

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 921-25D1CS		
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 720 929-6007		
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217				9. OPERATOR E-MAIL Kathy.SchneebeckDulnoan@anadarko.com		
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) UO 1189 ST		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" 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')		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	814 FNL 878 FWL	NWNW	25	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	460 FNL 726 FWL	NWNW	25	9.0 S	21.0 E	S
At Total Depth	460 FNL 726 FWL	NWNW	25	9.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 460		23. NUMBER OF ACRES IN DRILLING UNIT 240		
		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 397		26. PROPOSED DEPTH MD: 9800 TVD: 9771		
27. ELEVATION - GROUND LEVEL 4942		28. BOND NUMBER 22013542		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 08/13/2010	EMAIL gnbregulatory@anadarko.com
API NUMBER ASSIGNED 43047512510000	APPROVAL  Permit Manager	

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9800		
Pipe	Grade	Length	Weight			
	Grade I-80 Buttress	9800	11.6			

Proposed Hole, Casing, and Cement						
String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	11	8.625	0	2440		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	2440	28.0			

NBU 921-25D1CS

Pad: NBU 921-25D

Surface: 814' FNL 878' FWL (NW/4NW/4)

BHL: 460' FNL 726' FWL (NW/4NW/4)

Section 25 T9S R21E

Uintah County, Utah

Mineral Lease: UO 1189 ST

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	1,533'	
Birds Nest	1,826'	Water
Mahogany	2,194'	Water
Wasatch	4,802'	Gas
Mesaverde	7,547'	Gas
MVU2	8,474'	Gas
MVL1	9,044'	Gas
TVD	9,771'	
TD	9,800'	

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 9,771' TVD, approximately equals 6,189 psi (calculated at 0.63 psi/foot).

Maximum anticipated surface pressure equals approximately 4,039 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.

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'						
						3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,440	28.00	IJ-55	LTC	0.81	1.65	5.04
						7,780	6,350	278,000
PRODUCTION	4-1/2"	0 to 9,800	11.60	I-80	BTC	1.87	1.01	2.80

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.21

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 = 12.4 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 4,039 psi

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

(Burst Assumptions: TD = 12.4 ppg)

0.63 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 6,189 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	180	60%	15.80	1.15	
	Option 1		+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	270	0%	15.80	1.15	
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
	Option 2							
	LEAD	1,940'	65/35 Poz + 6% Gel + 10 pps gilsonite	180	35%	11.00	3.82	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	150	35%	15.80	1.15	
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15	
PRODUCTION	LEAD	4,300'	Premium Lite II +0.25 pps	310	10%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	5,500'	50/50 Poz/G + 10% salt + 2% gel	1,060	10%	14.30	1.31	
			+ 0.1% R-3					

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER:

John Huycke / Emile Goodwin

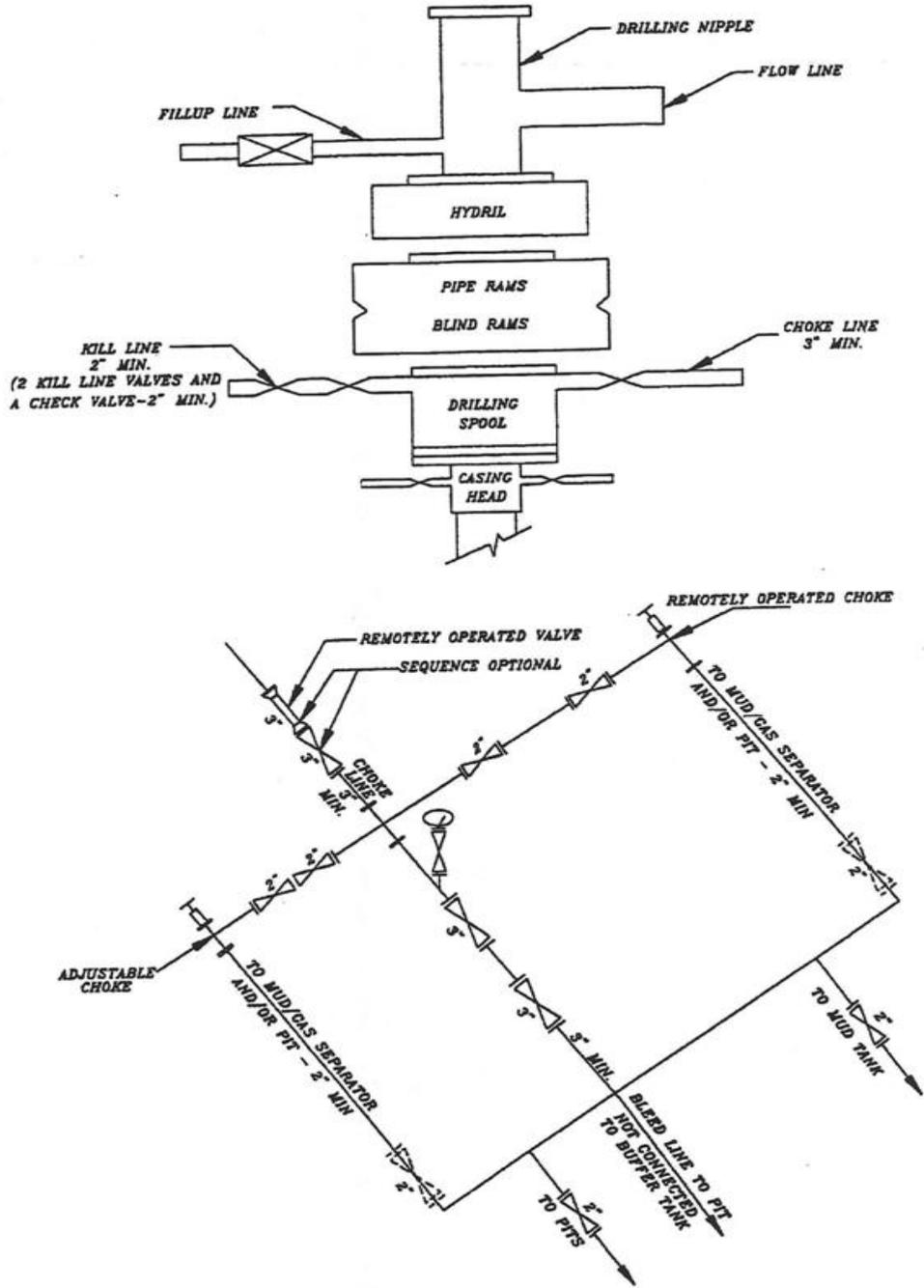
DATE:

DRILLING SUPERINTENDENT:

John Merkel / Lovel Young

DATE:

EXHIBIT A NBU 921-25D1CS



SCHMATIC DIAGRAM OF 5,000 PSI BOP STACK

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

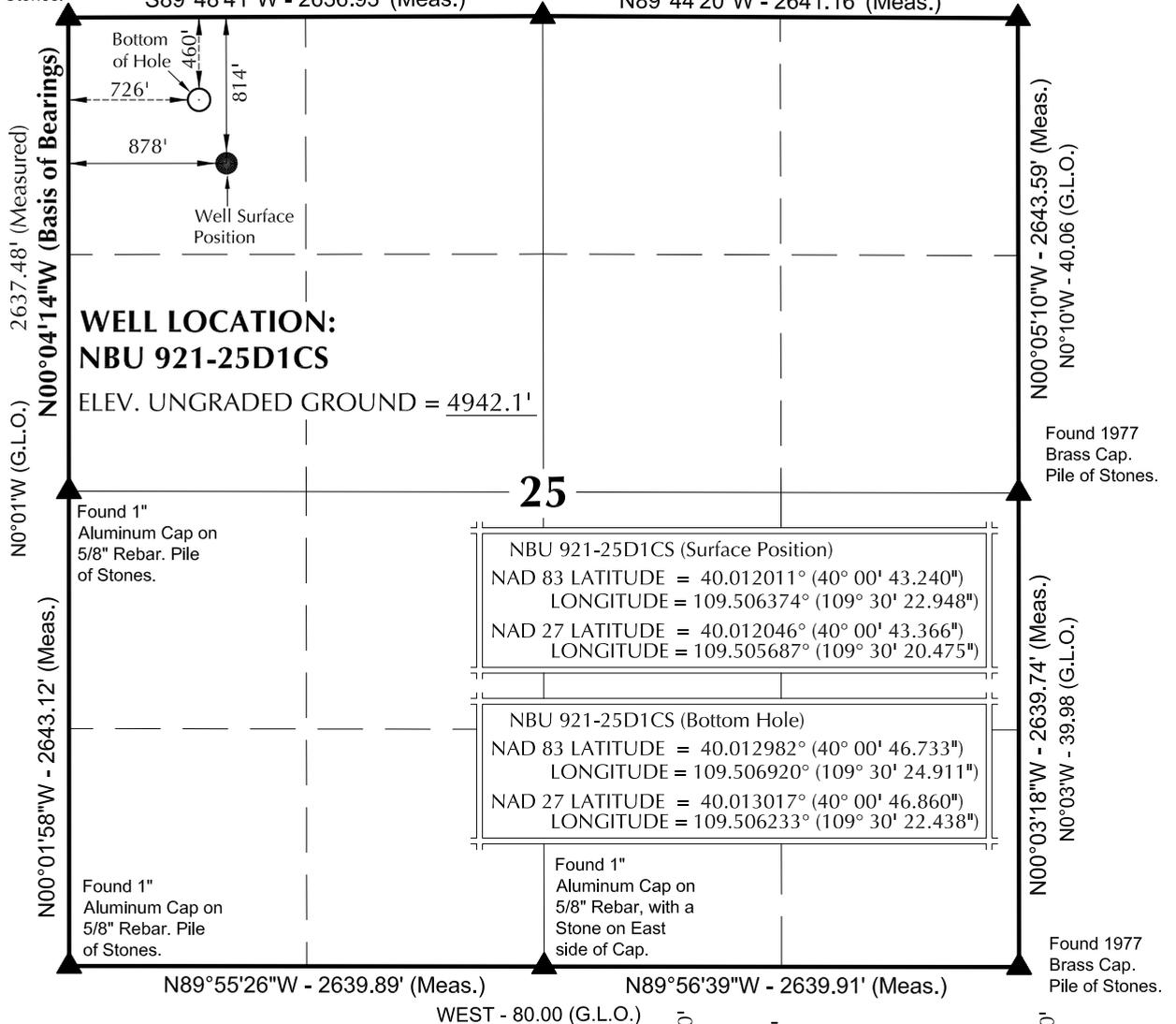
Found 2006 Aluminum Cap, Pile of Stones.

