

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 921-20D1CS	
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 720 929-6587	
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217						9. OPERATOR E-MAIL mary.mondragon@anadarko.com	
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UTU 0575			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 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	961 FNL 1272 FWL	NWNW	20	9.0 S	21.0 E	S	
Top of Uppermost Producing Zone	346 FNL 720 FWL	NWNW	20	9.0 S	21.0 E	S	
At Total Depth	346 FNL 720 FWL	NWNW	20	9.0 S	21.0 E	S	
21. COUNTY UINTAH			22. DISTANCE TO NEAREST LEASE LINE (Feet) 346			23. NUMBER OF ACRES IN DRILLING UNIT 1600	
			25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 450			26. PROPOSED DEPTH MD: 10477 TVD: 10350	
27. ELEVATION - GROUND LEVEL 4795			28. BOND NUMBER WYB000291			29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496	

ATTACHMENTS

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

<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 Danielle Piernot	TITLE Regulatory Analyst	PHONE 720 929-6156
SIGNATURE	DATE 07/22/2009	EMAIL danielle.piernot@anadarko.com
API NUMBER ASSIGNED 43047505960000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	10477		
Pipe	Grade	Length	Weight			
	Grade HCP-110 LT&C	700	11.6			
	Grade I-80 LT&C	9777	11.6			

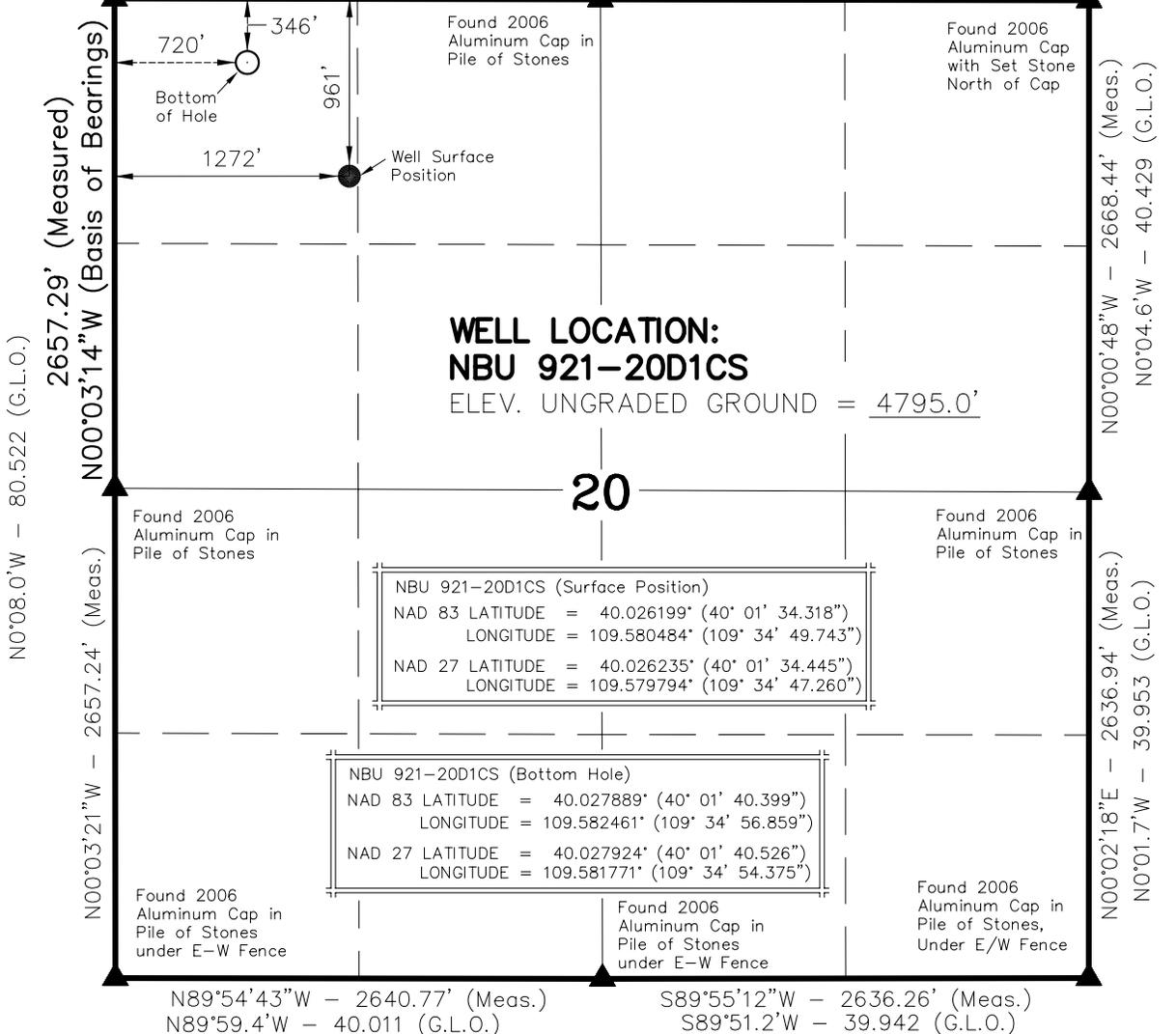
Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2640		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2640	36.0			

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

Found 2006 Aluminum Cap in Pile of Stones

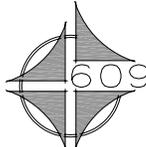
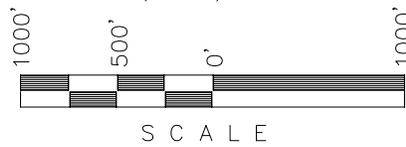
N89°58.7'W - 39.921 (G.L.O.)
N89°54'13"W - 2634.82' (Meas.)

N89°57.5'W - 40.129 (G.L.O.)
N89°53'24"W - 2648.44' (Meas.)



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 N41°53'47"W 827.88' 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.

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

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

**NBU 921-20D1CS
WELL PLAT**
346' FNL, 720' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

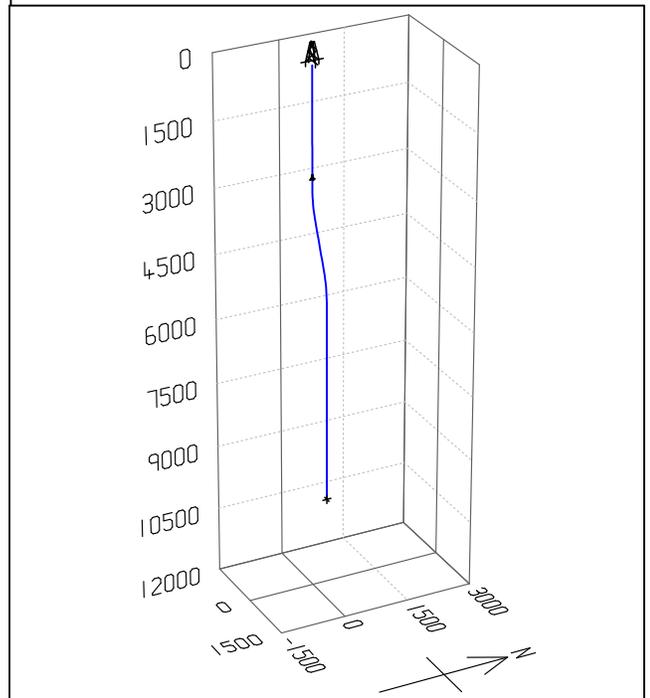
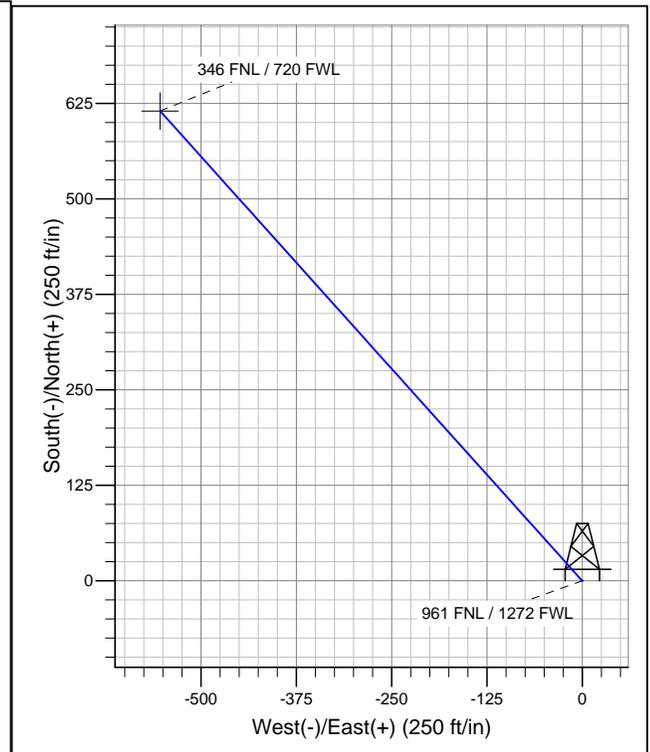
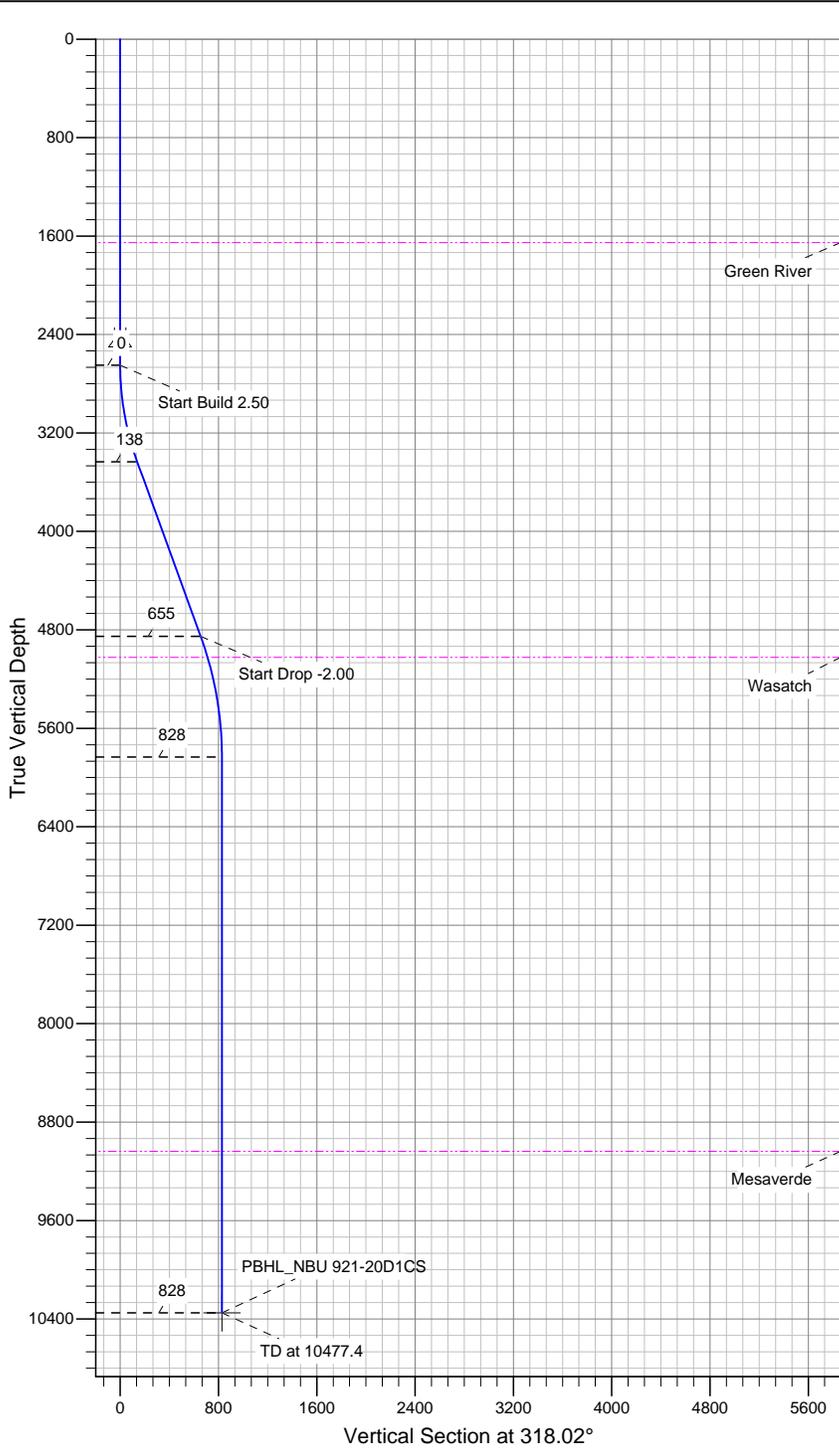
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 3 OF 13
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	



Well Name: P_NBU 921-20D1CS
 Surface Location: UINTAH_NBU 921-20D PAD
 NAD 1927 (NADCON CONUS) Universal Transverse Mercator (US Survey Feet)
 UTAH - UTM (feet), NAD27, Zone 12N
 Ground Elevation: 4793.0
 Northing 14538766.97 Easting 2038012.03 Latitude 40.026235°N Longitude 109.579794°W



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec
1	0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.0
2	2650.0	0.00	0.00	2650.0	0.0	0.0	0.00	0.00	0.0
3	3450.0	20.00	318.02	3433.9	102.7	-92.5	2.50	318.02	138.2
4	4960.3	20.00	318.02	4853.1	486.7	-438.0	0.00	0.00	654.8
5	5960.3	0.00	0.00	5832.9	615.1	-553.5	2.00	180.00	827.5
6	10477.4	0.00	0.00	10350.0	615.1	-553.5	0.00	0.00	827.5



Azimuths to True North
 Magnetic North: 11.37°

Magnetic Field
 Strength: 52574.7snT
 Dip Angle: 65.94°
 Date: 4/20/2009
 Model: IGRF200510

ROCKIES - PLANNING

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

UINTAH_NBU 921-20D PAD

P_NBU 921-20D1CS

P_NBU 921-20D1CS

Plan: Plan #2 04-23-09 ZJRA6

Standard Planning Report - Geographic

23 April, 2009

APC Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well P_NBU 921-20D1CS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4793.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4793.0ft (Original Well Elev)
Site: UINTAH_NBU 921-20D PAD	North Reference: True
Well: P_NBU 921-20D1CS	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 921-20D1CS	
Design: Plan #2 04-23-09 ZJRA6	

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

Site UINTAH_NBU 921-20D PAD		
Site Position:	Northing: 14,538,771.61 ft	Latitude: 40.026246°N
From: Lat/Long	Easting: 2,038,051.72 ft	Longitude: 109.579652°W
Position Uncertainty: 0.0 ft	Slot Radius: "	Grid Convergence: 0.91 °

Well P_NBU 921-20D1CS			
Well Position	+N/-S 0.0 ft	Northing: 14,538,766.97 ft	Latitude: 40.026235°N
	+E/-W 0.0 ft	Easting: 2,038,012.03 ft	Longitude: 109.579794°W
Position Uncertainty	0.0 ft	Wellhead Elevation: ft	Ground Level: 4,793.0 ft

Wellbore P_NBU 921-20D1CS					
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/20/2009	11.37	65.94	52,575

Design Plan #2 04-23-09 ZJRA6				
Audit Notes:				
Version:	Phase: PLAN	Tie On Depth: 0.0		
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	0.0	0.0	0.0	318.02

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
0.0	0.00	0.00	0.0	0.0	0.0	0.00	0.00	0.00	0.00	
2,650.0	0.00	0.00	2,650.0	0.0	0.0	0.00	0.00	0.00	0.00	
3,450.0	20.00	318.02	3,433.9	102.7	-92.5	2.50	2.50	0.00	318.02	
4,960.3	20.00	318.02	4,853.1	486.7	-438.0	0.00	0.00	0.00	0.00	
5,960.3	0.00	0.00	5,832.9	615.1	-553.5	2.00	-2.00	0.00	180.00	
10,477.4	0.00	0.00	10,350.0	615.1	-553.5	0.00	0.00	0.00	0.00	PBHL_NBU 921-20

APC

Planning Report - Geographic

Database: apc_edmp	Local Co-ordinate Reference: Well_P_NBU 921-20D1CS
Company: ROCKIES - PLANNING	TVD Reference: WELL @ 4793.0ft (Original Well Elev)
Project: UTAH - UTM (feet), NAD27, Zone 12N	MD Reference: WELL @ 4793.0ft (Original Well Elev)
Site: UINTAH_NBU 921-20D PAD	North Reference: True
Well: P_NBU 921-20D1CS	Survey Calculation Method: Minimum Curvature
Wellbore: P_NBU 921-20D1CS	
Design: Plan #2 04-23-09 ZJRA6	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude	
0.0	0.00	0.00	0.0	0.0	0.0	14,538,766.97	2,038,012.03	40.026235°N	109.579794°W	
1,654.0	0.00	0.00	1,654.0	0.0	0.0	14,538,766.97	2,038,012.03	40.026235°N	109.579794°W	
Green River										
2,500.0	0.00	0.00	2,500.0	0.0	0.0	14,538,766.97	2,038,012.03	40.026235°N	109.579794°W	
Surface Casing										
2,650.0	0.00	0.00	2,650.0	0.0	0.0	14,538,766.97	2,038,012.03	40.026235°N	109.579794°W	
3,450.0	20.00	318.02	3,433.9	102.7	-92.5	14,538,868.22	2,037,917.95	40.026517°N	109.580124°W	
4,960.3	20.00	318.02	4,853.1	486.7	-438.0	14,539,246.64	2,037,566.34	40.027571°N	109.581358°W	
5,139.2	16.42	318.02	5,023.0	528.3	-475.4	14,539,287.59	2,037,528.29	40.027685°N	109.581492°W	
Wasatch										
5,960.3	0.00	0.00	5,832.9	615.1	-553.5	14,539,373.21	2,037,448.74	40.027924°N	109.581771°W	
9,164.4	0.00	0.00	9,037.0	615.1	-553.5	14,539,373.21	2,037,448.74	40.027924°N	109.581771°W	
Mesaverde										
10,477.4	0.00	0.00	10,350.0	615.1	-553.5	14,539,373.21	2,037,448.74	40.027924°N	109.581771°W	

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
PBHL_NBU 921-20D1 - hit/miss target - Shape - Point	0.00	0.00	10,350.0	615.1	-553.5	14,539,373.21	2,037,448.74	40.027924°N	109.581771°W	

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (")	Hole Diameter (")		
2,500.0	2,500.0	Surface Casing	9-5/8	12-1/4		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
9,164.4	9,037.0	Mesaverde		0.00		
1,654.0	1,654.0	Green River		0.00		
5,139.2	5,023.0	Wasatch		0.00		

NBU 921-20D1CS

Pad: NBU 921-20D

Surface: 961' FNL 1,272' FWL (NW/4NW/4)

BHL: 346' FNL 720' FWL (NW/4NW/4)

Sec. 20 T9S R21E

Uintah, Utah

Mineral Lease: UTU 0575

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. – 2. **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	1,654'	
Birds Nest	1,928'	Water
Mahogany	2,439'	Water
Wasatch	5,023'	Gas
Mesaverde	8,080'	Gas
MVU2	9,037'	Gas
MVL1	9,587'	Gas
TVD	10,350'	
TD	10,477'	

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

Please refer to the attached Drilling Program.

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

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 10,477' TD, approximately equals 6,527 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4,171 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. Anticipated Starting Dates:

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

9. Variances:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

The air rig is then mobilized to drill the surface casing hole by drilling a 12-1/4 inch hole to just above the Bird's Nest interval with an air hammer. The hammer is then tripped and replaced with a 12-1/4 inch tri-cone bit. The tri-cone bit is used to drill to the surface casing point, approximately 500 feet below the loss circulation zone (Bird's Nest). The 9-5/8 inch surface casing is then run and cemented in place, thereby isolating the lost circulation zone.

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Variance for FIT Requirements

KMG also respectfully requests a variance to Onshore Order 2, Section III, Part Bi, for the pressure integrity test (PIT, also known as a formation integrity test (FIT)). The air rig operation utilizes a 5M BOPE when drilling. This well is not an exploratory well and is being drilled in an area where the formation integrity is well known. Additionally, when an FIT is run with the mud weight as required, the casing shoe frequently breaks down and causes subsequent lost circulation when drilling the entire depth of the well.

Conclusion

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

10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,640	36.00	J-55	LTC	0.81	1.63	6.07
PRODUCTION	4-1/2"	0 to 9,777	11.60	I-80	LTC	7,780	6,350	201,000
	4-1/2"	9,777 to 10,477	11.60	HCP-110	LTC	1.81	1.08	2.03
						10,690	8,650	279,000
						69.42	1.32	42.23

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

2) MASP (Prod Casing) = Pore Pressure at TD - (0.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 12.2 ppg) 0.22 psi/ft = gradient for partially evac wellbore
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MASP 4,171 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 12.2 ppg) 0.62 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 6,527 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1							
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
NOTE: If well will circulate water to surface, option 2 will be utilized							
SURFACE	LEAD	2,140'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	500	35%	12.60	1.81
Option 2							
	TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,517'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	430	40%	11.00	3.38
	TAIL	5,960'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1,460	40%	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. No centralizers will be used.

ADDITIONAL INFORMATION

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

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

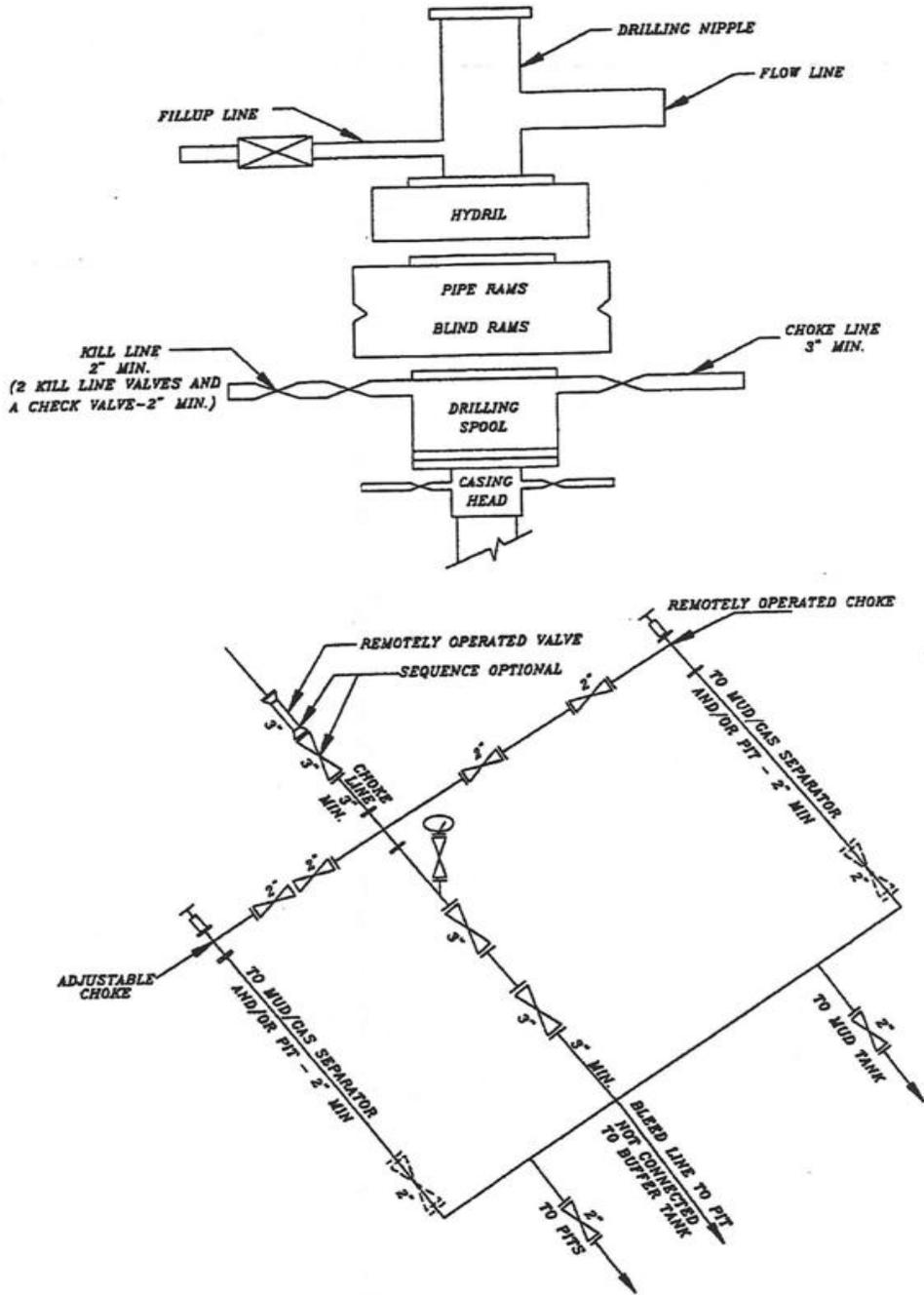
Surveys will be taken at 1,000' minimum intervals.

