10520.00	10684.37	BLACKHAWK

CASING DETAILS			
TVD	MD	Name	Size
2831.00	2950.74	8 5/8"	8.625

RECEIVED



Scientific Drilling
Rocky Mountain Operations

US ROCKIES REGION PLANNING

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

NBU 921-22C PAD

NBU 921-22F1CS

OH

Plan: PLAN #1 PRELIMINARY

Standard Planning Report

17 November, 2011





SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site NBU 921-22C PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Site:	NBU 921-22C PAD	North Reference:	True
Well:	NBU 921-22F1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

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

Site	NBU 921-22C PAD, SECTION 22 T9S R21E				
Site Position:	Northing:	14,539,182.62 usft	Latitude:	40° 1' 36.757 N	
From: Lat/Long	Easting:	2,049,254.73 usft	Longitude:	109° 32' 22.643 W	
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.94 °

Well	NBU 921-22F1CS, 707 FNL 1984 FWL					
Well Position	+N/-S	15.66 ft	Northing:	14,539,198.70 usft	Latitude:	40° 1' 36.912 N
	+E/-W	25.48 ft	Easting:	2,049,279.95 usft	Longitude:	109° 32' 22.315 W
Position Uncertainty		0.00 ft	Wellhead Elevation:		Ground Level:	4,823.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	2011/11/16	11.04	65.87	52,297

Design	PLAN #1 PRELIMINARY			
Audit Notes:				
Version:	Phase:	PLAN	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.00	15.66	25.48	170.97

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	15.66	25.48	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	15.66	25.48	0.00	0.00	0.00	0.00	
1,300.00	20.00	170.97	1,279.82	-154.96	52.60	2.00	2.00	0.00	170.97	
3,356.22	20.00	170.97	3,212.03	-849.51	163.01	0.00	0.00	0.00	0.00	
4,356.22	0.00	0.00	4,191.85	-1,020.14	190.13	2.00	-2.00	0.00	180.00	
11,284.37	0.00	0.00	11,120.00	-1,020.14	190.13	0.00	0.00	0.00	0.00	PBHL_NBU 921-22F1



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site NBU 921-22C PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Site:	NBU 921-22C PAD	North Reference:	True
Well:	NBU 921-22F1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	15.66	25.48	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	15.66	25.48	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	15.66	25.48	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	15.66	25.48	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	170.97	399.98	13.94	25.75	1.75	2.00	2.00	0.00
500.00	4.00	170.97	499.84	8.77	26.58	6.98	2.00	2.00	0.00
600.00	6.00	170.97	599.45	0.16	27.94	15.69	2.00	2.00	0.00
700.00	8.00	170.97	698.70	-11.87	29.86	27.88	2.00	2.00	0.00
800.00	10.00	170.97	797.47	-27.32	32.31	43.52	2.00	2.00	0.00
900.00	12.00	170.97	895.62	-46.17	35.31	62.60	2.00	2.00	0.00
1,000.00	14.00	170.97	993.06	-68.38	38.84	85.10	2.00	2.00	0.00
1,100.00	16.00	170.97	1,089.64	-93.94	42.90	110.98	2.00	2.00	0.00
1,200.00	18.00	170.97	1,185.27	-122.81	47.49	140.21	2.00	2.00	0.00
1,300.00	20.00	170.97	1,279.82	-154.96	52.60	172.77	2.00	2.00	0.00
Start 2056.22 hold at 1300.00 MD									
1,400.00	20.00	170.97	1,373.78	-188.74	57.97	206.97	0.00	0.00	0.00
1,500.00	20.00	170.97	1,467.75	-222.52	63.34	241.17	0.00	0.00	0.00
1,579.01	20.00	170.97	1,542.00	-249.21	67.58	268.20	0.00	0.00	0.00
GREEN RIVER									
1,600.00	20.00	170.97	1,561.72	-256.30	68.71	275.37	0.00	0.00	0.00
1,700.00	20.00	170.97	1,655.69	-290.08	74.08	309.58	0.00	0.00	0.00
1,800.00	20.00	170.97	1,749.66	-323.85	79.45	343.78	0.00	0.00	0.00
1,900.00	20.00	170.97	1,843.63	-357.63	84.82	377.98	0.00	0.00	0.00
1,930.19	20.00	170.97	1,872.00	-367.83	86.44	388.31	0.00	0.00	0.00
BIRDSNEST									
2,000.00	20.00	170.97	1,937.60	-391.41	90.19	412.18	0.00	0.00	0.00
2,100.00	20.00	170.97	2,031.57	-425.19	95.56	446.38	0.00	0.00	0.00
2,200.00	20.00	170.97	2,125.54	-458.97	100.93	480.59	0.00	0.00	0.00
2,300.00	20.00	170.97	2,219.51	-492.74	106.29	514.79	0.00	0.00	0.00
2,400.00	20.00	170.97	2,313.48	-526.52	111.66	548.99	0.00	0.00	0.00
2,471.86	20.00	170.97	2,381.00	-550.79	115.52	573.57	0.00	0.00	0.00
MAHOAGANY									
2,500.00	20.00	170.97	2,407.45	-560.30	117.03	583.19	0.00	0.00	0.00
2,600.00	20.00	170.97	2,501.42	-594.08	122.40	617.39	0.00	0.00	0.00
2,700.00	20.00	170.97	2,595.39	-627.86	127.77	651.60	0.00	0.00	0.00
2,800.00	20.00	170.97	2,689.35	-661.63	133.14	685.80	0.00	0.00	0.00
2,900.00	20.00	170.97	2,783.32	-695.41	138.51	720.00	0.00	0.00	0.00
2,950.74	20.00	170.97	2,831.00	-712.55	141.23	737.35	0.00	0.00	0.00
8 5/8"									
3,000.00	20.00	170.97	2,877.29	-729.19	143.88	754.20	0.00	0.00	0.00
3,100.00	20.00	170.97	2,971.26	-762.97	149.25	788.40	0.00	0.00	0.00
3,200.00	20.00	170.97	3,065.23	-796.75	154.62	822.61	0.00	0.00	0.00
3,300.00	20.00	170.97	3,159.20	-830.52	159.99	856.81	0.00	0.00	0.00
3,356.22	20.00	170.97	3,212.03	-849.51	163.01	876.04	0.00	0.00	0.00
Start Drop -2.00									
3,400.00	19.12	170.97	3,253.28	-863.99	165.31	890.70	2.00	-2.00	0.00
3,500.00	17.12	170.97	3,348.32	-894.71	170.19	921.80	2.00	-2.00	0.00
3,600.00	15.12	170.97	3,444.38	-922.14	174.55	949.57	2.00	-2.00	0.00
3,700.00	13.12	170.97	3,541.35	-946.24	178.38	973.97	2.00	-2.00	0.00
3,800.00	11.12	170.97	3,639.11	-966.98	181.68	994.98	2.00	-2.00	0.00
3,900.00	9.12	170.97	3,737.55	-984.34	184.44	1,012.56	2.00	-2.00	0.00
4,000.00	7.12	170.97	3,836.54	-998.30	186.66	1,026.69	2.00	-2.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site NBU 921-22C PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Site:	NBU 921-22C PAD	North Reference:	True
Well:	NBU 921-22F1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,100.00	5.12	170.97	3,935.97	-1,008.83	188.33	1,037.36	2.00	-2.00	0.00
4,200.00	3.12	170.97	4,035.70	-1,015.93	189.46	1,044.55	2.00	-2.00	0.00
4,300.00	1.12	170.97	4,135.63	-1,019.60	190.04	1,048.25	2.00	-2.00	0.00
4,356.22	0.00	0.00	4,191.85	-1,020.14	190.13	1,048.81	2.00	-2.00	0.00
Start 6928.15 hold at 4356.22 MD									
4,400.00	0.00	0.00	4,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
4,500.00	0.00	0.00	4,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
4,600.00	0.00	0.00	4,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
4,700.00	0.00	0.00	4,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
4,800.00	0.00	0.00	4,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
4,900.00	0.00	0.00	4,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,000.00	0.00	0.00	4,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,076.37	0.00	0.00	4,912.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
WASATCH									
5,100.00	0.00	0.00	4,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,200.00	0.00	0.00	5,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,300.00	0.00	0.00	5,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,400.00	0.00	0.00	5,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,500.00	0.00	0.00	5,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,600.00	0.00	0.00	5,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,700.00	0.00	0.00	5,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,800.00	0.00	0.00	5,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
5,900.00	0.00	0.00	5,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,000.00	0.00	0.00	5,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,100.00	0.00	0.00	5,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,200.00	0.00	0.00	6,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,300.00	0.00	0.00	6,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,400.00	0.00	0.00	6,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,500.00	0.00	0.00	6,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,600.00	0.00	0.00	6,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,700.00	0.00	0.00	6,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,800.00	0.00	0.00	6,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
6,900.00	0.00	0.00	6,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,000.00	0.00	0.00	6,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,100.00	0.00	0.00	6,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,200.00	0.00	0.00	7,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,300.00	0.00	0.00	7,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,400.00	0.00	0.00	7,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,500.00	0.00	0.00	7,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,600.00	0.00	0.00	7,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,700.00	0.00	0.00	7,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,800.00	0.00	0.00	7,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
7,900.00	0.00	0.00	7,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,000.00	0.00	0.00	7,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,010.37	0.00	0.00	7,846.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
MESAVERDE									
8,100.00	0.00	0.00	7,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,200.00	0.00	0.00	8,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,300.00	0.00	0.00	8,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,400.00	0.00	0.00	8,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,500.00	0.00	0.00	8,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,600.00	0.00	0.00	8,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,700.00	0.00	0.00	8,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site NBU 921-22C PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Site:	NBU 921-22C PAD	North Reference:	True
Well:	NBU 921-22F1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Planned Survey									
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
8,800.00	0.00	0.00	8,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
8,900.00	0.00	0.00	8,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,000.00	0.00	0.00	8,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,100.00	0.00	0.00	8,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,200.00	0.00	0.00	9,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,300.00	0.00	0.00	9,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,400.00	0.00	0.00	9,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,500.00	0.00	0.00	9,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,600.00	0.00	0.00	9,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,700.00	0.00	0.00	9,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,800.00	0.00	0.00	9,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
9,900.00	0.00	0.00	9,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,000.00	0.00	0.00	9,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,100.00	0.00	0.00	9,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,200.00	0.00	0.00	10,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,234.37	0.00	0.00	10,070.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
SEGO									
10,280.37	0.00	0.00	10,116.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
CASTLEGATE									
10,300.00	0.00	0.00	10,135.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,400.00	0.00	0.00	10,235.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,500.00	0.00	0.00	10,335.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,600.00	0.00	0.00	10,435.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,684.37	0.00	0.00	10,520.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
BLACKHAWK - BLACKHAWK_NBU 921-22F1CS									
10,700.00	0.00	0.00	10,535.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,800.00	0.00	0.00	10,635.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
10,900.00	0.00	0.00	10,735.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
11,000.00	0.00	0.00	10,835.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
11,100.00	0.00	0.00	10,935.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
11,200.00	0.00	0.00	11,035.63	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
11,284.37	0.00	0.00	11,120.00	-1,020.14	190.13	1,048.81	0.00	0.00	0.00
TD at 11284.37 - PBHL_NBU 921-22F1CS									

Design Targets									
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
BLACKHAWK_NBU 921 - hit/miss target - Shape	0.00	0.00	10,520.00	-1,020.14	190.13	14,538,165.74	2,049,461.55	40° 1' 26.674 N	109° 32' 20.198 W
- plan hits target center - Circle (radius 25.00)									
PBHL_NBU 921-22F1C - hit/miss target - Shape	0.00	0.00	11,120.00	-1,020.14	190.13	14,538,165.74	2,049,461.55	40° 1' 26.674 N	109° 32' 20.198 W
- plan hits target center - Circle (radius 100.00)									



SDI
Planning Report



Database:	EDM5000-RobertS-Local	Local Co-ordinate Reference:	Site NBU 921-22C PAD
Company:	US ROCKIES REGION PLANNING	TVD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Project:	UTAH - UTM (feet), NAD27, Zone 12N	MD Reference:	GL 4823 & KB 4 @ 4827.00ft (ASSUMED)
Site:	NBU 921-22C PAD	North Reference:	True
Well:	NBU 921-22F1CS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	PLAN #1 PRELIMINARY		

Casing Points					
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)	
2,950.74	2,831.00	8 5/8"	8.625	11.000	

Formations					
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,579.01	1,542.00	GREEN RIVER			
1,930.19	1,872.00	BIRDSNEST			
2,471.86	2,381.00	MAHOGANY			
5,076.37	4,912.00	WASATCH			
8,010.37	7,846.00	MESAVERDE			
10,234.37	10,070.00	SEGO			
10,280.37	10,116.00	CASTLEGATE			
10,684.37	10,520.00	BLACKHAWK			

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment	
		+N/-S (ft)	+E/-W (ft)		
300.00	300.00	15.66	25.48	Start Build 2.00	
1,300.00	1,279.82	-154.96	52.60	Start 2056.22 hold at 1300.00 MD	
3,356.22	3,212.03	-849.51	163.01	Start Drop -2.00	
4,356.22	4,191.85	-1,020.14	190.13	Start 6928.15 hold at 4356.22 MD	
11,284.37	11,120.00	-1,020.14	190.13	TD at 11284.37	

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

NBU 921-22C Pad

<u>API #</u>	<u>NBU 921-22C GR</u>		
	Surface: 723 FNL / 1959 FWL	NENW	Lot
	BHL: 723 FNL / 1959 FWL	NENW	Lot
<u>API #</u>	<u>NBU 921-22C1BS</u>		
	Surface: 691 FNL / 2010 FWL	NENW	Lot
	BHL: 85 FNL / 2150 FWL	NENW	Lot
<u>API #</u>	<u>NBU 921-22C4CS</u>		
	Surface: 696 FNL / 2001 FWL	NENW	Lot
	BHL: 1078 FNL / 2149 FWL	NENW	Lot
<u>API #</u>	<u>NBU 921-22F1BS</u>		
	Surface: 701 FNL / 1993 FWL	NENW	Lot
	BHL: 1410 FNL / 2149 FWL	SENW	Lot
<u>API #</u>	<u>NBU 921-22F1CS</u>		
	Surface: 707 FNL / 1984 FWL	NENW	Lot
	BHL: 1742 FNL / 2149 FWL	SENW	Lot
<u>API #</u>	<u>NBU 921-22F4BS</u>		
	Surface: 712 FNL / 1976 FWL	NENW	Lot
	BHL: 2073 FNL / 2149 FWL	SENW	Lot

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

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, these wells will be directionally drilled. Refer to Topo Map A for directions to the location and Topo Maps A and B for location of access roads within a 2-mile radius.