S89°47.1'W - 39.951 (G.L.O.)
S89°48'41"W - 2636.93' (Meas.)

Found 2006 Aluminum Cap under E/W Fence

N89°45.6'W - 40.017 (G.L.O.)
N89°44'20"W - 2641.16' (Meas.)

Found 1977 Brass Cap, Pile of Stones.



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 N23°20'42"W 385.21' 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

WELL PAD: NBU 921-25D

**NBU 921-25D1CS
WELL PLAT**
460' FNL, 726' FWL (Bottom Hole)
**NW ¼ NW ¼ OF SECTION 25, T9S, R21E,
S.L.B.&M., UTAH COUNTY, UTAH.**



609 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 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.

John R. Slough
No. 6028691
JOHN R. SLOUGH
PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

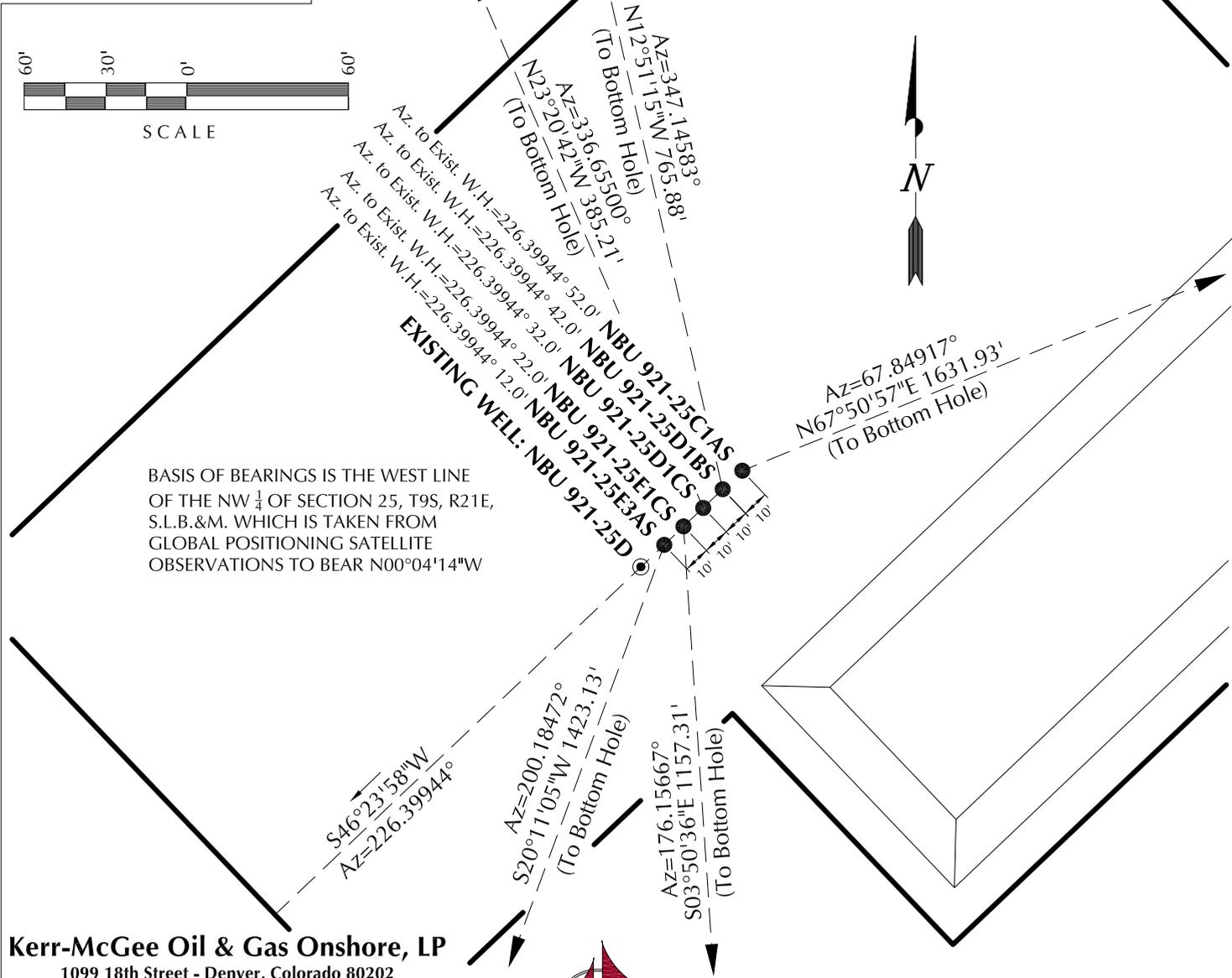
TIMBERLINE (435) 789-1365
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 4-7-10	SURVEYED BY: M.S.B.	SHEET NO: 3
DATE DRAWN: 4-12-10	DRAWN BY: B.M.	
SCALE: 1" = 1000'		3 OF 17

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27		FOOTAGES	NAD83		NAD27		FOOTAGES
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE		LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	
NBU 921-25E3AS	40°00'43.104" 40.011973°	109°30'23.134" 109.506426°	40°00'43.230" 40.012008°	109°30'20.661" 109.505739°	828' FNL 864' FWL	40°00'29.905" 40.008307°	109°30'29.435" 109.508176°	40°00'30.031" 40.008342°	109°30'26.962" 109.507489°	2162' FNL 371' FWL
NBU 921-25E1CS	40°00'43.172" 40.011992°	109°30'23.042" 109.506401°	40°00'43.298" 40.012027°	109°30'20.569" 109.505714°	821' FNL 871' FWL	40°00'31.764" 40.008823°	109°30'22.038" 109.506122°	40°00'31.890" 40.008858°	109°30'19.566" 109.505435°	1976' FNL 947' FWL
NBU 921-25D1CS	40°00'43.240" 40.012011°	109°30'22.948" 109.506374°	40°00'43.366" 40.012046°	109°30'20.475" 109.505687°	814' FNL 878' FWL	40°00'46.733" 40.012982°	109°30'24.911" 109.506920°	40°00'46.860" 40.013017°	109°30'22.438" 109.506233°	460' FNL 726' FWL
NBU 921-25D1BS	40°00'43.309" 40.012030°	109°30'22.855" 109.506348°	40°00'43.435" 40.012065°	109°30'20.382" 109.505662°	807' FNL 885' FWL	40°00'50.685" 40.014079°	109°30'25.048" 109.506958°	40°00'50.812" 40.014114°	109°30'22.575" 109.506271°	60' FNL 716' FWL
NBU 921-25C1AS	40°00'43.377" 40.012049°	109°30'22.761" 109.506323°	40°00'43.504" 40.012084°	109°30'20.288" 109.505636°	800' FNL 893' FWL	40°00'49.463" 40.013740°	109°30'03.344" 109.500929°	40°00'49.590" 40.013775°	109°30'00.872" 109.500242°	190' FNL 2405' FWL
NBU 921-25D	40°00'43.023" 40.011951°	109°30'23.246" 109.506457°	40°00'43.149" 40.011986°	109°30'20.773" 109.505770°	836' FNL 855' FWL					