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

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

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

EXHIBIT A NBU 921-20D1CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD – NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS



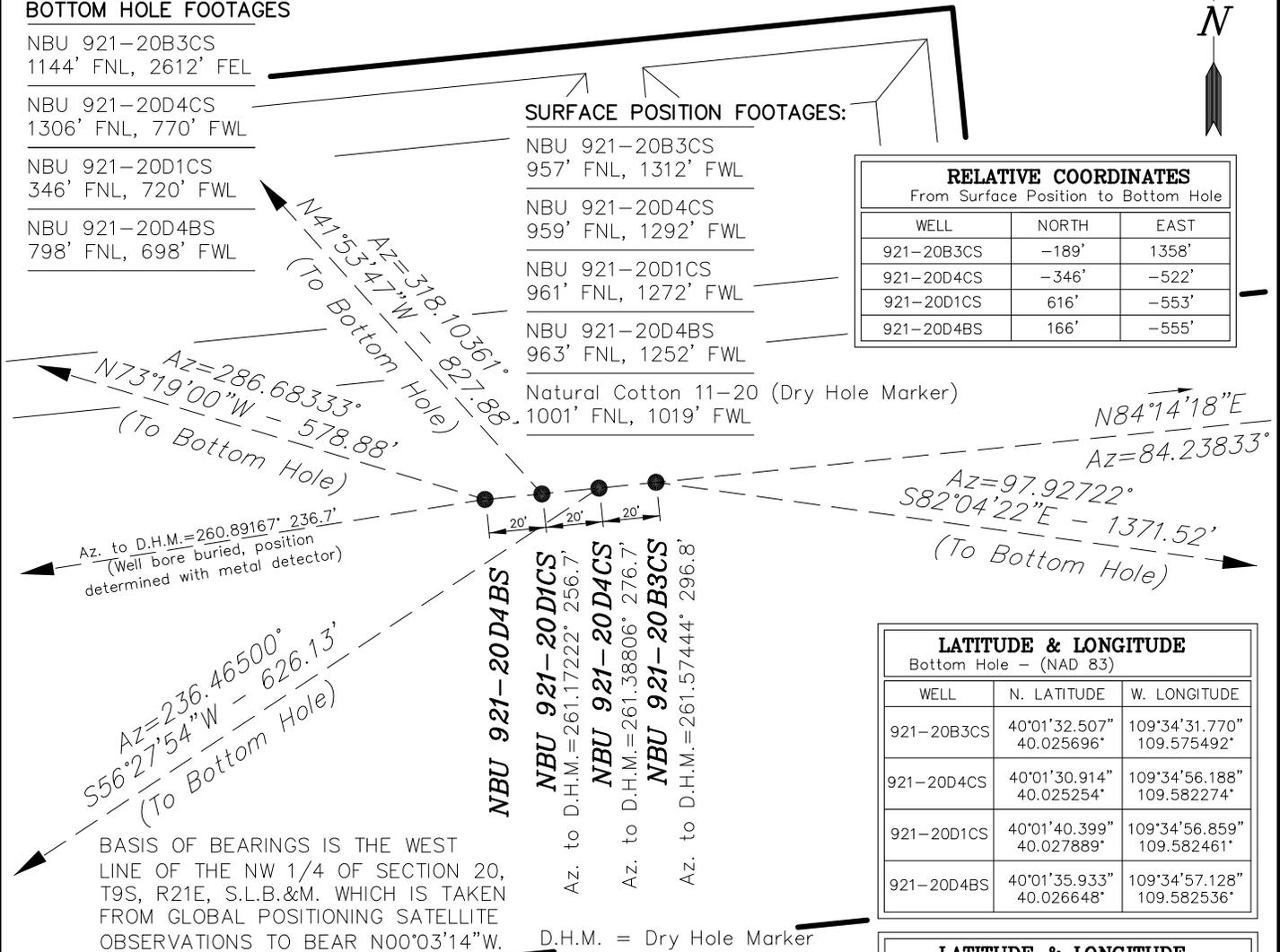
BOTTOM HOLE FOOTAGES

- NBU 921-20B3CS
1144' FNL, 2612' FEL
- NBU 921-20D4CS
1306' FNL, 770' FWL
- NBU 921-20D1CS
346' FNL, 720' FWL
- NBU 921-20D4BS
798' FNL, 698' FWL

SURFACE POSITION FOOTAGES:

- NBU 921-20B3CS
957' FNL, 1312' FWL
- NBU 921-20D4CS
959' FNL, 1292' FWL
- NBU 921-20D1CS
961' FNL, 1272' FWL
- NBU 921-20D4BS
963' FNL, 1252' FWL
- Natural Cotton 11-20 (Dry Hole Marker)
1001' FNL, 1019' FWL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL	NORTH	EAST
921-20B3CS	-189'	1358'
921-20D4CS	-346'	-522'
921-20D1CS	616'	-553'
921-20D4BS	166'	-555'



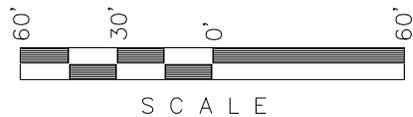
BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'14"W. D.H.M. = Dry Hole Marker

LATITUDE & LONGITUDE Surface Position – (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'34.359" 40.026211°	109°34'49.230" 109.580342°
921-20D4CS	40°01'34.338" 40.026205°	109°34'49.487" 109.580413°
921-20D1CS	40°01'34.318" 40.026199°	109°34'49.743" 109.580484°
921-20D4BS	40°01'34.299" 40.026194°	109°34'49.999" 109.580555°
Dry Hole Marker Natural Cotton 11-20	40°01'33.925" 40.026090°	109°34'53.002" 109.581390°

LATITUDE & LONGITUDE Surface Position – (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'34.486" 40.026246°	109°34'46.747" 109.579652°
921-20D4CS	40°01'34.466" 40.026240°	109°34'47.003" 109.579723°
921-20D1CS	40°01'34.445" 40.026235°	109°34'47.260" 109.579794°
921-20D4BS	40°01'34.426" 40.026229°	109°34'47.516" 109.579865°
Dry Hole Marker Natural Cotton 11-20	40°01'34.053" 40.026126°	109°34'50.519" 109.580700°

LATITUDE & LONGITUDE Bottom Hole – (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'32.507" 40.025696°	109°34'31.770" 109.575492°
921-20D4CS	40°01'30.914" 40.025254°	109°34'56.188" 109.582274°
921-20D1CS	40°01'40.399" 40.027889°	109°34'56.859" 109.582461°
921-20D4BS	40°01'35.933" 40.026648°	109°34'57.128" 109.582536°

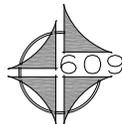
LATITUDE & LONGITUDE Bottom Hole – (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'32.635" 40.025732°	109°34'29.287" 109.574802°
921-20D4CS	40°01'31.041" 40.025289°	109°34'53.704" 109.581585°
921-20D1CS	40°01'40.526" 40.027924°	109°34'54.375" 109.581771°
921-20D4BS	40°01'36.061" 40.026684°	109°34'54.644" 109.581846°



Kerr-McGee

Oil & Gas Onshore, LP

1099 18th Street – Denver, Colorado 80202



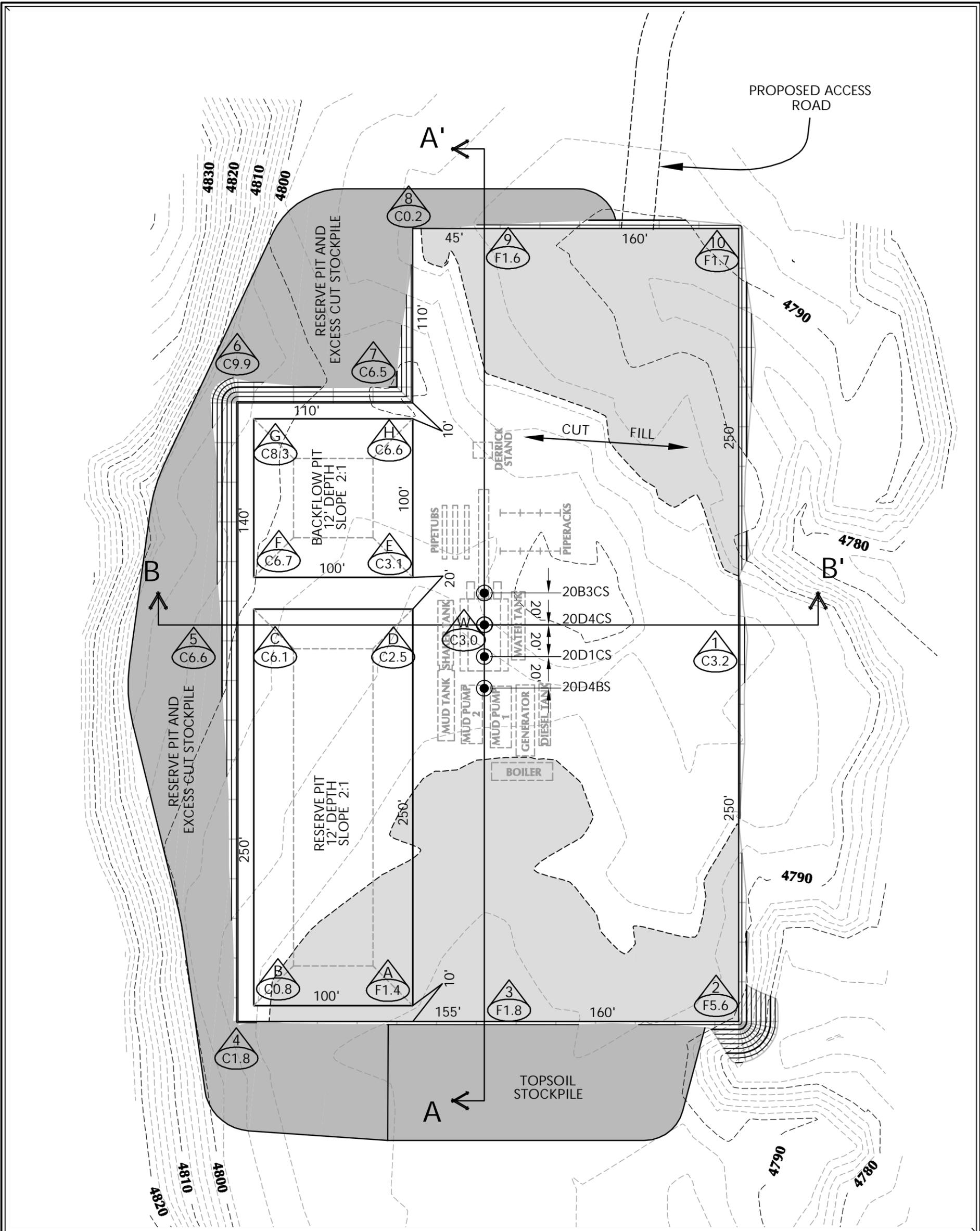
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.
DATE DRAWN: 02-26-09	DRAWN BY: K.K.O.
REVISED:	

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
5
OF 13



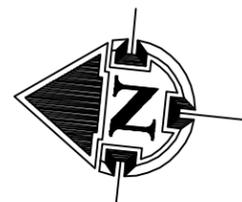
WELL PAD NBU 921-20D QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4796.4'
 FINISHED GRADE ELEVATION = 4793.4'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 9,912 C.Y.
 TOTAL FILL FOR WELL PAD = 4,910 C.Y.
 TOPSOIL @ 6" DEPTH = 2,886 C.Y.
 EXCESS MATERIAL = 5,002 C.Y.
 TOTAL DISTURBANCE = 3.58 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,730 BARRELS
 RESERVE PIT VOLUME
 +/- 7,720 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 9,490 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,660 CY

WELL PAD LEGEND

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



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

**KERR-MCGEE OIL & GAS
 ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202

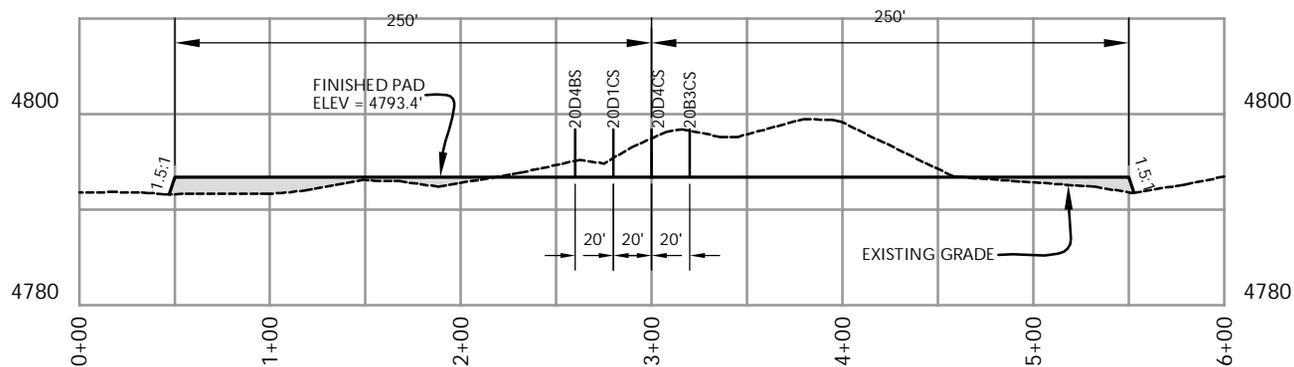


609 CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

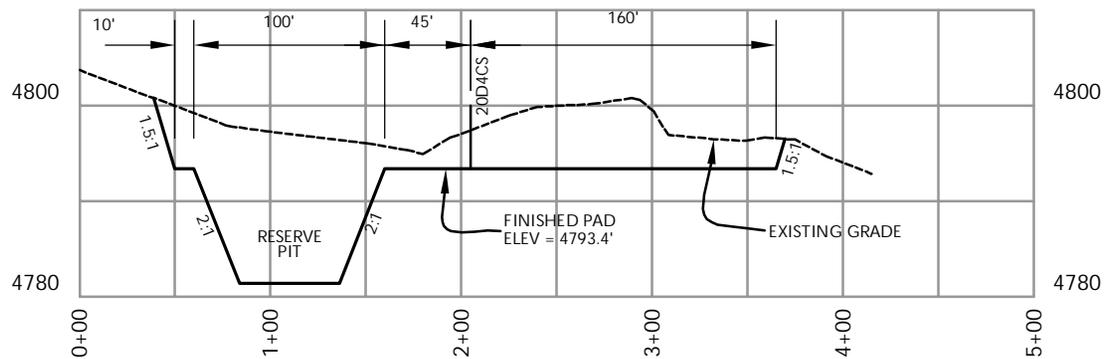
Scale: 1"=60'	Date: 3/17/09	SHEET NO:
REVISED:		6 6 OF 13

WELL PAD - LOCATION LAYOUT
 NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS
 LOCATED IN SECTION 20, T.9S., R.21E.
 S.L.B.&M., UINTAH COUNTY, UTAH

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078



CROSS SECTION A-A'



CROSS SECTION B-B'

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

**KERR-MCGEE OIL & GAS
ONSHORE L.P.**

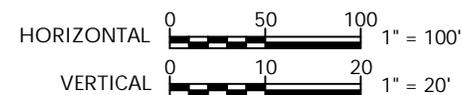
1099 18th Street - Denver, Colorado 80202

WELL PAD - CROSS SECTIONS
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., UINTAH COUNTY, UTAH



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

Scale: 1"=100'	Date: 3/17/09	SHEET NO:
REVISED:		7 7 OF 13



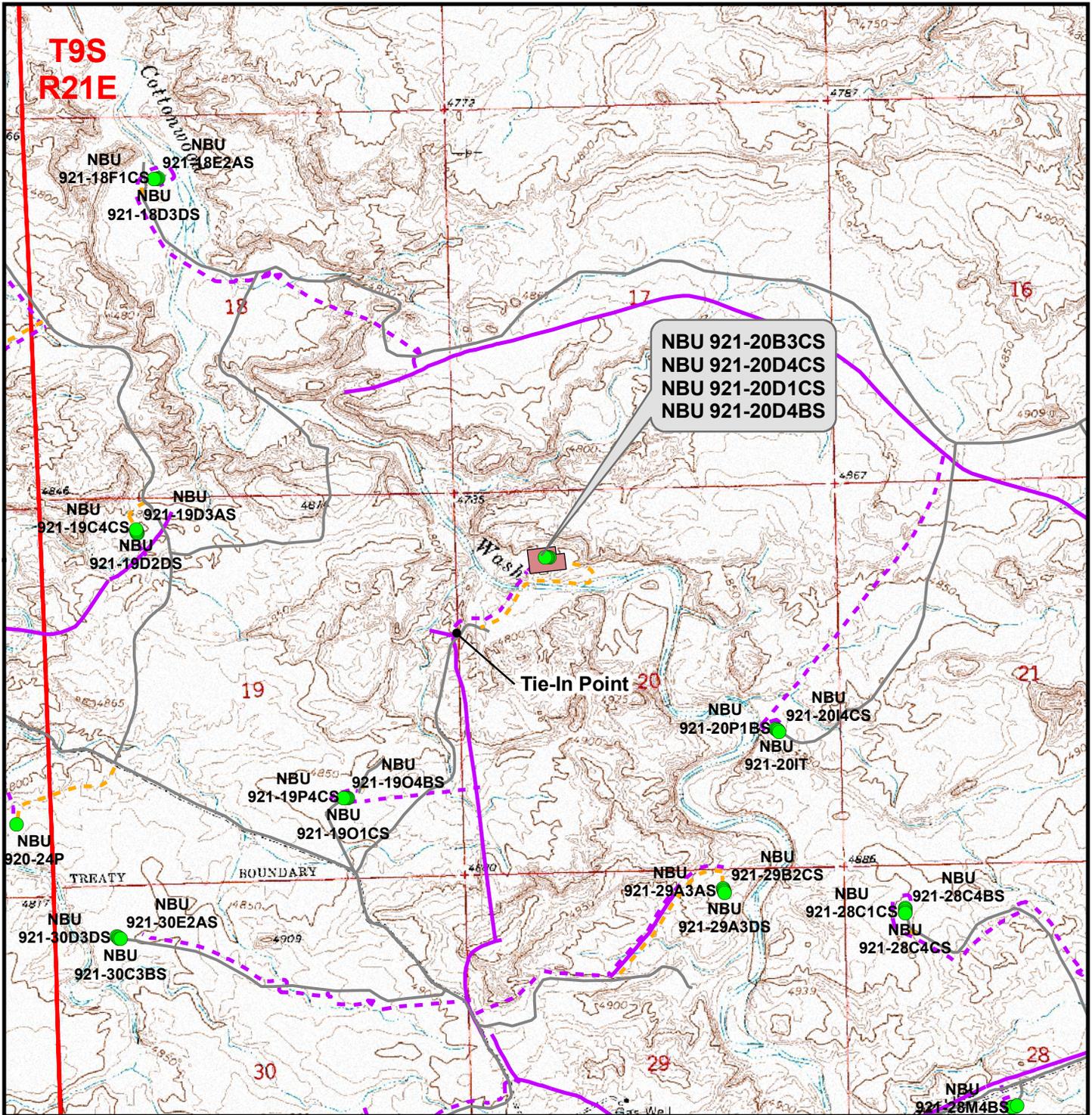
Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

'APIWellNo:43047505960000'









Legend

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

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±1,530ft
 Proposed Pipeline Length Around Pad: ±660ft

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

**NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS**
Topo D
Located In Section 20, T9S, R21E
S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No:
Drawn: JELo	Date: 24 Feb 2009	12 12 of 13
Revised:	Date:	

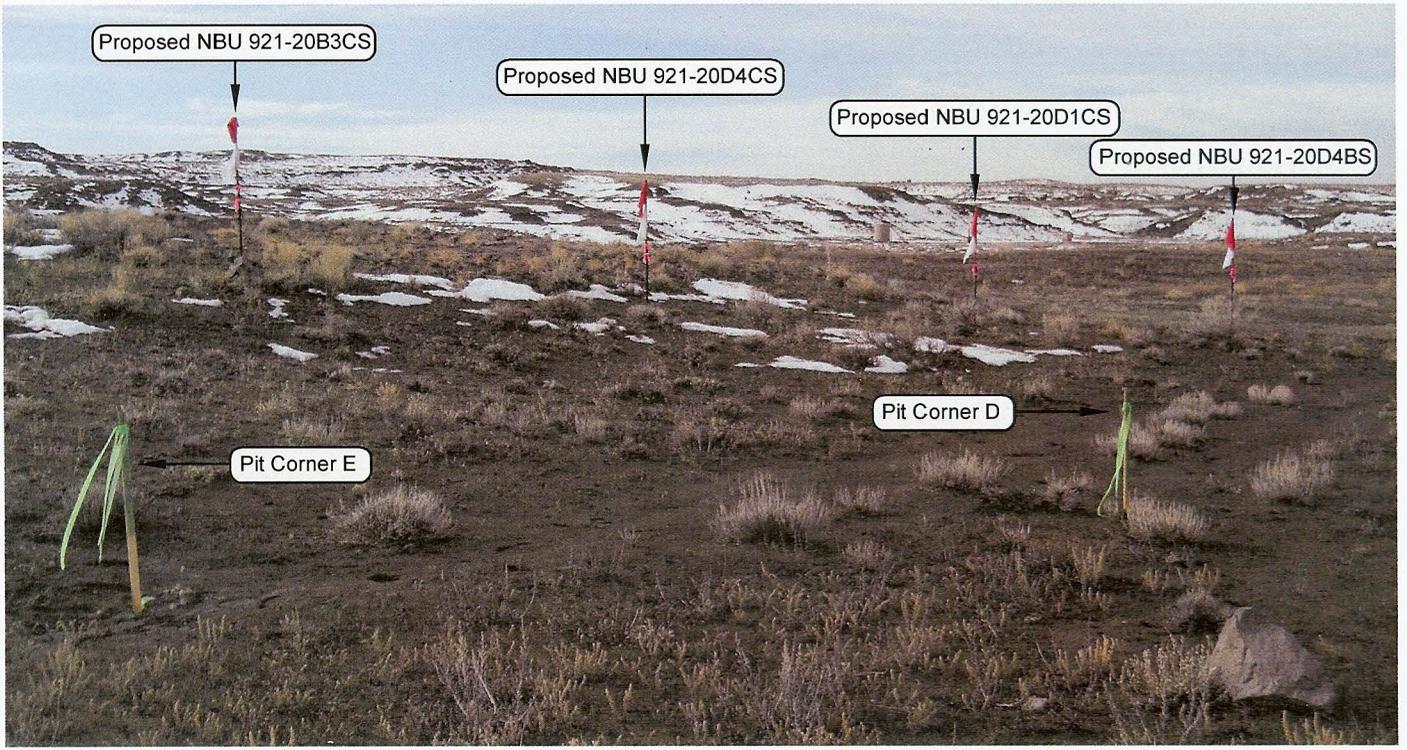


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY

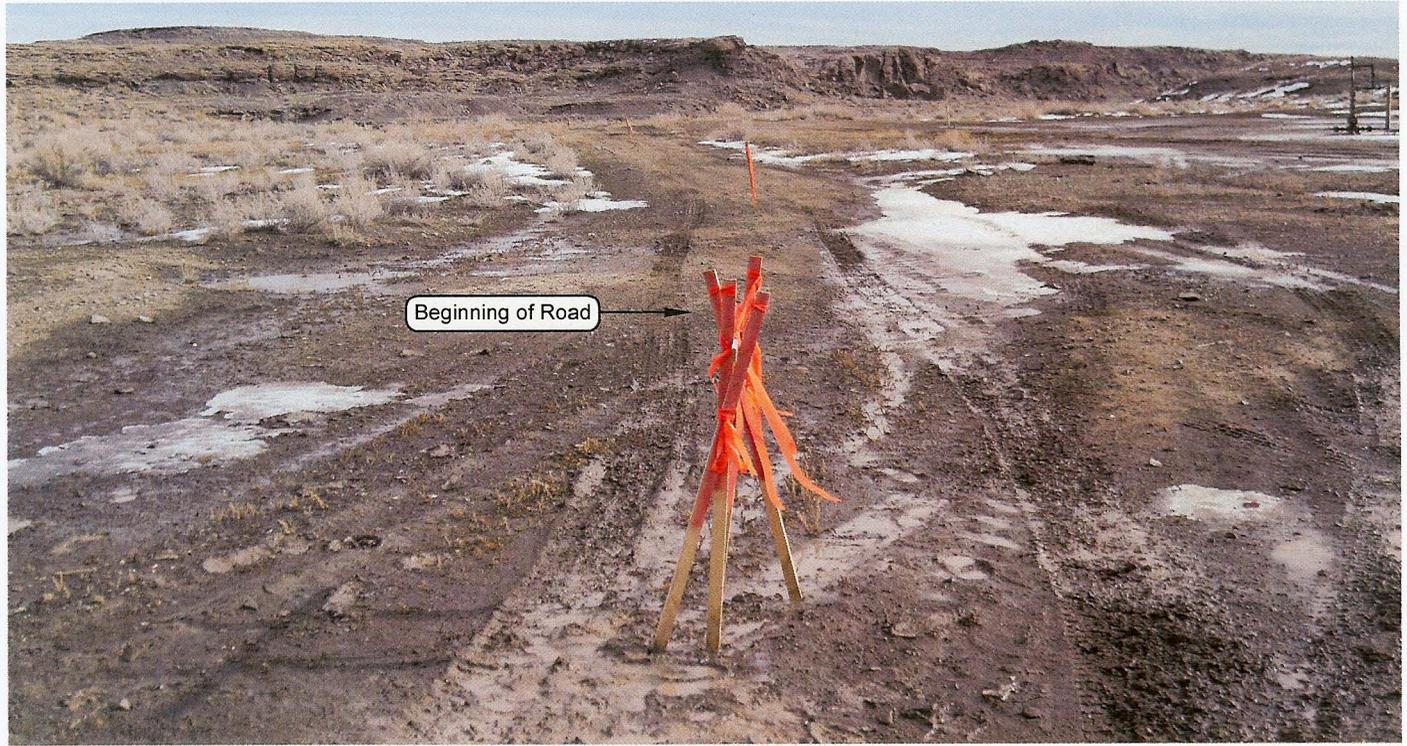
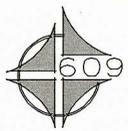


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

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



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

LOCATION PHOTOS		DATE TAKEN: 01-16-09
		DATE DRAWN: 02-26-09
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED:

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
8
OF 13

NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS
 LOCATED IN SECTION 20, T9S, R21E,
 S.L.B.&M. UINTAH COUNTY, UTAH.

Kerr-McGee Oil & Gas Onshore, LP
NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS, & NBU 921-20D4BS
Section 20, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY THEN SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 5.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTH BY NORTHEAST DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.8 MILES TO THE TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2,390 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE WELL LOCATION IS APPROXIMATELY 42.4 MILES IN A SOUTHERLY DIRECTION.

NBU 921-20B3CS

Surface: 957' FNL 1,312' FWL (NW/4NW/4)
BHL: 1,144' FNL 2,612' FEL (NW/4NE/4)

NBU 921-20D1CS

Surface: 961' FNL 1,272' FWL (NW/4NW/4)
BHL: 346' FNL 720' FWL (NW/4NW/4)

NBU 921-20D4BS

Surface: 963' FNL 1,252' FWL (NW/4NW/4)
BHL: 798' FNL 698' FWL (NW/4NW/4)

NBU 921-20D4CS

Surface: 959' FNL 1,292' FWL (NW/4NW/4)
BHL: 1,306' FNL 770' FWL (NW/4NW/4)

Pad: NBU 921-20D
Sec. 20 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

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

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface locations in NW/4 NW/4 of Section 20 T9S R21E.

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

An on-site meeting was held on June 24, 2009. Present were:

- Verlyn Pindell and Dave Gordon – BLM;
- Bucky Secakuku – BIA
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

Approximately $\pm 2,390'$ (± 0.45 miles) of new access road is proposed. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

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

Per the onsite meeting, Kerr-McGee will construct a low-water crossing on the Cottonwood Wash for the access road (100-year flood standards).

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 2,190'$ (± 0.41 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place.

Per the onsite meeting, the following items were requested:

- The equipment (new and old infrastructure) will be painted Shadow Grey.
- A 404 permit will be obtained from the Core of Engineers to bury the proposed pipeline, as well as the existing pipeline, under the Cottonwood Wash.