An on-site meeting was held on October 3-4, 2011. Present were:

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

A. Existing Roads:

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

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

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

Please refer to Topo B, for existing roads.

B. New or Reconstructed Access Roads:

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

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

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

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

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

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

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

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

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

The following segments are "on-lease"

±175' (0.03 miles) – Section 22 T9S R21E (NW/4) – On-lease UTU0147566, road re-route from the edge of pad to the existing road to the east. Please refer to Topo B.

C. Location of Existing Wells:

A) Refer to Topo Map C.

D. Location of Existing and/or Proposed Facilities:

This pad will expand the existing pad for the NBU 192, which is a producing gas well according to Utah Division of Oil, Gas and Mining (UDOGM) records on November 3, 2011. Gathering (pipeline) infrastructure will be utilized to collect and transport gas and fluids from the wells which are owned and operated by Kerr McGee Oil and Gas Onshore LP (Kerr-McGee).

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

GAS GATHERING*Please refer to Topo D2- Pad and Pipeline Detail.*

coating (or equivalent). The total gas gathering pipeline distance from the meter to the tie in point is $\pm 315'$ and the individual segments are broken up as follows:

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

$\pm 315'$ (0.06 miles) – Section 22 T9S R21E (NW/4) – On-lease UTU0147566 Ute Indian Tribe surface, New 8" buried gas gathering pipeline from the meter to the proposed 16" gas pipeline- ROW in progress. Please refer to Topo D2 - Pad and Pipeline Detail.

LIQUID GATHERING*Please refer to Topo D2- Pad and Pipeline Detail.*

The total liquid gathering pipeline distance from the separator to the tie in point is $\pm 315'$ and the individual segments are broken up as follows:

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

$\pm 315'$ (0.06 miles) – Section 22 T9S R21E (NW/4) – On-lease UTU0147566 Ute Indian Tribe surface, New 6" buried liquid gathering pipeline from the separator to the proposed 6" liquid pipeline- ROW in progress. Please refer to Topo D2 - Pad and Pipeline Detail.

Pipeline Gathering Construction

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

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

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

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

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

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

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

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

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

When no longer deemed necessary by the operator, Kerr-McGee or its successor will consult with the Vernal BIA Office before terminating the use of the pipeline(s).

The Anadarko Completions Transportation System (ACTS) information:

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

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

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

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

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

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

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

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

E. Location and Types of Water Supply:

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

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

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

No water well is to be drilled on this lease.

F. Construction Materials:

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

G. Methods for Handling Waste:

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

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

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

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

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

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

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

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

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

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

Materials Management

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

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

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

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

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

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

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

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

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

H. Ancillary Facilities:

ancillary facilities are

I. Well Site Layout:

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

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

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

J. Plans for Surface Reclamation:

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

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

Interim Reclamation

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

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

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

Final Reclamation

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

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

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

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

Measures Common to Interim and Final Reclamation

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

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

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

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

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

Weed Control

Noxious weeds will be controlled in all project areas in accordance with all applicable rules and regulations.

K. Surface/Mineral Ownership:

Ute Indian Tribe	United States of America
P.O. Box 70	Bureau of Land Management
988 South 7500 East Annex Building	170 South 500 East
Fort Duchesne, UT 84026	Vernal, UT 84078
(435) 722-4307	(435)781-4400

L. Other Information:

Onsite Specifics:

- Proposed pond on west side of the pad will be added to alteration permit
- Arch monitor during construction
- Paleo monitor during construction

Cultural and Paleontological Resources

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

Resource Reports:

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

A paleontological reconnaissance survey was completed on July 20, 2010 by SWCA Environmental Consultants. For additional details please refer to report UT11-14314-115.

Biological field survey was completed on August 8 and 16, 2011 by Grasslands Consulting, Inc (GCI). For additional details please refer to report GCI-566.

Proposed Action Annual Emissions Tables:

Pollutant	Development	Production	Total
NOx	3.8	0.12	3.92
CO	2.2	0.11	2.31
VOC	0.1	4.9	5
SO ₂	0.005	0.0043	0.0093
PM ₁₀	1.7	0.11	1.81
PM _{2.5}	0.4	0.025	0.425
Benzene	2.2E-03	0.044	0.046
Toluene	1.6E-03	0.103	0.105
Ethylbenzene	3.4E-04	0.005	0.005
Xylene	1.1E-03	0.076	0.077
n-Hexane	1.7E-04	0.145	0.145
Formaldehyde	1.3E-02	8.64E-05	1.31E-02

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

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

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

Uintah Basin Data

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

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

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

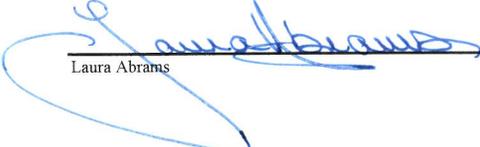
Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

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

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

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

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



Laura Abrams

December 15, 2011

Date



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

October 10, 2011

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

Re: Directional Drilling R649-3-11
NBU 921-22F1CS
T9S-R21E
Section 22 NENW (Surface), SENW (Bottom Hole)
Surface: 707' FNL, 1984' FWL
Bottom Hole: 1742' FNL, 2149' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 921-22F1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing roads and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,

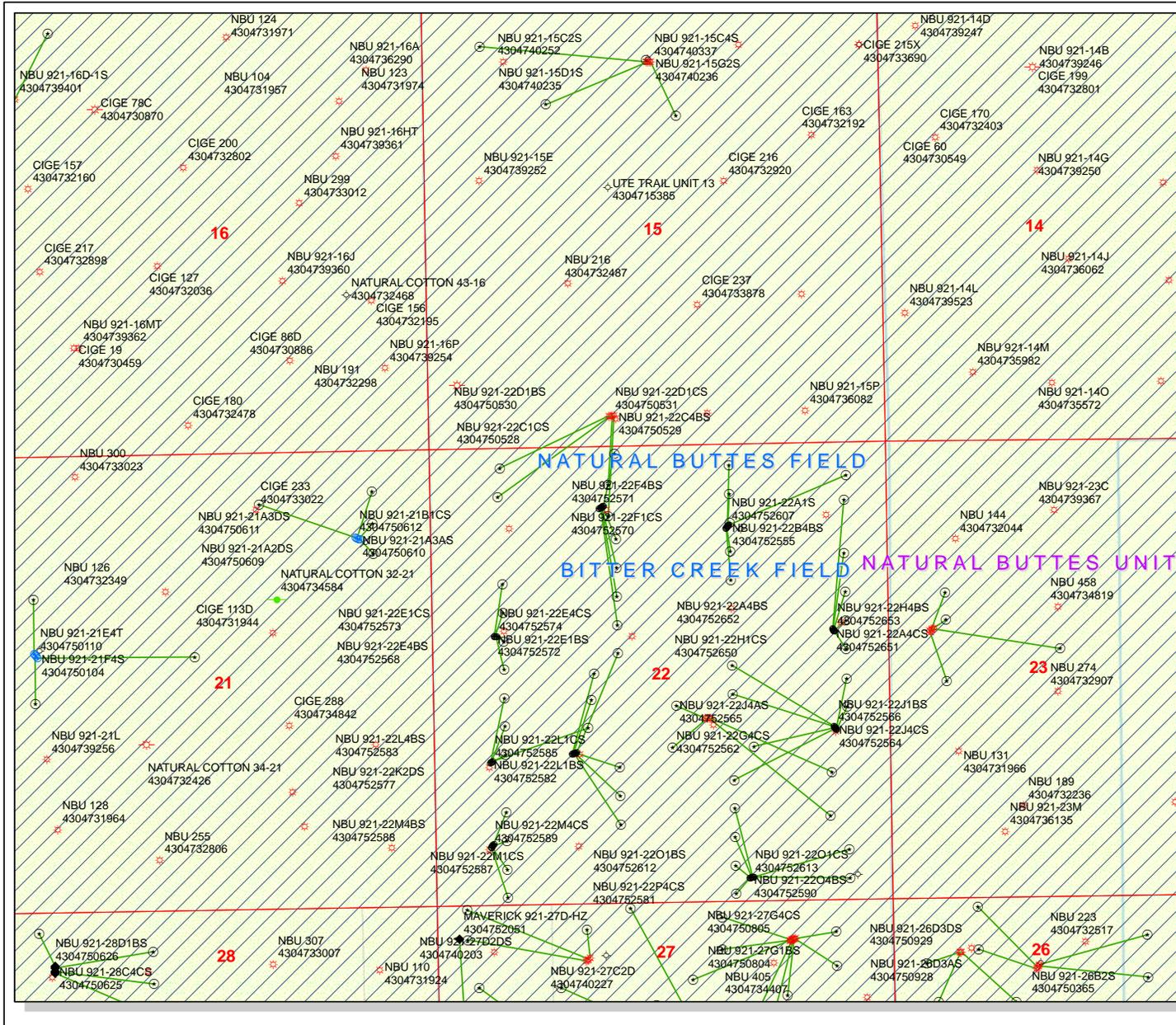
KERR-MCGEE OIL & GAS ONSHORE LP

A handwritten signature in blue ink that reads 'Joe Matney'.

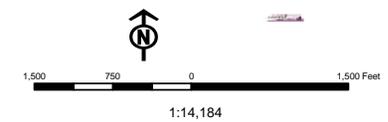
Joe Matney
Sr. Staff Landman

API Number: 4304752570
Well Name: NBU 921-22F1CS
 Township T0.9 . Range R2.1 . Section 22
 Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason



Units STATUS	Wells Query Status
ACTIVE	APD - Approved Permit
EXPLORATORY	DRL - Spudded (Drilling Commenced)
GAS STORAGE	GWJ - Gas Injection
NF PP OIL	GS - Gas Storage
NF SECONDARY	LA - Location Abandoned
PI OIL	LOC - New Location
PP GAS	OPS - Operation Suspended
PP GEOTHERM.	PA - Plugged Abandoned
PP OIL	PGW - Producing Gas Well
SECONDARY	POW - Producing Oil Well
TERMINATED	RET - Returned APD
Unknown	SGW - Shut-in Gas Well
ABANDONED	SOW - Shut-in Oil Well
ACTIVE	TA - Temp. Abandoned
COMBINED	TW - Test Well
INACTIVE	WDW - Water Disposal
STORAGE	WIW - Water Injection Well
TERMINATED	WSW - Water Supply Well



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office

P.O. Box 45155

Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:

3160

(UT-922)

May 14, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

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

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

API #	WELL NAME	LOCATION
-------	-----------	----------

(Proposed PZ WASATCH-MESA VERDE)