RELATIVE COORDINATES - From Surface Position to Bottom Hole

WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST	WELL NAME	NORTH	EAST
NBU 921-25E3AS	-1335.7'	-491.0'	NBU 921-25E1CS	-1154.7'	77.6'	NBU 921-25D1CS	353.7'	-152.6'	NBU 921-25D1BS	746.7'	-170.4'
NBU 921-25C1AS	615.3'	1511.5'									



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

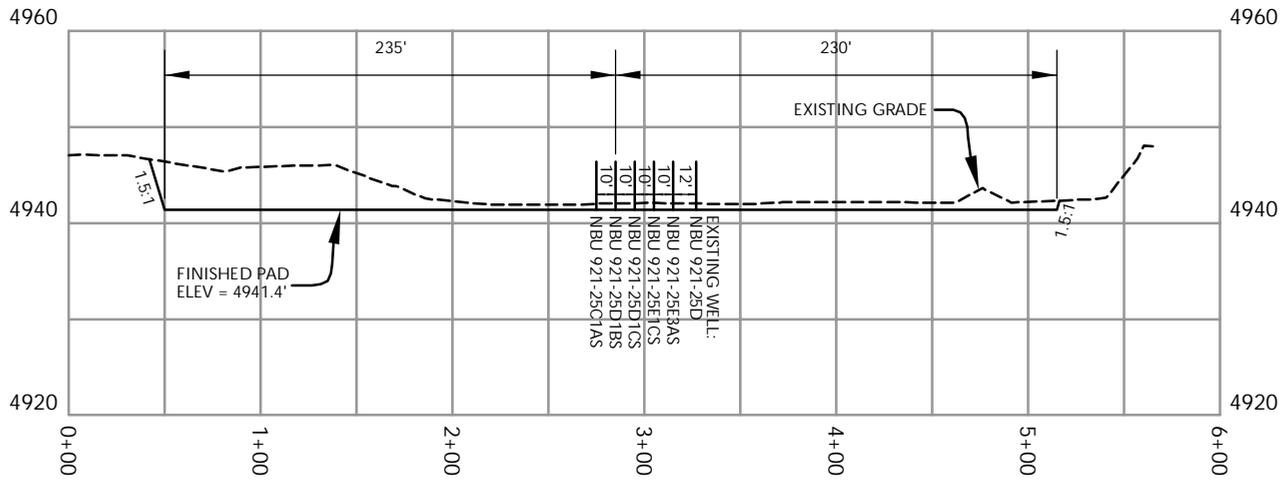
WELL PAD - NBU 921-25D
WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH.



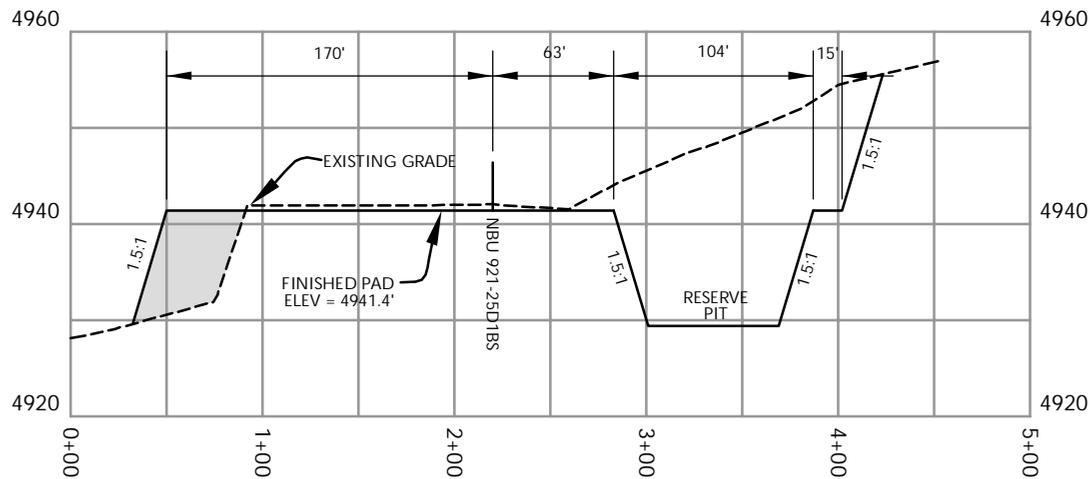
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

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

DATE SURVEYED: 4-7-10	SURVEYED BY: M.S.B.	SHEET NO: 6
DATE DRAWN: 4-12-10	DRAWN BY: B.M.	
SCALE: 1" = 60'		6 OF 17



CROSS SECTION A-A'



CROSS SECTION B-B'

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

WELL PAD - NBU 921-25D

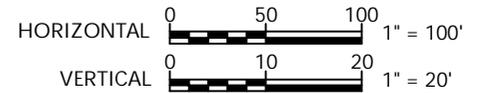
WELL PAD - CROSS SECTIONS
 NBU 921-25E3AS, NBU 921-25E1CS,
 NBU 921-25D1CS, NBU 921-25D1BS &
 NBU 921-25C1AS
 LOCATED IN SECTION 25, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH



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

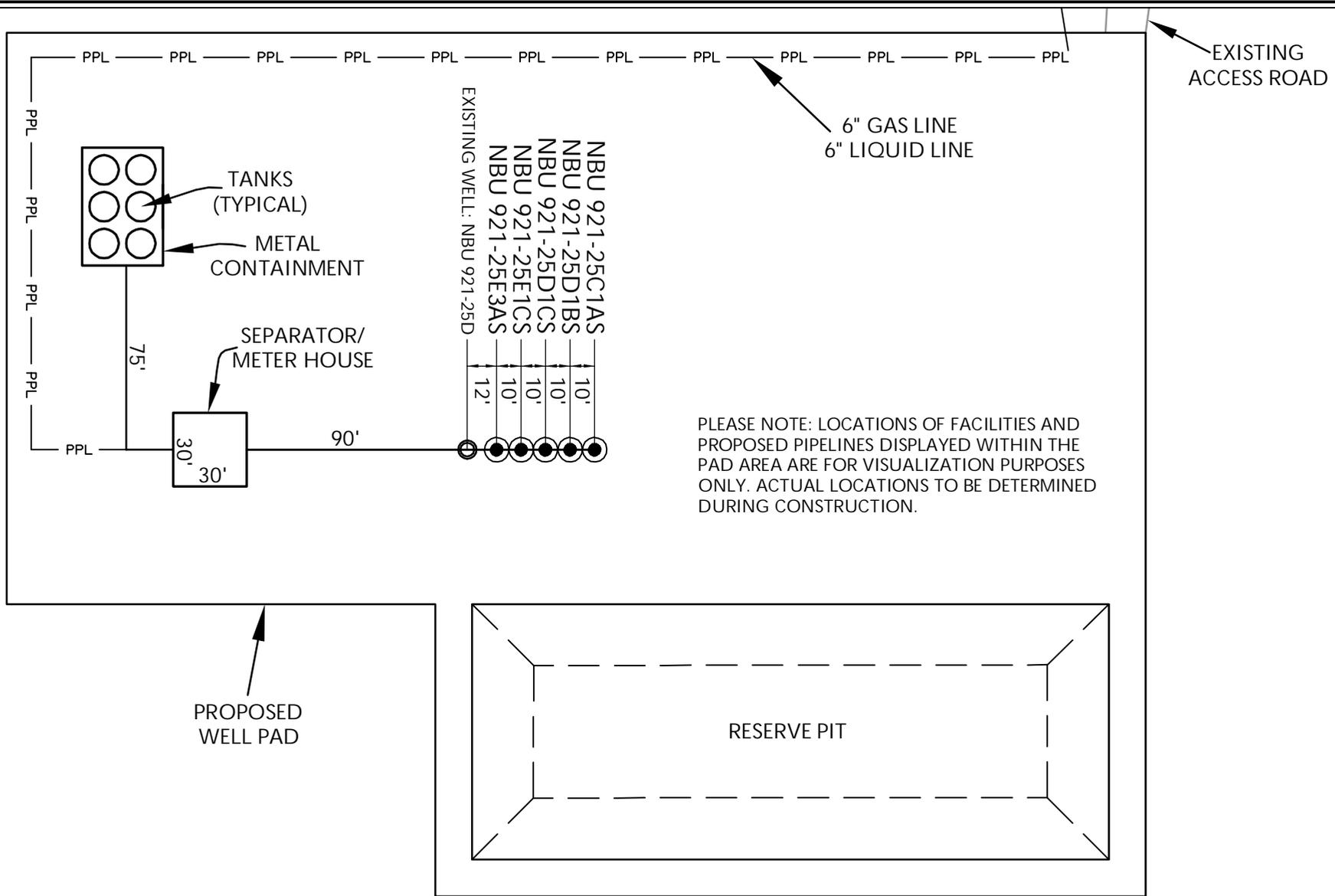
TIMBERLINE
ENGINEERING & LAND SURVEYING, INC.
 209 NORTH 300 WEST - VERNAL, UTAH 84078