5. Location and Type of Water Supply:

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

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

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

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

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

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

11. Surface/Mineral Ownership:

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

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

The mineral ownership is listed below:

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

12. Other Information:

See MDP for additional details on Other Information.

Per the onsite meeting, the following items were requested:

- A raptor survey will be completed if the wells are not constructed during 2009. This survey is to be conducted on the raptor nest east of the location.
- Archeological monitoring during construction.

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

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

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

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

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

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

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

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



Kathy Schneebeck Dulnoan

July 22, 2009

Date



Kerr-McGee Oil & Gas Onshore LP

1099 18th Street, Suite 1800
Denver, CO 80202-1918
P.O. Box 173779
Denver, CO 80217-3779
720-929-6000

April 13, 2009

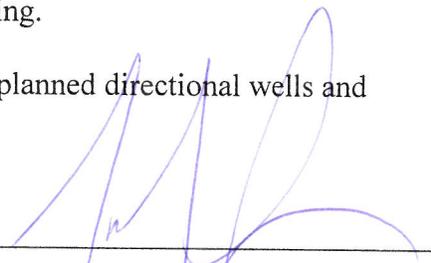
Ms. Diana Mason
Utah Department of Oil, Gas & Mining
P.O. Box 145801
Salt Lake City, Utah 54114-5801

Re: Directional Application
NBU 921-20B3CS
NBU 921-20D4CS
NBU 921-20D1CS
NBU 921-20D4BS
Uintah County, Utah
Natural Buttes Unit

Dear Ms. Mason:

Pursuant to the filing of NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS, NBU 921-20D4BS wells, Application to Drill, regarding the above referenced Mesaverde wells on April 13, 2009, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling.

EOG Resources, Inc. has received notification of the planned directional wells and consents to the directional drilling plan.

By: 
Name: J. Michael Schween
Title: Land Manager
EOG Resources, Inc. 

'APIWellNo:43047505960000'

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S 50 PROPOSED WELL LOCATIONS
IN T9S, R21E SECS. 19, 20, 21, 23, 28, 29 AND 30
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

Ute Tribal Land
Uintah and Ouray Agency

Bureau of Land Management
Vernal Field Office

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 09-11

February 23, 2009

United States Department of Interior (FLPMA)
Permit No. 08-UT-60122

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

Ute Tribal Permit No. A08-363

Paleontological Assessment for Anadarko Petroleum Corp.

NBU 921-20B3CS, D4CS, D1CS, D4BS
Ouray SE Quadrangle
Uintah County, Utah

Prepared for
Anadarko Petroleum Corp.
and
Ute Tribe
Uintah and Ouray Reservation

Prepared by
SWCA Environmental Consultants
SWCA #UT09-14314-34



Grasslands Consulting, Inc.

4800 Happy Canyon Road, Suite 110, Denver, CO 80237

(303) 759-5377 Office (303) 759-5324 Fax

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Operator: Kerr-McGee Oil & Gas Onshore LP

Wells: NBU 921-20D1CS, NBU 921-20D4BS, NBU 921-20D4CS, NBU 921-20B3CS

Pipelines: Associated Pipelines to proposed well pad

Access Roads: Associated access roads to proposed well pad

Location: Section 20, Township 9 South, Range 21 East; Uintah County, Utah

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

Date: 06/25/2009

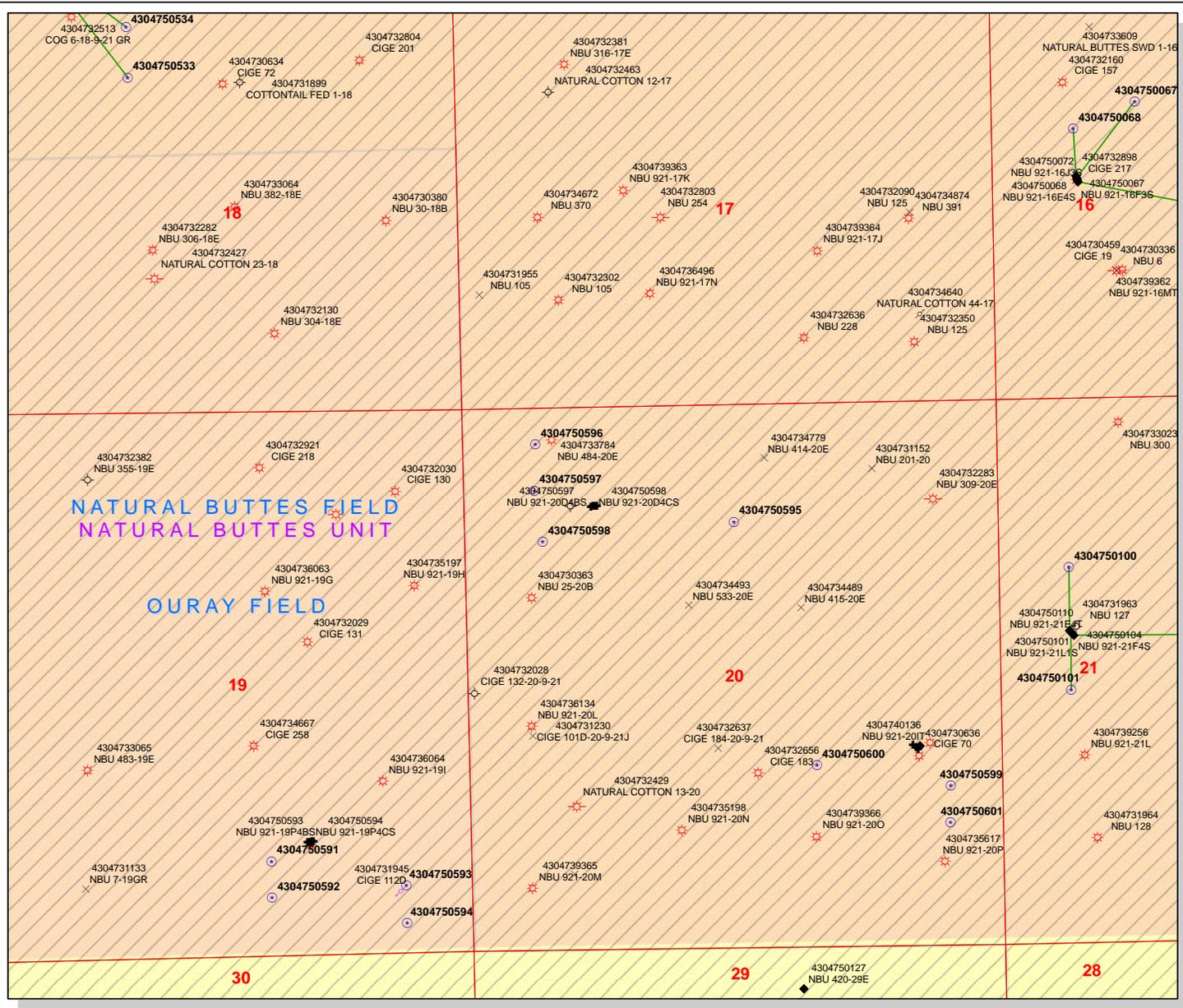
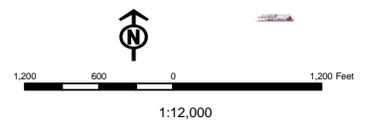
Observer(s): Grasslands Consulting, Inc. Biologists: Nick Hall, BJ Lukins, Jay Slocum, Matt Kelahan, and Jonathan Sexauer. Technician: Chad Johnson,

Weather: Partly cloudy, 75-80°F, 0-5 mph winds with no precipitation.

API Number: 4304750596
Well Name: NBU 921-20D1CS
Township 09.0 S Range 21.0 E Section 20
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	X <all other values>
ACTIVE	<Nub>
EXPLORATORY	APD
GAS STORAGE	DRL
NF PP OIL	GI
NF SECONDARY	GS
PI OIL	LA
PP GAS	NEW
PP GEOTHERM	OPS
PP OIL	PA
SECONDARY	PGW
TERMINATED	POW
Fields	RET
STATUS	SGW
ACTIVE	SOW
COMBINED	TA
Sections	TW
	WD
	WT
	WS



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)

July 24, 2009

Memorandum

To: Assistant District Manager Minerals, Vernal District
From: Michael Coulthard, Petroleum Engineer
Subject: 2009 Plan of Development Natural Buttes Unit
Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2009 within the Natural Buttes Unit, Uintah County, Utah.

API #	WELL NAME	LOCATION
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(Proposed PZ WASATCH-MESA VERDE)

43-047-50590	NBU 920-14H	Sec 14 T09S R20E 1562 FNL 0500 FEL
43-047-50589	NBU 920-14G	Sec 14 T09S R20E 2444 FNL 1947 FEL
43-047-50591	NBU 921-1901CS	Sec 19 T09S R21E 1078 FSL 1614 FEL BHL Sec 19 T09S R21E 0897 FSL 1974 FEL
43-047-50592	NBU 921-1904BS	Sec 19 T09S R21E 1079 FSL 1594 FEL BHL Sec 19 T09S R21E 0540 FSL 1974 FEL
43-047-50593	NBU 921-19P4BS	Sec 19 T09S R21E 1082 FSL 1554 FEL BHL Sec 19 T09S R21E 0621 FSL 0654 FEL
43-047-50594	NBU 921-19P4CS	Sec 19 T09S R21E 1080 FSL 1574 FEL BHL Sec 19 T09S R21E 0254 FSL 0654 FEL
43-047-50595	NBU 921-20B3CS	Sec 20 T09S R21E 0957 FNL 1312 FWL BHL Sec 20 T09S R21E 1144 FNL 2612 FEL
43-047-50596	NBU 921-20D1CS	Sec 20 T09S R21E 0961 FNL 1272 FWL BHL Sec 20 T09S R21E 0346 FNL 0720 FWL

Page 2

43-047-50597 NBU 921-20D4BS Sec 20 T09S R21E 0963 FNL 1252 FWL
BHL Sec 20 T09S R21E 0798 FNL 0698 FWL

43-047-50598 NBU 921-20D4CS Sec 20 T09S R21E 0959 FNL 1292 FWL
BHL Sec 20 T09S R21E 1306 FNL 0770 FWL

43-047-50599 NBU 921-20I4CS Sec 20 T09S R21E 1873 FSL 0843 FEL
BHL Sec 20 T09S R21E 1507 FSL 0527 FEL

43-047-50600 NBU 920-20J4BS Sec 20 T09S R21E 1910 FSL 0891 FEL
BHL Sec 20 T09S R21E 1734 FSL 1839 FEL

43-047-50601 NBU 921-20P1BS Sec 20 T09S R21E 1885 FSL 0859 FEL
BHL Sec 20 T09S R21E 1140 FSL 0538 FEL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:7-24-09

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 7/22/2009

API NO. ASSIGNED: 43047505960000

WELL NAME: NBU 921-20D1CS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNW 20 090S 210E

Permit Tech Review:

SURFACE: 0961 FNL 1272 FWL

Engineering Review:

BOTTOM: 0346 FNL 0720 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.02610

LONGITUDE: -109.57974

UTM SURF EASTINGS: 621192.00

NORTHINGS: 4431410.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU 0575

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 2 - Indian

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

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

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 173-14
Effective Date: 12/2/1999
Siting: 460' fr u bdry & uncomm. tract
 - R649-3-11. Directional Drill**
-

Comments: Presite Completed

Stipulations:
1 - Exception Location - dmason
3 - Commingle - ddoucet
4 - Federal Approval - dmason
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
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 921-20D1CS
API Well Number: 43047505960000
Lease Number: UTU 0575
Surface Owner: INDIAN
Approval Date: 8/11/2009

Issued to:

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

Authority:

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

Duration:

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

Exception Location:

Appropriate information has been submitted to DOGM and administrative approval of the requested exception location is hereby granted.

Commingling:

In accordance with Cause No. 173-14 commingling 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

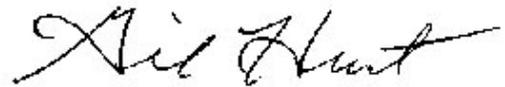
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <http://oilgas.ogm.utah.gov>

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:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 4304750596000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/12/2009	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input checked="" 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 type="checkbox"/> OTHER	OTHER: _____

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
 Kerr-McGee Oil & Gas Onshore LP (KMG) respectfully requests to re-route the proposed access road and pipeline for this well in order to avoid cactus plants.
 Please see the attached revised survey plats and SUPO for additional details.
 All other information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 September 09, 2009

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/8/2009	

NBU 921-20B3CS

Surface: 957' FNL 1,312' FWL (NW/4NW/4)
BHL: 1,144' FNL 2,612' FEL (NW/4NE/4)

NBU 921-20D1CS

Surface: 961' FNL 1,272' FWL (NW/4NW/4)
BHL: 346' FNL 720' FWL (NW/4NW/4)

NBU 921-20D4BS

Surface: 963' FNL 1,252' FWL (NW/4NW/4)
BHL: 798' FNL 698' FWL (NW/4NW/4)

NBU 921-20D4CS

Surface: 959' FNL 1,292' FWL (NW/4NW/4)
BHL: 1,306' FNL 770' FWL (NW/4NW/4)

Pad: NBU 921-20D
Sec. 20 T9S R21E

Uintah, Utah
Mineral Lease: UTU 0575

Surface Owner: Ute Indian Tribe

ONSHORE ORDER NO. 1

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

This Application for Permit to Drill (APD) is filed under the Notice of Staking (NOS) process as stated in Onshore Order No. 1 (OSO #1) and supporting Bureau of Land Management (BLM) and Bureau of Indian Affairs (BIA) documents. An NOS was submitted showing the surface locations in NW/4 NW/4 of Section 20 T9S R21E.

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

An on-site meeting was held on June 24, 2009. Present were:

- Verlyn Pindell and Dave Gordon – BLM;
- Bucky Secakuku – BIA
- Kolby Kay and Mitch Batty – Timberline Surveying, Inc.
- Nick Hall – Grasslands Consulting, Inc.
- Scott Carson – Smiling Lake Consulting
- Keith Montgomery – Montgomery Archaeological Consultants, Inc.
- Tony Kazeck, Jeff Samuels, Raleen White, David Liddell, and Hal Blanchard – Kerr-McGee

Directional Drilling:

In accordance with Utah Oil & Gas Conservation Rule R649-3-11 pertaining to Directional Drilling, this well will be directionally drilled in order to access portions of our lease which are otherwise inaccessible due to topography.

1. Existing Roads:

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

2. Planned Access Roads:

See MDP for additional details on road construction.

Approximately $\pm 1,945'$ (± 0.37 miles) of new access road is proposed. Another $\pm 430'$ (± 0.08 miles) of new access road is proposed for concurrent access to the NBU 921-20F proposed well. Please refer to the attached Topo Map B. No pipelines will be crossed with the new construction.

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

Per the onsite meeting, Kerr-McGee will construct a low-water crossing on the Cottonwood Wash for the access road (100-year flood standards).

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

Please refer to Topo Map C.

4. Location of Existing and Proposed Facilities:

See MDP for additional details on Existing and Proposed Facilities.

The following guidelines will apply if the well is productive.

Approximately $\pm 2,240'$ (± 0.42 miles) of pipeline is proposed. Refer to Topo D for the existing pipeline. Appropriate surface use agreements have been or will be obtained from the Ute Indian Tribe. Pipeline segments will be welded or zaplocked together on disturbed areas in or near the location, whenever possible, and dragged into place.

Per the onsite meeting, the following items were requested:

- The equipment (new and old infrastructure) will be painted Shadow Grey.
- A 404 permit will be obtained from the Core of Engineers to bury the proposed pipeline, as well as the existing pipeline, under the Cottonwood Wash.

5. Location and Type of Water Supply:

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

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

- Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim number 43-8496, application number 53617.

- Price Water Pumping Inc. Green River and White River, various sources, Water Right Number 49-1659, application number: a35745.

No water well is to be drilled on this lease.

6. Source of Construction Materials:

See MDP for additional details on Source of Construction Materials.

7. Methods of Handling Waste Materials:

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites:

RNI in Sec. 5 T9S R22E

NBU #159 in Sec. 35 T9S R21E

Ace Oilfield in Sec. 2 T6S R20E

MC&MC in Sec. 12 T6S R19E

Pipeline Facility in Sec. 36 T9S R20E

Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E

Bonanza Evaporation Pond in Sec. 2 T10S R23E

8. Ancillary Facilities:

See MDP for additional details on Ancillary Facilities.

None are anticipated.

9. Well Site Layout: (See Location Layout Diagram)

See MDP for additional details on Well Site Layout.

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

- Net wire (39-inch) will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.
- The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.
- Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.
- Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.
- All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

10. Plans for Reclamation of the Surface:

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

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

11. Surface/Mineral Ownership:

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

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

The mineral ownership is listed below:

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

12. Other Information:

See MDP for additional details on Other Information.

Per the onsite meeting, the following items were requested:

- A raptor survey will be completed if the wells are not constructed during 2009. This survey is to be conducted on the raptor nest east of the location.
- Archeological monitoring during construction.

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

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

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

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

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

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

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

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

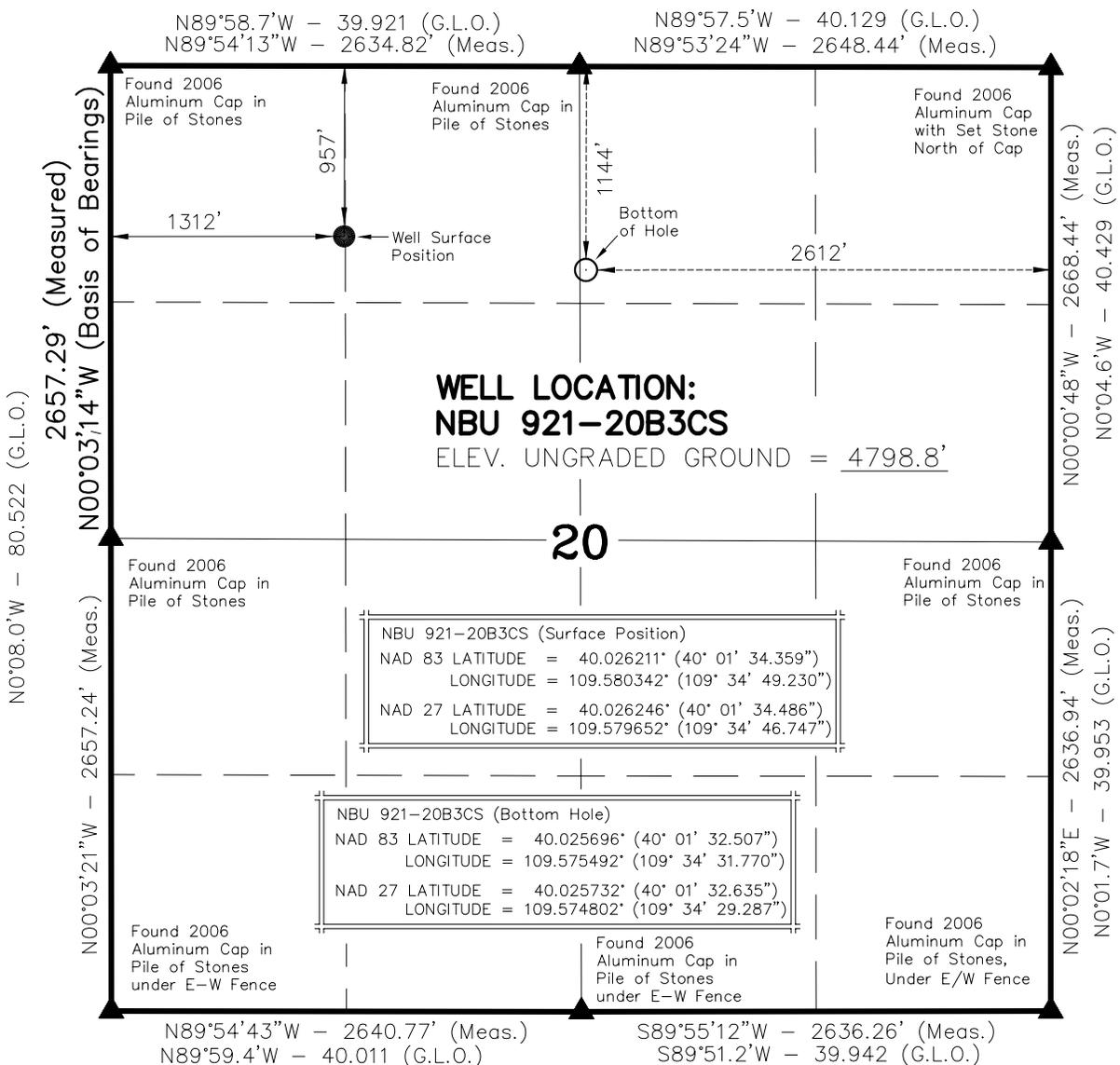


Kathy Schneebeck Dulnoan

September 8, 2009

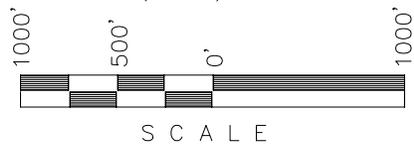
Date

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 S82°04'22"E 1371.52' 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'.



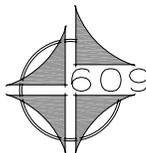
SURVEYOR'S CERTIFICATE

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.

No. 362251
KOLBY R.
K.A.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

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



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

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

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 1
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised: 02-27-09	OF 13

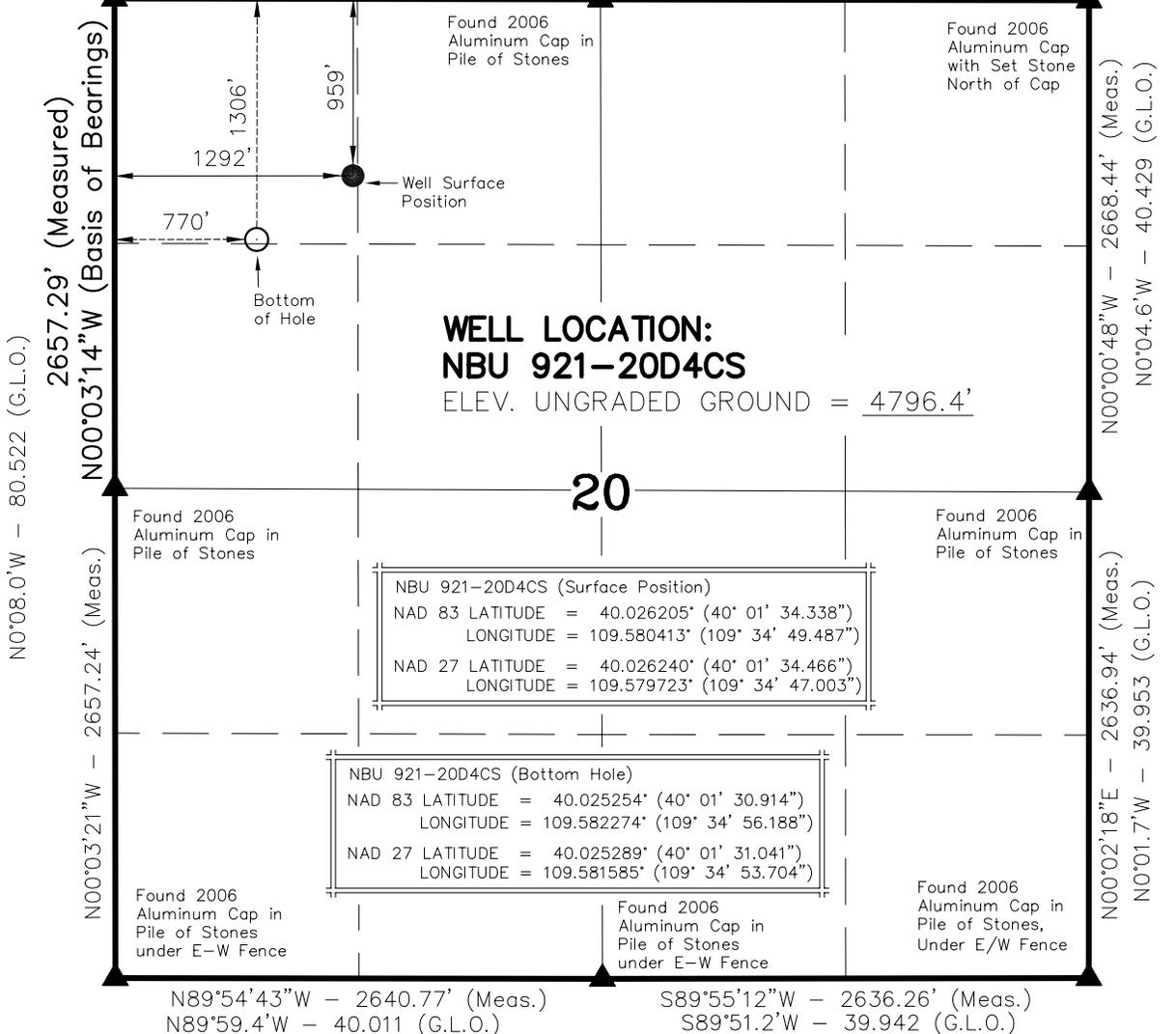
**NBU 921-20B3CS
WELL PLAT**
1144' FNL, 2612' FEL (Bottom Hole)
NW ¼ NE ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

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

Found 2006 Aluminum Cap in Pile of Stones

N89°58.7'W - 39.921 (G.L.O.)
N89°54'13"W - 2634.82' (Meas.)

N89°57.5'W - 40.129 (G.L.O.)
N89°53'24"W - 2648.44' (Meas.)



**WELL LOCATION:
NBU 921-20D4CS**

ELEV. UNGRADED GROUND = 4796.4'

20

NBU 921-20D4CS (Surface Position)
NAD 83 LATITUDE = 40.026205° (40° 01' 34.338")
LONGITUDE = 109.580413° (109° 34' 49.487")
NAD 27 LATITUDE = 40.026240° (40° 01' 34.466")
LONGITUDE = 109.579723° (109° 34' 47.003")

NBU 921-20D4CS (Bottom Hole)
NAD 83 LATITUDE = 40.025254° (40° 01' 30.914")
LONGITUDE = 109.582274° (109° 34' 56.188")
NAD 27 LATITUDE = 40.025289° (40° 01' 31.041")
LONGITUDE = 109.581585° (109° 34' 53.704")

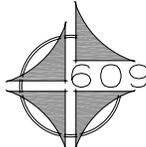
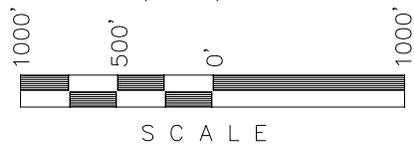
NOTES:

- ▲ = 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 S56°27'54"W 626.13' 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'.