WELL PAD - NBU 921-22K

43-047-52550	NBU 921-22K2AS	Sec 22 T09S R21E 1748 FSL 1611 FWL
	BHL	Sec 22 T09S R21E 2366 FSL 1832 FWL

43-047-52551	NBU 921-22K4CS	Sec 22 T09S R21E 1753 FSL 1640 FWL
	BHL	Sec 22 T09S R21E 1576 FSL 2147 FWL

43-047-52552	NBU 921-22N1BS	Sec 22 T09S R21E 1751 FSL 1630 FWL
	BHL	Sec 22 T09S R21E 1244 FSL 2147 FWL

43-047-52575	NBU 921-22F4CS	Sec 22 T09S R21E 1755 FSL 1650 FWL
	BHL	Sec 22 T09S R21E 2406 FNL 2148 FWL

43-047-52576	NBU 921-22F3DS	Sec 22 T09S R21E 1747 FSL 1601 FWL
	BHL	Sec 22 T09S R21E 2634 FNL 1870 FWL

43-047-52580	NBU 921-22N1CS	Sec 22 T09S R21E 1750 FSL 1620 FWL
	BHL	Sec 22 T09S R21E 0912 FSL 2146 FWL

WELL PAD - NBU 921-22B

43-047-52553	NBU 921-22G1CS	Sec 22 T09S R21E 0973 FNL 1861 FEL
	BHL	Sec 22 T09S R21E 1574 FNL 1818 FEL

43-047-52554	NBU 921-22B4CS	Sec 22 T09S R21E 0965 FNL 1854 FEL
	BHL	Sec 22 T09S R21E 1243 FNL 1819 FEL

43-047-52555	NBU 921-22B4BS	Sec 22 T09S R21E 0935 FNL 1828 FEL
	BHL	Sec 22 T09S R21E 0911 FNL 1819 FEL

43-047-52556	NBU 921-22B1CS	Sec 22 T09S R21E 0950 FNL 1841 FEL
	BHL	Sec 22 T09S R21E 0579 FNL 1819 FEL

RECEIVED: May 15, 2012

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-52557	NBU 921-22B1BS	Sec 22 T09S R21E 0958 FNL 1848 FEL
	BHL	Sec 22 T09S R21E 0249 FNL 1819 FEL
43-047-52607	NBU 921-22A1S	Sec 22 T09S R21E 0943 FNL 1835 FEL
	BHL	Sec 22 T09S R21E 0386 FNL 0464 FEL
WELL PAD - NBU 921-22C		
43-047-52558	NBU 921-22C1BS	Sec 22 T09S R21E 0691 FNL 2010 FWL
	BHL	Sec 22 T09S R21E 0085 FNL 2150 FWL
43-047-52567	NBU 921-22C4CS	Sec 22 T09S R21E 0696 FNL 2001 FWL
	BHL	Sec 22 T09S R21E 1078 FNL 2149 FWL
43-047-52569	NBU 921-22F1BS	Sec 22 T09S R21E 0701 FNL 1993 FWL
	BHL	Sec 22 T09S R21E 1410 FNL 2149 FWL
43-047-52570	NBU 921-22F1CS	Sec 22 T09S R21E 0707 FNL 1984 FWL
	BHL	Sec 22 T09S R21E 1742 FNL 2149 FWL
43-047-52571	NBU 921-22F4BS	Sec 22 T09S R21E 0712 FNL 1976 FWL
	BHL	Sec 22 T09S R21E 2073 FNL 2149 FWL
WELL PAD - NBU 921-22I		
43-047-52560	NBU 921-22I1CS	Sec 22 T09S R21E 1973 FSL 0620 FEL
	BHL	Sec 22 T09S R21E 2237 FSL 0494 FEL
43-047-52561	NBU 921-22I1BS	Sec 22 T09S R21E 1981 FSL 0626 FEL
	BHL	Sec 22 T09S R21E 2569 FSL 0494 FEL
43-047-52562	NBU 921-22G4CS	Sec 22 T09S R21E 2013 FSL 0650 FEL
	BHL	Sec 22 T09S R21E 2569 FNL 1818 FEL
43-047-52564	NBU 921-22J4CS	Sec 22 T09S R21E 1989 FSL 0632 FEL
	BHL	Sec 22 T09S R21E 1410 FSL 1817 FEL
43-047-52565	NBU 921-22J4AS	Sec 22 T09S R21E 1997 FSL 0638 FEL
	BHL	Sec 22 T09S R21E 1796 FSL 1580 FEL
43-047-52566	NBU 921-22J1BS	Sec 22 T09S R21E 2005 FSL 0644 FEL
	BHL	Sec 22 T09S R21E 2405 FSL 1817 FEL
WELL PAD - NBU 921-22H		
43-047-52563	NBU 921-22H4CS	Sec 22 T09S R21E 2196 FNL 0627 FEL
	BHL	Sec 22 T09S R21E 2403 FNL 0494 FEL
43-047-52650	NBU 921-22H1CS	Sec 22 T09S R21E 2179 FNL 0637 FEL
	BHL	Sec 22 T09S R21E 1740 FNL 0494 FEL
43-047-52651	NBU 921-22A4CS	Sec 22 T09S R21E 2170 FNL 0642 FEL
	BHL	Sec 22 T09S R21E 1288 FNL 0504 FEL
43-047-52652	NBU 921-22A4BS	Sec 22 T09S R21E 2162 FNL 0647 FEL
	BHL	Sec 22 T09S R21E 0670 FNL 0494 FEL
43-047-52653	NBU 921-22H4BS	Sec 22 T09S R21E 2188 FNL 0632 FEL
	BHL	Sec 22 T09S R21E 2071 FNL 0494 FEL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
WELL PAD - NBU 921-22E		
43-047-52568	NBU 921-22E4BS	Sec 22 T09S R21E 2179 FNL 0750 FWL
	BHL	Sec 22 T09S R21E 2239 FNL 0824 FWL
43-047-52572	NBU 921-22E1BS	Sec 22 T09S R21E 2179 FNL 0720 FWL
	BHL	Sec 22 T09S R21E 1576 FNL 0824 FWL
43-047-52573	NBU 921-22E1CS	Sec 22 T09S R21E 2179 FNL 0730 FWL
	BHL	Sec 22 T09S R21E 1908 FNL 0824 FWL
43-047-52574	NBU 921-22E4CS	Sec 22 T09S R21E 2179 FNL 0740 FWL
	BHL	Sec 22 T09S R21E 2572 FNL 0824 FWL
WELL PAD - NBU 921-22L		
43-047-52577	NBU 921-22K2DS	Sec 22 T09S R21E 1668 FSL 0666 FWL
	BHL	Sec 22 T09S R21E 2038 FSL 1784 FWL
43-047-52582	NBU 921-22L1BS	Sec 22 T09S R21E 1660 FSL 0648 FWL
	BHL	Sec 22 T09S R21E 2408 FSL 0824 FWL
43-047-52583	NBU 921-22L4BS	Sec 22 T09S R21E 1672 FSL 0675 FWL
	BHL	Sec 22 T09S R21E 1744 FSL 0824 FWL
43-047-52585	NBU 921-22L1CS	Sec 22 T09S R21E 1664 FSL 0657 FWL
	BHL	Sec 22 T09S R21E 2076 FSL 0824 FWL
WELL PAD - NBU 921-22O		
43-047-52578	NBU 921-22O4CS	Sec 22 T09S R21E 0269 FSL 1655 FEL
	BHL	Sec 22 T09S R21E 0086 FSL 1816 FEL
43-047-52579	NBU 921-22P4BS	Sec 22 T09S R21E 0280 FSL 1606 FEL
	BHL	Sec 22 T09S R21E 0581 FSL 0494 FEL
43-047-52581	NBU 921-22P4CS	Sec 22 T09S R21E 0278 FSL 1616 FEL
	BHL	Sec 22 T09S R21E 0251 FSL 0494 FEL
43-047-52590	NBU 921-22O4BS	Sec 22 T09S R21E 0271 FSL 1645 FEL
	BHL	Sec 22 T09S R21E 0416 FSL 1816 FEL
43-047-52612	NBU 921-22O1BS	Sec 22 T09S R21E 0276 FSL 1625 FEL
	BHL	Sec 22 T09S R21E 1079 FSL 1817 FEL
43-047-52613	NBU 921-22O1CS	Sec 22 T09S R21E 0274 FSL 1635 FEL
	BHL	Sec 22 T09S R21E 0747 FSL 1816 FEL
WELL PAD - NBU 921-22M		
43-047-52586	NBU 921-22M1BS	Sec 22 T09S R21E 0695 FSL 0660 FWL
	BHL	Sec 22 T09S R21E 1080 FSL 0823 FWL
43-047-52587	NBU 921-22M1CS	Sec 22 T09S R21E 0686 FSL 0654 FWL
	BHL	Sec 22 T09S R21E 0748 FSL 0823 FWL
43-047-52588	NBU 921-22M4BS	Sec 22 T09S R21E 0678 FSL 0649 FWL
	BHL	Sec 22 T09S R21E 0416 FSL 0823 FWL
43-047-52589	NBU 921-22M4CS	Sec 22 T09S R21E 0670 FSL 6043 FWL
	BHL	Sec 22 T09S R21E 0086 FSL 0823 FWL

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

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

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

MCoulthard:mc:5-14-12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 4/27/2012

API NO. ASSIGNED: 43047525700000

WELL NAME: NBU 921-22F1CS

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

PHONE NUMBER: 720 929-6356

CONTACT: Laura Abrams

PROPOSED LOCATION: NENW 22 090S 210E

Permit Tech Review:

SURFACE: 0707 FNL 1984 FWL

Engineering Review:

BOTTOM: 1742 FNL 2149 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02687

LONGITUDE: -109.54019

UTM SURF EASTINGS: 624563.00

NORTHINGS: 4431760.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0147566

PROPOSED PRODUCING FORMATION(S): BLACKHAWK

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

Commingle Approved

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
- R649-3-3. Exception
- Drilling Unit
- Board Cause No: Cause 179-14
- Effective Date: 12/2/1999
- Siting: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations: 3 - Commingle - dducet
 4 - Federal Approval - dmason
 15 - Directional - 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 921-22F1CS
API Well Number: 43047525700000
Lease Number: UTU 0147566
Surface Owner: INDIAN
Approval Date: 5/30/2012

Issued to:

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

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 179-14. The expected producing formation or pool is the BLACKHAWK Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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

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

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

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

Notification Requirements:

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

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

(please leave a voicemail message if not available)

OR

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

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

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

RECEIVED

RECEIVED

Form 3160-3
(August 2007)

JUN 18 2012

JAN 10 2012

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

BLM, Vernal Utah

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU0147566

6. If Indian, Allottee or Tribe Name

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

8. Lease Name and Well No.
NBU 921-22F1CS

9. API Well No.
43 DA7 52570

10. Field and Pool, or Exploratory
NATURAL BUTTES

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

12. County or Parish
UINTAH

13. State
UT

17. Spacing Unit dedicated to this well

20. BLM/BIA Bond No. on file
WYB000291

23. Estimated duration
60-90 DAYS

1a. Type of Work: DRILL REENTER

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

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

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface NENW 707FNL 1984FWL 40.026884 N Lat, 109.540220 W Lon
At proposed prod. zone SENW 1742FNL 2149FWL 40.024040 N Lat, 109.539632 W Lon

14. Distance in miles and direction from nearest town or post office*
APPROXIMATELY 44.4 MILES SOUTH OF VERNAL, UT

15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
486'

16. No. of Acres in Lease
160.00

18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft.
514'

19. Proposed Depth
11284 MD
11120 TVD

21. Elevations (Show whether DF, KB, RT, GL, etc.)
4823 GL

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

24. Attachments

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

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

25. Signature (Electronic Submission) Name (Printed/Typed) LAURA ABRAMS Ph: 720-929-6356 Date 12/16/2011

Title REGULATORY ANALYST II

Approved by (Signature) Name (Printed/Typed) Jerry Kenczka JUN 07 2012

Title Assistant Field Manager Lands & Mineral Resources Office VERNAL FIELD OFFICE

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

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

Additional Operator Remarks (see next page)

Electronic Submission #126053 verified by the BLM Well Information System For KERR MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal



NOTICE OF APPROVAL

CONDITIONS OF APPROVAL ATTACHED

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

17.1 BERNASIAS

NO NOS -
Kerr Dicked 11/1/12



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore LP	Location:	NENW, Sec. 22, T9S R21E
Well No:	NBU 921-22F1CS	Lease No:	UTU-0147566
API No:	43-047-52570	Agreement:	Natural Buttes

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

Construction Activity (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- The Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist shall be notified at least 48 hours in advance of any construction activity. The Ute Tribal office is open Monday through Thursday.
Construction Completion (Notify Ute Tribe Energy & Minerals Dept. and BLM Environmental Scientist)	- Upon completion of the pertinent APD/ROW construction, notify the Ute Tribe Energy & Minerals Dept. for a Tribal Technician to verify the Affidavit of Completion. Notify the BLM Environmental Scientist prior to moving on the drilling rig.
Spud Notice (Notify BLM Petroleum Engineer)	- Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
BOP & Related Equipment Tests (Notify BLM Supv. Petroleum Tech.)	- Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify BLM Petroleum Engineer)	- Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.

Site Specific COA's

- Paint facilities "Shadow Gray"
- Conduct a raptor survey prior to construction operation if such activates would take place during raptor nesting season (January 1- September 30). If active raptor nests are identified during the survey, operations should be conducted according to the seasonal restrictions detailed in the Uinta Basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah
- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.
- Monitor construction operation with a permitted archaeologist.
- Monitor construction operation with a permitted paleontologist.
- Construct low water crossing on access road.
- Construct diversion pond on west side of well pad to slow runoff.

Pipeline Route from North Compressor to West Cottonwood Compressor

- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.
- Monitor areas with a permitted paleontologist where pipeline travels through Sections 15, 16, 17, and 22. Monitor section 27 at the beginning of construction and spot monitor thereafter.

ACTS line

- If construction and/or drilling operations have not been initiated prior to August 8, 2012, conduct a biological survey to determine the guidelines specified in the USFWS Rare Plant Conservation Measures and the BLM RMP ROD. KMG will implement commitment contained in the GNB BO.
- Monitor areas with a permitted paleontologist where ACTS line travels through Section 15 SWSE, and Section 22 NWNE, NENW, SWSW, and SWSE.

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

SITE SPECIFIC DOWNHOLE COAs:

- Surface casing cement shall be brought to surface.
- Production casing cement shall be brought 400' up and into the surface casing.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person

making the report (along with a telephone number) should the BLM need to obtain additional information.

- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to BLM_UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if

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

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
1. TYPE OF WELL Gas Well	7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 921-22F1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047525700000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: Uintah STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/9/2012	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU TRIPLE A BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CEMENT WITH 28
 SACKS READY MIX. SPUD WELL LOCATION ON NOVEMBER 09, 2012 AT
 11:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 November 13, 2012

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 11/12/2012	

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By L. Urban Phone Number 720.929.6501
 Well Name/Number NBU 921-22F1CS
 Qtr/Qtr NE/NW Section 22 Township 9S Range 21E
 Lease Serial Number UTU0147566
 API Number 4304752570

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

Date/Time 11/09/2012 11:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

Date/Time 11/22/2012 08:00 HRS AM PM

BOPE

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

Date/Time _____ AM PM

Remarks ESTIMATED DATE AND TIME. PLEASE CONTACT KENNY GATHINGS AT

435.828.0986 OR LOVEL YOUNG AT 435.781.7051

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

FORM 6

ENTITY ACTION FORM

Operator: KERR McGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6857

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752571	NBU 921-22F4BS		NENW	22	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	2900	11/9/2012			11/15/2012	
Comments: MIRU TRIPLE A BUCKET RIG. WSMVD SPUD WELL LOCATION ON NOVEMBER 09, 2012 AT 08:00 HRS. BHL: SENW							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752570	NBU 921-22F1CS		NENW	22	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	2900	11/9/2012			11/15/2012	
Comments: MIRU TRIPLE A BUCKET RIG. WSMVD SPUD WELL LOCATION ON NOVEMBER 09, 2012 AT 11:30 HRS. BHL: SENW							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304752569	NBU 921-22F1BS		NENW	22	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
B	9999	2900	11/9/2012			11/15/2012	
Comments: MIRU TRIPLE A BUCKET RIG. WSMVD SPUD WELL LOCATION ON NOVEMBER 09, 2012 AT 14:30 HRS. BHL: SENW							

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)

Lindsey Frazier

Name (Please Print)

Signature

REGULATORY ANALYST II

11/13/2012

Title

Date

RECEIVED
NOV 13 2012

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22F1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047525700000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/2/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

No Activity for the month of December 2012. Well TD at 2,910

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

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/2/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22F1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047525700000
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: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/21/2013 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input type="text" value="DV Tool"/>

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

If extreme mud losses are observed or cement doesn't reach surface on a well on the pad, the operator requests authorization to place a DV tool in the production casing string and run a 2 stage cement job after setting the production casing to ensure cement is properly circulated to surface. Below describes how it will be conducted: Run I-80 casing from TD to approximately 4,950 feet where the DV Tool will be placed. Run a centralizer and cement basket on the I-80 joint below the DV Tool (use a stop ring to keep the CMT Basket at top of the tool joint). Run a DV Tool at approximately 4,950 feet. Run LTC/DXQ crossover. Run a centralizer and a cement basket on the Crossover (use a stop ring to keep the CMT Basket at bottom of the tool joint). Run DXQ casing to surface. The actual depth details will be captured in the well completion report.