(435) 789-1365

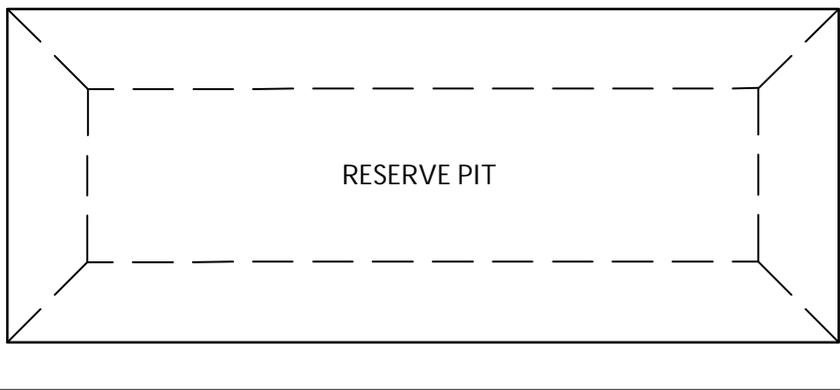


Scale: 1"=100'	Date: 5/12/10	SHEET NO:
REVISED:	DJD 7/7/10	8 8 OF 17

'APIWellNo:43047512510000'
 K:\AR\AR\2010\34_NBU_FOCUS_SEC_921-25\DWG\SS\NBU_921-25D\921-25D_20100611.dwg



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



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

WELL PAD - NBU 921-25D

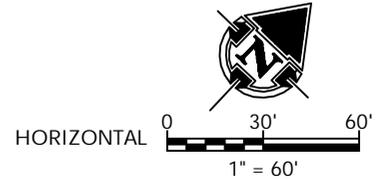
WELL PAD - FACILITIES DIAGRAM
NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH



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

WELL PAD LEGEND

- EXISTING WELL LOCATION
- PROPOSED WELL LOCATION
- PPL — PROPOSED PIPELINE
- EPL — EXISTING PIPELINE



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

Scale: 1"=60' Date: 5/12/10
REVISED: DJD 7/7/10

SHEET NO:
9
9 OF 17

API Well No: 43047512510000

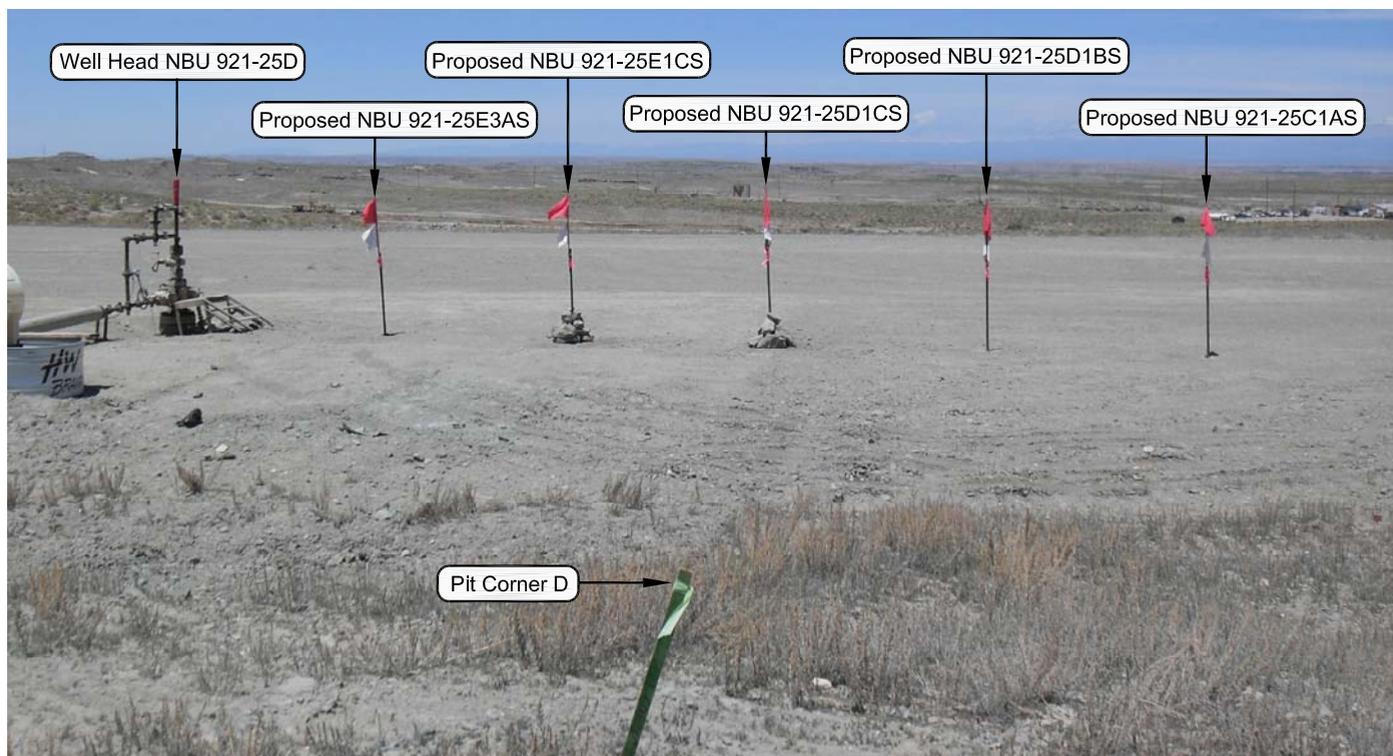


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE

CAMERA ANGLE: NORTHERLY



PHOTO VIEW: FROM EXISTING ACCESS ROAD

CAMERA ANGLE: EASTERLY

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

WELL PAD - NBU 921-25D

LOCATION PHOTOS
 NBU 921-25E3AS, NBU 921-25E1CS,
 NBU 921-25D1CS, NBU 921-25D1BS &
 NBU 921-25C1AS
 LOCATED IN SECTION 25, T9S, R21E,
 S.L.B.&M., UINTAH COUNTY, UTAH.



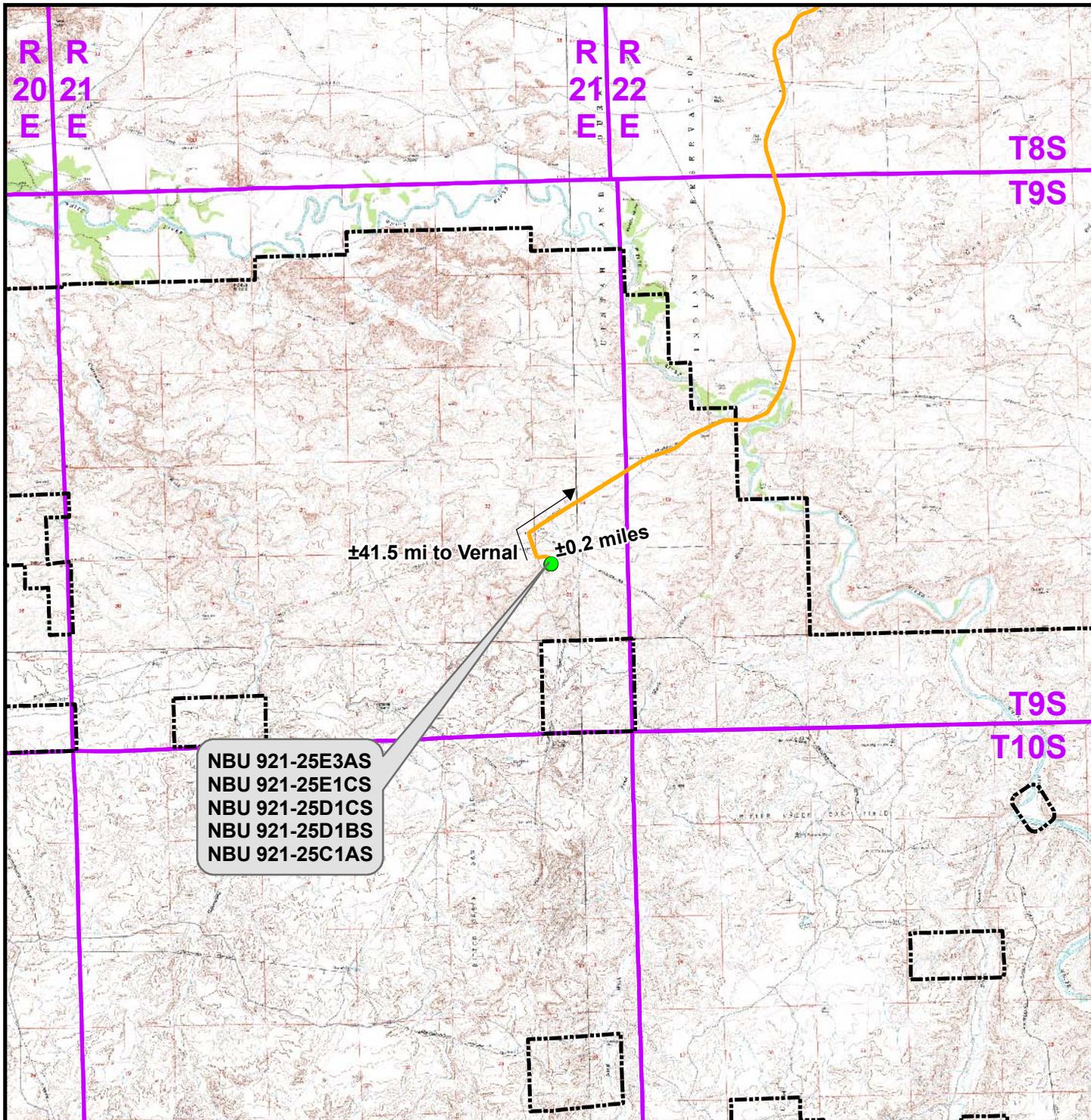
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