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

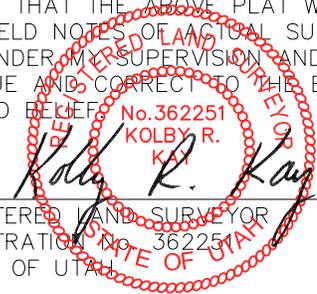
**NBU 921-20D4CS
WELL PLAT**
1306' FNL, 770' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

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



SURVEYOR'S CERTIFICATE

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



REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

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

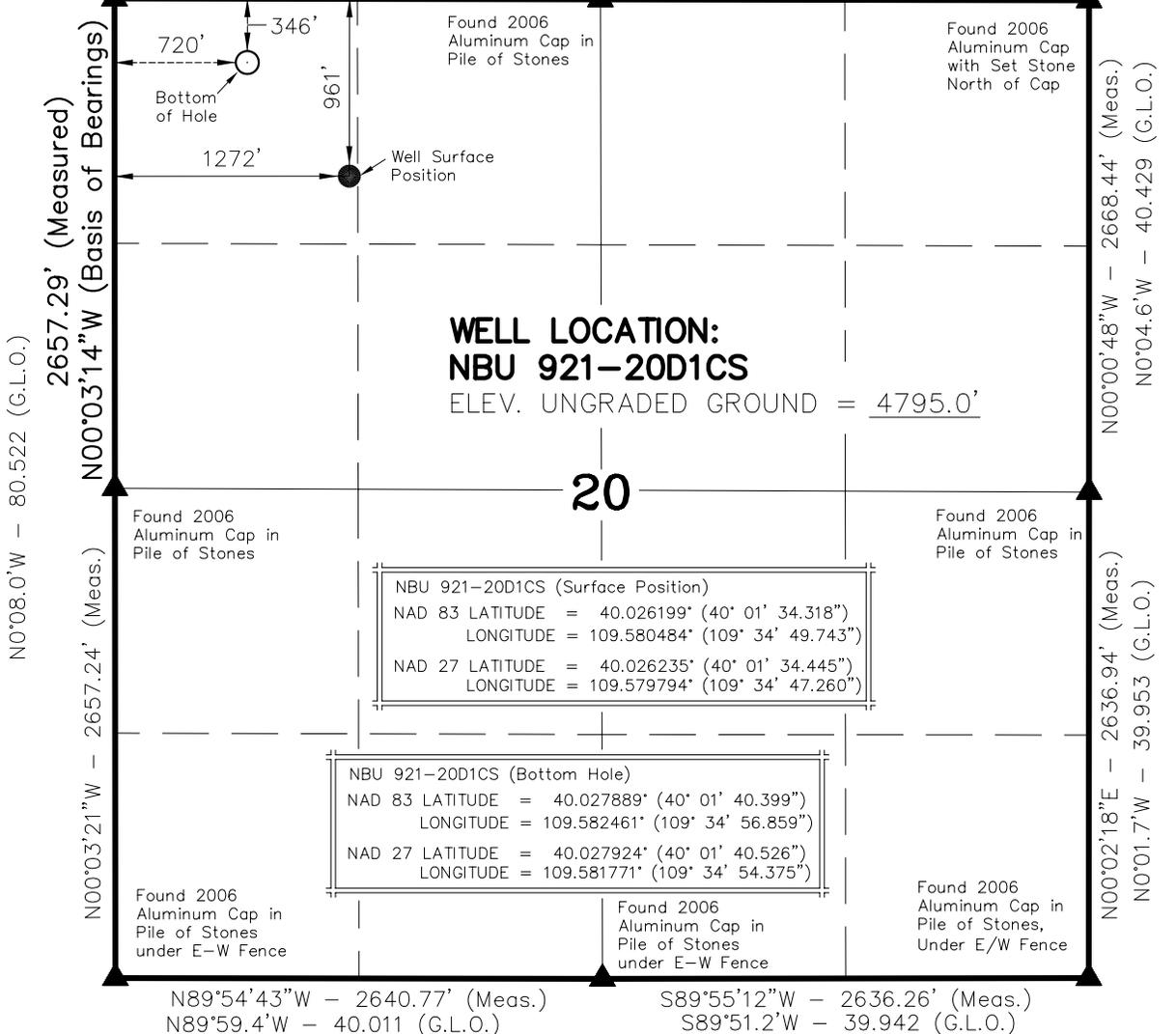
DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 2 OF 13
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'	Date Last Revised:	

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

Found 2006 Aluminum Cap in Pile of Stones

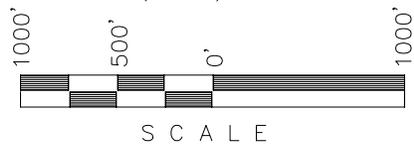
N89°58.7'W - 39.921 (G.L.O.)
N89°54'13"W - 2634.82' (Meas.)

N89°57.5'W - 40.129 (G.L.O.)
N89°53'24"W - 2648.44' (Meas.)



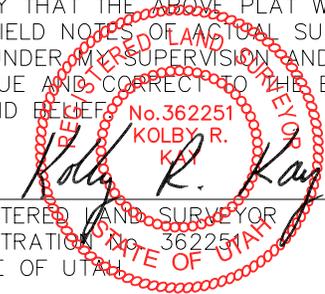
NOTES:

- ▲ = 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 N41°53'47"W 827.88' 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 1/4 of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.



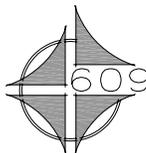
SURVEYOR'S CERTIFICATE

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



REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

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



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

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

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 3
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'		OF 13

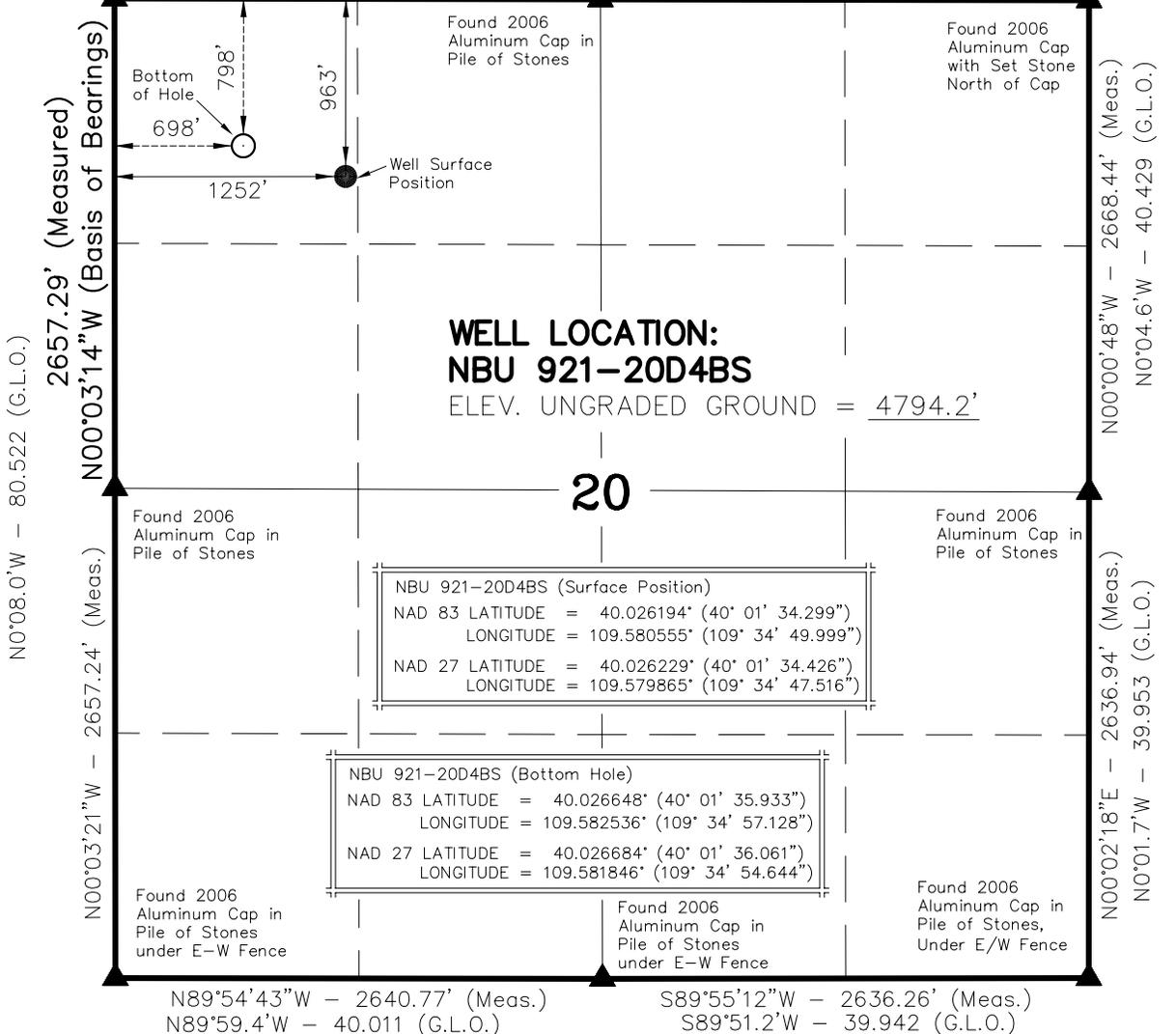
NBU 921-20D1CS
WELL PLAT
346' FNL, 720' FWL (Bottom Hole)
NW 1/4 NW 1/4 OF SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

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

Found 2006 Aluminum Cap in Pile of Stones

N89°58.7'W - 39.921 (G.L.O.)
N89°54'13"W - 2634.82' (Meas.)

N89°57.5'W - 40.129 (G.L.O.)
N89°53'24"W - 2648.44' (Meas.)



**WELL LOCATION:
NBU 921-20D4BS**

ELEV. UNGRADED GROUND = 4794.2'

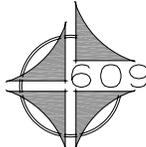
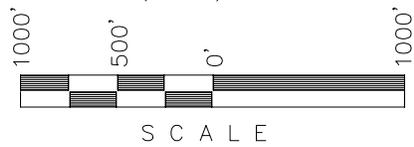
20

NBU 921-20D4BS (Surface Position)
NAD 83 LATITUDE = 40.026194° (40° 01' 34.299")
LONGITUDE = 109.580555° (109° 34' 49.999")
NAD 27 LATITUDE = 40.026229° (40° 01' 34.426")
LONGITUDE = 109.579865° (109° 34' 47.516")

NBU 921-20D4BS (Bottom Hole)
NAD 83 LATITUDE = 40.026648° (40° 01' 35.933")
LONGITUDE = 109.582536° (109° 34' 57.128")
NAD 27 LATITUDE = 40.026684° (40° 01' 36.061")
LONGITUDE = 109.581846° (109° 34' 54.644")

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 N73°19'00"W 578.88' 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.

No. 362251
KOLBY R.
K.A.

REGISTERED LAND SURVEYOR
REGISTRATION No. 362251
STATE OF UTAH

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

**NBU 921-20D4BS
WELL PLAT**
798' FNL, 698' FWL (Bottom Hole)
NW ¼ NW ¼ OF SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

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

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

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.	SHEET 4 OF 13
DATE DRAWN: 02-25-09	DRAWN BY: K.K.O.	
SCALE: 1" = 1000'		Date Last Revised: 02-27-09

RECEIVED September 08, 2009

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD – NBU 921-20B3CS, NBU 921-20D4CS, NBU 921-20D1CS & NBU 921-20D4BS



BOTTOM HOLE FOOTAGES

NBU 921-20B3CS
1144' FNL, 2612' FEL

NBU 921-20D4CS
1306' FNL, 770' FWL

NBU 921-20D1CS
346' FNL, 720' FWL

NBU 921-20D4BS
798' FNL, 698' FWL

SURFACE POSITION FOOTAGES:

NBU 921-20B3CS
957' FNL, 1312' FWL

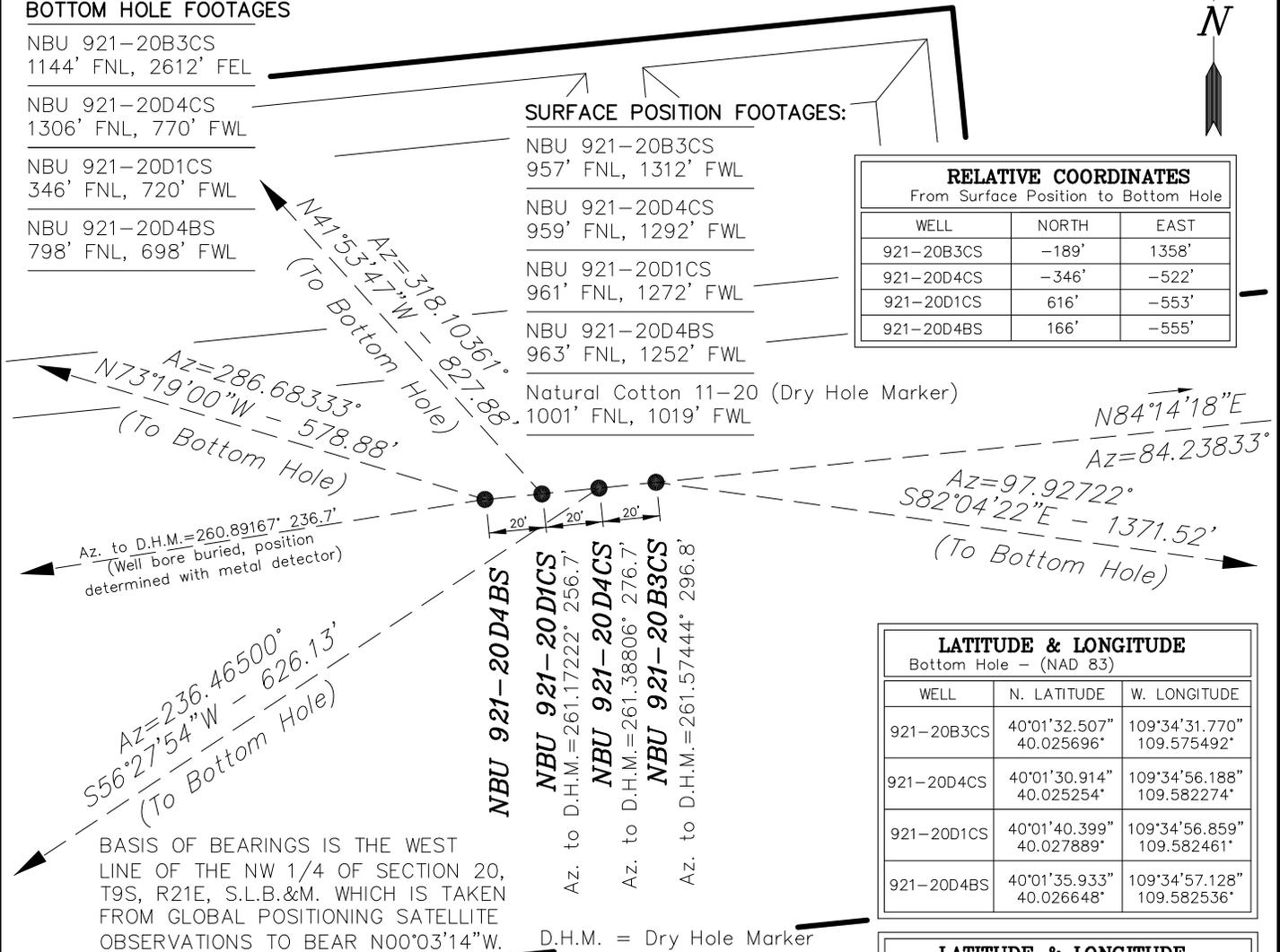
NBU 921-20D4CS
959' FNL, 1292' FWL

NBU 921-20D1CS
961' FNL, 1272' FWL

NBU 921-20D4BS
963' FNL, 1252' FWL

Natural Cotton 11-20 (Dry Hole Marker)
1001' FNL, 1019' FWL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL	NORTH	EAST
921-20B3CS	-189'	1358'
921-20D4CS	-346'	-522'
921-20D1CS	616'	-553'
921-20D4BS	166'	-555'



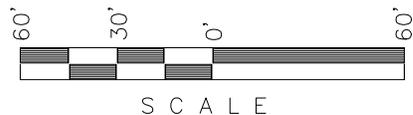
BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 20, T9S, R21E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°03'14"W. D.H.M. = Dry Hole Marker

LATITUDE & LONGITUDE Surface Position – (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'34.359" 40.026211°	109°34'49.230" 109.580342°
921-20D4CS	40°01'34.338" 40.026205°	109°34'49.487" 109.580413°
921-20D1CS	40°01'34.318" 40.026199°	109°34'49.743" 109.580484°
921-20D4BS	40°01'34.299" 40.026194°	109°34'49.999" 109.580555°
Dry Hole Marker Natural Cotton 11-20	40°01'33.925" 40.026090°	109°34'53.002" 109.581390°

LATITUDE & LONGITUDE Surface Position – (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'34.486" 40.026246°	109°34'46.747" 109.579652°
921-20D4CS	40°01'34.466" 40.026240°	109°34'47.003" 109.579723°
921-20D1CS	40°01'34.445" 40.026235°	109°34'47.260" 109.579794°
921-20D4BS	40°01'34.426" 40.026229°	109°34'47.516" 109.579865°
Dry Hole Marker Natural Cotton 11-20	40°01'34.053" 40.026126°	109°34'50.519" 109.580700°

LATITUDE & LONGITUDE Bottom Hole – (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'32.507" 40.025696°	109°34'31.770" 109.575492°
921-20D4CS	40°01'30.914" 40.025254°	109°34'56.188" 109.582274°
921-20D1CS	40°01'40.399" 40.027889°	109°34'56.859" 109.582461°
921-20D4BS	40°01'35.933" 40.026648°	109°34'57.128" 109.582536°

LATITUDE & LONGITUDE Bottom Hole – (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
921-20B3CS	40°01'32.635" 40.025732°	109°34'29.287" 109.574802°
921-20D4CS	40°01'31.041" 40.025289°	109°34'53.704" 109.581585°
921-20D1CS	40°01'40.526" 40.027924°	109°34'54.375" 109.581771°
921-20D4BS	40°01'36.061" 40.026684°	109°34'54.644" 109.581846°

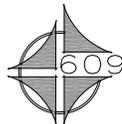


Kerr-McGee

Oil & Gas Onshore, LP

1099 18th Street – Denver, Colorado 80202

NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M. UTAH COUNTY, UTAH.

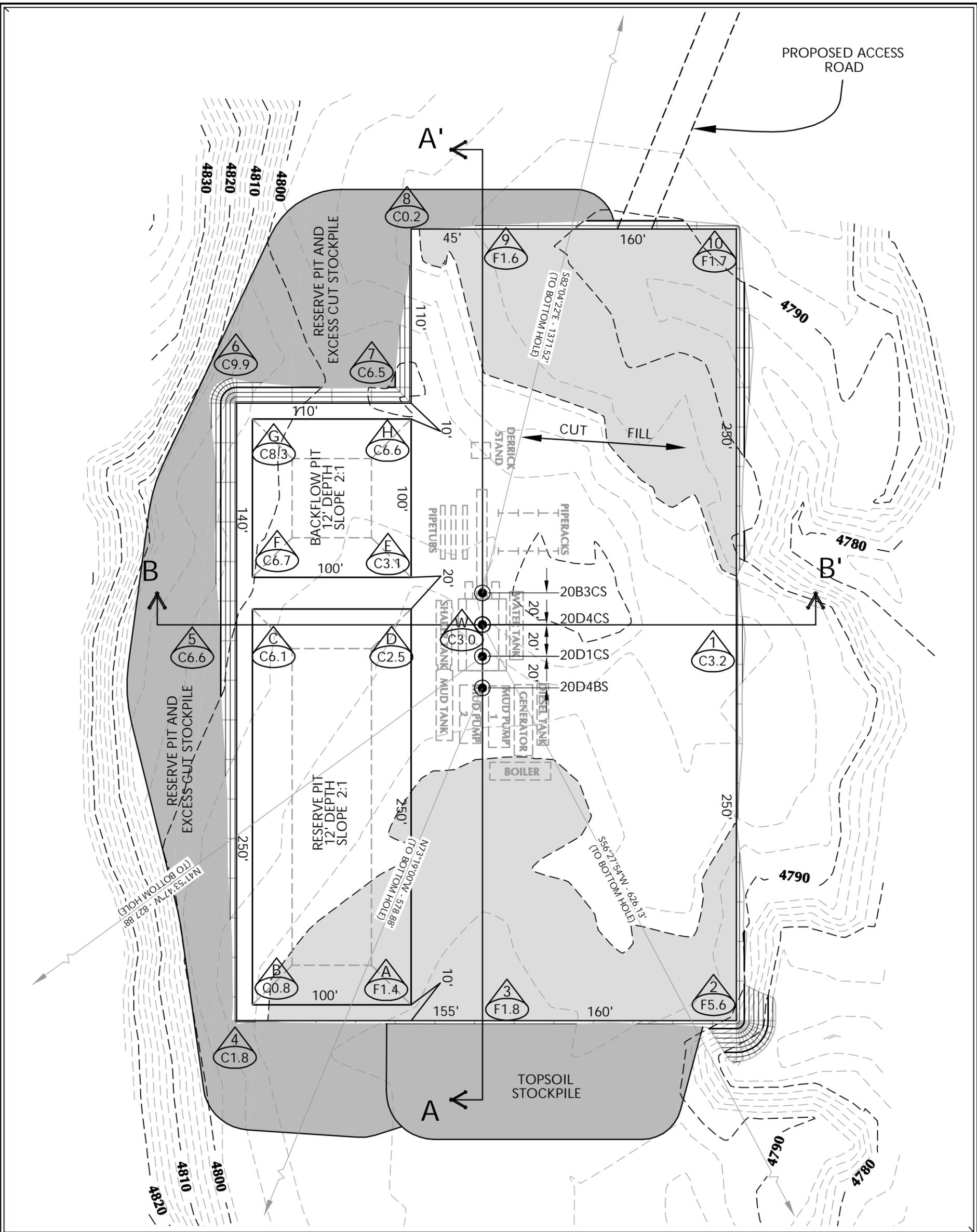


CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

DATE SURVEYED: 01-16-09	SURVEYED BY: M.S.B.
DATE DRAWN: 02-26-09	DRAWN BY: K.K.O.
REVISED:	

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
5
OF 13



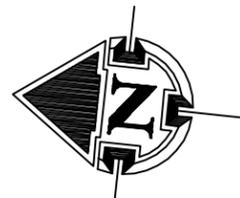
WELL PAD NBU 921-20D QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 4796.4'
 FINISHED GRADE ELEVATION = 4793.4'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 9,912 C.Y.
 TOTAL FILL FOR WELL PAD = 4,910 C.Y.
 TOPSOIL @ 6" DEPTH = 2,886 C.Y.
 EXCESS MATERIAL = 5,002 C.Y.
 TOTAL DISTURBANCE = 3.58 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,730 BARRELS
 RESERVE PIT VOLUME
 +/- 7,720 CY
 BACKFLOW PIT CAPACITY (2' OF FREEBOARD)
 +/- 9,490 BARRELS
 BACKFLOW PIT VOLUME
 +/- 2,660 CY

WELL PAD LEGEND

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



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

**KERR-MCGEE OIL & GAS
 ONSHORE L.P.**

1099 18th Street - Denver, Colorado 80202



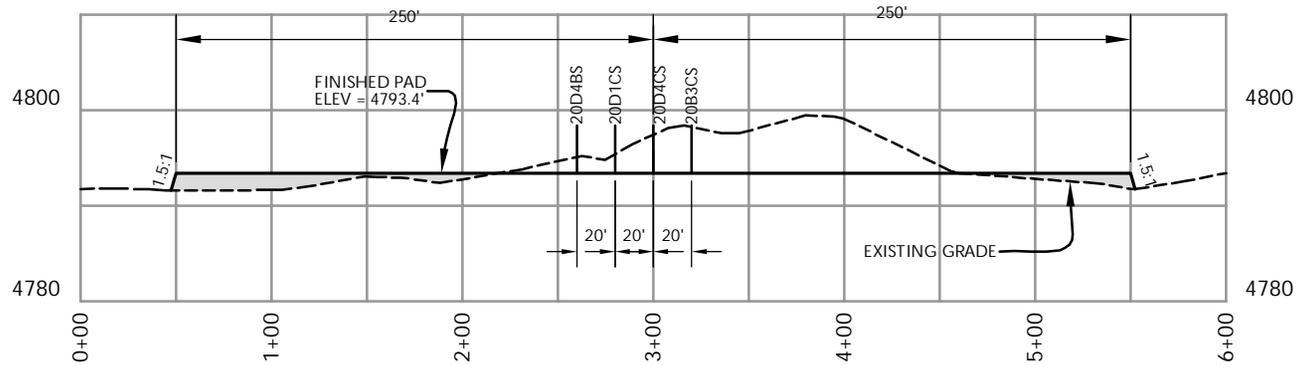
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

WELL PAD - LOCATION LAYOUT
 NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS
 LOCATED IN SECTION 20, T.9S., R.21E.
 S.L.B.&M., UINTAH COUNTY, UTAH

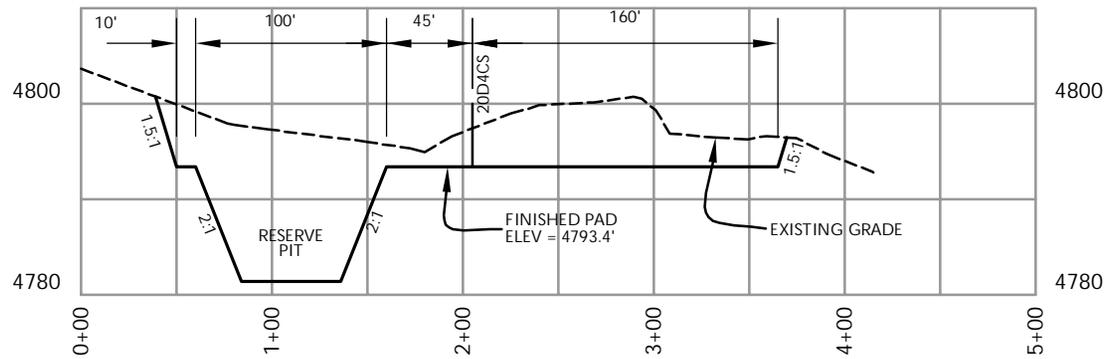
Scale: 1"=60'	Date: 3/17/09	SHEET NO:
REVISED:	RAW 9/01/09	6 6 OF 13