Accepted by the Utah Division of Oil, Gas and Mining

Date: March 05, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/21/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22F1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047525700000
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: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 2/21/2013	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input type="text" value="Multi-Phase Meter"/>

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

The operator is requesting the option to measure total gas produced from a pad, and to allocate gas production to the individual wells on the pad based upon multi-phase flow measurement at each well and periodic well tests. Please see the attached documents. Thank you.
 NBU 921-22C PAD: NBU 921-22F4BS 4304752571 NBU 921-22F1CS 4304752570 NBU 921-22F1BS 4304752569 NBU 921-22C4CS 4304752567 NBU 921-22C1BS 4304752558

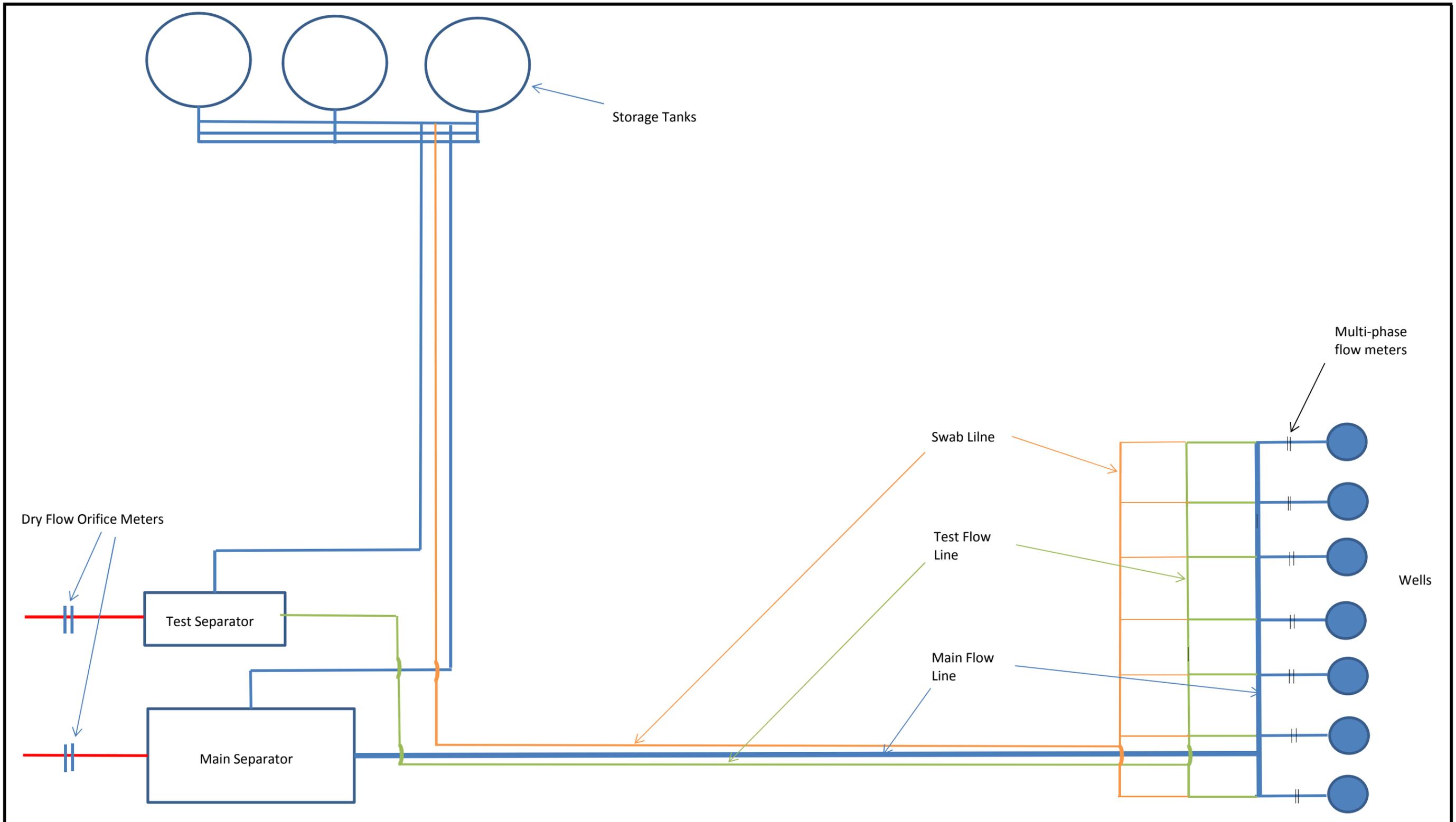
**Approved by the
 Utah Division of
 Oil, Gas and Mining**

Date: March 07, 2013

By: *Derek Quist*

NAME (PLEASE PRINT) Lindsey Frazier	PHONE NUMBER 720 929-6857	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 2/21/2013	

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



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

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
1. TYPE OF WELL Gas Well	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	8. WELL NAME and NUMBER: NBU 921-22F1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047525700000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/5/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Drilled and ran production casing, TD at 11,278.

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

NAME (PLEASE PRINT) Doreen Green	PHONE NUMBER 435 781-9758	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 4/5/2013	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566	
SUNDRY NOTICES AND REPORTS ON WELLS	
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-22F1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047525700000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 5/3/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

No Activity for the month of April 2013. Well TD at 11260 ft.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 06, 2013

NAME (PLEASE PRINT) Luke Urban	PHONE NUMBER 720 929-6501	TITLE Regulatory Specialist
SIGNATURE N/A	DATE 5/3/2013	

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.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	8. WELL NAME and NUMBER: NBU 921-22F1CS
PHONE NUMBER: 720 929-6511	9. API NUMBER: 43047525700000
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/3/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Started completing the well. Well TD at 11,278 ft.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 June 04, 2013

NAME (PLEASE PRINT) Matthew P Wold	PHONE NUMBER 720 929-6993	TITLE Regulatory Analyst I
SIGNATURE N/A	DATE 6/3/2013	

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.	
1. TYPE OF WELL Gas Well	5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0147566
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute In
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
PHONE NUMBER: 720 929-6511	8. WELL NAME and NUMBER: NBU 921-22F1CS
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0707 FNL 1984 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENW Section: 22 Township: 09.0S Range: 21.0E Meridian: S	9. API NUMBER: 43047525700000
	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/13/2013	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

The subject well was placed on production on 6/13/2013. The chronological well history will be submitted with the well completion report.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 June 18, 2013

NAME (PLEASE PRINT) Teena Paulo	PHONE NUMBER 720 929-6236	TITLE Staff Regulatory Specialist
SIGNATURE N/A	DATE 6/18/2013	

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 BIRD'S NEST MAHOGANY WASATCH MESAVERDE	1650 1994 2434 5098 8013

32. Additional remarks (include plugging procedure):

The first 210 ft of the surface hole was drilled with a 12 1/4 inch bit. The remainder of the surface hole was drilled with an 11 inch bit. DQX csg was run from surface to 5120 ft; LTC csg was run from 5120 ft. to 11,260 ft. Attached is the chronological well history, perforation report and final survey.

33. Circle enclosed attachments:

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

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

**Electronic Submission #213043 Verified by the BLM Well Information System.
For KERR MCGEE OIL&GAS ONSHORE,LP, sent to the Vernal**

Name (please print) TEENA PAULO Title STAFF REGULATORY SPECIALIST

Signature (Electronic Submission) Date 07/10/2013

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

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

RECEIVED: Aug. 20, 2013

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
12/7/2012	16:00 - 20:30	4.50	MIRU	01	C	P		RIG UP DIVERTER & FLOWLINE /// SPOT RIG OVER WELL, SET CATWALK & PIPE RACKS, HOOK UP & PRIME PUMP & PRIME
	20:30 - 21:00	0.50	DRLSUR	06	A	P		PICK UP 12.25" BIT, 8" MUD MOTOR & TIH
	21:00 - 22:30	1.50	DRLSUR	02	B			DRILL 12.25" SURFACE HOLE F/44'-210' ROP= 166' @ 111FPH WOB= 5-15K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 800/500 UP/DN/ROT = 37/33/35 NOV ON LINE
	22:30 - 23:00	0.50	DRLSUR	06	A	P		TOOH & LAY DOWN 12.25" BIT
	23:00 - 0:00	1.00	DRLSUR	06	A	P		PICK UP 11" BIT, DIR. TOOLS, SCRIBE & TIH
12/8/2012	0:00 - 6:00	6.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 210'- 1080' ROP= 870' @ 145 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 950/825 UP/DOWN/ ROT= 56/49/51K.~DRAG= 5K TORQUE ON/OFF= 3000/1200 NOV ON LINE MW= 8.5 SLIDE 34' / 4% 3' ABOVE & 5' LEFT OF TARGET LINE NO HOLE ISSUES
	6:00 - 12:00	6.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 1080'- 1620' ROP= 540' @ 90 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1400/1150 UP/DOWN/ ROT= 70/56/62K.~DRAG= 8K TORQUE ON/OFF=3000/1400 NOV ON LINE MW= 8.5 SLIDE 172' / 26% 3.5' ABOVE & 1.75' LEFT OF TARGET LINE NO HOLE ISSUES

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	12:00 - 18:00	6.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 1620'-2120' ROP= 500' @ 83 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1450/1250 UP/DOWN/ ROT= 75/55/65K.~DRAG= 10K TORQUE ON/OFF=3000/1400 NOV ON LINE MW= 8.5 SLIDE 81' / 18% 2' BELOW & .5' RIGHT OF TARGET LINE NO HOLE ISSUES
	18:00 - 0:00	6.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 2120'- 2450' ROP= 330' @ 55 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1800/1600 UP/DOWN/ ROT= 85/65/75 K.~DRAG= 10 K TORQUE ON/OFF=3000/1400 NOV ON LINE MW= 8.5 SLIDE 67' / 14.5% .5' ABOVE & 1.5' RIGHT OF TARGET LINE NO HOLE ISSUES
12/9/2012	0:00 - 6:00	6.00	DRLSUR	02	B	P		DRILL 11". SURFACE HOLE F/ 2450'-2910' ROP= 460' @ 77 FPH WOB= 18-22K. RPM= TOP DRIVE~55 / MOTOR ~83 /// TOTAL RPM~138 GPM= 491 @ 120 SPM SPP ON/OFF= 1800/1600 UP/DOWN/ ROT= 85/65/75 K.~DRAG= 10 K TORQUE ON/OFF=3000/1400 NOV ON LINE MW= 8.5 TOTAL SLIDE FOR WELL 480' / 17% 1.5' BELOW & 3.5' RIGHT OF TARGET LINE LOST 50% RETURNS @ 2450' /// AIR ON @ 2200 CFM NO OTHER HOLE ISSUES
	6:00 - 8:00	2.00	DRLSUR	05	A	P		CIRCULATE & CONDITION HOLE F/ 8-5/8" CSG
	8:00 - 12:30	4.50	DRLSUR	06	A	P		LAY DOWN DRILL STRING & DIR TOOLS (WELL FLOWING ~ PUMP 130 BBL'S 12.# KILL MUD)
	12:30 - 13:00	0.50	CSGSUR	12	A	P		PJSM FOR RUN CSG /// MOVE PIPE RACKS & CATWALK & MOVE CSG INTO POSITION TO PICK UP
	13:00 - 16:00	3.00	CSGSUR	12	C	P		RUN 65 JT'S, 8-5/8", 28#, J-55, LT&C CSG. /// SHOE SET @ 2879' & BAFFLE @ 2834'
	16:00 - 16:30	0.50	CSGSUR	12	E	P		CIRCULATE CSG /// RUN 200' OF 1" DOWN BACKSIDE, RIG DOWN & MOVE RIG OF WELL /// INSTALL CMT HEAD & PLUG/// PJSM FOR CEMENTING

Operation Summary Report

Well: NBU 921-22F1CS BLUE

Spud Date: 12/7/2012

Project: UTAH-UINTAH

Site: NBU 921-22C PAD

Rig Name No: PROPETRO 12/12, H&P 298/298

Event: DRILLING

Start Date: 11/8/2012

End Date: 3/17/2013

Active Datum: RKB @4,849.00usft (above Mean Sea Level)

UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:30 - 18:00	1.50	CSGSUR	12	E	P		RIG UP PUMP TRUCK /// TEST LINES TO 1500 PSI /// PUMP 140 BBLs WATER AHEAD FOLLOWED BY 20 BBL GEL WATER FLUSH /// LEAD = 300sx CLASS G CMT @ 12.0 ppg & 2.86 YIELD /// TAIL= 200sx CLASS G CMT @ 15.8 ppg & 1.15 YIELD /// DROP PLUG & DISPLACE W/ 176 BBL'S WATER /// PLUG DN @ 17:38 12/09/2012 /// BUMP PLUG W/ 1050 PSI /// FINAL LIFT = 750 PSI /// CHECK FLOAT- HELD W/ .5 BBL'S BACK /// 75% CIRCULATION WITH NO CMT TO SURFACE /// PUMP 1ST TOP OUT DOWN 1" W/ 175 sx CMT @ 15.8ppg & 1.15 YIELD~ CMT TO SURFACE BUT FELL BACK /// PUMP 2nd TOP OUT W/ 75 sx CMT ~ CMT TO SURFACE & STAYED
								RELEASE RIG @ 18:00 12/09/2012 TO THE NBU 921-22C4CS
3/8/2013	8:00 - 10:00	2.00	MIRU3	01	C	P		PREPARE & SKID RIG
	10:00 - 11:00	1.00	MIRU3	01	B	P		RIG UP AFTER SKID
	11:00 - 12:00	1.00	PRPSPD	14	A	P		NIPPLE UP BOP'S & EQUIPMENT
	12:00 - 17:00	5.00	PRPSPD	15	A	P		PRESSURE TEST H&P EQUIPMENT - BLIND RAMS,PIPE RAMS,FLOOR VALVES,IBOP& MANUEL VALVE,KILL LINES& KILL VLAVES,BOP WING VALVES,HCR VALVE ,INNER & OUTER CHOKE VALVES ,CHOKE MANIFOLD TO 250 PSI LOW FOR 5MINUTES & HIGH TEST TO 5000 PSI FOR 10 MINUTES,TEST ANNULAR 250 PSI LOW FOR 5 MINUTES & 2500 PSI FOR 10 MINUTE HIGH TEST / TEST CASING FOR 30 MINUTES @ 1500 PSI
	17:00 - 18:00	1.00	PRPSPD	15	A	P		TEST MI SWACO PRESSURE CONTROL EQUIPMENT
	18:00 - 18:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	18:30 - 20:30	2.00	PRPSPD	06	A	P		PICK UP DIRECTIONAL BHA WITH WEATHERFORD , SCRIBE,ORIENTATE & TEST SAME
	20:30 - 23:30	3.00	PRPSPD	06	A	P		CONTINUE TO TRIP IN HOLE F/ 104' TO 2,632'
	23:30 - 0:00	0.50	PRPSPD	07	A	P		SERVICE RIG @ 2,632'
3/9/2013	0:00 - 2:00	2.00	PRPSPD	07	B	P		PRE SPUD CHECK,LEVEL DERRICK & INSTALL ROTATING HEAD
	2:00 - 3:00	1.00	DRLPRC	02	E	P		DRILL CEMENT & SHOE TRACK FROM 2,778' TO 2,901' CLEAN OUT RAT HOLE TO 2,932'

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 6:00	3.00	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 2,932' TO 3,293' = 361'=120.33 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 1975/ 1625 TORQUE ON/OFF BTM 7,000/ 4,000 PICK UP WT 90,000 SLACK OFF WT 88,000 ROT WT 94,000 SLIDE 23' IN 20 MIN 13.29% OF FOOTAGE DRILLED, 19.05 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.6 VIS 27 NOV-D WATER SWACO OFF LINE
	6:00 - 15:30	9.50	DRLPRC	02	B	P		DRILL /SLIDE / SURVEY/ F/ 3,293' TO 4,807' = 1514'=159.36 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93/79 PUMPS 130 SPM= 585/495GPM PUMP PRESSURE ON/OFF BTM 2100/ 1725 TORQUE ON/OFF BTM 9,000/ 5,000 PICK UP WT 148,000 SLACK OFF WT 108,000 ROT WT 122,000 SLIDE 238' IN 130 MIN 12.71% OF FOOTAGE DRILLED, 16.99 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
	15:30 - 16:00	0.50	DRLPRC	07	A	P		SERVICE RIG @ 4,807'