TIMBERLINE

(435) 789-1365

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

DATE PHOTOS TAKEN: 4-7-10	PHOTOS TAKEN BY: M.S.B.	SHEET NO: 10
DATE DRAWN: 4-12-10	DRAWN BY: K.O.B.	
Date Last Revised: 06-10-10 K.O.B.		10 OF 17



NBU 921-25E3AS
 NBU 921-25E1CS
 NBU 921-25D1CS
 NBU 921-25D1BS
 NBU 921-25C1AS

Legend

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

Distance From Well Pad - NBU 921-25D To Unit Boundary: ±4,455ft

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

WELL PAD - NBU 921-25D

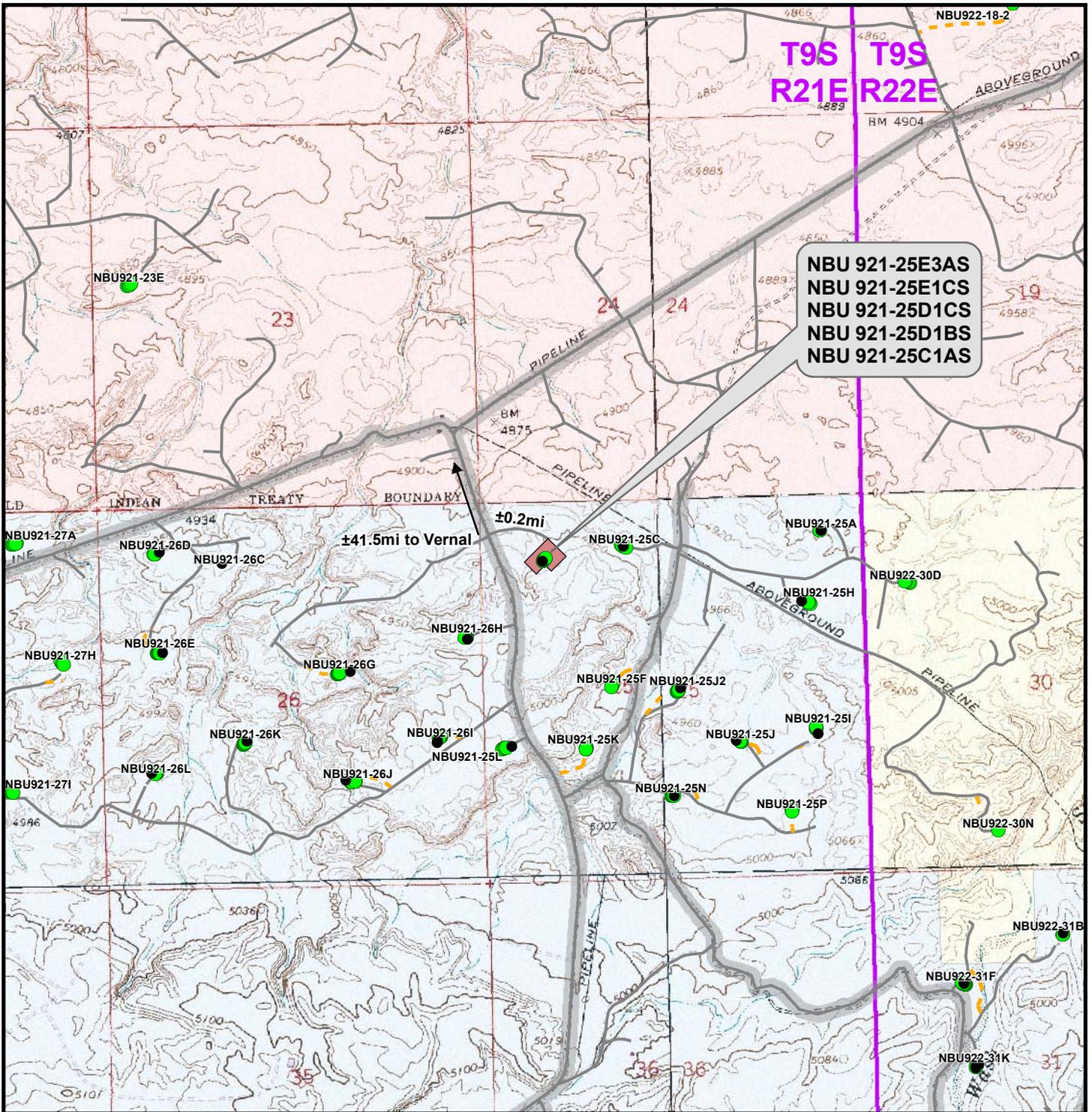
TOPO A
 NBU 921-25E3AS, NBU 921-25E1CS,
 NBU 921-25D1CS, NBU 921-25D1BS &
 NBU 921-25C1AS
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UINTAH COUNTY, UTAH

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



Scale: 1:100,000	NAD83 USP Central
Drawn: TL	Date: 14 May 2010
Revised: JFE	Date: 7 July 2010

Sheet No:
11 11 of 17



**NBU 921-25E3AS
 NBU 921-25E1CS
 NBU 921-25D1CS
 NBU 921-25D1BS
 NBU 921-25C1AS**

Legend

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

Total Proposed Road Length: ±0ft

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

WELL PAD - NBU 921-25D

TOPO B
 NBU 921-25E3AS, NBU 921-25E1CS,
 NBU 921-25D1CS, NBU 921-25D1BS &
 NBU 921-25C1AS
 LOCATED IN SECTION 25, T9S, R21E
 S.L.B.&M., UTAH COUNTY, UTAH