Timberline (435) 789-1365
 Engineering & Land Surveying, Inc.
 38 WEST 100 NORTH VERNAL, UTAH 84078

ANADARKO\2008_27_NEW_Directional_Wells\DWGS\NBU FINAL SEC 18_19_28.dwg, 2009_09_02 09:40:07 AM



CROSS SECTION A-A'



CROSS SECTION B-B'

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

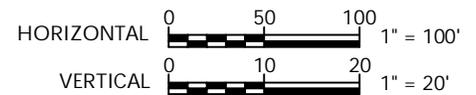
KERR-MCGEE OIL & GAS
ONSHORE L.P.
1099 18th Street - Denver, Colorado 80202

WELL PAD - CROSS SECTIONS
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T.9S., R.21E.
S.L.B.&M., Uintah County, Utah



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

Scale: 1"=100'	Date: 3/17/09	SHEET NO:
REVISED:	RAW 9/01/09	7 7 OF 13



Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
38 WEST 100 NORTH VERNAL, UTAH 84078

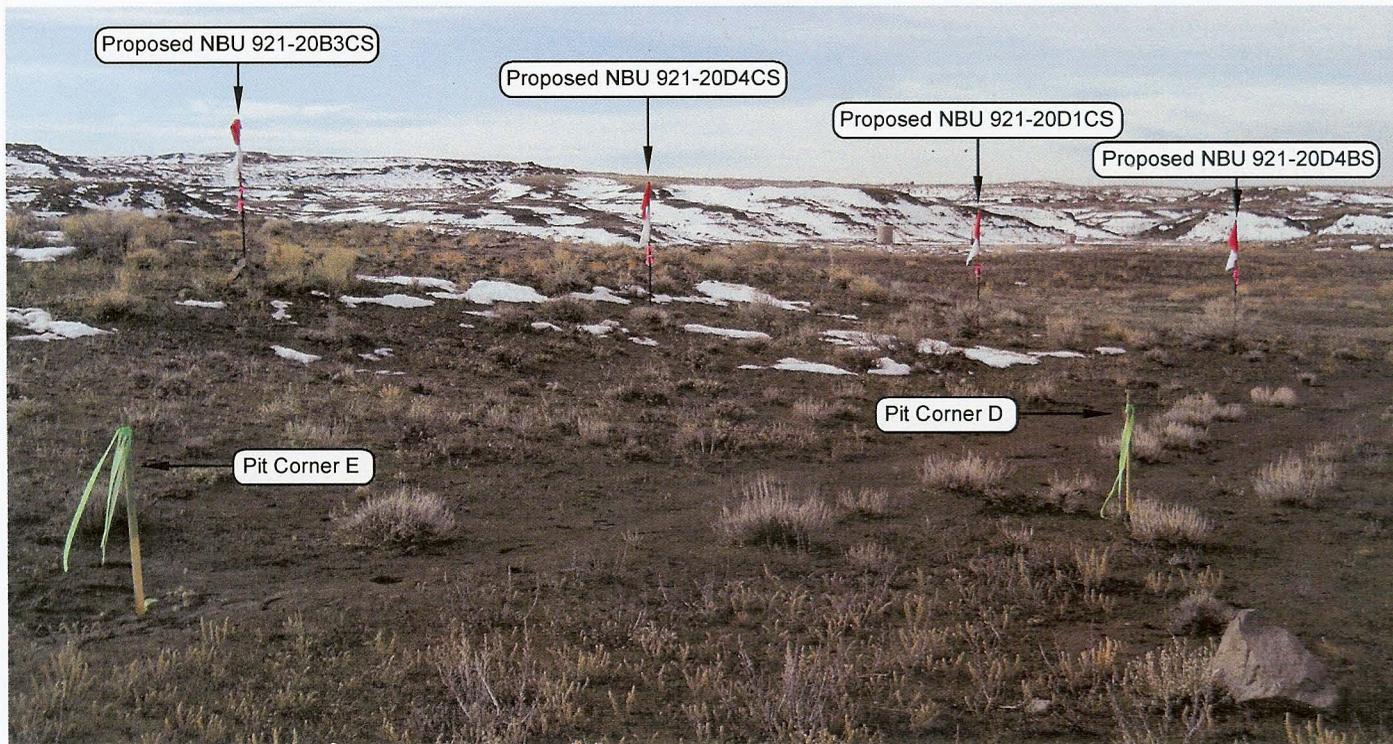


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKES

CAMERA ANGLE: SOUTHERLY

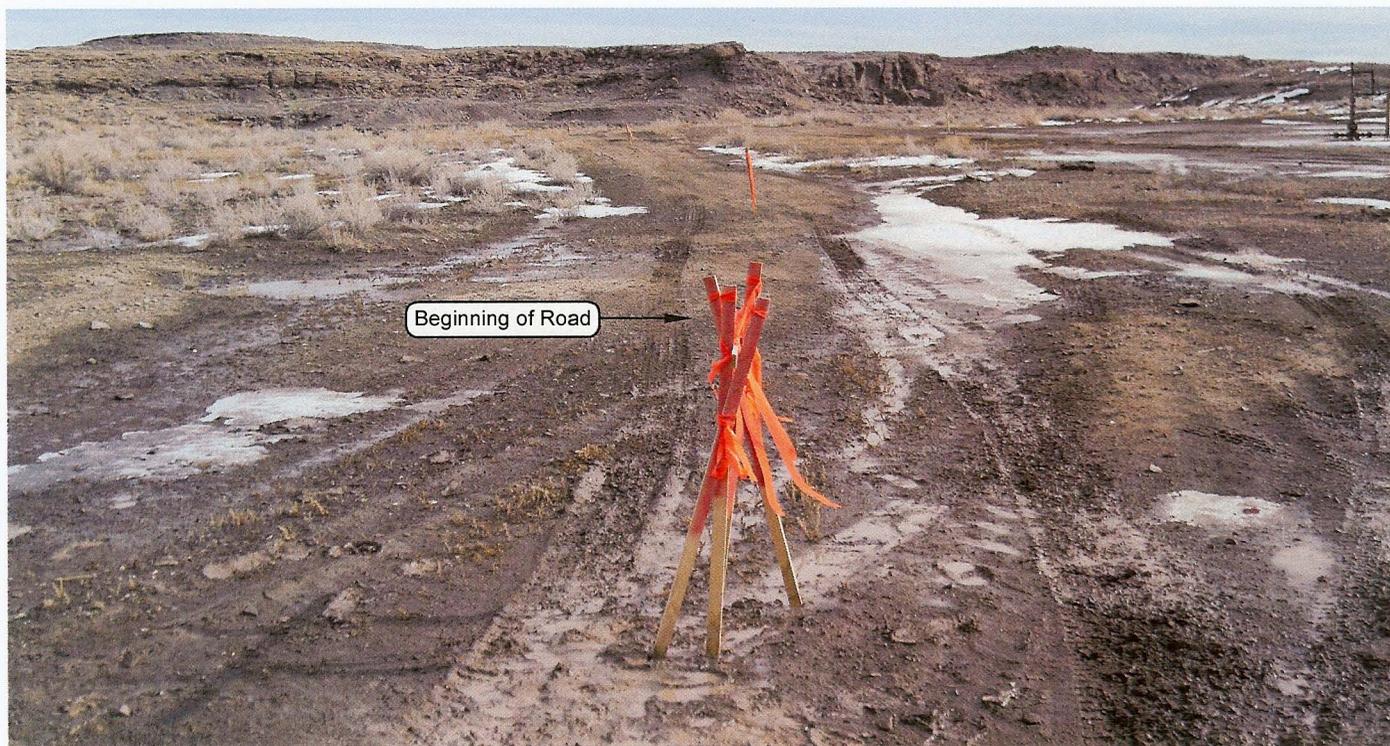


PHOTO VIEW: FROM BEGINNING OF PROPOSED ROAD

CAMERA ANGLE: NORTHEASTERLY

**Kerr-McGee
Oil & Gas Onshore, LP**

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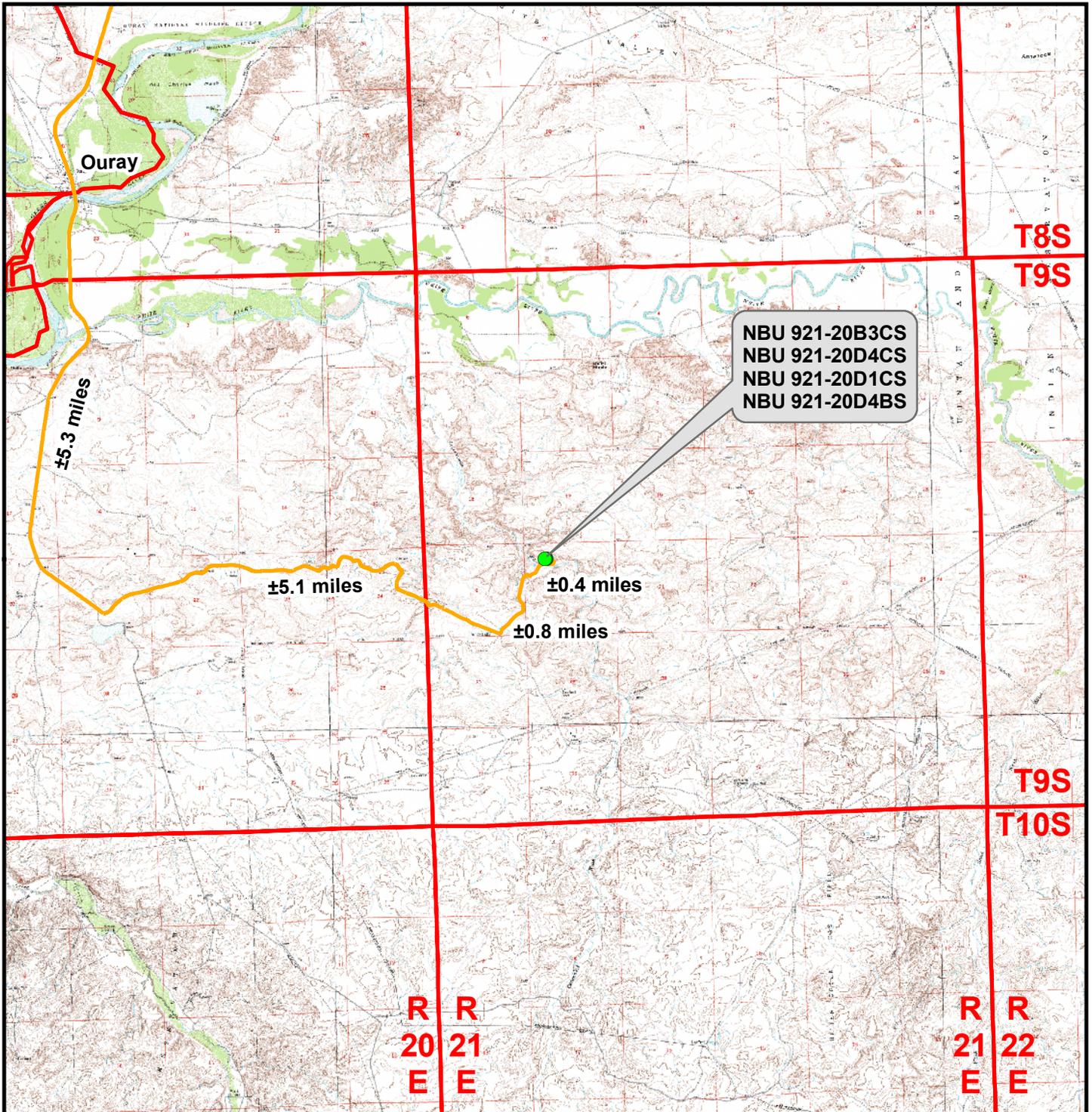
NBU 921-20B3CS, NBU 921-20D4CS,
NBU 921-20D1CS & NBU 921-20D4BS
LOCATED IN SECTION 20, T9S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

LOCATION PHOTOS		DATE TAKEN: 01-16-09
		DATE DRAWN: 02-26-09
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED:

Timberline (435) 789-1365
Engineering & Land Surveying, Inc.
209 NORTH 300 WEST VERNAL, UTAH 84078

SHEET
8
OF 13

RECEIVED September 08, 2009



Legend

- Proposed Well Location
- Access Route - Proposed

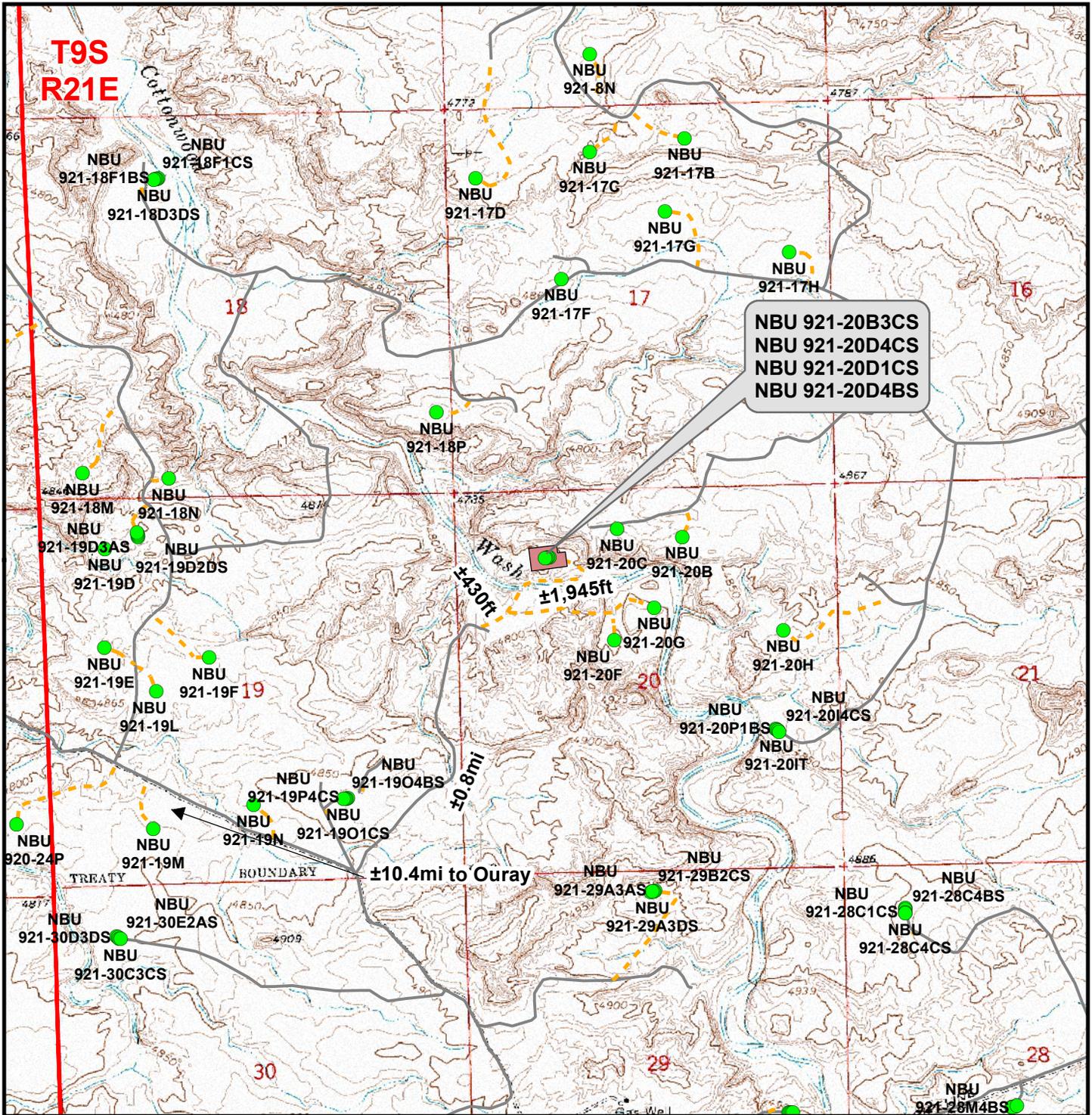
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

**NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS**
 Topo A

**Located In Section 20, T9S, R21E
 S.L.B.&M., Uintah County, Utah**



Scale: 1:100,000	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 24 Feb 2009	9
Revised: TL	Date: 31 Aug 2009	
		9 of 13



NBU 921-20B3CS
 NBU 921-20D4CS
 NBU 921-20D1CS
 NBU 921-20D4BS

Legend

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

Total Proposed Road Length: ±1,945ft

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

**NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS
 Topo B**

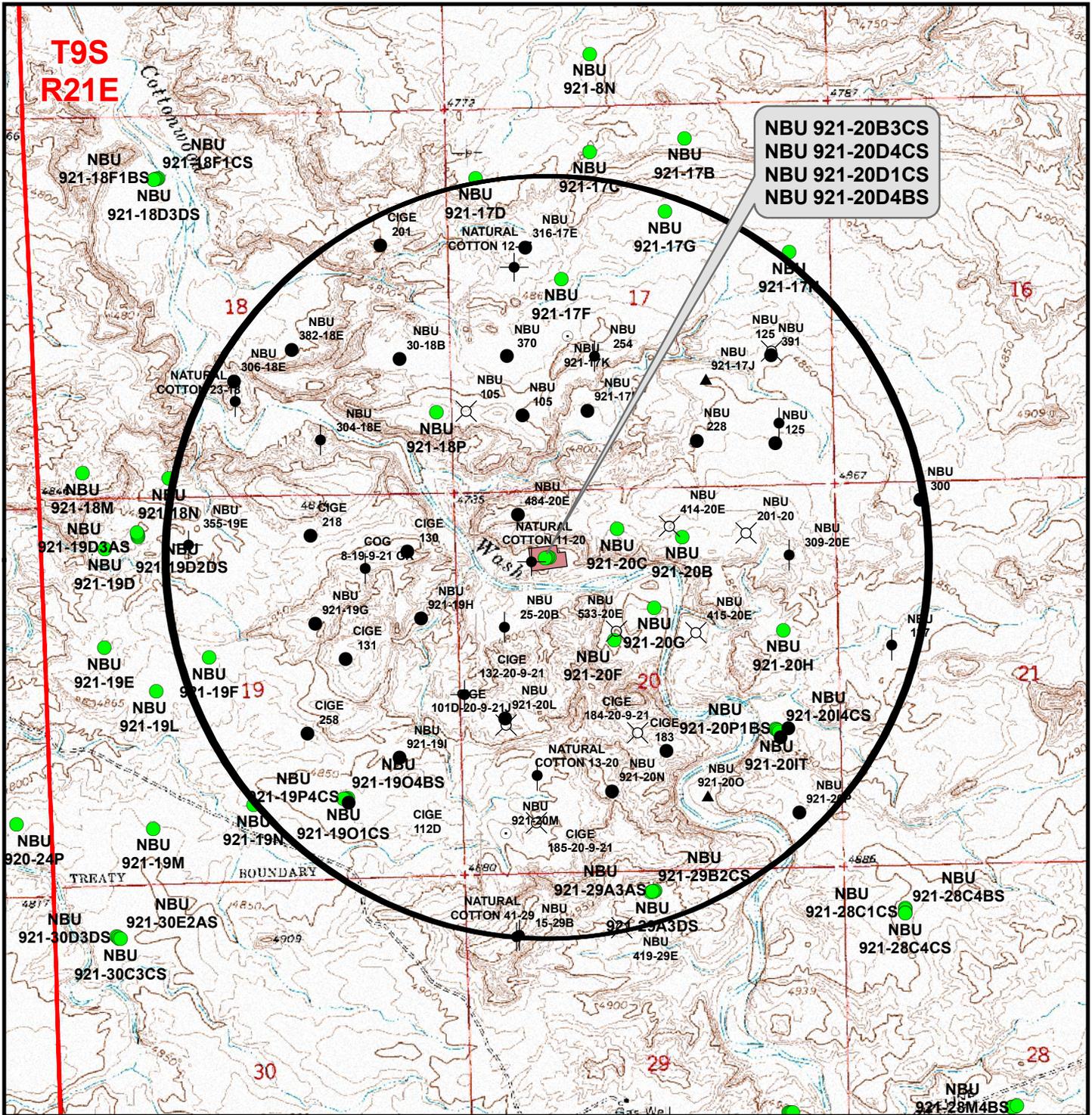
**Located In Section 20, T9S, R21E
 S.L.B.&M., Uintah County, Utah**

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



Scale: 1" = 2,000ft	NAD83 USP Central
Drawn: JELo	Date: 24 Feb 2009
Revised: TL	Date: 31 Aug 2009

Sheet No:
10 10 of 13



NBU 921-20B3CS
 NBU 921-20D4CS
 NBU 921-20D1CS
 NBU 921-20D4BS

Legend

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

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

**NBU 921-20B3CS, NBU 921-20D4CS,
 NBU 921-20D1CS & NBU 921-20D4BS**
 Topo C
 Located In Section 20, T9S, R21E
 S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No:
Drawn: JELO	Date: 24 Feb 2009	11
Revised: TL	Date: 31 Aug 2009	

Kerr-McGee Oil & Gas Onshore, LP
NBU 921-20B3CS NBU 921-20D4CS NBU 921-20D1CS NBU 921-20D4BS
Section 20, T9S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 5.3 MILES TO THE INTERSECTION OF A SERVICE ROAD TO THE EAST. EXIT LEFT AND PROCEED IN A NORTHEASTERLY THEN SOUTHEASTERLY DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 5.1 MILES TO A SECOND SERVICE ROAD TO THE NORTHEAST. EXIT LEFT AND PROCEED IN A NORTH BY NORTHEAST DIRECTION ALONG THE SECOND SERVICE ROAD APPROXIMATELY 0.8 MILES TO THE TO THE PROPOSED ACCESS ROAD. FOLLOW ROAD FLAGS IN A NORTHEASTERLY, THEN EASTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 2,370 FEET TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE WELL LOCATION IS APPROXIMATELY 42.3 MILES IN A SOUTHERLY DIRECTION.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
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 921-20D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	9. API NUMBER: 43047505960000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 8/12/2010	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input checked="" type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

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

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

Date: August 23, 2010

By: 

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/12/2010	



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Request for Permit Extension Validation Well Number 43047505960000

API: 43047505960000

Well Name: NBU 921-20D1CS

Location: 0961 FNL 1272 FWL QTR NWNW SEC 20 TWNP 090S RNG 210E MER S

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

Date Original Permit Issued: 8/11/2009

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

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

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

Signature: Danielle Piernot

Date: 8/12/2010

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

Date: August 23, 2010

By: 

RECEIVED

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

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

JUL 22 2009

BLM

APPLICATION FOR PERMIT TO DRILL OR REENTER

1a. Type of Work: <input checked="" type="checkbox"/> DRILL <input type="checkbox"/> REENTER		5. Lease Serial No. UTU0575
1b. Type of Well: <input type="checkbox"/> Oil Well <input checked="" type="checkbox"/> Gas Well <input type="checkbox"/> Other <input type="checkbox"/> Single Zone <input checked="" type="checkbox"/> Multiple Zone		6. If Indian, Allottee or Tribe Name
2. Name of Operator KERRMCGEE OIL&GAS ONSHORE LP Contact: DANIELLE E PIERNOT Email: Danielle.Piernot@anadarko.com		7. If Unit or CA Agreement, Name and No. 891008900A
3a. Address PO BOX 173779 DENVER, CO 80202-3779		8. Lease Name and Well No. NBU 921-20D1CS
3b. Phone No. (include area code) Ph: 720-929-6156 Fx: 720-929-7156		9. API Well No. 43-047-50596
4. Location of Well (Report location clearly and in accordance with any State requirements.)* At surface NWNW 961FNL 1272FWL 40.02620 N Lat, 109.58048 W Lon At proposed prod. zone NWNW 346FNL 720FWL 40.02789 N Lat, 109.58246 W Lon		10. Field and Pool, or Exploratory NATURAL BUTTES
14. Distance in miles and direction from nearest town or post office* APPROXIMATELY 12 MILES SOUTHEAST OF OURAY, UTAH		11. Sec., T., R., M., or Blk. and Survey or Area Sec 20 T9S R21E Mer SLB
15. Distance from proposed location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any) 346 FEET	16. No. of Acres in Lease 1600.00	12. County or Parish UINTAH
18. Distance from proposed location to nearest well, drilling, completed, applied for, on this lease, ft. APPROXIMATELY 450 FEET	19. Proposed Depth 10477 MD 10350 TVD	13. State UT
21. Elevations (Show whether DF, KB, RT, GL, etc.) 4795 GL	22. Approximate date work will start 08/10/2009	17. Spacing Unit dedicated to this well
		20. BLM/BIA Bond No. on file WYB000291
		23. Estimated duration 60-90 DAYS

24. Attachments

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

- | | |
|---|--|
| 1. Well plat certified by a registered surveyor. | 4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above). |
| 2. A Drilling Plan. | 5. Operator certification |
| 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). | 6. Such other site specific information and/or plans as may be required by the authorized officer. |

25. Signature (Electronic Submission)	Name (Printed/Typed) DANIELLE E PIERNOT Ph: 720-929-6156	Date 07/22/2009
Title REGULATORY ANALYST		
Approved by (Signature)	Name (Printed/Typed) Jerry Kenczka	Date APR 26 2011
Title Assistant Field Manager Lands & Mineral Resources	Office VERNAL FIELD OFFICE	

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

CONDITIONS OF APPROVAL ATTACHED

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

RECEIVED

Additional Operator Remarks (see next page)

MAY 02 2011

Electronic Submission #72405 verified by the BLM Well Information System
For KERRMCGEE OIL&GAS ONSHORE LP, sent to the Vernal DIV. OF OIL, GAS & MINING
Committed to AFMSS for processing by GAIL JENKINS on 07/27/2009 ()

NOTICE OF APPROVAL

NOS and posted 7-27-09

UDOGM

AFMSS#

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

096XJ5475AE

NO NOS



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

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr McGee Oil & Gas Onshore	Location:	NWNW, Sec. 20, T9S, R21E
Well No:	NBU 921-20D1CS	Lease No:	UTU-0575
API No:	43-047-50596	Agreement:	Natural Buttes Unit

OFFICE NUMBER: (435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

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

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

NOTIFICATION REQUIREMENTS

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

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

- All new and replacement internal combustion gas field engines of less than or equal to 300 design-rated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.
- Paint facilities "Shadow Gray."
- Construct a low-water crossing where the access road crosses Cottonwood Was and apply 100-year floodplain standards.
- Obtain a 404 permit from the Army Corps of Engineers prior to burying the new gathering line and an existing pipeline under Cottonwood Wash.
- Construct the new gathering line and bury the existing pipeline according to the BLM's Hydraulic Considerations for Pipeline Crossings of Stream Channels.
- Monitoring by a permitted paleontologist during construction operations.
- Monitoring by a permitted archaeologist during the construction process.
- In accordance with the guidelines specified in the Utah BLM Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002 (See Appendix D), a raptor survey shall be conducted prior to construction of the proposed location, pipeline, or access road if construction will take place during raptor nesting season (January 1 through September 30) and conduct its operations according to specifications in the guidelines.
- If project construction operations are not initiated before June 18, 2010, KMG shall conduct additional biological surveys in accordance with the guidelines specified in the USFWS Rare Plant Conservation Measures for Uinta Basin hookless cactus (See Appendix D) and conduct its operation according to its specifications.