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 0:00	8.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 4,807' TO 5,900' = 1093'= 136.62 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2250/ 1950 TORQUE ON/OFF BTM 12,000/ 8,000 PICK UP WT 173,000 SLACK OFF WT 108,000 ROT WT 135,000 SLIDE 30' IN 50 MIN 2.71% OF FOOTAGE DRILLED, 10.53 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
3/10/2013	0:00 - 6:00	5.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 5,900' TO 6,520' = 620'= 124 FPH WOB 18,000-23,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2250/ 1950 TORQUE ON/OFF BTM 12,000/ 8,000 PICK UP WT 173,000 SLACK OFF WT 108,000 ROT WT 135,000 NO SLIDES NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE NOTE: MOVE CLOCKS FORWARD 1 HR DUE TO DAY LIGHT SAVINGS TIME

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 12:00	6.00	DRLPRV	02	A	P		DRILL /SLIDE / SURVEY/ F/ 6,520' TO 7,167' = 647' = 107.83 FPH WOB 22,000-26,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2170/2080 TORQUE ON/OFF BTM 12,000/ 8,000 PICK UP WT 195,000 SLACK OFF WT 118,000 ROT WT 147,000 SLIDE 20' IN 30 MIN 3.09% OF FOOTAGE DRILLED, 8.00 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.6 VIS 27 NOV-D WATER SWACO OFF LINE
	12:00 - 12:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 7,167'
	12:30 - 19:00	6.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,167' TO 7,654' = 487' = 74.92 FPH WOB 22,000-26,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2300/ 2100 TORQUE ON/OFF BTM 12,000/ 9,000 PICK UP WT 215,000 SLACK OFF WT 126,000 ROT WT 166,000 SLIDE 30' IN 50 MIN 2.71% OF FOOTAGE DRILLED, 10.53 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE NOTE: GAINED 600 PSI -PLUGGED JETS - MUD MOTOR SPIKING
	19:00 - 0:00	5.00	DRLPRV	06	H	Z		TRIP OUT OF HOLE FROM / 7,654' TO 104' WORK TIGHT HOLE @ 5,025' *** MUD MOTOR FAILURE ***
3/11/2013	0:00 - 1:30	1.50	DRLPRV	06	H	Z		CONTINUE TO TRIP OUT OF HOLE L/D HUNTING MUD MOTOR & INSPECT BIT # 1 2 JETS PLUGGED WITH STATOR RUBBER *** MUD MOTOR FAILURE ***
	1:30 - 3:00	1.50	DRLPRV	06	H	Z		PICK UP NEW HUNTING MUD MOTOR MAKE UP,SCRIBE & SURFACE TEST SAME RE-RUN BIT # 1 NO DULL CHARACTERISTICS *** MUD MOTOR FAILURE ***

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	3:00 - 8:30	5.50	DRLPRV	06	H	Z		TRIP IN HOLE WITH BHA # 2 & RE-RUN BIT # 1 WASH THRU BRDGE @ 5,025' CONTINUE TRIP IN HOLE WASH LAST 3 STDS TO BOTTOM FOR SAFETY 10' FILL *** MUD MOTOR FAILURE ***
	8:30 - 10:00	1.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,654' TO 7,732' = 78' = 52 FPH WOB 22,000-26,000 TOP DRIVE RPM 60-75 MUD MOTOR RPM 93 PUMPS 130 SPM= 585 GPM PUMP PRESSURE ON/OFF BTM 2485/ 2220 TORQUE ON/OFF BTM 15,000/ 12,000 PICK UP WT 235,000 SLACK OFF WT 126,000 ROT WT 166,000 SLIDE 20' IN 35 MIN 25.32% OF FOOTAGE DRILLED, 43.75 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
	10:00 - 10:30	0.50	DRLPRV	07	A	P		SERVICE RIG @ 7,732'
	10:30 - 16:30	6.00	DRLPRV	08	B	Z		TROUBLE SHOOT ELECTRICAL ON DRAW WORKS - CHANGE OUT MOTOR ENCODER & GPX CARD TO DRAW WORKS *** DRAW WORKS FAILURE ***
	16:30 - 0:00	7.50	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 7,732' TO 8,121' = 389' =51.86 FPH WOB 23,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 110 SPM= 495 GPM PUMP PRESSURE ON/OFF BTM 1850/1625 TORQUE ON/OFF BTM 15,000/ 12,000 PICK UP WT 243,000 SLACK OFF WT 126,000 ROT WT 175,000 SLIDE 53' IN 160 MIN 13.66% OF FOOTAGE DRILLED, 36.36 %OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/12/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P		DRILL /SLIDE / SURVEY/ F/ 8,121' TO 8,535' = 414' = 69 FPH WOB 26,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 110 SPM= 495 GPM PUMP PRESSURE ON/OFF BTM 2000/1725 TORQUE ON/OFF BTM 16,000/ 12,000 PICK UP WT 253,000 SLACK OFF WT 132,000 ROT WT 181000 SLIDE 10' IN 45 MIN 2.72% OF FOOTAGE DRILLED, 15%OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE
	6:00 - 15:30	9.50	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 8,535' TO 9,529' =994' =104.63 FPH WOB 26,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 110 SPM= 495 GPM PUMP PRESSURE ON/OFF BTM 2000/1725 TORQUE ON/OFF BTM 16,000/ 12,000 PICK UP WT 253,000 SLACK OFF WT 132,000 ROT WT 181000 NO SLIDES NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 27 NOV-D WATER SWACO OFF LINE 5-15' FLARE
	15:30 - 16:00	0.50	DRLPRV	07	A	P		SERVICE RIG @ 9,529'

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	16:00 - 0:00	8.00	DRLPRV	02	B	P		DRILL / SURVEY/ F/ 9,529' TO 9,970' =441' = 55.13 FPH WOB 26,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 110 SPM= 495 GPM PUMP PRESSURE ON/OFF BTM 2000/1825 TORQUE ON/OFF BTM 17,000/ 13,000 PICK UP WT 280,000 SLACK OFF WT 149,000 ROT WT 204,000 SLIDE 8' IN 40 MIN 1.5% OF FOOTAGE DRILLED, 8%OF HRS DRILLED NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 28 NOV-D WATER SWACO OFF LINE 5-15' FLARE
3/13/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P	9970	DRILL / SURVEY/ F/ 9,970' TO 10,285' =315' = 52.5 FPH WOB 26,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 110 SPM= 495 GPM PUMP PRESSURE ON/OFF BTM 2000/1825 TORQUE ON/OFF BTM 17,000/ 13,000 PICK UP WT 280,000 SLACK OFF WT 149,000 ROT WT 204,000 NO SLIDES NO FLUID LOST PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER MUD WT 8.5 VIS 28 NOV-D WATER SWACO OFF LINE 5-15' FLARE

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	6:00 - 18:00	12.00	DRLPRV	02	B	P	10,285	DRILL / SURVEY/ F/ 10,285 TO 10,656' =371' = 30.9 FPH WOB 26,000-28,000 TOP DRIVE RPM 50/70 MUD MOTOR RPM 79 PUMPS 100 SPM= 450 GPM PUMP PRESSURE ON/OFF BTM 2,430/2,225 TORQUE ON/OFF BTM 14,000/ 11,000 PICK UP WT 285,000 SLACK OFF WT 160,000 ROT WT 211,000 NO SLIDES 50 BBLS FLUID LOSS PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER DISPLACE HOLE W/ MUD WT 10.6 VIS 38 NOV-D PART TIMECONVENTIONAL SWACO OFF LINE NO FLARE
	18:00 - 18:30	0.50	DRLPRV	07	A	P		DAILY RIG SERVICE
	18:30 - 0:00	5.50	DRLPRV	02	B	P	10,658	DRILL / SURVEY/ F/ 10,656 TO 10,768' =112' = 20.3 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 2,4350/2,335 TORQUE ON/OFF BTM 17,000/ 16,000 PICK UP WT 285,000 SLACK OFF WT 160,000 ROT WT 211,000 NO SLIDES 25 BBLS FLUID LOSS PUMPING 5-10 BBL SWEEPS EVERY STAND,W/ 3-4% CAL CARB & ANCO FIBER DISPLACE HOLE W/ MUD WT 11.0 VIS NOV-OFF LINE SWACO OFF LINE NO FLARE

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
3/14/2013	0:00 - 6:00	6.00	DRLPRV	02	B	P	10,768	DRILL / SURVEY/ F/ 10,768 TO 10,885' =117' = 19.5 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 2,450/2,335 TORQUE ON/OFF BTM 17,000/ 16,000 PICK UP WT 285,000 SLACK OFF WT 160,000 ROT WT 211,000 NO SLIDES NO FLUID LOSS MUD WT 11.0 VIS VIS 40 NOV-OFF LINE SWACO OFF LINE NO FLARE
	6:00 - 7:30	1.50	DRLPRV	02	B	P	10,885	DRILL / SURVEY/ F/ 10,885 TO 10911' =26 = 17.3 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 2,450/2,335 TORQUE ON/OFF BTM 17,000/ 16,000 PICK UP WT 285,000 SLACK OFF WT 160,000 ROT WT 211,000 NO SLIDES NO FLUID LOSS MUD WT 11.0 VIS VIS 40 NOV-OFF LINE SWACO OFF LINE NO FLARE
	7:30 - 8:00	0.50	DRLPRV	07	C	Z		***CHANGE SWAB #1 PUMP, VALVE #2 PUMP***
	8:00 - 13:00	5.00	DRLPRV	02	B	P	10,885	DRILL / SURVEY/ F/ 10,885 TO 11,041 =156 = 31.2 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 2,900/2,750 TORQUE ON/OFF BTM 18,000/ 14,000 PICK UP WT 250,000 SLACK OFF WT 160,000 ROT WT 205,000 NO SLIDES NO FLUID LOSS MUD WT 11.0 VIS VIS 40 NOV-OFF LINE SWACO OFF LINE NO FLARE
	13:00 - 13:30	0.50	DRLPRV	08	A	P		RIG SERVICE

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	13:30 - 20:30	7.00	DRLPRV	02	B	P	11,041	DRILL / SURVEY/ F/ 11,041 TO 11,230' =189 = 27 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 3,020/2,870 TORQUE ON/OFF BTM 17,000/ 16,000 PICK UP WT 295,000 SLACK OFF WT 160,000 ROT WT 209,000 NO SLIDES NO FLUID LOSS MUD WT 11.2 VIS VIS 41 NOV-OFF LINE SWACO OFF LINE NO FLARE
	20:30 - 22:00	1.50	DRLPRV	08	C	Z		***CHANGE OUT PISTON #1PUMP, CHANGE OUT PISTON & LINER #2 pump ***
	22:00 - 0:00	2.00	DRLPRV	02	B	P	11,230	DRILL / SURVEY/ F/ 11,230 TO 11,278' TD =48 = 24 FPH WOB 26,000-29,000 TOP DRIVE RPM 50/75 MUD MOTOR RPM 72-79 PUMPS 100-110 SPM= 450-495 GPM PUMP PRESSURE ON/OFF BTM 3,020/2,870 TORQUE ON/OFF BTM 17,000/ 16,000 PICK UP WT 295,000 SLACK OFF WT 160,000 ROT WT 209,000 NO SLIDES NO FLUID LOSS MUD WT 11.4 VIS VIS 43 NOV-OFF LINE SWACO OFF LINE NO FLARE
3/15/2013	0:00 - 1:30	1.50	DRLPRV	05	C	P		CCH F/ WIPER TRIP, MUD WT TO 11.4
	1:30 - 13:30	12.00	DRLPRV	06	E	P		WIPER TRIP BACK REAM OUT 20 STANDS TO 9,400', START BACK IN HOLE HAD TO REAM BACK DOWN, DECISION WAS MADE TO PULL OUT OF HOLE, BACK REAM OUT TO 8,300', STRAIGHT PULL @ 250,000, PULL 4 STDS TO 7,900 PUMP SLUG TOH, WORK THRU TIGHT SPOTS @ 4,900, 4895, TOH, FLOW CHECK @CSG SHOE, PULL TO BHA, REMOVE ROTATING HEAD, LAY DOWN DIRECTIONAL; TOOLS, BREAK BIT & L/D MUD MOTOR, / FUNCTION TEST BOPS CLEAN RIG FLOOR
	13:30 - 23:30	10.00	DRLPRV	06	B	P		PICK UP THRU BIT LOGGING BHA ,X/O, FLOAT SUB, BIT SUB, PORTAL BIT, 6 STANDS HWDP, TRIP IN HOLE, BREAK CIRC @ CSG SHOE, CIH WASH THRU BRIDGES @ 5,634-5,644 / 6,070-6,110 / 6,185-6,200 / 7,338-7,371/ 9,878-9,887 / 9,960-9,977, CIH 11,205-WASH 73' TO BTM 8' FILL

Operation Summary Report

Well: NBU 921-22F1CS BLUE

Spud Date: 12/7/2012

Project: UTAH-UINTAH

Site: NBU 921-22C PAD

Rig Name No: PROPETRO 12/12, H&P 298/298

Event: DRILLING

Start Date: 11/8/2012

End Date: 3/17/2013

Active Datum: RKB @4,849.00usft (above Mean Sea Level)

UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	23:30 - 0:00	0.50	DRLPRV	05	C	P		CIRCULATE BTMS UP WHILE MONTORING SHAKERS & MUD WT 11.4+ 42 VIS / TD RPM 30 / SPM 105,/ SPP 1,965 / TQ 14,000 / PU / SO / ROT WT 305,000 / 145,000 / 203,000
3/16/2013	0:00 - 0:30	0.50	EVALPR	05	C	P		CIRCULATE BTMS UP WHILE MONTORING SHAKERS & MUD WT 11.4+ 42 VIS / TD RPM 30 / SPM 105,/ SPP 1,965 / TQ 14,000 / PU / SO / ROT WT 305,000 / 145,000 / 203,000
	0:30 - 1:00	0.50	EVALPR	07	A	P		DAILY RIG SERVICE
	1:00 - 1:30	0.50	EVALPR	08	B	Z		***RIG REPAIR REPLACE WASHED OUT O-RING IN MUD LINE ***
	1:30 - 2:30	1.00	EVALPR	05	C	P		CIRC BTMS UP,PUMP OUT & SET BACK 1 STAND DP & LD 1 JT DP
	2:30 - 5:00	2.50	EVALPR	11	G	P		RIG UP THRU BIT LOGGERS INSTALL PUMP IN SUB & LUBRICATOR/ RIH W/ WIRE LINE & LOGGING TOOLS (TRIPLE COMBO) DOWN DRILL PIPE
	5:00 - 6:00	1.00	EVALPR	11	G	P		SET TOOL IN LANDING COLLAR / TEST LOGGING TOOLS /BTM OF LOG TOOL @ 11,238 UNLATCH WIRE LINE FROM TOOL /POOH WITH WIRELINE/RIG DOWN LUBRICATOR & PUMP IN SUB
	6:00 - 18:30	12.50	EVALPR	11	G	P		POOH @ 30-40' MIN FT / LOGGING FROM 11,235 TO SURFACE /WITH TRIPLE COMBO R/D THRU BIT LOGGING TOOLS
	18:30 - 19:30	1.00	CSGPRO	12	A	P		PULL WEAR BUSHING / X/O DRILLING BAILS TO CASING BAILS
	20:00 - 22:00	2.00	CSGPRO	12	A	P		CT JSA W/ FRANKS & RIG CREW,RIG UP CASING EQUIPMENT
	22:00 - 0:00	2.00	CSGPRO	12	C	P		MAKE UP FLOAT EQUIP,RUN 41/2 ,11.6#,LTC CASING
3/17/2013	0:00 - 10:00	10.00	CSGPRO	12	C	P		RUN 138 JTS OF 41/2,11.6#,LTC CASING (6,159 1 CROSS OVER / TORQUE TURN DQX, RUN 115 JTS/ P-110 11.6# DQX 4.5 CASING + RELATED TOOLS / BREAKING CIRCULATION @ SELECTED INTERVALS / LANDING CASING MANDREL IN BOWL W/ 105,000,@11,259 FOR CIRC & CEMENTING / SHOE @ 11,059 / FC @ 11,214 / BH MKR @ 10,680 MV MKR @ 7,968
	10:00 - 11:30	1.50	CSGPRO	05	D	P		CIRC CASING, HSM ,R/D FRANKS, HSM RIG UP BJ CEMENTERS

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: PROPETRO 12/12, H&P 298/298
Event: DRILLING		Start Date: 11/8/2012	End Date: 3/17/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	11:30 - 15:00	3.50	CSGPRO	12	E	P		INSTALL CEMENT HEAD TEST PUMP & LINES TO 4,850 PSI, ,DROP BOTTOM PLUG PUMP 25 BBLS FW PUMP 665 SKS LEAD CEMENT @ 12.0 PPG,(267.7 BBLS) (PREM LITE II + .0.25 pps CELLO FLAKE + .5 pps KOL SEAL + .05 lb/sx STATIC FREE + 6% bwoc BENTONITE + .2% bwoc SODIUM META SILICATE + 0.2 % R-3 +0.4%bwoc FL-52 .6% FRESH WATER / (12.48 gal/sx, 2.26 yield) + 1350 SX TAIL @ 14.3 ppg(317 BBLS)+ (CLS G 50/50 POZ + 10% SALT + .005lbs/sx STATIC FREE + .2% R3 + .002 GPS FP-6L + 2% BENTONITE +0.5%EC-1+ 58.9% FW / (5.95 gal/sx, 1.32 yield) WASH PUMP & LINES DROP TOP PLUG & DISPLACE W/ 174.3 BBLS H2O + ADDITIVES / PLUG DOWN @14:40 HOURS / FLOATS HELD W/ 2 BBLS H2O RETURNED TO INVENTORY/ / LIFT PRESSURE @ 3,300 PSI BUMP PRESSURE @3,800 / LOST REURNS ILAST 5 BBLS IN DISPLACEMENT W/45 BBLS LEAD CMT TO PIT /TOP OF TAIL CEMENT CALCULATED @ 4,800
	15:00 - 16:00	1.00	CSGPRO	12	B	P		RIG DOWN BJ CEMENT EQUIP
	16:00 - 17:00	1.00	CSGPRO	14	B	P		SET PACK OFF / LD LANDING JT
	17:00 - 18:00	1.00	CSGPRO	12	A	P		CHANGE OUT CASING BAILS
	18:00 - 20:00	2.00	RDMO	14	A	P		NIPPLE DOWN BOP,PREP RIG FOR SKID, RELEASE RIG TO NBU 921-22F1BS @ 20:00 HRS 03/17/2013

US ROCKIES REGION

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-22F1CS BLUE	Wellbore No.	OH
Well Name	NBU 921-22F1CS	Wellbore Name	NBU 921-22F1CS
Report No.	1	Report Date	5/20/2013
Project	UTAH-UJINTAH	Site	NBU 921-22CPAD
Rig Name/No.		Event	COMPLETION
Start Date	4/23/2013	End Date	6/13/2013
Spud Date	12/7/2012	Active Datum	RKB @4,849.00usft (above Mean Sea Level)
UWI	NE/NW/09/S/21/E/22/0/0/26/PMN/707W/0/1984/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

Fluid Type	Fluid Density	Gross Interval	8,020.0 (usft)-11,096.0 (usft)	Start Date/Time	5/20/2013 12:00AM
Surface Press	Estimate Res Press	No. of Intervals	47	End Date/Time	5/20/2013 12:00AM
TVD Fluid Top	Fluid Head	Total Shots	210	Net Perforation Interval	66.00 (usft)
Hydrostatic Press	Press Difference	Avg Shot Density	3.18 (shot/ft)	Final Surface Pressure	
Balance Cond	NEUTRAL			Final Press Date	

1.5 Summary

Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ff)	Misfires/Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
MESAVERDE/			8,020.0	8,022.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2 Intervals

2.1 Perforated Interval

Date	5/20/2013 12:00AM
------	-------------------

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/20/2013 12:00AM	MESAVERDE/			8,033.0	8,035.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,041.0	8,043.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,210.0	8,212.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,317.0	8,318.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,361.0	8,362.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,366.0	8,367.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,413.0	8,414.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,426.0	8,427.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,434.0	8,435.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,625.0	8,627.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,675.0	8,677.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,812.0	8,813.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,823.0	8,824.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,895.0	8,897.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			8,903.0	8,905.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,012.0	9,014.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,057.0	9,059.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,196.0	9,197.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,214.0	9,215.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,316.0	9,317.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,334.0	9,335.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

RECEIVED: Aug. 20, 2013

US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
5/20/2013 12:00AM	MESAVERDE/			9,342.0	9,343.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,352.0	9,353.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,386.0	9,387.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,402.0	9,403.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,421.0	9,422.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,436.0	9,437.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,453.0	9,454.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,487.0	9,488.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,557.0	9,559.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,588.0	9,589.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,599.0	9,600.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,606.0	9,607.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,669.0	9,670.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,750.0	9,751.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,773.0	9,774.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,820.0	9,821.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			9,853.0	9,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			10,778.0	10,780.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			10,802.0	10,804.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			10,842.0	10,844.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
5/20/2013 12:00AM	MESAVERDE/			10,870.0	10,872.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

RECEIVED: Aug. 20, 2013

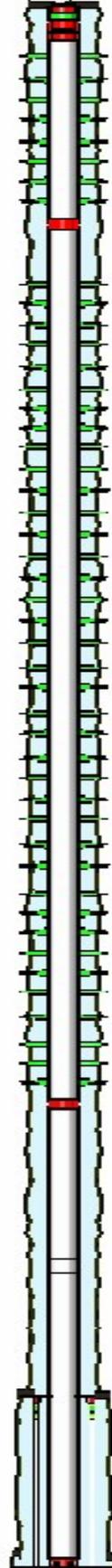
US ROCKIES REGION

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misruin
5/20/2013 12:00AM	MESAVERDE/			10,938.0	10,940.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
5/20/2013 12:00AM	MESAVERDE/			10,964.0	10,966.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
5/20/2013 12:00AM	MESAVERDE/			11,004.0	11,006.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N
5/20/2013 12:00AM	MESAVERDE/			11,094.0	11,096.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: GWS 1/1, GWS 1/1
Event: COMPLETION		Start Date: 4/23/2013	End Date: 6/13/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
4/23/2013	-							
5/6/2013	9:00 - 13:00	4.00	SUBSPR	33	C	P		REMOVED TREE SET FRAC VALVES , SURFACE HAD 80 PSI BLED WELL DOWN FILLED SURFACE & CSG TO TEST IN AM
5/7/2013	8:00 - 10:30	2.50	SUBSPR	33	C	P		MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 9000 PSI. HELD FOR 15 MIN LOST 116 PSI. NO COMMUNICATION, BUT SLIGHT MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 503 PSI HELD FOR 5 MIN LOST -55 PSI,BLED PSI OFF , REINSTALLED POP OFF SWIFN NOTE SURFACE HAD 80 PSI ON WELL
5/17/2013	-							
	6:45 - 7:00	0.25	FRAC	48		P		HSM. STAY AWAY F/ WL WHILE BAILING CMT W/ WIRE LINE.
	7:00 - 15:00	8.00	FRAC	34	1	P		MIRU CUTTERS WL. PU WL STROKE BAILER. RIH TAG CMT @ 11,030'. C/O T/ 11,132' = 102' OF GREEN CMT. POOH. SWI. READY FOR FRAC. RDMO CUTTERS WL.
5/20/2013	8:00 - 18:00	10.00	FRAC	36	B	P		PERF STG 1 FRAC STG 2)WHP 280 PSI, BRK 5011 PSI @ 4.9 BPM. ISIP 3178 PSI, FG. 0.73 ISIP 4041 PSI, FG. 0.81, NPI 863 PSI. SWI, XO T/ WL. (PUMPED 77% OF DESIGN. STEM PACKING ON TOP FRAC VALVE STARTED LEAKING.) PERF STG 2 AS PER PROCEDURE. FRAC STG 2)WHP 1993 PSI, BRK 4566 PSI @ 4.9 BPM. ISIP 3809 PSI, FG. 0.79 ISIP 4076 PSI, FG. 0.82, NPI 267 PSI. SWI, XO T/ WL. PERF STG 3 AS PER DESIGN.

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: GWS 1/1, GWS 1/1
Event: COMPLETION		Start Date: 4/23/2013	End Date: 6/13/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
5/21/2013	10:00 - 18:00	8.00	FRAC	36	B	P		<p>FRAC STG 3)WHP 2314 PSI, BRK 4693 PSI @ 4.8 BPM. ISIP 3108 PSI, FG. 0.76 ISIP 3281 PSI, FG. 0.78, NPI 173 PSI. SWI, XO T/ WL.</p> <p>SET CBP & PERF STG 4 AS PER DESIGN.</p> <p>FRAC STG 4)WHP 1066 PSI, BRK 3197 PSI @ 4.7 BPM. ISIP 2237 PSI, FG. 0.67 ISIP 3049 PSI, FG. 0.76, NPI 812 PSI. SWI, XO T/ WL.</p> <p>SET CBP & PERF STG 5 AS PER DESIGN.</p> <p>FRAC STG 5)WHP 1787 PSI, BRK 3213 PSI @ 5.3 BPM. ISIP 2533 PSI, FG. 0.71 ISIP 3138 PSI, FG. 0.78, NPI 605 PSI. SWI, XO T/ WL.</p>
5/21/2013	7:15 - 18:00	10.75	FRAC	36	B	P		<p>SET CBP & PERF STG 6 AS PER DESIGN. SWIFN.</p> <p>FRAC STG 6)WHP 1857 PSI, BRK 3166 PSI @ 5.1 BPM. ISIP 2502 PSI, FG. 0.72 ISIP 3197 PSI, FG. 0.79, NPI 695 PSI. SWI, XO T/ WL.</p> <p>SET CBP & PERF STG 7 AS PER DESIGN.</p> <p>FRAC STG 7)WHP 1398 PSI, BRK 2958 PSI @ 5 BPM. ISIP 2191 PSI, FG. 0.69 ISIP 3240 PSI, FG. 0.81, NPI 1049 PSI. SWI, XO T/ WL.</p> <p>SET CBP & PERF STG 8 AS PER DESIGN.</p> <p>FRAC STG 8)WHP 1275 PSI, BRK 3359 PSI @ 4.9 BPM. ISIP 2087 PSI, FG. 0.69 ISIP 2947 PSI, FG. 0.79, NPI 860 PSI. SWI, XO T/ WL.</p> <p>SET CBP & PERF STG 9 AS PER DESIGN.</p> <p>FRAC STG 9)WHP 912 PSI, BRK 2460 PSI @ 5.1 BPM. ISIP 1756 PSI, FG. 0.66 ISIP 2740 PSI, FG. 0.78, NPI 984 PSI. SWI, XO T/ WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7970'. POOH. SWI. READY FOR DRL OUT.</p> <p>TOTAL SAND = 265,572 LBS TOTAL CLFL = 12,260 BBLS</p>
6/12/2013	7:00 - 7:15	0.25	DRLOUT	48		P		JSA=PINCH POINTS

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: GWS 1/1, GWS 1/1
Event: COMPLETION		Start Date: 4/23/2013	End Date: 6/13/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 17:00	9.75	DRLOUT	30		P		SPOT IN TUBING TALLY & PU TUBING RIH TAG 1ST CBP @ 7970' EST CIRC TEST BOPS TO 3000# DRILL CBP PLUG #1] DRILL THRU HALLI 8K CBP @ 7970' IN 15MIN W/ 600# KICK 50# ON CSG PLUG #2] CONTINUE TO RIH TAG SAND @ 8212' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8242' IN 9 MIN W/ 0 INCREASE 200# ON CSG PLUG #3] CONTINUE TO RIH TAG SAND @ 8445' (20' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8465' IN 11 MIN W/ 300 PSI INCREASE 250 ON CSG PLUG #4] CONTINUE TO RIH TAG SAND @ 8839' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 8854' IN 7 MIN W/ 700# KICK, 400 # ON CSG CONTINUE TO ALLOW WELL TO FLOW TO C/O SIW SDFN EOT @ 8860'
6/13/2013	7:00 - 7:15	0.25	DRLOUT	48		P		JSA= PRESS CONTROL