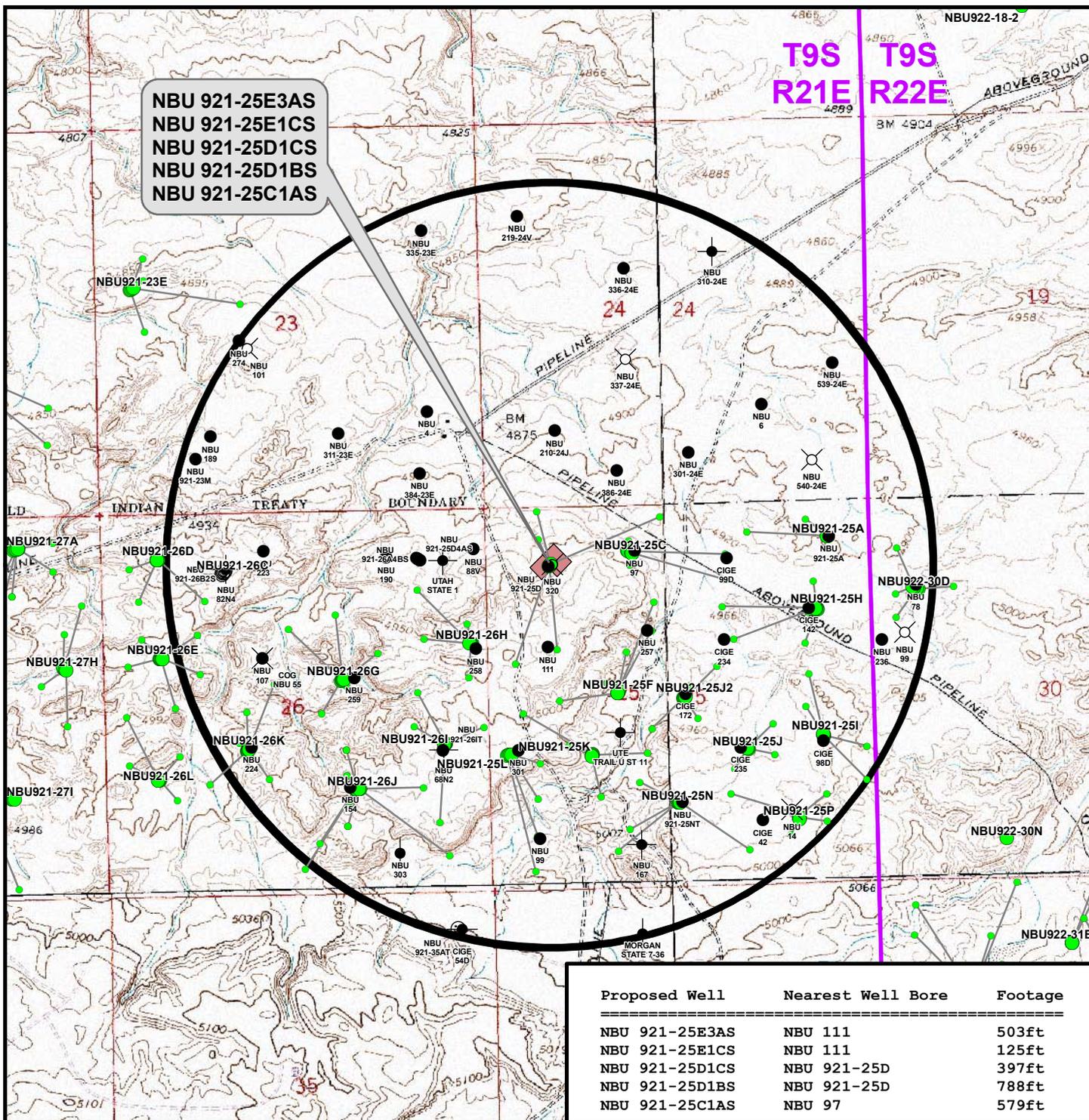


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1" = 2,000ft | NAD83 USP Central
 Drawn: TL | Date: 14 May 2010
 Revised: JFE | Date: 7 July 2010

Sheet No:
12 12 of 17



Proposed Well	Nearest Well Bore	Footage
NBU 921-25E3AS	NBU 111	503ft
NBU 921-25E1CS	NBU 111	125ft
NBU 921-25D1CS	NBU 921-25D	397ft
NBU 921-25D1BS	NBU 921-25D	788ft
NBU 921-25C1AS	NBU 97	579ft

Legend

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius

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

- Producing
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)
- Active
- Spudded (Drilling commenced; Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended

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

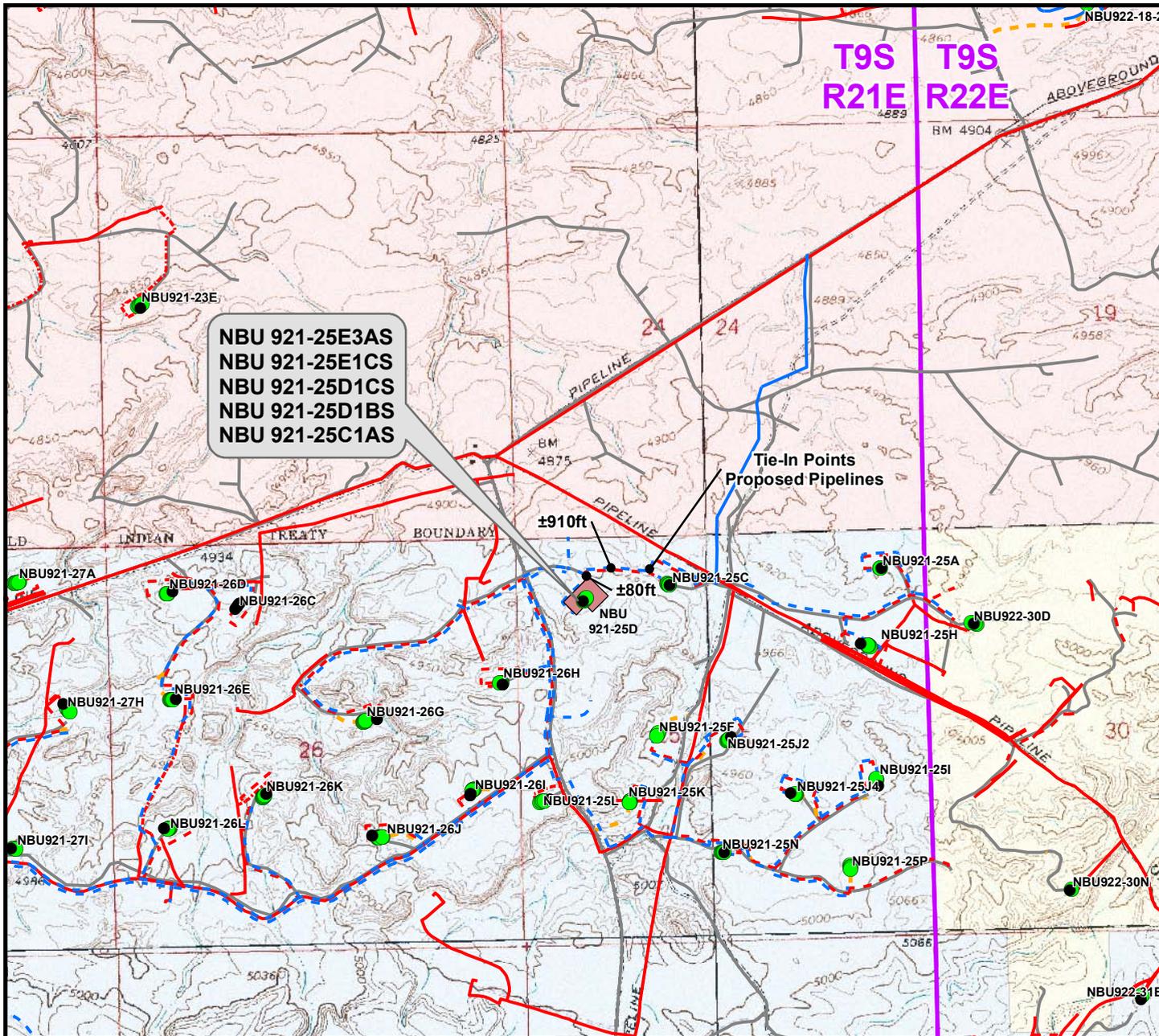
WELL PAD - NBU 921-25D

TOPO C
NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH 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: 13
Drawn: TL	Date: 14 May 2010	13 of 17
Revised: JFE	Date: 7 July 2010	



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±670ft	Proposed 6" (Meter House to Edge of Pad)	±670ft
Proposed 6" (Edge of Pad to 25K Intersection)	±80ft	Proposed 6" (Edge of Pad to 25C Intersection)	±990ft
Proposed 6" (25K Intersection to 25C Intersection)	±910ft		
TOTAL PROPOSED LIQUID PIPELINE =	± 1,660ft	TOTAL PROPOSED GAS PIPELINE =	±1,660ft