BIA Standard Conditions of Approval:

- Soil erosion will be mitigated by reseeding all disturbed areas.
- The gathering pipelines will be constructed to lie on the surface. The surface pipelines will not be bladed or cleared of vegetation. Where pipelines are constructed parallel to roads they may be welded on the road and then lifted from the road onto the right-of-way. Where pipelines do not

parallel roads but cross-country between sites, they shall be welded in place at well sites or on access roads and then pulled between stations with a suitable piece of equipment. Traffic will be restricted along these areas so that the pipeline right-of-way will not be used as an access road.

- An open drilling system shall be used, unless otherwise specified in 10.0 Additional Stipulations of this document and in the Application for Permit to Drill. A closed drilling system shall be used in all flood plain areas, and other highly sensitive areas, recommended by the Ute Tribe Technician, BIA, and other agencies involved.
- The reserve pit shall be lined with a synthetic leak proof liner. After the drilling operation is complete, excess fluids shall be removed from the reserve pit and either hauled to an approved disposal site or shall be used to drill other wells. When the fluids are removed the pit shall be backfilled a minimum of 3.0' below the soil surface elevation.
- A closed production system shall be used. This means all produced water and oil field fluid wastes shall be contained in leak proof tanks. These fluids shall be disposed of in either approved injection wells or disposal pits.
- Major low water crossings will be armored with pit run material to protect them from erosion.
- All personnel shall refrain from collecting any paleontological fossils and from disturbing any fossil resources in the area.
- If fossils are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.
- Before the site is abandoned the company will be required to restore the right-of-way to near its original state. The disturbed area will be reseeded with desirable perennial vegetation. If necessary, the Bureau of Indian Affairs or Bureau of Land Management will provide a suitable seed mixture.
- Noxious weeds will be controlled on all surface disturbances within the project area. If noxious weeds spread from the project area onto adjoining land, the company will also be responsible for their control.
- If project construction operations are scheduled to occur after December 31, 2009, KMG shall conduct annual raptor surveys in accordance with the guidelines specified in the Utah Field Office Guidelines for Raptor Protection from Human and Land Use Disturbances, 2002. If active raptor nests are identified during a new survey, KMG shall conduct its operations according to the seasonal restrictions detailed in the Uinta basin-specific RMP guidelines and spatial offsets specified by the USFWS Utah Raptor Guidelines (See Appendix D).
- USFWS threatened and endangered plant and animal conservation measures will be followed, as appropriate to the species identified by the biological resource survey (See Appendix D).
- All personnel shall refrain from collecting artifacts and from disturbing any significant cultural resources in the area.
- If artifacts or any culturally sensitive materials are exposed or identified during construction, all construction must cease and immediate notification to the Energy and Minerals Department and the Cultural Rights Protection Officer.

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

SITE SPECIFIC DOWNHOLE COAs:

- A Gama Ray Log shall be run from TD to surface.

Variations Granted:

Air Drilling:

- Properly lubricated and maintained rotating head, variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore, variance granted for blooie line discharge to be 45' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for two truck/trailer mounted air compressors located within 40 feet from the well bore and 60' from the blooie line.
- In lieu of mud products on location, Kerr McGee will fill the reserve pit with water for kill fluid.
- Automatic igniter. Variance granted for igniter due to there being no productive formations while drilling with air.

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

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

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

- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location ($\frac{1}{4}$ $\frac{1}{4}$, 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.

BLM - Vernal Field Office - Notification Form

Operator KERR-McGEE OIL & GAS Rig Name/# BUCKET RIG
 Submitted By ANDY LYTLE Phone Number 720.929.6100
 Well Name/Number NBU 921-20D1CS
 Qtr/Qtr NWNW Section 20 Township 9S Range 21E
 Lease Serial Number UTU0575
 API Number 4304750596

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

Date/Time 05/19/2011 10:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

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MAY 18 2011

DIV. OF OIL, GAS & MINING

Date/Time 06/05/2011 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 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: UTU 0575
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505960000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 5/19/2011 <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input 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 style="width: 100px;" type="text"/>		
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'. RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL ON 05/19/2011 AT 1200 HRS.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 5/20/2011	

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 0575
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505960000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/2/2011	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE <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"/> WILDCAT WELL DETERMINATION <input type="checkbox"/> OTHER	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. MIRU AIR RIG ON MAY 31, 2011. DRILLED SURFACE HOLE TO 2830'. RAN SURFACE CASING AND CEMENTED. WELL IS WAITING ON ROTARY RIG. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH WELL COMPLETION REPORT.		
Accepted by the Utah Division of Oil, Gas and Mining		FOR RECORD ONLY
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/3/2011	

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078 Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750597	NBU 921-20D4BS		NWNW	20	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	5/19/2011			<i>5/31/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 05/19/2011 AT 0900 HRS <i>BHL = NWNW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750596	NBU 921-20D1CS		NWNW	20	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	5/19/2011			<i>5/31/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 05/19/2011 AT 1200 HRS <i>BHL = NWNW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750598	NBU 921-20D4CS		NWNW	20	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	5/19/2011			<i>5/31/11</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSTMVD</i> SPUD WELL ON 05/19/2011 AT 1500 HRS. <i>BHL = NWNW</i>							

ACTION CODES:

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

SHEILA WOPSOCK

Name (Please Print)

Signature

REGULATORY ANALYST

Title

5/20/2011

Date

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MAY 23 2011

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 0575
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505960000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/2/2011	<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 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 style="width: 100px;" type="text"/>	
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
MIRU ROTARY RIG. FINISHED DRILLING FROM 2830' TO 10,440' ON JUNE 30, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED H&P RIG 298 ON JULY 2, 2011 @ 12:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY		
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/12/2011	

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 0575
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: Ute Tr
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-20D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047505960000	
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0961 FNL 1272 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 20 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 type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 9/16/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER
		OTHER: <input 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 09/16/2011 AT 2:15 PM. 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		
NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 9/19/2011	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU0575

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

6. If Indian, Allottee or Tribe Name

7. Unit or CA Agreement Name and No.
UTU63047A

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE
 Contact: JAIME L. SCHARNOWSKE
 Email: JAIME.SCHARNOWSKE@ANADARKO.COM

8. Lease Name and Well No.
NBU 921-20D1CS

3. Address PO BOX 173779
DENVER, CO 80217
 3a. Phone No. (include area code)
Ph: 720-929-6304

9. API Well No.
43-047-50596

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NWNW 961FNL 1272FWL 40.026235 N Lat, 109.579794 W Lon
 At top prod interval reported below NWNW 352FNL 739FWL
 At total depth NWNW 337FNL 710FWL

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 20 T9S R21E Mer S1B

12. County or Parish
UINTAH
 13. State
UT

14. Date Spudded
05/19/2011
 15. Date T.D. Reached
06/30/2011
 16. Date Completed
 D & A Ready to Prod.
09/16/2011

17. Elevations (DF, KB, RT, GL)*
4793 GL

18. Total Depth: MD 10440 TVD 10392
 19. Plug Back T.D.: MD 10386 TVD 10338
 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
BHV-SD/DSN/ACTR-SCBL
 22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

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

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sk. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STL	36.7	0	40		28			
12.250	9.625 J-55	40.0	0	2814		550		0	
7.875	4.500 P-110	11.6	0	10431		2012		400	

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	9546							

25. Producing Intervals

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	7586	7846	7586 TO 7846	0.360	40	OPEN
B) MESAVERDE	8008	10035	8008 TO 10035	0.360	151	OPEN
C)						
D)						

26. Perforation Record

Depth Interval	Amount and Type of Material
7586 TO 10035	PUMP 8,540 BBLs SLICK H2O & 177,502 LBS 30/50 OTTAWA SAND

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

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
09/16/2011	09/22/2011	24	→	0.0	2807.0	480.0			FLOWS FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1671	2510.0	→	0	2807	480		PGW	

28a. Production - Interval B

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

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NOV 15 2011

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 1946 2322 5073 8007

32. Additional remarks (include plugging procedure):
Attached is the chronological well history, perforation report & final survey.

33. Circle enclosed attachments:

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

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

**Electronic Submission #122504 Verified by the BLM Well Information System.
For KERR MCGEE OIL & GAS ONSHORE,L, sent to the Vernal**

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

Signature _____ (Electronic Submission) Date 11/08/2011

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.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE	Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH	Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING	Start Date: 6/24/2011	End Date: 7/2/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NWNW09/S/21/E/20/O/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/31/2011	4:00 - 7:00	3.00	DRLSUR	01	E	P		RIG DOWN AND PREPARE FOR RIG SKID
	7:00 - 10:30	3.50	DRLSUR	01	C	P		SKID RIG TO WELL # 2/4 NBU 921-20D1CS
	10:30 - 12:30	2.00	DRLSUR	14	A	P		WELD ON RISER AND RIG UP FLOW LINE
	12:30 - 13:00	0.50	DRLSUR	06	A	P		PICK UP NEW MUD MOTOR AND 12.25" BIT
	13:00 - 14:30	1.50	DRLSUR	02	C	P		SPUD WELL WITH 12.25" BIT DRILL F/ 40' - 227' WOB 8-20 ROT 45-55 DHR 96 GPM 600
	14:30 - 16:30	2.00	DRLSUR	06	A	P		TOOH PICK UP DIRECTIONAL TOOLS AND INSTALL MWD TOOL ORIENT TO MUD MOTOR AND TIH
	16:30 - 0:00	7.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 227' - 1204' AVE ROP 130 FT HR WOB 220-22 ROT 45-55 DHR 96 GPM 600 LAST SURVEY 8.09 DEG 319.44 AZI NO LOSSES
6/1/2011	0:00 - 16:00	16.00	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 1204' - 2584' AVE ROP 86 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES LAST SURVEY 6.16 DEG 322.87 AZI DAILY RIG SERVICE
	16:00 - 16:30	0.50	DRLSUR	07	A	P		
	16:30 - 19:00	2.50	DRLSUR	02	C	P		DRILL 12.25" HOLE F/ 2584' - 2830' T.D. AVE ROP 86 FT HR WOB 20-22 ROT 45-55 DHR 96 GPM 600 NO LOSSES LAST SURVEY 6.77 DEG 311.27 AZI
	19:00 - 21:00	2.00	DRLSUR	05	C	P		CIRCULATE AND CONDITION MUD PRIOR TO LDDS
	21:00 - 0:00	3.00	DRLSUR	06	A	P		TOOH LAYING DOWN DRILL STRING L.D MUD MOTOR, BIT, AND ALL DIRECTIONAL TOOLS
6/2/2011	0:00 - 1:00	1.00	DRLSUR	06	A	P		FINISH LDDS BREAK BIT AND MOTOR L/D DIRECTIONAL TOOLS
	1:00 - 4:00	3.00	DRLSUR	12	C	P		RIG UP ANDRUN 65 JOITS 9 5/8 40# J55 SURFACE CASING SHOE AT 2797' BAFFLE AT 2754'
	4:00 - 6:00	2.00	DRLSUR	12	E	P		HOLD SAFETY MEETING W/ SUPERIOR WELL SERVICES CEMENTERS. INSTALL CEMENT HEAD ON TOP OF LANDING JT. PRESSURE TEST LINE TO 2000 PSI. PUMP 50 BBLs OF WATER AHEAD, PUMP 20 BBLs OF GEL WATER. PUMP 225 SX OF 11#, 3.52 YD, 23 GAL/SK HI FILL LEAD, PUMP 225 SX OF 15.8# 1.15 YD, 5 GAL/SK TAIL PREM. CLASS G CEMENT. DROP PLUG ON FLY, DISPLACE W/ 213 BBLs OF WATER. 490 PSI OF LIFT @ 2 BBLs/MIN RATE. 27 BBLs OF LEAD TO SURFACE. BUMP PLUG W/ 900 PSI. FLOAT HELD.
	6:00 - 6:30	0.50	DRLSUR	14	A	P		CUT CONDUCTOR AND HANG OFF CASING RIG DOWN FLOW LINE
	6:30 - 7:00	0.50	DRLSUR	12	E	P		RUN 160' OF 1" PIPE PUMP 100 SX OF 15.8# PREMIUM 3% CALC CEMENT DOWN 1" DOWN BACK SIDE. CEMENT FELL, WAIT TILL NEXT JOB TO TOP OUT. RELEASE RIG @ 0700 6-2-2011

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/24/2011	End Date: 7/2/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NWNW/0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 7:00	0.00	DRLSUR					<p>CONDUCTOR CASING: Cond. Depth set:40 Cement sx used:28</p> <p>SPUD DATE/TIME:5/31/2011 13:00</p> <p>SURFACE HOLE: Surface From depth:40 Surface To depth:2,830 Total SURFACE hours:28.00 Surface Casing size:9-5/8" # of casing joints ran:65 Casing set MD:2,797.0 # sx of cement:225/225/100 Cement blend (ppg):11/15.8/15/8 Cement yield (ft3/sk):3.82/1.15/1.15 # of bbls to surface:35 Describe cement issues: NONE Describe hole issues:NONE</p>
6/24/2011	6:00 - 7:00	1.00	MIRU	01	C	P		SKID & CENTER RIG OVER WELL
	7:00 - 7:30	0.50	MIRU	01	B	P		RU RT
	7:30 - 8:00	0.50	PRPSPD	14	A	P		NU BOP'S & EQUIPMENT
	8:00 - 8:30	0.50	PRPSPD	01	B	P		RU DRILL FLOOR
	8:30 - 9:00	0.50	PRPSPD	15	A	P		TEST CSG TO 1500 PSI
	9:00 - 13:00	4.00	PRPSPD	15	A	P		TEST BOP & EQUIPMENT AS PER PROGRAM 250 PSI LOW / 5000 PSI HIGH / ANNULAR 2500 HIGH
	13:00 - 13:30	0.50	PRPSPD	14	B	P		INSTALL WEAR BUSHING
	13:30 - 14:00	0.50	PRPSPD	23		P		PRE SPUD MTG & INSPECTION
	14:00 - 15:00	1.00	PRPSPD	06	A	P		PU & MU DIRECTIONAL BHA # 1 SCRIBE ORIENTATE & TEST SAME
	15:00 - 16:30	1.50	PRPSPD	06	A	P		TIH W/ BHA # 1 TO 2,705' TAG CMT
	16:30 - 18:00	1.50	PRPSPD	09	A	P		SLIP & CUT 90' DRILL LINE
	18:00 - 18:30	0.50	PRPSPD	07	A	P		SERVICE RIG
	18:30 - 19:30	1.00	PRPSPD	02	F	P		DRILL CMT & SHOE TRACK OUT F/ 2,705' TO 2,823' / CLEAN RATHOLE OUT TO 2,856'
	19:30 - 0:00	4.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/2,856 TO 3,380' = 524' @ 116.44 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1800 PSI / MUD MOTOR RPM 114 / PU/SO/ROT WT 115/105/95 TORQUE ON/OFF BOTTOM 6K/3K / SLIDE 80' IN 50 MIN 13% OF FOOTAGE DRILLED 11% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
6/25/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/3,380' TO 4,216' = 836' @ 139.334 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2150/1800 PSI / MUD MOTOR RPM 114 / PU/SO/ROT WT 115/105/95 TORQUE ON/OFF BOTTOM 6K/3K / SLIDE 82' IN 65 MIN 10% OF FOOTAGE DRILLED 18% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/24/2011	End Date: 7/2/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NWNW09/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 16:00	10.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 4,216' TO 5,256' = 1,040' @ 104 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2100/1800 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 145/125/135 TORQUE ON/OFF BOTTOM 9K/5K / SLIDE 209' IN 125 MIN 20% OF FOOTAGE DRILLED 21% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
	16:00 - 16:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 5,256'
	16:30 - 0:00	7.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 5,256' TO 6,202' = 946' @ 126.13 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2150 PSI / MUD MOTOR RPM 114 / PU/SO/ROT WT 155/140/125 TORQUE ON/OFF BOTTOM 8K/6K / SLIDE 61' IN 50 MIN 6% OF FOOTAGE DRILLED 11% OF HRS DRILLED H2O + POLYMER W/ WEIGHTED SWEEPS +/- 2.0 PPG
6/26/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 6,202' TO 6,798' = 596' @ 99.33 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 120 SPM = 540 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2150 PSI / MUD MOTOR RPM 114 / PU/SO/ROT WT 155/140/125 TORQUE ON/OFF BOTTOM 8K/6K / SLIDE 40' IN 50 MIN 7% OF FOOTAGE DRILLED 14% OF HRS DRILLED MUD UP @ 6,700' DUE TO TORQUE & SPLINTERING SHALE
	6:00 - 14:00	8.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 6,798' TO 7,144' = 346' @ 43.25 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2450/2150 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 190/140/160 TORQUE ON/OFF BOTTOM 10K/6K / SLIDE 64' IN 180 MIN 13% OF FOOTAGE DRILLED 36% OF HRS DRILLED / MUD WT 9.4 PPG / VIS 34
	14:00 - 14:30	0.50	DRLPRO	07	A	P		SERVICE RIG @ 7,144'
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 7,144' TO 7,524' = 380' @ 40 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2325 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 190/145/165 TORQUE ON/OFF BOTTOM 8K/6K / SLIDE 18' IN 15 MIN 4% OF FOOTAGE DRILLED 2% OF HRS DRILLED / MUD WT 9.5 PPG / VIS 34
6/27/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 7,524' TO 7,711' = 187' @ 31.16 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2325 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 195/145/170 TORQUE ON/OFF BOTTOM 8K/6K / SLIDE 18' IN 15 MIN 4% OF FOOTAGE DRILLED 2% OF HRS DRILLED / MUD WT 10.2 PPG / VIS 34

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011		Spud Date: 5/31/2011	
Project: UTAH-UINTAH		Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310	
Event: DRILLING		Start Date: 6/24/2011		End Date: 7/2/2011	
Active Datum: RKB @4,819.01ft (above Mean Sea Level)			UWI: NWNW/09/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:00 - 14:30	8.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 7,711' TO 7,996' = 285' @ 33.52 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2325 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 198/147/176 TORQUE ON/OFF BOTTOM 8K/7K / SLIDE 18' IN 20 MIN 8% OF FOOTAGE DRILLED 2% OF HRS DRILLED / MUD WT 10.4 PPG / VIS 35 / 40 BBL MUD LOSE RIG SERVICE & MAINTENANCE ON TDS BLOWER @ 7,996'
	14:30 - 15:30	1.00	DRLPRO	07	A	P		
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 7,996' TO 8,305' = 309' @ 36.35 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2325 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 198/147/176 TORQUE ON/OFF BOTTOM 11K/10K / SLIDE 18' IN 30 MIN 5% OF FOOTAGE DRILLED 5% OF HRS DRILLED / MUD WT 10.4 PPG / VIS 36
6/28/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 8,305' TO 8,574' = 269' @ 45 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2500/2325 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 198/147/176 TORQUE ON/OFF BOTTOM 11K/10K / SLIDE 0' IN 0 MIN 0% OF FOOTAGE DRILLED 0% OF HRS DRILLED / MUD WT 10.4 PPG / VIS 36
	6:00 - 16:30	10.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 8,574' TO 9,036' = 462' @ 44 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2750/2525 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 230/160/190 TORQUE ON/OFF BOTTOM 11K/10K / SLIDE 0' IN 0 MIN 0% OF FOOTAGE DRILLED 0% OF HRS DRILLED / MUD WT 11.1 PPG / VIS 36 15 TO 30' FLARE MUD CUT 3/10'S SERVICE RIG @ 9,036'
	16:30 - 17:00	0.50	DRLPRO	07	A	P		
	17:00 - 0:00	7.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 9,036' TO 9,360' = 324' @ 46.28 FPH // WOB 15K-20K / TOP DRIVE RPM 40-60 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2900/2700 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 225/160/190 TORQUE ON/OFF BOTTOM 11K/10K / SLIDE 0' IN 0 MIN 0% OF FOOTAGE DRILLED 0% OF HRS DRILLED / MUD WT 11.8 PPG / VIS 38 5 TO 15' FLARE 2/10'S MUD CUT
6/29/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 9,360' TO 9,694' = 389' @ 35.36 FPH // WOB 15K-22K / TOP DRIVE RPM 40-50 / PUMP 110 SPM = 495 GPM / PUMP PRESSURE ON/OFF BOTTOM 2900/2700 PSI / MUD MOTOR RPM 104 / PU/SO/ROT WT 232/175/195 TORQUE ON/OFF BOTTOM 11K/10K / MUD WT 12.3 PPG / VIS 42 / 25 BBL MUD LOSE
	11:00 - 11:30	0.50	DRLPRO	05	C	P		CIRC BTM'S UP @ 9,694 FOR BIT & MTR TRIP
	11:30 - 17:00	5.50	DRLPRO	06	A	P		TOOH F/ BIT & MTR F/ 9,694' TO BIT / FUNCTION BOP'S / BOP TRIP DRILL
	17:00 - 18:00	1.00	DRLPRO	06	A	P		C/O BIT & MUD MTR AND BATTERY IN MWD

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/24/2011	End Date: 7/2/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NWNW0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/30/2011	18:00 - 19:30	1.50	DRLPRO	06	A	P		TIH W/ BHA # 2 TO 2,850'
	19:30 - 20:30	1.00	DRLPRO	07	B	P		LEVEL DRK / SERVICE RIG/ INSTALL ROTATING RUBBER
	20:30 - 0:00	3.50	DRLPRO	06	A	P		TIH F/ 2,850' TO 9,514' (REAM TIGHT HOLE @ 6,475')
	0:00 - 0:30	0.50	DRLPRO	03	D	P		WASH & REAM F/ 9,514' TO 9,694' (11' FILL) 60 BBL MUD LOSE
	0:30 - 6:00	5.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 9,694' TO 9,930' = 236' @ 43 FPH // WOB 15K-22K / TOP DRIVE RPM 40-50 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2400/2100 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 240/180/200 TORQUE ON/OFF BOTTOM 12K/10K / MUD WT 12.4 PPG / VIS 44 / 15 BBL MUD LOSE / 15% LCM
	6:00 - 13:30	7.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/ 9,930' TO 10,357' = 427' @ 57 FPH // WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2550/2250 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 240/180/200 TORQUE ON/OFF BOTTOM 12K/10K / MUD WT 12.5 PPG / VIS 44 / 20 BBL MUD LOSE / 15% LCM
	13:30 - 14:00	0.50	DRLPRO	07	A	P		SERVICE RIG @ 10,440'
	14:00 - 15:30	1.50	DRLPRO	02	D	P		DRILL/ SLIDE/ SURVEY F/10,357' TO 10,440' TD = 83' @ 55.33 FPH // WOB 18K-23K / TOP DRIVE RPM 40-50 / PUMP 100 SPM = 450 GPM / PUMP PRESSURE ON/OFF BOTTOM 2600/2550 PSI / MUD MOTOR RPM 72 / PU/SO/ROT WT 245/190/210 TORQUE ON/OFF BOTTOM 12K/10K / MUD WT 12.6 PPG / VIS 44 / NO MUD LOSE / 15% LCM
	15:30 - 17:30	2.00	DRLPRO	05	C	P		CIRC & COND MUD @ 10,440' TD
	17:30 - 21:30	4.00	DRLPRO	06	E	P		WIPER TRIP F/ 10,440' TO 2,823' W/ NO PROBLEMS
7/1/2011	21:30 - 22:00	0.50	DRLPRO	06	E	P		FLOW CHECK & MONITOR WELL - OK
	22:00 - 0:00	2.00	DRLPRO	06	E	P		TIH F/ 2,823' TO 6,400' / BRK CIRC @ 2,823' & 5,000'
	0:00 - 2:30	2.50	DRLPRO	06	E	P		TIH F/ 6,400' TO 9,900' WORK & WIPE OUT TIGHT HOLE @ 6,450' & 7,800'
	2:30 - 3:00	0.50	DRLPRO	03	D	P		WASH & REAM F/ 9,900' TO 10,440' W/ NO PROBLEMS
	3:00 - 5:00	2.00	DRLPRO	05	C	P		CIRC & COND MUD @ 10,440' TD / NO MUD CUT OR FLARE ON BTM'S UP
	5:00 - 6:00	1.00	DRLPRO	06	A	P		BACKREAM F/ 10,440' TO 9,900'
	6:00 - 11:30	5.50	DRLPRO	06	A	P		TOOH F/ 9,900' TO BIT / LD BIT & MUD MTR
	11:30 - 12:00	0.50	DRLPRO	07	A	P		SERVICE RIG
	12:00 - 18:30	6.50	DRLPRO	11	D	P		PJSM / RU & RUN TRIPPLE COMBO W/ HALLIBURTON F/ 10,409' TO 200' LOGGERS DEPTH 10,440' DRILLERS DEPTH 10,440'
	18:30 - 19:00	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING
7/2/2011	19:00 - 20:30	1.50	DRLPRO	12	A	P		PJSM / RU WEATHERFORD TRS CSG EQUIPMENT
	20:30 - 0:00	3.50	DRLPRO	12	C	P		RUN 22 JTS OF 4 1/2" 11.60 P-110 BTC CSG & 80 JTS OF I-80 BTC CSG TO 4,257'
	0:00 - 4:30	4.50	COMP	12	C	P		CONT. TO RUN 4 1/2" PROD CSG TO 10,431' FLOAT COLLAR @ 10,384' WASATCH MARKER @ 5060' & Mverede mMarker @ 8,113' TOTAL JTS RAN 248 W/ NO PROBLEMS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011		Spud Date: 5/31/2011	
Project: UTAH-UINTAH		Site: NBU 921-20D PAD		Rig Name No: H&P 298/298, CAPSTAR 310/310	
Event: DRILLING		Start Date: 6/24/2011		End Date: 7/2/2011	
Active Datum: RKB @4,819.01ft (above Mean Sea Level)			UWI: NWNW09/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	4:30 - 5:30	1.00	COMP	05	A	P		CIRC BTM'S UP @ 10,431'
	5:30 - 9:30	4.00	COMP	12	E	P		PJSM/ TEST SURFACE EQUIPMENT TO 4500 PSI / PUMP 40 BBL WATER FOLLOWED W/ 722 SKS @12.6 PPG PREM LITE 173.5 BBL H2O (10.09 gal/sx, 1.93 yield) +1290 SX TAIL @ 14.3 ppg (CLS G 50/50 POZ 181.2 BBLS H2O / (5.90 gal/sx, 1.31 yield) / DROP PLUG & DISPLACE W/ 161 BBLS H2O + ADDITIVES / PLUG DOWN @ 08:27 LIFT PRESSURE @ 2951 PSI / BUMP PRESSURE @ 3662 PSI W/ 3 BBLCMT BACK TO PIT / FLOATS HELD W/ 2 BBLS H2O RETURNED TO INVENTORY / LOST RETURNS 158 BBLS INTO DISPLACEMENT / TOP OF TAIL CEMENT CALCULATED @ 4600', RD CMT EQUIPMENT
	9:30 - 10:30	1.00	COMP	14	A	P		ND BOP'S / SET SLIPS W/ 100K/ CUT OFF CSG & LD SAME
	10:30 - 12:00	1.50	COMP	01	E	P		CLEAN PITS & PREPARE TO SKID RIG/ RELEASE RIG @ 12:00 7/2/11