Operation Summary Report

Well: NBU 921-22F1CS BLUE		Spud Date: 12/7/2012	
Project: UTAH-UINTAH		Site: NBU 921-22C PAD	Rig Name No: GWS 1/1, GWS 1/1
Event: COMPLETION		Start Date: 4/23/2013	End Date: 6/13/2013
Active Datum: RKB @4,849.00usft (above Mean Sea Level)		UWI: NE/NW/0/9/S/21/E/22/0/0/26/PM/N/707/W/0/1984/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
	7:15 - 15:00	7.75	DRLOUT	30		P		SIWP= 2700 PSI OPEN WELL TO PIT RIH TAG SAND ON PLG #5 PLUG #5] TAG SAND @ 9059' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9089' IN 7 MIN W/ 900 PSI INCREASE 250 ON CSG PLUG #6] CONTINUE TO RIH TAG SAND @ 9353' (15' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9368' IN 9 MIN W/ 600 PSI INCREASE, 350 ON CSG PLUG #7] CONTINUE TO RIH TAG SAND @ 9538' (35' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9573' IN 6 MIN W/ 600 PSI INCREASE, 400 ON CSG PLUG #8]CONTINUE TO RIH TAG SAND @ 9854' (30' FILL) C/O & DRILL THRU HALLI 8K CBP @ 9884' IN 8 MIN W/ 350 PSI INCREASE, 600 ON CSG PLUG #9] CONTINUE TO RIH TAG SAND @ 11184' (30' FILL) C/O TO PBTD @ 11214' CIRC CLEAN POOH LD 15 JNTS LAND TUBING ON HNGR W/ 339 JNTS EOT @ 10739.40' RD DRILLING EQUIP RD FLOOR & TUBING EQUIP ND BOPS NU WELLHEAD DROP BALL PUMP OFF BIT @ 800 PSI NU & TEST FLOWLINE TURN WELL OVER TO FBC UNABLE TO RD DUE TO HIGH WINDS SDFN TUBING DETAIL K.B.....26.00' HANGER.....83" 189 JNTS 2-3/8 L-80.....6003.89' 6' X 2-3/8" L-80 PUP.....6.13' 150 JNTS 2-3/8" J-55.....4700.35' POBS2.20' EOT.....10739.40' TOTAL FLUID PMPED= 12259 BBLS RIG REC= 3000 BBLS LEFT TO REC= 9259 BBLS WELL TURNED TO SALES @ 1500 HR ON 6/13/2013. 914 MCFD, 1560 BWPD, FCP 2947#, FTP 1501#, 20/64" CK.
	15:00 - 15:00	0.00	DRLOUT	50				

Plan Data for NBU 921-22F1CS

Site: NBU 921-22C Pad
 Unit: USFeet TVD Reference: 4823' GL + 26' RKB
 Company Name: Andarko Petroleum
 Position: Northing: 14539193.12USft Latitude: 40.02690505°
 Easting: 2049271.64USft Longitude: -109.539564°
 North Reference: True Grid Convergence: 0.94°
 Elevation Above VRD: 4823.00USft
Slot: NBU 921-22F1CS
 Position: Offset is from Site centre
 +N/-S: 5.46USft Northing: 14539198.72USft Latitude: 40.02692000°
 +E/-W: 8.40USft Easting: 2049279.95USft Longitude: -109.539595°
 Elevation Above VRD: 4823.00USft

Casing Point Information:

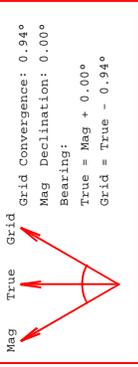
Name	MD (USft)	TVD (USft)
8 5/8 in	2902.82	2818.88

Formation Point Information:

Name	TVD Elevation (USft)	MD (USft)
GREEN RIVER	1542.00	3307.00
BIRDS NEST	1872.00	2977.00
MAHOGANI MARKER	2381.00	2466.00
WASATCH	4912.00	-63.00
MESAVERDE	7846.00	-2997.00
SEGO	10070.00	-5221.00
CASTLEGATE	10116.00	-5267.00
BLACKHAWK	10520.00	-5671.00



Weatherford

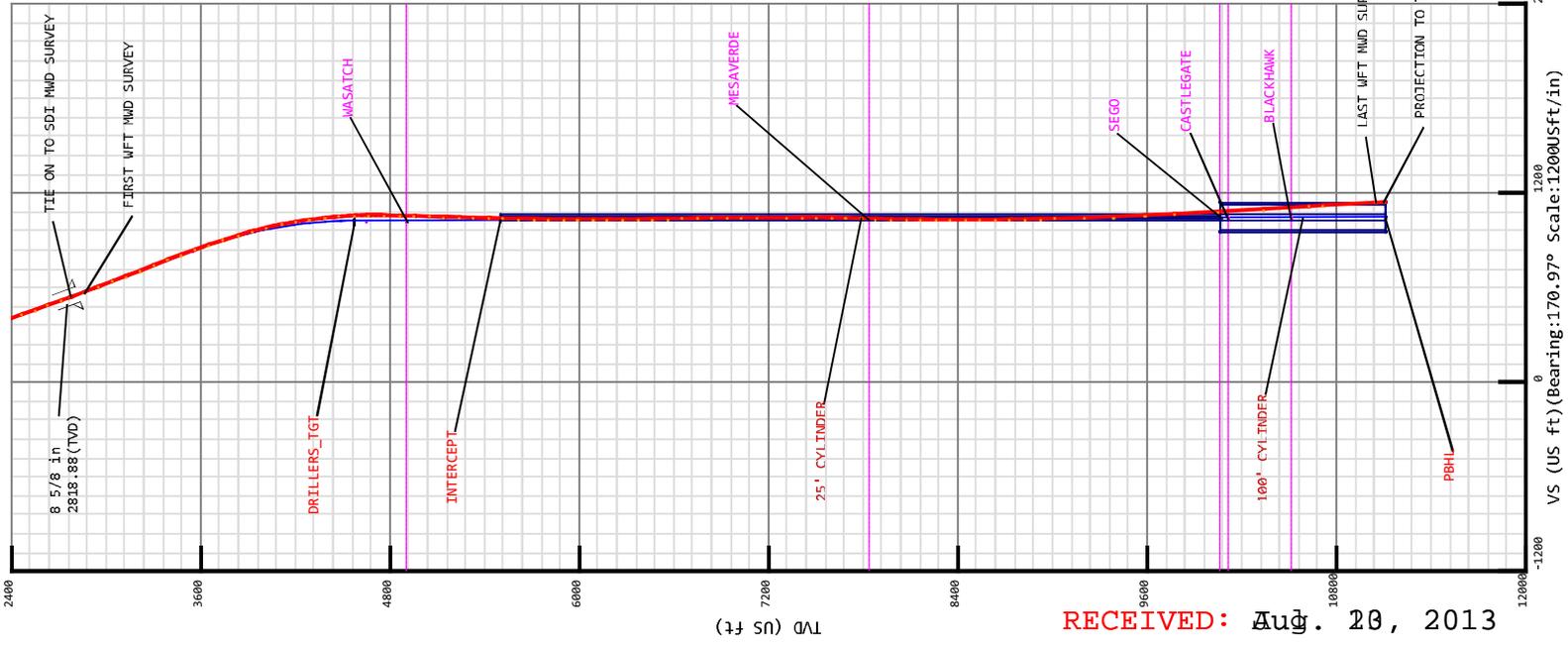
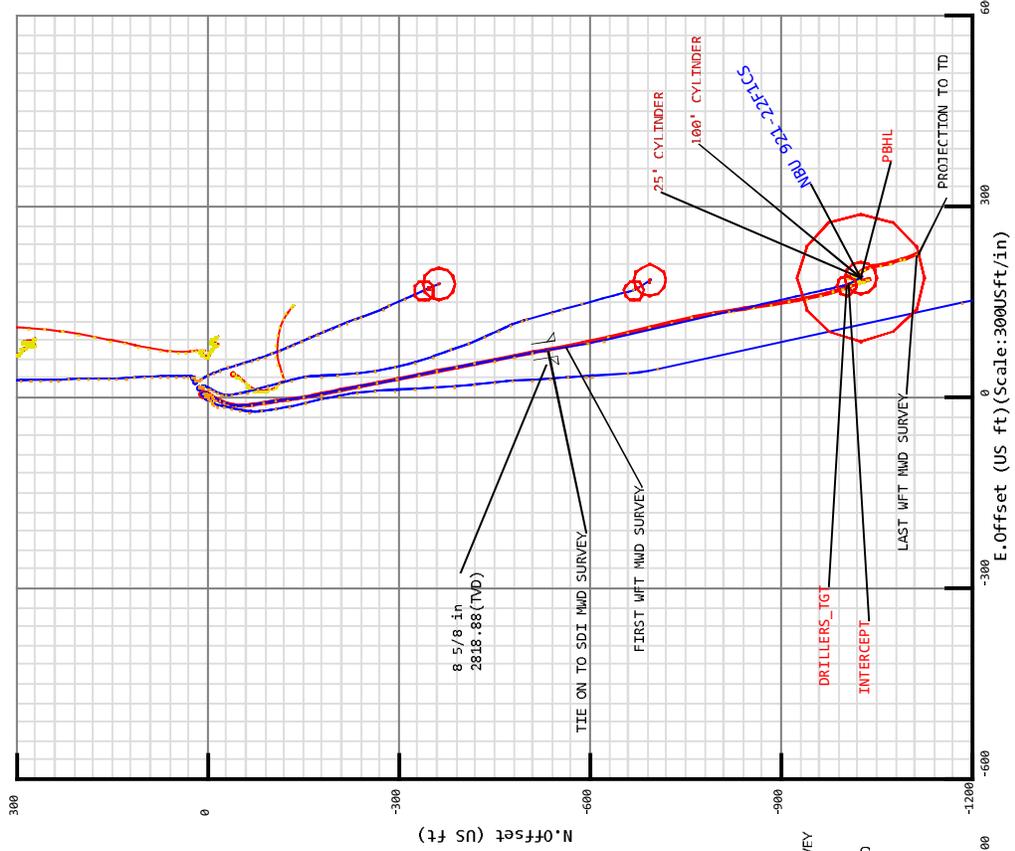


Target Set Information: Name: 2

Name	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Lat (°)	Long (°)	Shape
100' CYLINDER	10595.00	-1035.80	164.65	40.024076	-109.538944	Cylinder
25' CYLINDER	7791.00	-1035.80	164.65	40.024076	-109.538944	Cylinder
PBHL	11120.00	-1035.80	164.65	40.024076	-109.538944	Cuboid
DRILLERS_TGT	4580.00	-1012.00	152.00	40.024141	-109.538989	Cylinder
INTERCEPT	5512.00	-1015.27	153.74	40.024132	-109.538983	Cuboid

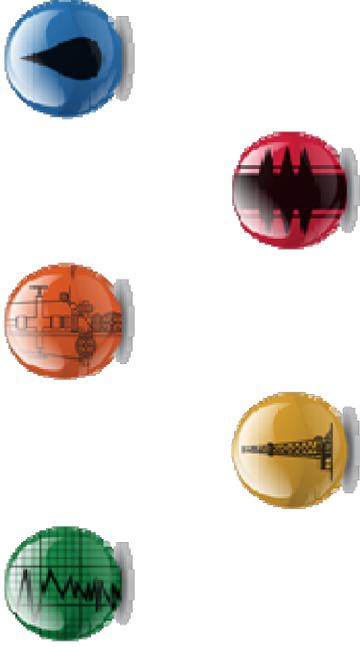
Plan Point Information: Dogleg Severity Unit: °/100.00ft

MD (USft)	Inc (°)	Az (°)	TVD (USft)	+N/-S (USft)	+E/-W (USft)	Vsec (USft)	DLS Toolface (°)
3052.82	20.31	171.75	2959.55	-604.98	66.81	607.97	0.00
3122.48	20.83	168.07	3024.77	-629.06	71.11	632.42	2.00
3696.43	20.83	168.07	3561.21	-828.77	113.29	836.28	0.00
4738.03	0.00	0.00	4580.00	-1012.00	152.00	1023.32	2.00
4817.20	0.24	152.00	4659.18	-1012.15	152.08	1023.47	0.30
11278.08	0.24	152.00	11120.00	-1035.80	164.65	1048.80	0.00



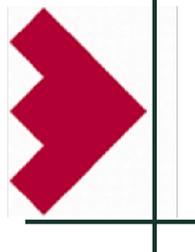


Weatherford[®]



END OF WELL REPORT

FINAL SURVEYS	SECTION 1
DAILY ACTIVITIES	SECTION 2
BHA REPORTS	SECTION 3
MOTOR REPORTS	SECTION 4
SLIDE SHEET REPORTS	SECTION 5
ADDITIONAL REPORTS	SECTION 6



FINAL SURVEYS

5D Survey Report

Andarko Petroleum

Field Name: *Greater Natural Buttes_Anadarko_NBU 921-22C Pad*
Site Name: *NBU 921-22C Pad*
Well Name: *NBU 921-22F1CS*
Survey: *Definitive Survey*



Weatherford[®]

5D Survey Report



Weatherford



Surveys for the NBU 921-22F1CS

Site Name NBU 921-22C Pad	Units : US ft	North Reference : True	Convergence Angle : 0.94
	Position	Northing : 14539193.12 US ft	Latitude : 40.026905
		Easting : 2049271.64 US ft	Longitude : -109.539562
	Site TVD Reference : 4823' GL + 26' RKB		
	Elevation above: 4823.00 US ft		
	Comment :		

Slot Name NBU 921-22F1CS	Position (Offsets relative to Site Centre)		
	+N / -S : 5.46 US ft	Northing : 14539198.72 US ft	Latitude : 40.026920
	+E / -W : 8.40 US ft	Easting : 2049279.95 US ft	Longitude : -109.539532
	Slot TVD Reference : Ground Elevation		
	Elevation above : 4823.00 US ft		
	Comment :		

Well Name NBU 921-22F1CS	Type : Main well	UWI :
	Rig Height Drill Floor : 26.00 US ft	Comment :
	Relative to : 4849.00 US ft	Closure Azimuth : 169.94°
	Closure Distance : 1142.28 US ft	+E / -W : 0.00 US ft
	Vertical Section (Position of Origin Relative to Slot)	Az : 170.97°
	+N / -S : 0.00 US ft	

Survey Name : Definitive Survey	Survey Tool :	Company :
Date : 13/Feb/2013	Comment :	
Magnetic Model		
Model Name: Default	Date: 13/Feb/2013	Field Strength: 50000.0 nT
		Declination: 0.00°
		Dip: 0.00°

Weatherford International Limited

5D 7.5.3 : 18 March 2013, 18:47:56 UTC

5D Survey Report

Survey Tool Ranges		End MD (us ft)		Source Survey	
Name	Start MD (us ft)	End MD (us ft)			
MWC	0.00	2867.00	2867.00		SDI MWC
MWC	2867.00	11278.00	11278.00		WFT MWD