Legend

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

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

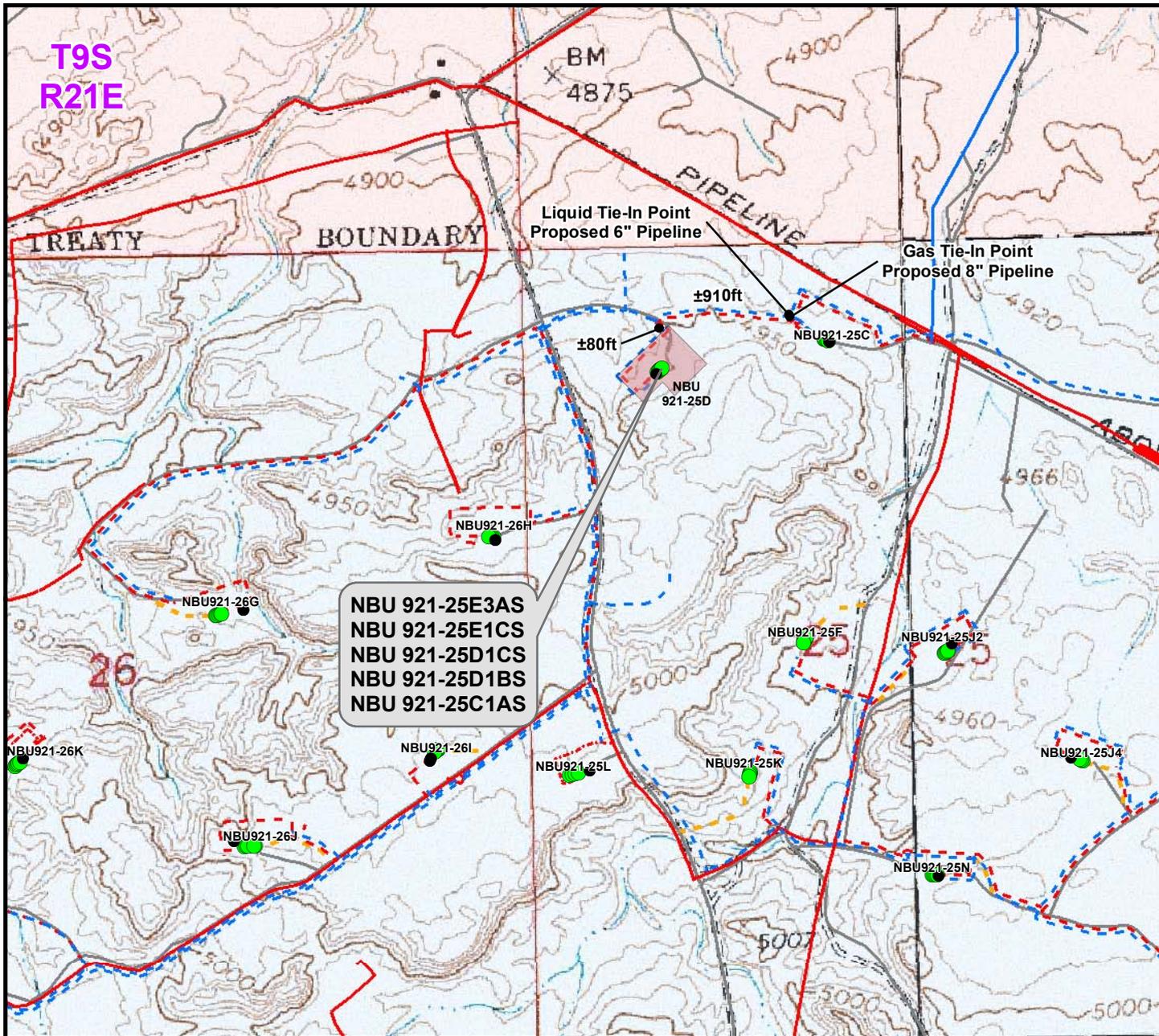
WELL PAD - NBU 921-25D

TOPO D
NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH 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: TL	Date: 14 May 2010	14 14 of 17
Revised: JID	Date: 2 Aug 2010	



Proposed Liquid Pipeline	Length	Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±670ft	Proposed 6" (Meter House to Edge of Pad)	±670ft
Proposed 6" (Edge of Pad to 25K Intersection)	±80ft	Proposed 6" (Edge of Pad to 25C Intersection)	±990ft
Proposed 6" (25K Intersection to 25C Intersection)	±910ft		
TOTAL PROPOSED LIQUID PIPELINE =	± 1,660ft	TOTAL PROPOSED GAS PIPELINE =	±1,660ft

Legend

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

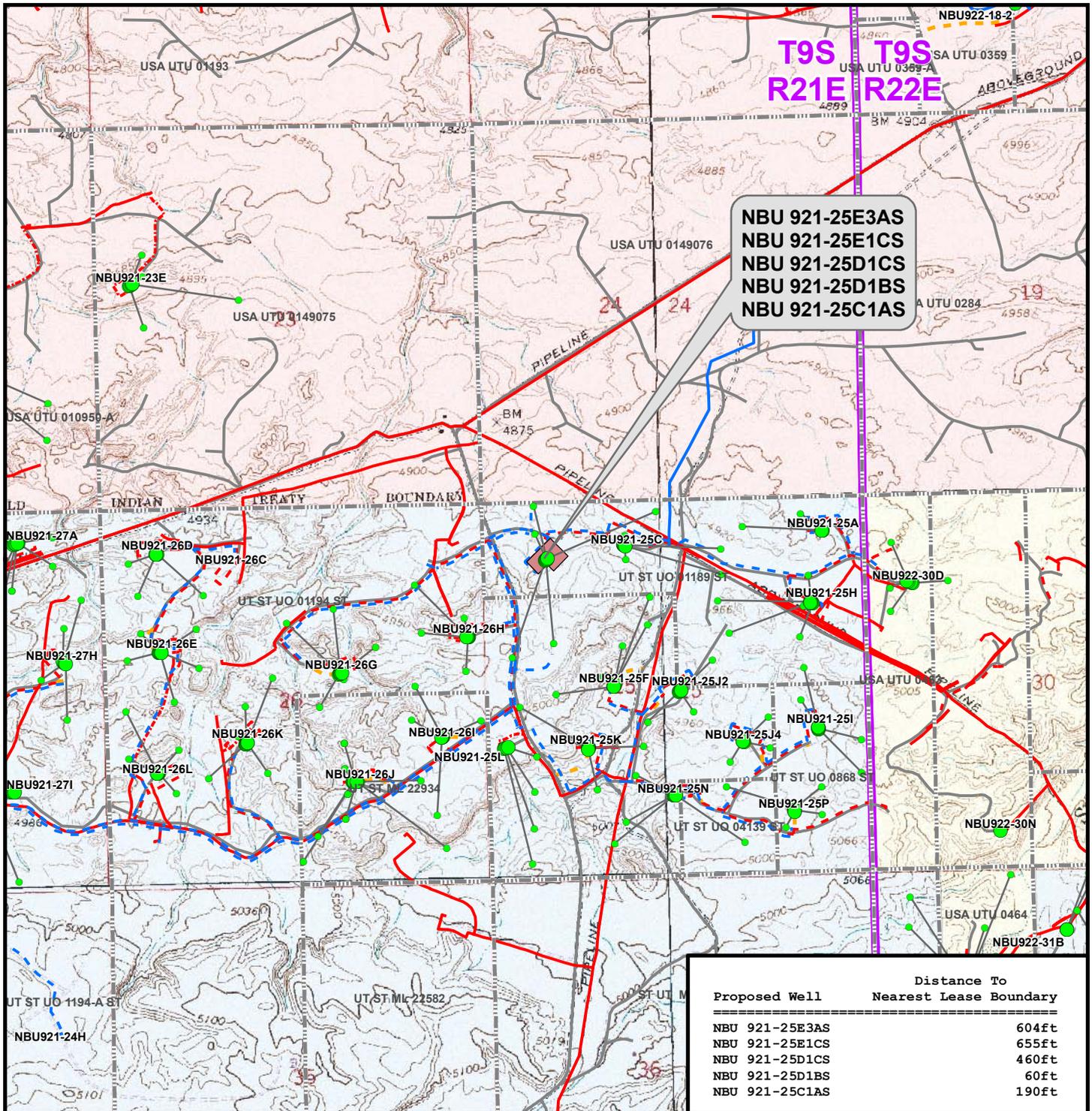
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

WELL PAD - NBU 921-25D

TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, 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

Scale: 1" = 1,000ft	NAD83 USP Central	Sheet No:
Drawn: TL	Date: 14 May 2010	15 15 of 17
Revised: JID	Date: 2 Aug 2010	



**NBU 921-25E3AS
NBU 921-25E1CS
NBU 921-25D1CS
NBU 921-25D1BS
NBU 921-25C1AS**

Proposed Well	Distance To Nearest Lease Boundary
NBU 921-25E3AS	604ft
NBU 921-25E1CS	655ft
NBU 921-25D1CS	460ft
NBU 921-25D1BS	60ft
NBU 921-25C1AS	190ft

Legend

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

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

WELL PAD - NBU 921-25D

TOPO E
NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UTAH 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: TL | Date: 14 May 2010
Revised: JID | Date: 2 Aug 2010

Sheet No:
16 16 of 17

**Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-25D
WELLS – NBU 921-25E3AS, NBU 921-25E1CS,
NBU 921-25D1CS, NBU 921-25D1BS &
NBU 921-25C1AS
Section 25, T9S, R21E, S.L.B.&M.**

From the intersection of U.S. Highway 40 and 500 East Street in Vernal, Utah proceed in an easterly then southerly direction along U.S. Highway 40 approximately 3.3 miles to the junction of State Highway 45; exit right and proceed in a southerly direction along State Highway 45 approximately 20.2 miles to the junction of the Glen Bench Road (County B Road 3260). Exit right and proceed in a southwesterly direction along the Glen Bench Road approximately 18.0 miles to a service road to the east. Exit left and proceed in an easterly direction along service road approximately 0.2 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 41.7 miles in a southerly direction.