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: H&P 298/298, CAPSTAR 310/310
Event: DRILLING		Start Date: 6/24/2011	End Date: 7/2/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	12:00 - 12:00	0.00	COMP					<p>CONDUCTOR CASING: Cond. Depth set:40 Cement sx used:28</p> <p>SPUD DATE/TIME:5/31/2011 13:00</p> <p>SURFACE HOLE: Surface From depth:40 Surface To depth:2,830 Total SURFACE hours:28.00 Surface Casing size:9-5/8" # of casing joints ran:65 Casing set MD:2,797.0 # sx of cement:225/225/100 Cement blend (ppg):11/15.8/15/8 Cement yield (ft3/sk):3.82/1.15/1.15 # of bbbs to surface:35 Describe cement issues: NONE Describe hole issues:NONE</p> <p>PRODUCTION: Rig Move/Skid start date/time:6/24/2011 6:00 Rig Move/Skid finish date/time:6/24/2011 7:30 Total MOVE hours:1.5 Prod Rig Spud date/time:6/24/2011 19:30 Rig Release date/time:7/2/2011 12:00 Total SPUD to RR hours:184.5 Planned depth MD10,426 Planned depth TVD10379 Actual MD:10,440 Actual TVD:10,392 Open Wells \$: AFE \$ Open wells \$/ft:</p> <p>PRODUCTION HOLE: Prod. From depth:2856 Prod. To depth:10,440 Total PROD hours: 123.5 Log Depth:10,440 Production Casing size:4 1/2 # of casing joints ran:248 Casing set MD:10,431.0 # sx of cement:2,012 Cement blend (ppg):12.6/14.3 Cement yield (ft3/sk):1.93/14.3 Est. TOC (Lead & Tail) or 2 Stage :4600 Describe cement issues:3 BBL CMT BACK TO PITS LOST RETURNS 158 BBL INTO DISPLACEMENT Describe hole issues:GOOD</p> <p>DIRECTIONAL INFO:DIRECTIONAL KOP:271 Max angle:8.62 Departure:275.00 Max dogleg MD:1.59 / 1314</p>

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-20D1CS BLUE	Wellbore No.	OH
Well Name	NBU 921-20D1CS	Wellbore Name	NBU 921-20D1CS
Report No.	1	Report Date	9/9/2011
Project	UTAH-UINTAH	Site	NBU 921-20D PAD
Rig Name/No.		Event	COMPLETION
Start Date	9/9/2011	End Date	9/16/2011
Spud Date	5/31/2011	Active Datum	RKB @4,819.00usft (above Mean Sea Level)
UWI	NW/NW/0/9/S/21/E/20/0/0/26/PM/N961/W/0/1272/0/0		

1.3 General

Contractor	CASEDHOLE SOLUTIONS	Job Method	PERFORATE	Supervisor	DAVE DANIELS
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	7,586.0 (usft)-10,035.0 (us)	Start Date/Time	9/12/2011 12:00AM
No. of Intervals	29	End Date/Time	9/12/2011 12:00AM
Total Shots	191	Net Perforation Interval	48.00 (usft)
Avg Shot Density	3.98 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	WASATCH/			7,586.0	7,589.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

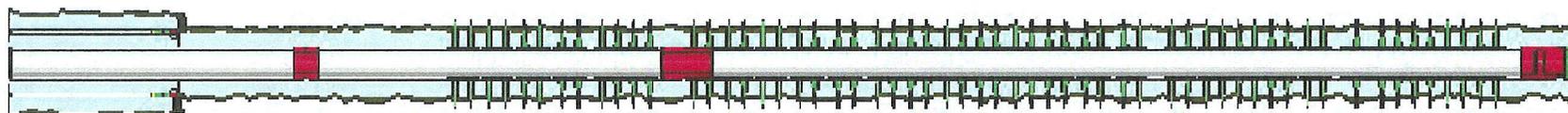
Date	Formation/ Reservoir	CCL@ (usft)	CCL-T S (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	WASATCH/			7,653.0	7,654.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	WASATCH/			7,720.0	7,722.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	WASATCH/			7,844.0	7,846.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,008.0	8,009.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,025.0	8,028.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,130.0	8,131.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,190.0	8,191.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,258.0	8,260.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,355.0	8,357.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,494.0	8,496.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,657.0	8,658.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,701.0	8,704.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,785.0	8,786.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,824.0	8,826.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,905.0	8,906.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			8,949.0	8,951.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,049.0	9,051.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,196.0	9,200.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,516.0	9,518.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,582.0	9,583.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,606.0	9,607.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

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 /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
9/12/2011 12:00AM	MESAVERDE/			9,634.0	9,635.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,716.0	9,717.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,917.0	9,919.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,953.0	9,954.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			9,977.0	9,978.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			10,004.0	10,005.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
9/12/2011 12:00AM	MESAVERDE/			10,034.0	10,035.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE	Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH	Site: NBU 921-20D PAD	Rig Name No: MILES 3/3
Event: COMPLETION	Start Date: 9/9/2011	End Date: 9/16/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)	UWI: NWNW/0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/8/2011	9:30 - 11:00	1.50	COMP	33		P		FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 11 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 25 PSI. 1ST PSI TEST T/ 7000 PSI. HELD FOR 30 MIN LOST 55 PSI. NO COMMUNICATION WITH SURFACE BLEED OFF PSI. MOVE T/ NEXT WELL. SWFWE
9/9/2011	7:00 - 11:00	4.00	COMP	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWFW

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: MILES 3/3
Event: COMPLETION		Start Date: 9/9/2011	End Date: 9/16/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NW/NW0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/12/2011	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 1)WHP 1875 PSI, BRK 4155 PSI @ 4.8 BPM. ISIP 3164 PSI, FG .76 CALC HOLES OPEN @ 45.4 BPM @ 6259 PSI = 81% HOLES OPEN. ISIP 3300 PSI, FG .77, NPI 136 PSI. MP 6482 PSI, MR 50.9 BPM, AP 5868 PSI, AR 49.8 BPM X-OVER FOR WL</p> <p>PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9747' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 2)WHP 1779 PSI, BRK 6031 PSI @ 4.8 BPM. ISIP 4423 PSI, FG .90 CALC HOLES OPEN @ 39.7 BPM @ 6144 PSI = 100% HOLES OPEN. ISIP 3145 PSI, FG .77, NPI -1278 PSI. MP 6504 PSI, MR 51.2 BPM, AP 6150 PSI, AR 48.6 BPM X-OVER FOR WL</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9230' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 3)WHP 1611 PSI, BRK 5522 PSI @ 4.8 BPM. ISIP 3705 PSI, FG .84 CALC HOLES OPEN @ 32.0 BPM @ 5250 PSI = 87% HOLES OPEN. ISIP 3124 PSI, FG .78, NPI -581 PSI. MP 6610 PSI, MR 51.3 BPM, AP 5929 PSI, AR 50.1 BPM X-OVER FOR WL</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 &120 DEG PHASING. RIH SET CBP @ 8981' P/U PERF AS PER PERF DESIGN. POOH.SWIFN</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011	Spud Date: 5/31/2011
Project: UTAH-UINTAH		Site: NBU 921-20D PAD	Rig Name No: MILES 3/3
Event: COMPLETION		Start Date: 9/9/2011	End Date: 9/16/2011
Active Datum: RKB @4,819.01ft (above Mean Sea Level)		UWI: NWNW0/9/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/13/2011	7:00 - 18:00	11.00	COMP	36	B	P		<p>FRAC STG 4)WHP 1924 PSI, BRK 4532 PSI @ 4.8 BPM. ISIP 2976 PSI, FG .77 CALC HOLES OPEN @ 41.2 BPM @ 6167 PSI = 69% HOLES OPEN. ISIP 2871 PSI, FG .76, NPI -105 PSI. MP 6565 PSI, MR 51.0 BPM, AP 5987 PSI, AR 47.3 BPM X-OVER FOR WL</p> <p>PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8734' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 5)WHP 1715 PSI, BRK 2694 PSI @ 4.6 BPM. ISIP 2110 PSI, FG .68 CALC HOLES OPEN @ 50.5 BPM @ 5709 PSI = 79% HOLES OPEN. ISIP 2615 PSI, FG .74, NPI 505 PSI. MP 6279 PSI, MR 51.0 BPM, AP 5231 PSI, AR 50.4 BPM X-OVER FOR WL</p> <p>PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8387' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 6)WHP 1020 PSI, BRK 5296 PSI @ 4.7 BPM. ISIP 2477 PSI, FG .74. CALC HOLES OPEN @ 42.4 BPM @ 6138 PSI = 61% HOLES OPEN. ISIP 2534 PSI, FG .75, NPI 57 PSI. MP 6501 PSI, MR 51.4 BPM, AP 5224 PSI, AR 48.1 BPM X-OVER FOR WL</p> <p>PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8058' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW</p> <p>FRAC STG 7)WHP 447 PSI, BRK 4194 PSI @ 4.7 BPM. ISIP 2539 PSI, FG .76. CALC HOLES OPEN @ 31 BPM @ 5248 PSI = 60% HOLES OPEN. ISIP 2675 PSI, FG .78, NPI 136 PSI. MP 6500 PSI, MR 51.1 BPM, AP 5576 PSI, AR 48.0 BPM X-OVER FOR WL</p> <p>PERF STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN,</p>

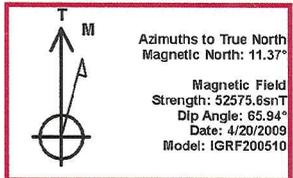
**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-20D1CS BLUE		Spud Conductor: 5/19/2011		Spud Date: 5/31/2011	
Project: UTAH-UINTAH		Site: NBU 921-20D PAD		Rig Name No: MILES 3/3	
Event: COMPLETION		Start Date: 9/9/2011		End Date: 9/16/2011	
Active Datum: RKB @4,819.01ft (above Mean Sea Level)			UWI: NWNW09/S/21/E/20/0/0/26/PM/N/961/W/0/1272/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/14/2011	7:00 - 10:00	3.00	COMP	36	B	P		<p>23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7752' P/U PERF AS PER PERF DESIGN. POOH.SWIFN</p> <p>FRAC STG 8)WHP 1111 PSI, BRK 2234 PSI @ 4.1 BPM. ISIP 1617 PSI, FG .65. CALC HOLES OPEN @ 50.4 BPM @ 6029 PSI = 67% HOLES OPEN.</p> <p>ISIP 2640 PSI, FG .78, NPI 1023 PSI. MP 6375 PSI, MR 50.8 BPM, AP 5849 PSI, AR 50.3 BPM</p> <p>X-OVER FOR WL</p> <p>PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7536 POOH. RD CASSED HOLE SWI</p> <p>TOTAL SAND = 177,502 # TOTAL TOTAL CLFL = 8540 BBLs</p>
9/15/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- RUSU. ND/NU. PU TBG.
	7:15 - 9:00	1.75	COMP	30	A	P		SPOT AND RUSU. ND WH. NU BOP. RU FLOOR.
	9:00 - 13:00	4.00	COMP	49	A	P		NO CHARGE. X-OUT DRLG LINE
	13:00 - 18:30	5.50	COMP	31	I	P		MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG SAND AT 7505' W/ #239. LD 1-JT. HAVE 238-JTS IN, EOT AT 7500'. SDFN
9/16/2011	7:00 - 7:15	0.25	COMP	48		P		JSA- D/O PLUGS. LAND TBG. ND/NU.
	7:15 - 7:30	0.25	COMP	33	C	P		RU PWR SWVEL. FILL TBG. PRES TEST TO 3000# GOOD. EST CIRC AND D/O PLUGS.
	7:30 - 12:00	4.50	COMP	44	C	P		<p>#1- C/O 18' SAND TO CBP AT 7531'. D/O IN 10 MIN. 200# INC. 0-200# CP. RIH.</p> <p>#2- C/O 30' SAND TO CBP AT 7752'. D/O IN 6 MIN. 400# INC. 100-200# CP. RIH.</p> <p>#3- C/O 20' SAND TO CBP AT 8058'. D/O IN 7 MIN. 400# INC. 100-400# CP. RIH.</p> <p>#4- C/O 30' SAND TO CBP AT 8387'. D/O IN 7 MIN. 900# INC. 350-600# CP. RIH.</p> <p>#5- C/O 28' SAND TO CBP AT 8734'. D/O IN 9 MIN. 500# INC. 400-600# CP. RIH.</p> <p>#6- C/O 50' SAND TO CBP AT 8981'. D/O IN 5 MIN. 200# INC. 400# CP. RIH.</p> <p>#7- C/O 20' SAND TO CBP AT 9230'. D/O IN 3 MIN. 500# INC. 600# CP. RIH.</p> <p>#8- C/O 25' SAND TO CBP AT 9747'. D/O IN 5 MIN. 300# INC. 500# CP. RIH.</p> <p>PBTD- C/O 60' SAND TO PBTD AT 10,154' W/ 322-JTS IN (119' RATHOLE). CIRC CLEAN.</p>

Project: UTAH - UTM (feet), NAD27, Zone 12N
 Site: UINTAH_NBU 921-20D PAD
 Well: NBU 921-20D1CS
 Wellbore: NBU 921-20D1CS
 Section:
 SHL: P_NBU 921-20D1CS
 Design: NBU 921-D1CS (wp01) H&P 298
 Latitude: 40.026235
 Longitude: -109.579794
 GL: 4793.00
 KB: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)

FORMATION TOP DETAILS		
TVDPATH	MDPATH	Formation
5049.00	5080.00	Top Wasatch (top of cylinder)
8106.00	8153.25	Top Mesaverde
9097.00	9144.25	MVU21
9612.00	9659.25	MVL1

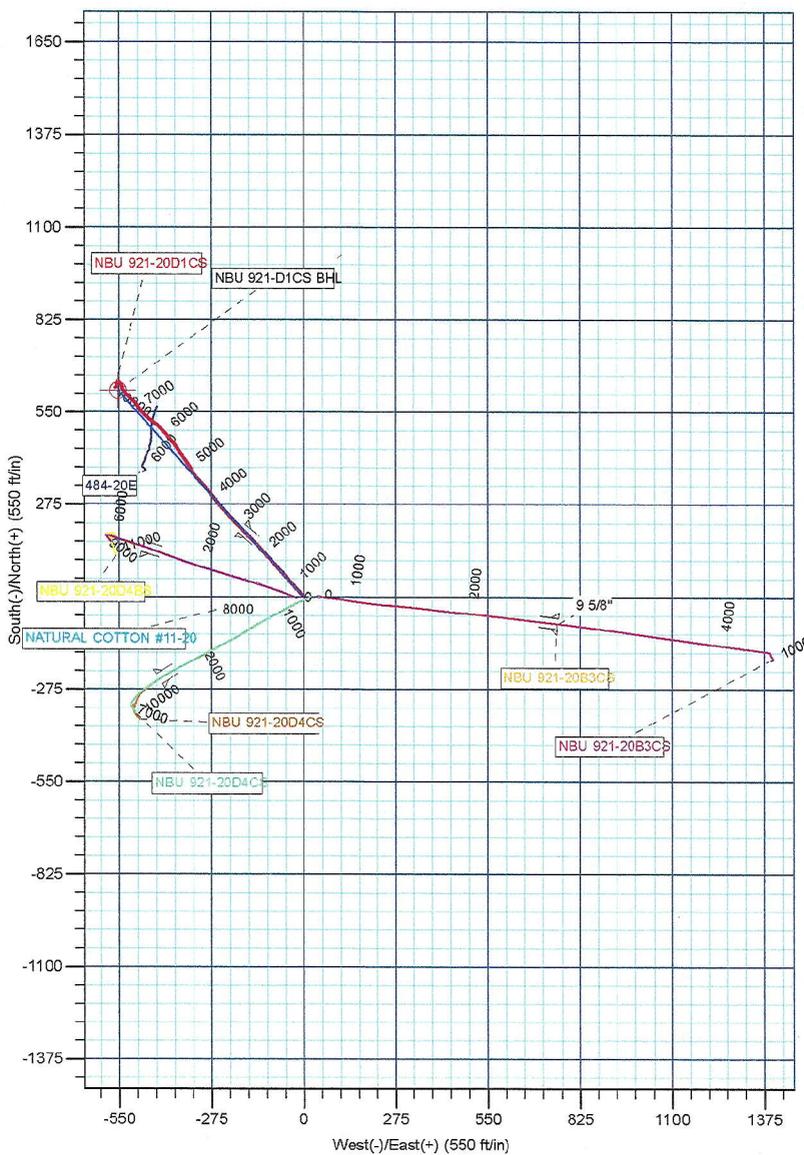
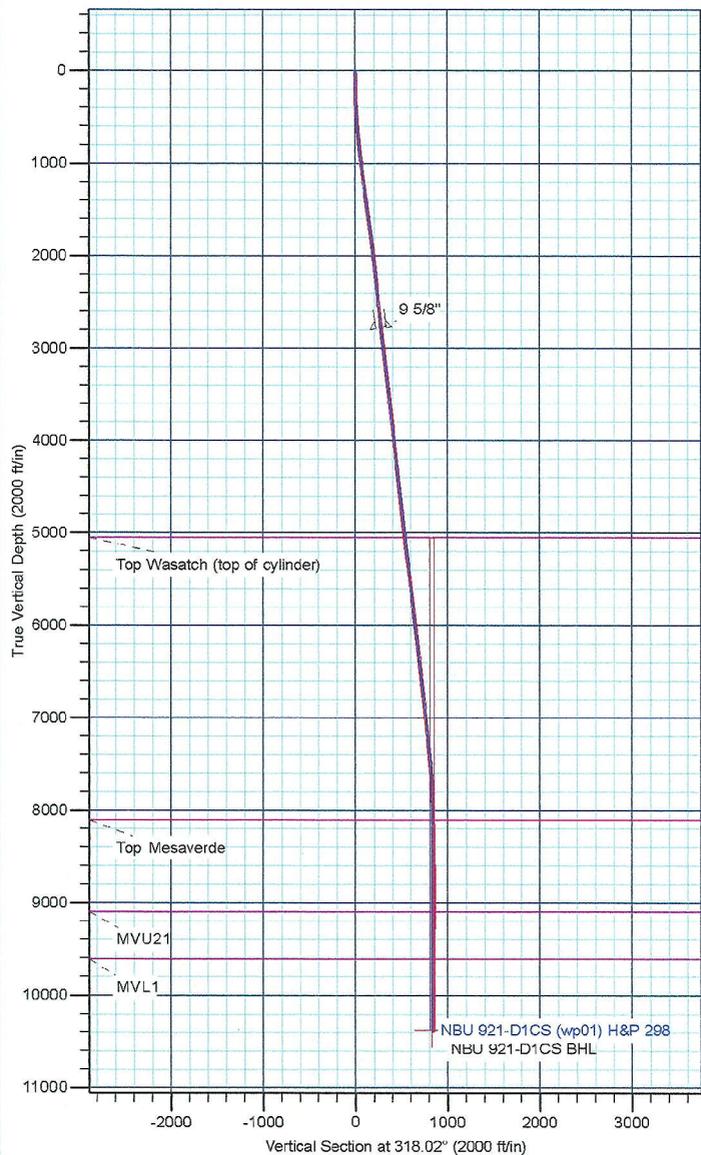


WELL DETAILS: NBU 921-20D1CS					
+N/-S	+E/-W	Northing	Ground Level: Easting	4793.00 Latitude	Longitude
0.00	0.00	14538766.97	2038012.03	40.026235	-109.579794
			Slot		

CASING DETAILS			
TVD	MD	Name	Size
2780.48	2796.70	9 5/8"	9-5/8

DESIGN TARGET DETAILS								
Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
NBU 921-D1CS BHL	10379.00	615.14	-553.55	14539373.21	2037448.74	40.027924	-109.581771	Circle (Radius: 25.00)

SECTION DETAILS									
MD	Inc	Azi	TVD	+N/-S	+E/-W	Dleg	TFace	VSect	
2798.00	6.77	311.27	2781.77	203.90	-185.31	0.00	0.00	275.53	
2948.00	6.77	311.27	2930.73	215.57	-198.60	0.00	0.00	293.09	
2991.37	6.50	318.42	2973.81	219.09	-202.15	2.00	111.38	298.08	
7479.68	6.50	318.42	7433.23	599.38	-539.56	0.00	0.00	806.47	
7851.34	0.00	0.00	7804.09	615.14	-553.55	1.75	180.00	827.54	
10426.25	0.00	0.00	10379.00	615.14	-553.55	0.00	0.00	827.54	



APC
Survey Report



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS
Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

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

Site UINTAH_NBU 921-20D PAD
Site Position:
From: Lat/Long
Position Uncertainty: 0.00 ft
Northing: 14,538,764.47 ft
Easting: 2,037,992.18 ft
Slot Radius: 0 "
Latitude: 40.026229
Longitude: -109.579865
Grid Convergence: 0.91 °

Well NBU 921-20D1CS
Well Position
+N/-S 0.00 ft
+E/-W 0.00 ft
Position Uncertainty 0.00 ft
Northing: 14,538,766.97 ft
Easting: 2,038,012.02 ft
Wellhead Elevation: ft
Latitude: 40.026235
Longitude: -109.579794
Ground Level: 4,793.00 ft

Wellbore NBU 921-20D1CS
Magnetics

Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
IGRF200510	4/20/2009	11.37	65.94	52,576

Design NBU 921-20D1CS
Audit Notes:
Version: 1.0
Phase: ACTUAL
Tie On Depth: 17.00
Vertical Section:

Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
17.00	0.00	0.00	318.02

Survey Program Date 7/12/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
197.00	2,798.00	Survey #1 (NBU 921-20D1CS)	MWD	MWD - Standard
2,847.00	10,440.00	Survey #2 (NBU 921-20D1CS)	MWD	MWD - Standard

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)
17.00	0.00	0.00	17.00	0.00	0.00	0.00	0.00	0.00	0.00
197.00	0.09	24.13	197.00	0.13	0.06	0.06	0.05	0.05	0.00
288.00	0.39	339.04	288.00	0.48	-0.02	0.38	0.37	0.33	-49.55
380.00	1.80	321.65	379.98	1.91	-1.03	2.11	1.56	1.53	-18.90
475.00	2.90	318.42	474.90	4.88	-3.55	6.00	1.17	1.16	-3.40
570.00	4.31	316.89	569.71	9.28	-7.59	11.97	1.49	1.48	-1.61
665.00	5.28	316.36	664.37	15.05	-13.04	19.91	1.02	1.02	-0.56
760.00	6.16	316.01	758.90	21.88	-19.60	29.38	0.93	0.93	-0.37
856.00	7.12	318.91	854.26	30.07	-27.09	40.47	1.06	1.00	3.02
951.00	7.74	318.74	948.46	39.32	-35.18	52.76	0.65	0.65	-0.18

APC
Survey Report



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

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)
1,045.00	8.35	316.45	1,041.53	49.02	-44.05	65.91	0.73	0.65	-2.44
1,140.00	8.09	319.44	1,135.56	59.10	-53.15	79.49	0.53	-0.27	3.15
1,236.00	8.62	317.51	1,230.54	69.54	-62.41	93.43	0.62	0.55	-2.01
1,331.00	7.21	321.55	1,324.63	79.46	-70.92	106.50	1.59	-1.48	4.25
1,426.00	7.56	320.14	1,418.84	88.92	-78.63	118.70	0.41	0.37	-1.48
1,522.00	6.95	316.10	1,514.07	97.96	-86.71	130.81	0.83	-0.64	-4.21
1,617.00	7.39	314.61	1,608.33	106.39	-95.04	142.66	0.50	0.46	-1.57
1,712.00	7.12	320.41	1,702.57	115.22	-103.15	154.64	0.82	-0.28	6.11
1,807.00	7.21	314.78	1,796.83	123.95	-111.13	166.47	0.74	0.09	-5.93
1,901.00	6.95	314.96	1,890.11	132.13	-119.34	178.04	0.28	-0.28	0.19
1,996.00	6.51	319.09	1,984.46	140.26	-126.93	189.17	0.69	-0.46	4.35
2,091.00	6.24	318.91	2,078.87	148.22	-133.85	199.71	0.28	-0.28	-0.19
2,186.00	6.86	313.64	2,173.25	156.02	-141.35	210.53	0.91	0.65	-5.55
2,282.00	5.89	317.68	2,268.66	163.62	-148.82	221.18	1.11	-1.01	4.21
2,376.00	5.54	314.08	2,362.19	170.35	-155.33	230.53	0.53	-0.37	-3.83
2,470.00	5.80	319.62	2,455.73	177.12	-161.66	239.80	0.64	0.28	5.89
2,565.00	6.16	322.87	2,550.22	184.84	-167.85	249.68	0.52	0.38	3.42
2,660.00	6.24	317.07	2,644.66	192.69	-174.44	259.92	0.66	0.08	-6.11
2,755.00	6.60	316.63	2,739.07	200.43	-181.71	270.54	0.38	0.38	-0.46
2,798.00	6.77	311.27	2,781.77	203.90	-185.31	275.53	1.50	0.40	-12.47
2,847.00	6.76	311.37	2,830.43	207.71	-189.65	281.26	0.03	-0.02	0.20
2,939.00	6.19	312.02	2,921.85	214.61	-197.39	291.57	0.62	-0.62	0.71
3,033.00	6.31	316.27	3,015.29	221.74	-204.73	301.77	0.51	0.13	4.52
3,128.00	6.88	317.52	3,109.66	229.71	-212.18	312.68	0.62	0.60	1.32
3,222.00	6.63	316.64	3,203.01	237.80	-219.71	323.74	0.29	-0.27	-0.94
3,317.00	7.25	318.39	3,297.31	246.27	-227.46	335.21	0.69	0.65	1.84
3,411.00	7.19	321.52	3,390.56	255.31	-235.05	347.02	0.42	-0.06	3.33
3,505.00	6.44	316.39	3,483.90	263.74	-242.35	358.16	1.03	-0.80	-5.46
3,600.00	7.13	317.89	3,578.23	271.97	-249.98	369.38	0.75	0.73	1.58
3,694.00	6.75	324.14	3,671.55	280.77	-257.13	380.71	0.90	-0.40	6.65
3,789.00	5.63	316.89	3,765.99	288.70	-263.58	390.92	1.44	-1.18	-7.63
3,883.00	6.38	320.77	3,859.48	296.11	-270.04	400.74	0.91	0.80	4.13
3,978.00	6.38	324.77	3,953.89	304.51	-276.42	411.26	0.47	0.00	4.21
4,072.00	6.31	322.64	4,047.31	312.88	-282.57	421.59	0.26	-0.07	-2.27
4,166.00	6.44	319.77	4,140.73	321.01	-289.11	432.01	0.37	0.14	-3.05
4,261.00	5.88	319.02	4,235.18	328.76	-295.74	442.20	0.60	-0.59	-0.79
4,356.00	6.06	315.14	4,329.67	335.98	-302.47	452.07	0.47	0.19	-4.08
4,450.00	6.19	313.76	4,423.13	343.01	-309.63	462.08	0.21	0.14	-1.47
4,544.00	6.13	322.52	4,516.59	350.49	-316.34	472.14	1.00	-0.06	9.32
4,639.00	5.81	317.52	4,611.08	358.06	-322.68	482.01	0.64	-0.34	-5.26
4,733.00	6.69	329.64	4,704.52	366.30	-328.66	492.13	1.68	0.94	12.89
4,828.00	7.25	334.52	4,798.82	376.49	-334.03	503.30	0.86	0.59	5.14
4,922.00	7.00	331.14	4,892.09	386.86	-339.35	514.56	0.52	-0.27	-3.60