Well path created using minimum curvature

Survey Points (Relative to centre, TVD relative to Drill Floor)											
MD (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	DLS (%/100 US ft)	CL (US ft)	VS (US ft)	Comment
0.00	0.00	0.00	0.00	0.00	0.00	40.026920	-109.539532	0.00	0.00	-0.00	
22.00	0.00	0.00	22.00	0.00	0.00	40.026920	-109.539532	0.00	22.00	-0.00	
26.00	0.00	0.00	26.00	0.00	0.00	40.026920	-109.539532	0.00	4.00	-0.00	
196.00	0.35	223.96	196.00	-0.37	-0.36	40.026919	-109.539533	0.21	170.00	0.31	
280.00	1.42	197.69	279.99	-1.55	-0.85	40.026916	-109.539535	1.33	84.00	1.40	
367.00	1.58	206.38	366.96	-3.65	-1.72	40.026910	-109.539538	0.32	87.00	3.34	
457.00	2.29	211.83	456.91	-6.29	-3.21	40.026903	-109.539543	0.81	90.00	5.71	
547.00	2.46	212.01	546.83	-9.46	-5.19	40.026894	-109.539551	0.19	90.00	8.53	
637.00	2.80	220.20	636.73	-12.77	-7.63	40.026885	-109.539559	0.56	90.00	11.42	
727.00	3.20	208.46	726.61	-16.66	-10.25	40.026874	-109.539569	0.81	90.00	14.85	
817.00	2.99	205.06	816.48	-21.00	-12.44	40.026862	-109.539576	0.31	90.00	18.78	
907.00	3.25	210.27	906.35	-25.33	-14.72	40.026850	-109.539585	0.43	90.00	22.70	
997.00	4.40	202.08	996.15	-30.73	-17.30	40.026836	-109.539594	1.41	90.00	27.63	
1087.00	6.33	195.22	1085.75	-38.72	-19.90	40.026814	-109.539603	2.26	90.00	35.11	
1177.00	7.47	185.03	1175.10	-49.33	-21.72	40.026785	-109.539610	1.85	90.00	45.31	
1267.00	8.89	179.20	1264.18	-62.11	-22.13	40.026749	-109.539611	1.83	90.00	57.87	
1357.00	9.94	172.37	1352.97	-76.77	-21.00	40.026709	-109.539607	1.70	90.00	72.52	
1447.00	11.26	171.23	1441.43	-93.15	-18.63	40.026664	-109.539599	1.48	90.00	89.07	
1537.00	12.74	172.78	1529.46	-111.68	-16.05	40.026613	-109.539589	1.68	90.00	107.78	
1627.00	15.04	174.39	1616.83	-133.15	-13.66	40.026554	-109.539581	2.59	90.00	129.36	
1717.00	16.88	170.79	1703.36	-157.67	-10.42	40.026487	-109.539569	2.32	90.00	154.08	
1807.00	18.73	169.56	1789.04	-184.78	-5.71	40.026413	-109.539552	2.10	90.00	181.60	
1897.00	19.96	169.29	1873.96	-214.09	-0.24	40.026332	-109.539533	1.37	90.00	211.40	
1987.00	19.61	170.44	1958.65	-244.08	5.12	40.026250	-109.539514	0.58	90.00	241.85	
2077.00	20.16	170.64	2043.28	-274.27	10.15	40.026167	-109.539496	0.52	90.00	272.47	
2167.00	21.25	169.47	2127.47	-305.61	15.66	40.026081	-109.539476	1.30	90.00	304.28	
2257.00	20.84	169.29	2211.46	-337.38	21.61	40.025994	-109.539455	0.46	90.00	336.59	
2347.00	19.64	169.66	2295.90	-367.99	27.30	40.025910	-109.539435	1.34	90.00	367.71	
2437.00	19.61	169.91	2380.68	-397.73	32.66	40.025828	-109.539415	0.30	90.00	397.93	
2527.00	19.79	170.52	2465.41	-427.63	37.82	40.025746	-109.539397	0.10	90.00	428.27	
2617.00	20.05	170.35	2550.02	-457.87	42.91	40.025663	-109.539379	0.30	90.00	458.93	
2707.00	19.96	168.68	2634.59	-488.14	48.52	40.025580	-109.539359	0.54	90.00	489.71	
2797.00	19.17	170.61	2719.40	-517.78	53.94	40.025498	-109.539339	1.13	90.00	519.83	

Weatherford International Limited

5D 7.5.3 : 18 March 2013, 18:47:56 UTC

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor)												
MC (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	Dis. (°/100 US ft)	CI (US ft)	V5 (US ft)	Comment	
2867.00	20.31	171.75	2785.28	-541.15	57.56	40.025434	-109.539326	1.72	70.00	543.47		TIE ON TO SDI MWD SURVEY
2950.00	20.28	169.31	2863.13	-569.54	62.30	40.025356	-109.539310	1.02	83.00	572.26		FIRST WFT MWD SURVEY
3045.00	21.53	168.01	2951.88	-602.77	68.97	40.025265	-109.539286	1.40	95.00	606.12		
3139.00	20.75	168.84	3039.55	-635.98	75.78	40.025174	-109.539261	0.89	94.00	639.99		
3233.00	20.88	168.29	3127.42	-668.72	82.40	40.025084	-109.539238	0.25	94.00	673.36		
3328.00	21.44	166.16	3216.01	-702.15	89.99	40.024992	-109.539211	1.00	95.00	707.58		
3422.00	21.81	167.66	3303.40	-735.89	97.83	40.024899	-109.539183	0.71	94.00	742.13		
3517.00	20.94	169.41	3391.86	-769.82	104.72	40.024806	-109.539158	1.14	95.00	776.72		
3611.00	20.50	170.79	3479.78	-802.58	110.44	40.024716	-109.539138	0.70	94.00	809.97		
3706.00	20.00	172.29	3568.91	-835.10	115.29	40.024627	-109.539120	0.76	95.00	842.84		
3800.00	17.94	172.16	3657.80	-865.37	119.42	40.024544	-109.539106	2.19	94.00	873.39		
3895.00	18.13	171.91	3748.13	-894.50	123.49	40.024464	-109.539091	0.22	95.00	902.80		
3989.00	17.31	171.91	3837.67	-922.83	127.52	40.024386	-109.539077	0.87	94.00	931.41		
4084.00	15.00	168.41	3928.92	-948.87	131.98	40.024315	-109.539061	2.64	95.00	957.82		
4178.00	13.28	168.28	4020.07	-971.36	136.62	40.024253	-109.539044	1.83	94.00	980.76		
4273.00	11.00	163.66	4112.94	-990.74	141.38	40.024200	-109.539027	2.61	95.00	1000.65		
4367.00	9.51	160.80	4205.43	-1006.68	146.46	40.024156	-109.539009	1.67	94.00	1017.19		
4461.00	7.56	157.54	4298.39	-1019.73	151.38	40.024120	-109.538991	2.14	94.00	1030.85		
4556.00	6.29	163.13	4392.70	-1030.49	155.28	40.024091	-109.538977	1.51	95.00	1042.00		
4650.00	4.69	163.66	4486.26	-1039.10	157.85	40.024067	-109.538968	1.70	94.00	1051.00		
4745.00	2.91	162.40	4581.05	-1045.13	159.67	40.024050	-109.538962	1.88	95.00	1057.24		
4839.00	0.63	199.66	4675.00	-1047.89	160.22	40.024043	-109.538960	2.59	94.00	1060.05		
4934.00	2.24	357.97	4769.98	-1046.53	159.98	40.024047	-109.538961	2.98	95.00	1058.67		
5028.00	1.81	345.04	4863.92	-1043.26	159.53	40.024056	-109.538962	0.56	94.00	1055.37		
5122.00	1.58	345.88	4957.88	-1040.57	158.83	40.024063	-109.538965	0.25	94.00	1052.60		
5217.00	1.38	342.04	5052.85	-1038.21	158.16	40.024069	-109.538967	0.23	95.00	1050.16		
5311.00	1.49	333.91	5146.82	-1036.03	157.27	40.024075	-109.538970	0.25	94.00	1047.88		
5406.00	1.50	353.91	5241.79	-1033.69	156.60	40.024082	-109.538973	0.55	95.00	1045.45		
5500.00	1.77	358.61	5335.75	-1031.01	156.43	40.024089	-109.538973	0.32	94.00	1042.75		
5595.00	1.38	355.79	5430.71	-1028.41	156.31	40.024096	-109.538974	0.42	95.00	1040.19		
5689.00	0.94	0.64	5524.69	-1026.51	156.24	40.024102	-109.538974	0.48	94.00	1038.30		
5784.00	1.00	25.16	5619.68	-1024.98	156.60	40.024106	-109.538973	0.44	95.00	1036.85		
5878.00	1.05	33.63	5713.66	-1023.52	157.42	40.024110	-109.538970	0.17	94.00	1035.54		
5973.00	0.50	43.54	5808.66	-1022.49	158.19	40.024113	-109.538967	0.59	95.00	1034.65		
6067.00	0.43	43.71	5902.65	-1021.94	158.72	40.024114	-109.538965	0.07	94.00	1034.18		
6162.00	0.44	49.53	5997.65	-1021.44	159.24	40.024115	-109.538963	0.05	95.00	1033.78		
6256.00	0.68	85.36	6091.65	-1021.16	160.07	40.024116	-109.538960	0.44	94.00	1033.63		
6351.00	0.38	73.79	6186.64	-1021.03	160.94	40.024117	-109.538957	0.33	95.00	1033.64		
6445.00	0.50	137.79	6280.64	-1021.25	161.51	40.024116	-109.538955	0.51	94.00	1033.94		
6540.00	0.63	156.54	6375.63	-1022.03	162.00	40.024114	-109.538953	0.24	95.00	1034.75		

Weatherford International Limited

5D 7.5.3 : 18 March 2013, 18:47:56 UTC

5D Survey Report

Survey Points (Relative to centre, TVD relative to Drill Floor)												
MC (US ft)	Inc (°)	Az (°)	TVD (US ft)	N. Offset (US ft)	E. Offset (US ft)	Latitude (°)	Longitude (°)	Dis. (°/100 US ft)	CI (US ft)	V5 (US ft)	Comment	
6634.00	0.94	143.29	6469.63	-1023.13	162.67	40.024111	-109.538951	0.38	94.00	1035.98		
6729.00	1.00	173.16	6564.61	-1024.57	163.23	40.024107	-109.538949	0.53	95.00	1037.50		
6823.00	0.81	153.79	6658.60	-1025.98	163.62	40.024103	-109.538948	0.38	94.00	1038.95		
6918.00	1.06	151.04	6753.59	-1027.36	164.34	40.024099	-109.538945	0.27	95.00	1040.42		
7012.00	1.25	160.91	6847.57	-1029.09	165.10	40.024094	-109.538942	0.29	94.00	1042.24		
7107.00	0.50	306.29	6942.56	-1029.82	165.10	40.024092	-109.538942	1.77	95.00	1042.97		
7201.00	0.56	266.91	7036.56	-1029.60	164.31	40.024093	-109.538945	0.38	94.00	1042.63		
7296.00	0.45	278.89	7131.56	-1029.57	163.48	40.024093	-109.538948	0.16	95.00	1042.47		
7485.00	0.44	223.04	7320.55	-1029.98	162.25	40.024092	-109.538953	0.22	189.00	1042.66		
7579.00	1.03	195.55	7414.54	-1031.06	161.78	40.024089	-109.538954	0.71	94.00	1043.68		
7673.00	0.13	216.54	7508.54	-1031.96	161.49	40.024087	-109.538955	0.97	94.00	1044.52		
7768.00	1.28	35.62	7603.53	-1031.19	162.05	40.024089	-109.538953	1.48	95.00	1043.84		
7862.00	1.69	20.79	7697.50	-1029.04	163.15	40.024095	-109.538949	0.59	94.00	1041.88		
7957.00	1.81	6.91	7792.45	-1026.24	163.83	40.024102	-109.538947	0.46	95.00	1039.23		
8051.00	1.82	20.15	7886.41	-1023.36	164.52	40.024110	-109.538944	0.45	94.00	1036.50		
8146.00	1.19	340.41	7981.38	-1021.02	164.71	40.024117	-109.538944	1.24	95.00	1034.21		
8240.00	0.56	353.29	8075.37	-1019.64	164.33	40.024120	-109.538945	0.70	94.00	1032.80		
8335.00	0.75	334.66	8170.36	-1018.62	164.01	40.024123	-109.538946	0.30	95.00	1031.73		
8429.00	0.45	4.45	8264.35	-1017.69	163.77	40.024126	-109.538947	0.45	94.00	1030.79		
8524.00	0.56	7.79	8359.35	-1016.86	163.86	40.024128	-109.538947	0.12	95.00	1029.98		
8618.00	0.13	298.41	8453.35	-1016.36	163.83	40.024129	-109.538947	0.56	94.00	1029.47		
8713.00	0.44	126.91	8548.35	-1016.52	164.03	40.024129	-109.538946	0.60	95.00	1029.67		
8807.00	1.06	151.91	8642.34	-1017.51	164.73	40.024126	-109.538944	0.73	94.00	1030.75		
8902.00	1.19	170.54	8737.32	-1019.26	165.30	40.024121	-109.538942	0.41	95.00	1032.57		
8996.00	1.13	167.91	8831.30	-1021.13	165.66	40.024116	-109.538940	0.09	94.00	1034.47		
9091.00	1.13	163.16	8926.28	-1022.94	166.13	40.024111	-109.538939	0.10	95.00	1036.33		
9186.00	1.00	159.16	9021.27	-1024.61	166.69	40.024107	-109.538937	0.16	95.00	1038.07		
9375.00	1.88	148.73	9210.21	-1028.80	168.89	40.024095	-109.538929	0.48	189.00	1042.56		
9564.00	2.31	142.66	9399.08	-1034.48	172.81	40.024080	-109.538915	0.26	189.00	1048.78		
9753.00	2.88	157.46	9587.89	-1041.89	176.94	40.024059	-109.538900	0.46	189.00	1056.75		
9942.00	3.00	164.04	9776.64	-1051.03	180.12	40.024034	-109.538889	0.19	189.00	1066.28		
10225.00	3.38	177.29	10059.20	-1066.49	182.55	40.023992	-109.538880	0.29	283.00	1081.92		
10509.00	3.31	161.04	10342.73	-1082.60	185.61	40.023947	-109.538869	0.33	284.00	1098.32		
10792.00	3.53	166.10	10625.22	-1098.79	190.36	40.023903	-109.538852	0.13	283.00	1115.05		
10887.00	3.13	163.71	10720.06	-1104.12	191.79	40.023888	-109.538847	0.45	95.00	1120.53		
11218.00	3.31	156.38	11050.54	-1121.55	198.15	40.023841	-109.538824	0.14	331.00	1138.74	LAST WFT MWD SURVEY	
11278.00	3.31	156.38	11110.44	-1124.72	199.54	40.023832	-109.538819	0.00	60.00	1142.10	PROJECTION TC TD	