APC
Survey Report



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

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)
5,017.00	6.38	322.51	4,986.45	396.11	-345.36	525.46	1.24	-0.65	-9.08
5,111.00	6.69	322.64	5,079.84	404.61	-351.86	536.13	0.33	0.33	0.14
5,206.00	7.81	329.27	5,174.08	414.56	-358.51	547.97	1.47	1.18	6.98
5,300.00	7.00	329.27	5,267.29	424.97	-364.70	559.85	0.86	-0.86	0.00
5,394.00	7.00	326.52	5,360.59	434.67	-370.79	571.14	0.36	0.00	-2.93
5,489.00	7.25	319.89	5,454.86	444.09	-377.85	582.85	0.90	0.26	-6.98
5,583.00	6.75	323.89	5,548.16	453.09	-384.92	594.28	0.74	-0.53	4.26
5,677.00	5.94	323.02	5,641.58	461.43	-391.10	604.62	0.87	-0.86	-0.93
5,772.00	7.31	320.89	5,735.95	470.05	-397.87	615.55	1.46	1.44	-2.24
5,866.00	6.44	320.39	5,829.27	478.75	-405.01	626.79	0.93	-0.93	-0.53
5,961.00	5.56	318.52	5,923.75	486.30	-411.45	636.72	0.95	-0.93	-1.97
6,055.00	6.31	319.02	6,017.25	493.62	-417.86	646.44	0.80	0.80	0.53
6,149.00	5.81	318.02	6,110.72	501.05	-424.43	656.36	0.54	-0.53	-1.06
6,244.00	7.31	310.77	6,205.10	508.57	-432.22	667.16	1.80	1.58	-7.63
6,338.00	6.94	308.02	6,298.37	515.98	-441.22	678.69	0.54	-0.39	-2.93
6,433.00	6.44	307.02	6,392.72	522.72	-450.00	689.57	0.54	-0.53	-1.05
6,527.00	5.75	306.02	6,486.19	528.66	-458.02	699.35	0.74	-0.73	-1.06
6,622.00	6.56	309.39	6,580.64	534.91	-466.06	709.37	0.93	0.85	3.55
6,716.00	6.06	308.00	6,674.07	541.37	-474.12	719.57	0.56	-0.53	-1.48
6,811.00	6.63	321.64	6,768.50	548.76	-481.48	729.98	1.69	0.60	14.36
6,905.00	5.75	320.52	6,861.95	556.65	-487.84	740.10	0.94	-0.94	-1.19
7,000.00	5.88	327.77	6,956.46	564.44	-493.46	749.65	0.78	0.14	7.63
7,094.00	6.69	327.02	7,049.90	573.10	-499.01	759.80	0.87	0.86	-0.80
7,189.00	7.19	316.14	7,144.20	582.03	-506.14	771.21	1.48	0.53	-11.45
7,283.00	6.25	313.14	7,237.56	589.77	-513.95	782.19	1.07	-1.00	-3.19
7,378.00	5.75	312.52	7,332.04	596.52	-521.23	792.08	0.53	-0.53	-0.65
7,472.00	5.38	311.89	7,425.59	602.65	-527.98	801.15	0.40	-0.39	-0.67
7,567.00	4.56	328.27	7,520.24	608.84	-533.28	809.29	1.72	-0.86	17.24
7,662.00	4.31	329.27	7,614.95	615.12	-537.09	816.51	0.28	-0.26	1.05
7,756.00	2.38	339.02	7,708.79	619.97	-539.60	821.80	2.13	-2.05	10.37
7,851.00	2.13	345.14	7,803.72	623.52	-540.76	825.21	0.37	-0.26	6.44
7,946.00	2.06	346.39	7,898.65	626.89	-541.61	828.28	0.09	-0.07	1.32
8,041.00	1.88	353.14	7,993.60	630.10	-542.20	831.06	0.31	-0.19	7.11
8,135.00	1.81	319.77	8,087.55	632.76	-543.34	833.80	1.13	-0.07	-35.50
8,230.00	1.44	319.89	8,182.51	634.82	-545.08	836.50	0.39	-0.39	0.13
8,325.00	1.44	319.39	8,277.48	636.64	-546.62	838.88	0.01	0.00	-0.53
8,419.00	1.06	307.77	8,371.46	638.07	-548.08	840.92	0.48	-0.40	-12.36
8,514.00	1.00	310.77	8,466.45	639.15	-549.40	842.61	0.08	-0.06	3.16
8,608.00	1.13	246.02	8,560.43	639.30	-550.87	843.71	1.22	0.14	-68.88
8,703.00	1.25	233.52	8,655.41	638.31	-552.56	844.10	0.30	0.13	-13.16
8,797.00	1.38	213.64	8,749.39	636.76	-554.01	843.91	0.50	0.14	-21.15
8,891.00	1.19	209.27	8,843.36	634.96	-555.12	843.32	0.23	-0.20	-4.65
8,986.00	0.19	208.02	8,938.36	633.96	-555.67	842.95	1.05	-1.05	-1.32

APC
Survey Report



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

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)
9,080.00	0.06	263.02	9,032.36	633.82	-555.79	842.92	0.17	-0.14	58.51
9,175.00	0.38	209.01	9,127.36	633.54	-556.00	842.85	0.37	0.34	-56.85
9,269.00	0.56	205.02	9,221.35	632.85	-556.34	842.57	0.19	0.19	-4.24
9,363.00	0.81	186.52	9,315.35	631.77	-556.61	841.95	0.35	0.27	-19.68
9,458.00	0.75	186.79	9,410.34	630.49	-556.76	841.09	0.06	-0.06	0.28
9,552.00	0.44	177.52	9,504.33	629.52	-556.82	840.41	0.34	-0.33	-9.86
9,646.00	0.44	214.14	9,598.33	628.86	-557.01	840.04	0.29	0.00	38.96
9,741.00	0.69	215.27	9,693.32	628.09	-557.54	839.83	0.26	0.26	1.19
9,835.00	0.63	229.52	9,787.32	627.29	-558.26	839.72	0.19	-0.06	15.16
9,929.00	0.56	239.89	9,881.31	626.72	-559.05	839.83	0.14	-0.07	11.03
10,024.00	0.56	214.39	9,976.31	626.11	-559.72	839.81	0.26	0.00	-26.84
10,118.00	0.50	211.89	10,070.30	625.38	-560.19	839.59	0.07	-0.06	-2.66
10,213.00	0.50	206.27	10,165.30	624.66	-560.59	839.32	0.05	0.00	-5.92
10,307.00	0.31	252.77	10,259.30	624.21	-561.02	839.28	0.39	-0.20	49.47
10,390.00	0.19	245.27	10,342.30	624.09	-561.36	839.41	0.15	-0.14	-9.04
LAST MWD SURVEY									
10,440.00	0.19	245.27	10,392.30	624.02	-561.51	839.46	0.00	0.00	0.00
PROJECTION									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
10,390.00	10,342.30	624.09	-561.36	LAST MWD SURVEY
10,440.00	10,392.30	624.02	-561.51	PROJECTION

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION PLANNING

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

UINTAH_NBU 921-20D PAD

NBU 921-20D1CS

NBU 921-20D1CS

Design: NBU 921-20D1CS

Survey Report - Geographic

12 July, 2011



Weatherford®

APC
Survey Report - Geographic



Company: US ROCKIES REGION PLANNING	Local Co-ordinate Reference: Well NBU 921-20D1CS
Project: UTAH - UTM (feet), NAD27, Zone 12N	TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Site: UINTAH_NBU 921-20D PAD	MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
Well: NBU 921-20D1CS	North Reference: True
Wellbore: NBU 921-20D1CS	Survey Calculation Method: Minimum Curvature
Design: NBU 921-20D1CS	Database: edm5000p

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

Site UINTAH_NBU 921-20D PAD

Site Position:		Northing: 14,538,764.47 ft	Latitude: 40.026229
From: Lat/Long		Easting: 2,037,992.18 ft	Longitude: -109.579865
Position Uncertainty: 0.00 ft		Slot Radius: 0 "	Grid Convergence: 0.91 °

Well NBU 921-20D1CS					
Well Position	+N/-S 0.00 ft	Northing: 14,538,766.97 ft	Latitude: 40.026235		
	+E/-W 0.00 ft	Easting: 2,038,012.02 ft	Longitude: -109.579794		
Position Uncertainty 0.00 ft		Wellhead Elevation: ft	Ground Level: 4,793.00 ft		

Wellbore NBU 921-20D1CS

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	4/20/2009	11.37	65.94	52,576

Design NBU 921-20D1CS

Audit Notes:

Version: 1.0	Phase: ACTUAL	Tie On Depth: 17.00
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Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
	17.00	0.00	0.00	318.02

Survey Program Date 7/12/2011

From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description
197.00	2,798.00	Survey #1 (NBU 921-20D1CS)	MWD	MWD - Standard
2,847.00	10,440.00	Survey #2 (NBU 921-20D1CS)	MWD	MWD - Standard

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
17.00	0.00	0.00	17.00	0.00	0.00	14,538,766.97	2,038,012.02	40.026235	-109.579794
197.00	0.09	24.13	197.00	0.13	0.06	14,538,767.10	2,038,012.08	40.026235	-109.579794
288.00	0.39	339.04	288.00	0.48	-0.02	14,538,767.46	2,038,011.99	40.026236	-109.579794
380.00	1.80	321.65	379.98	1.91	-1.03	14,538,768.86	2,038,010.96	40.026240	-109.579798
475.00	2.90	318.42	474.90	4.88	-3.55	14,538,771.79	2,038,008.39	40.026248	-109.579807
570.00	4.31	316.89	569.71	9.28	-7.59	14,538,776.13	2,038,004.29	40.026261	-109.579821
665.00	5.28	316.36	664.37	15.05	-13.04	14,538,781.81	2,037,998.74	40.026276	-109.579841
760.00	6.16	316.01	758.90	21.88	-19.60	14,538,788.54	2,037,992.07	40.026295	-109.579864
856.00	7.12	318.91	854.26	30.07	-27.09	14,538,796.61	2,037,984.46	40.026318	-109.579891
951.00	7.74	318.74	948.46	39.32	-35.18	14,538,805.72	2,037,976.22	40.026343	-109.579920
1,045.00	8.35	316.45	1,041.53	49.02	-44.05	14,538,815.29	2,037,967.19	40.026370	-109.579952

APC
Survey Report - Geographic



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
1,140.00	8.09	319.44	1,135.56	59.10	-53.15	14,538,825.22	2,037,957.93	40.026397	-109.579984
1,236.00	8.62	317.51	1,230.54	69.54	-62.41	14,538,835.51	2,037,948.51	40.026426	-109.580017
1,331.00	7.21	321.55	1,324.63	79.46	-70.92	14,538,845.29	2,037,939.84	40.026453	-109.580048
1,426.00	7.56	320.14	1,418.84	88.92	-78.63	14,538,854.63	2,037,931.98	40.026479	-109.580075
1,522.00	6.95	316.10	1,514.07	97.96	-86.71	14,538,863.53	2,037,923.76	40.026504	-109.580104
1,617.00	7.39	314.61	1,608.33	106.39	-95.04	14,538,871.83	2,037,915.29	40.026527	-109.580134
1,712.00	7.12	320.41	1,702.57	115.22	-103.15	14,538,880.53	2,037,907.05	40.026551	-109.580163
1,807.00	7.21	314.78	1,796.83	123.95	-111.13	14,538,889.14	2,037,898.93	40.026575	-109.580191
1,901.00	6.95	314.96	1,890.11	132.13	-119.34	14,538,897.18	2,037,890.59	40.026598	-109.580220
1,996.00	6.51	319.09	1,984.46	140.26	-126.93	14,538,905.19	2,037,882.87	40.026620	-109.580248
2,091.00	6.24	318.91	2,078.87	148.22	-133.85	14,538,913.04	2,037,875.82	40.026642	-109.580272
2,186.00	6.86	313.64	2,173.25	156.02	-141.35	14,538,920.72	2,037,868.20	40.026664	-109.580299
2,282.00	5.89	317.68	2,268.66	163.62	-148.82	14,538,928.20	2,037,860.61	40.026684	-109.580326
2,376.00	5.54	314.08	2,362.19	170.35	-155.33	14,538,934.82	2,037,854.00	40.026703	-109.580349
2,470.00	5.80	319.62	2,455.73	177.12	-161.66	14,538,941.49	2,037,847.55	40.026721	-109.580372
2,565.00	6.16	322.87	2,550.22	184.84	-167.85	14,538,949.11	2,037,841.25	40.026743	-109.580394
2,660.00	6.24	317.07	2,644.66	192.69	-174.44	14,538,956.85	2,037,834.53	40.026764	-109.580417
2,755.00	6.60	316.63	2,739.07	200.43	-181.71	14,538,964.48	2,037,827.14	40.026785	-109.580443
2,798.00	6.77	311.27	2,781.77	203.90	-185.31	14,538,967.89	2,037,823.48	40.026795	-109.580456
2,847.00	6.76	311.37	2,830.43	207.71	-189.65	14,538,971.64	2,037,819.09	40.026805	-109.580472
2,939.00	6.19	312.02	2,921.85	214.61	-197.39	14,538,978.41	2,037,811.23	40.026824	-109.580499
3,033.00	6.31	316.27	3,015.29	221.74	-204.73	14,538,985.42	2,037,803.78	40.026844	-109.580525
3,128.00	6.88	317.52	3,109.66	229.71	-212.18	14,538,993.27	2,037,796.20	40.026866	-109.580552
3,222.00	6.63	316.64	3,203.01	237.80	-219.71	14,539,001.24	2,037,788.55	40.026888	-109.580579
3,317.00	7.25	318.39	3,297.31	246.27	-227.46	14,539,009.59	2,037,780.67	40.026911	-109.580607
3,411.00	7.19	321.52	3,390.56	255.31	-235.05	14,539,018.51	2,037,772.93	40.026936	-109.580634
3,505.00	6.44	316.39	3,483.90	263.74	-242.35	14,539,026.81	2,037,765.50	40.026959	-109.580660
3,600.00	7.13	317.89	3,578.23	271.97	-249.98	14,539,034.92	2,037,757.74	40.026982	-109.580687
3,694.00	6.75	324.14	3,671.55	280.77	-257.13	14,539,043.61	2,037,750.45	40.027006	-109.580713
3,789.00	5.63	316.89	3,765.99	288.70	-263.58	14,539,051.43	2,037,743.87	40.027028	-109.580736
3,883.00	6.38	320.77	3,859.48	296.11	-270.04	14,539,058.74	2,037,737.30	40.027048	-109.580759
3,978.00	6.38	324.77	3,953.89	304.51	-276.42	14,539,067.04	2,037,730.78	40.027071	-109.580781
4,072.00	6.31	322.64	4,047.31	312.88	-282.57	14,539,075.31	2,037,724.50	40.027094	-109.580803
4,166.00	6.44	319.77	4,140.73	321.01	-289.11	14,539,083.34	2,037,717.83	40.027117	-109.580827
4,261.00	5.88	319.02	4,235.18	328.76	-295.74	14,539,090.97	2,037,711.08	40.027138	-109.580850
4,356.00	6.06	315.14	4,329.67	335.98	-302.47	14,539,098.09	2,037,704.23	40.027158	-109.580875
4,450.00	6.19	313.76	4,423.13	343.01	-309.63	14,539,105.00	2,037,696.96	40.027177	-109.580900
4,544.00	6.13	322.52	4,516.59	350.49	-316.34	14,539,112.38	2,037,690.13	40.027197	-109.580924
4,639.00	5.81	317.52	4,611.08	358.06	-322.68	14,539,119.85	2,037,683.68	40.027218	-109.580947
4,733.00	6.69	329.64	4,704.52	366.30	-328.66	14,539,127.98	2,037,677.57	40.027241	-109.580968
4,828.00	7.25	334.52	4,798.82	376.49	-334.03	14,539,138.08	2,037,672.03	40.027269	-109.580987
4,922.00	7.00	331.14	4,892.09	386.86	-339.35	14,539,148.37	2,037,666.55	40.027297	-109.581006
5,017.00	6.38	322.51	4,986.45	396.11	-345.36	14,539,157.53	2,037,660.39	40.027323	-109.581028
5,111.00	6.69	322.64	5,079.84	404.61	-351.86	14,539,165.92	2,037,653.76	40.027346	-109.581051
5,206.00	7.81	329.27	5,174.08	414.56	-358.51	14,539,175.76	2,037,646.94	40.027373	-109.581075
5,300.00	7.00	329.27	5,267.29	424.97	-364.70	14,539,186.08	2,037,640.59	40.027402	-109.581097
5,394.00	7.00	326.52	5,360.59	434.67	-370.79	14,539,195.68	2,037,634.35	40.027429	-109.581119
5,489.00	7.25	319.89	5,454.86	444.09	-377.85	14,539,204.98	2,037,627.14	40.027454	-109.581144
5,583.00	6.75	323.89	5,548.16	453.09	-384.92	14,539,213.86	2,037,619.92	40.027479	-109.581169
5,677.00	5.94	323.02	5,641.58	461.43	-391.10	14,539,222.11	2,037,613.61	40.027502	-109.581191
5,772.00	7.31	320.89	5,735.95	470.05	-397.87	14,539,230.62	2,037,606.70	40.027526	-109.581215
5,866.00	6.44	320.39	5,829.27	478.75	-405.01	14,539,239.21	2,037,599.43	40.027550	-109.581241
5,961.00	5.56	318.52	5,923.75	486.30	-411.45	14,539,246.66	2,037,592.87	40.027570	-109.581264
6,055.00	6.31	319.02	6,017.25	493.62	-417.86	14,539,253.86	2,037,586.35	40.027590	-109.581287
6,149.00	5.81	318.02	6,110.72	501.05	-424.43	14,539,261.19	2,037,579.66	40.027611	-109.581310

APC
Survey Report - Geographic



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
6,244.00	7.31	310.77	6,205.10	508.57	-432.22	14,539,268.59	2,037,571.75	40.027632	-109.581338
6,338.00	6.94	308.02	6,298.37	515.98	-441.22	14,539,275.85	2,037,562.63	40.027652	-109.581370
6,433.00	6.44	307.02	6,392.72	522.72	-450.00	14,539,282.45	2,037,553.74	40.027670	-109.581401
6,527.00	5.75	306.02	6,486.19	528.66	-458.02	14,539,288.27	2,037,545.63	40.027687	-109.581430
6,622.00	6.56	309.39	6,580.64	534.91	-466.06	14,539,294.38	2,037,537.49	40.027704	-109.581459
6,716.00	6.06	308.00	6,674.07	541.37	-474.12	14,539,300.71	2,037,529.33	40.027722	-109.581488
6,811.00	6.63	321.64	6,768.50	548.76	-481.48	14,539,307.98	2,037,521.86	40.027742	-109.581514
6,905.00	5.75	320.52	6,861.95	556.65	-487.84	14,539,315.77	2,037,515.37	40.027763	-109.581537
7,000.00	5.88	327.77	6,956.46	564.44	-493.46	14,539,323.47	2,037,509.63	40.027785	-109.581557
7,094.00	6.69	327.02	7,049.90	573.10	-499.01	14,539,332.05	2,037,503.94	40.027809	-109.581576
7,189.00	7.19	316.14	7,144.20	582.03	-506.14	14,539,340.86	2,037,496.67	40.027833	-109.581602
7,283.00	6.25	313.14	7,237.56	589.77	-513.95	14,539,348.47	2,037,488.73	40.027854	-109.581630
7,378.00	5.75	312.52	7,332.04	596.52	-521.23	14,539,355.11	2,037,481.35	40.027873	-109.581656
7,472.00	5.38	311.89	7,425.59	602.65	-527.98	14,539,361.13	2,037,474.50	40.027890	-109.581680
7,567.00	4.56	328.27	7,520.24	608.84	-533.28	14,539,367.23	2,037,469.10	40.027907	-109.581699
7,662.00	4.31	329.27	7,614.95	615.12	-537.09	14,539,373.45	2,037,465.19	40.027924	-109.581713
7,756.00	2.38	339.02	7,708.79	619.97	-539.60	14,539,378.26	2,037,462.61	40.027937	-109.581721
7,851.00	2.13	345.14	7,803.72	623.52	-540.76	14,539,381.79	2,037,461.39	40.027947	-109.581726
7,946.00	2.06	346.39	7,898.65	626.89	-541.61	14,539,385.15	2,037,460.48	40.027956	-109.581729
8,041.00	1.88	353.14	7,993.60	630.10	-542.20	14,539,388.34	2,037,459.85	40.027965	-109.581731
8,135.00	1.81	319.77	8,087.55	632.76	-543.34	14,539,390.99	2,037,458.66	40.027972	-109.581735
8,230.00	1.44	319.89	8,182.51	634.82	-545.08	14,539,393.02	2,037,456.89	40.027978	-109.581741
8,325.00	1.44	319.39	8,277.48	636.64	-546.62	14,539,394.81	2,037,455.31	40.027983	-109.581747
8,419.00	1.06	307.77	8,371.46	638.07	-548.08	14,539,396.22	2,037,453.84	40.027987	-109.581752
8,514.00	1.00	310.77	8,466.45	639.15	-549.40	14,539,397.28	2,037,452.50	40.027990	-109.581756
8,608.00	1.13	246.02	8,560.43	639.30	-550.87	14,539,397.41	2,037,451.03	40.027990	-109.581762
8,703.00	1.25	233.52	8,655.41	638.31	-552.56	14,539,396.39	2,037,449.35	40.027988	-109.581768
8,797.00	1.38	213.64	8,749.39	636.76	-554.01	14,539,394.81	2,037,447.93	40.027983	-109.581773
8,891.00	1.19	209.27	8,843.36	634.96	-555.12	14,539,393.00	2,037,446.85	40.027979	-109.581777
8,986.00	0.19	208.02	8,938.36	633.96	-555.67	14,539,391.99	2,037,446.31	40.027976	-109.581779
9,080.00	0.06	263.02	9,032.36	633.82	-555.79	14,539,391.85	2,037,446.19	40.027975	-109.581779
9,175.00	0.38	209.01	9,127.36	633.54	-556.00	14,539,391.56	2,037,445.99	40.027975	-109.581780
9,269.00	0.56	205.02	9,221.35	632.85	-556.34	14,539,390.87	2,037,445.66	40.027973	-109.581781
9,363.00	0.81	186.52	9,315.35	631.77	-556.61	14,539,389.79	2,037,445.41	40.027970	-109.581782
9,458.00	0.75	186.79	9,410.34	630.49	-556.76	14,539,388.50	2,037,445.28	40.027966	-109.581783
9,552.00	0.44	177.52	9,504.33	629.52	-556.82	14,539,387.53	2,037,445.24	40.027964	-109.581783
9,646.00	0.44	214.14	9,598.33	628.86	-557.01	14,539,386.87	2,037,445.06	40.027962	-109.581784
9,741.00	0.69	215.27	9,693.32	628.09	-557.54	14,539,386.09	2,037,444.54	40.027960	-109.581786
9,835.00	0.63	229.52	9,787.32	627.29	-558.26	14,539,385.28	2,037,443.83	40.027957	-109.581788
9,929.00	0.56	239.89	9,881.31	626.72	-559.05	14,539,384.70	2,037,443.05	40.027956	-109.581791
10,024.00	0.56	214.39	9,976.31	626.11	-559.72	14,539,384.08	2,037,442.39	40.027954	-109.581793
10,118.00	0.50	211.89	10,070.30	625.38	-560.19	14,539,383.34	2,037,441.93	40.027952	-109.581795
10,213.00	0.50	206.27	10,165.30	624.66	-560.59	14,539,382.61	2,037,441.54	40.027950	-109.581796
10,307.00	0.31	252.77	10,259.30	624.21	-561.02	14,539,382.16	2,037,441.12	40.027949	-109.581798
10,390.00	0.19	245.27	10,342.30	624.09	-561.36	14,539,382.03	2,037,440.78	40.027949	-109.581799
LAST MWD SURVEY									
10,440.00	0.19	245.27	10,392.30	624.02	-561.51	14,539,381.96	2,037,440.63	40.027948	-109.581800
PROJECTION									

APC
Survey Report - Geographic



Company: US ROCKIES REGION PLANNING
Project: UTAH - UTM (feet), NAD27, Zone 12N
Site: UINTAH_NBU 921-20D PAD
Well: NBU 921-20D1CS
Wellbore: NBU 921-20D1CS
Design: NBU 921-20D1CS

Local Co-ordinate Reference: Well NBU 921-20D1CS
TVD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
MD Reference: 26' RKB + 4793' GL @ 4819.00ft (H&P 298)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: edm5000p

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
10,390.00	10,342.30	624.09	-561.36	LAST MWD SURVEY
10,440.00	10,392.30	624.02	-561.51	PROJECTION

Checked By: _____	Approved By: _____	Date: _____
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