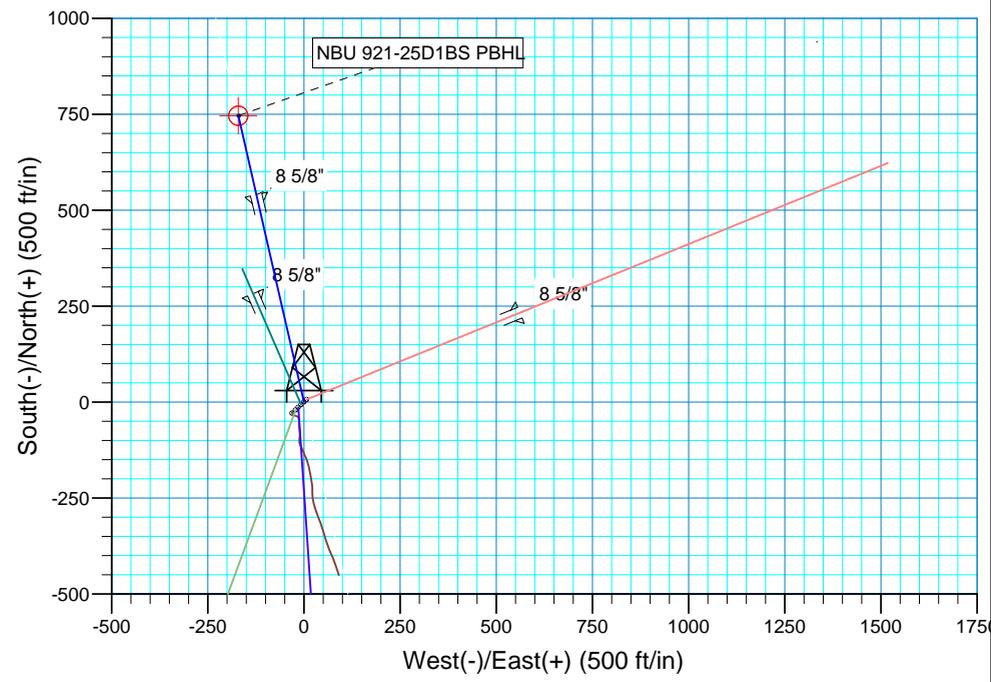
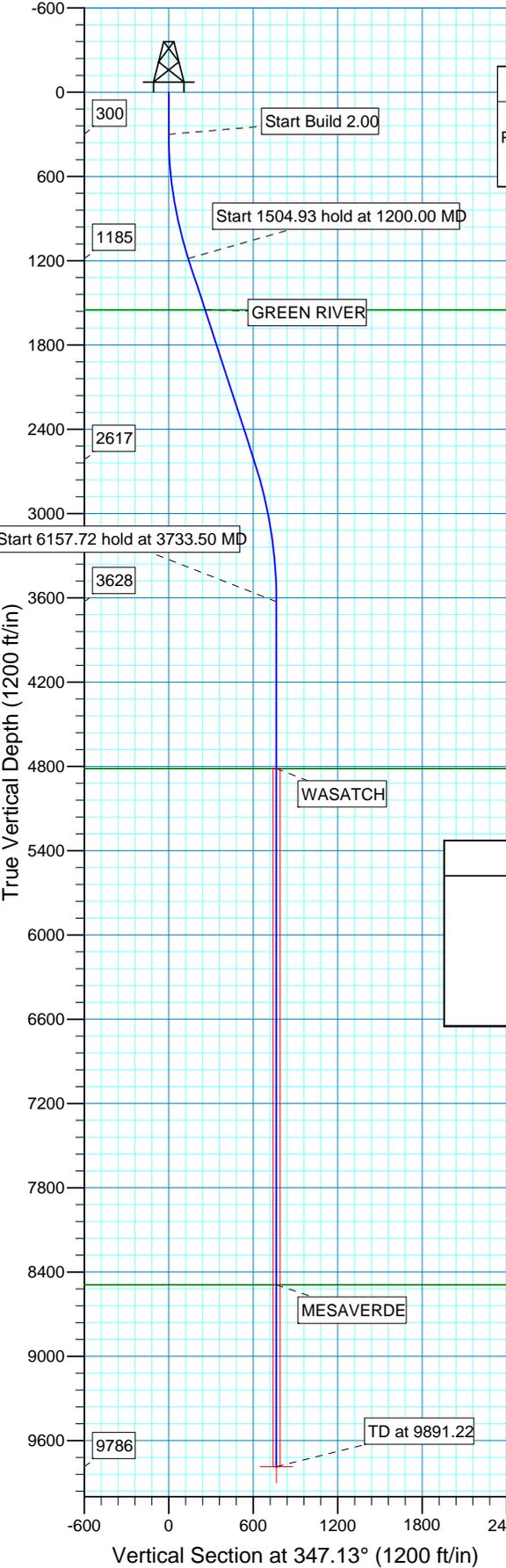
WELL DETAILS: NBU 921-25D1BS

		GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)		4941.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14533946.43	2058853.10	40° 0' 43.434 N	109° 30' 20.383 W

Azimuths to True North
 Magnetic North: 11.19°
 Magnetic Field
 Strength: 52422.5snT
 Dip Angle: 65.90°
 Date: 07/29/2010
 Model: IGRF2010

WELLBORE TARGET DETAILS (MAP CO-ORDINATES AND LAT/LONG)

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9786.00	746.26	-170.55	14534689.73	2058670.05	40° 0' 50.810 N	109° 30' 22.576 W	Circle (Radius: 25.0)



SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
1	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
2	300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	
3	1200.00	18.00	347.13	1185.27	136.69	-31.24	2.00	347.13	140.21	
4	2704.93	18.00	347.13	2616.54	590.05	-134.85	0.00	0.00	605.26	
5	3733.50	0.00	0.00	3628.28	746.26	-170.55	1.75	180.00	765.51	
6	9891.22	0.00	0.00	9786.00	746.26	-170.55	0.00	0.00	765.51	NBU 921-25D1BS PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1551.00	1584.55	GREEN RIVER
4816.00	4921.22	WASATCH
8492.00	8597.22	MESAVERDE

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
 Datum: NAD 1927 - Western US
 Ellipsoid: Clarke 1866
 Zone: Zone 12N (114 W to 108 W)
 Location: SEC 25 T9S R21E
 System Datum: Mean Sea Level
 Local North: No north reference data is available



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25D Pad
NBU 921-25D1BS
OH**

Plan: Plan #1

Standard Planning Report

29 July, 2010



SDI
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25D Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,533,953.48 ft	Latitude:	40° 0' 43.502 N
From:	Lat/Long	Easting:	2,058,860.26 ft	Longitude:	109° 30' 20.290 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.96 °

Well	NBU 921-25D1BS, 807' FNL 885' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,533,946.43 ft	Latitude:	40° 0' 43.434 N
	+E/-W	0.00 ft	Easting:	2,058,853.10 ft	Longitude:	109° 30' 20.383 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,941.00 ft

Wellbore	OH
-----------------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/29/2010	11.19	65.90	52,423

Design	Plan #1
---------------	---------

Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
	0.00 0.00 0.00 347.13

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	18.00	347.13	1,185.27	136.69	-31.24	2.00	2.00	0.00	347.13	
2,704.93	18.00	347.13	2,616.54	590.05	-134.85	0.00	0.00	0.00	0.00	
3,733.50	0.00	0.00	3,628.28	746.26	-170.55	1.75	-1.75	0.00	180.00	
9,891.22	0.00	0.00	9,786.00	746.26	-170.55	0.00	0.00	0.00	0.00	NBU 921-25D1BS f



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 2.00									
400.00	2.00	347.13	399.98	1.70	-0.39	1.75	2.00	2.00	0.00
500.00	4.00	347.13	499.84	6.80	-1.55	6.98	2.00	2.00	0.00
600.00	6.00	347.13	599.45	15.30	-3.50	15.69	2.00	2.00	0.00
700.00	8.00	347.13	698.70	27.18	-6.21	27.88	2.00	2.00	0.00
800.00	10.00	347.13	797.47	42.43	-9.70	43.52	2.00	2.00	0.00
900.00	12.00	347.13	895.62	61.03	-13.95	62.60	2.00	2.00	0.00
1,000.00	14.00	347.13	993.06	82.96	-18.96	85.10	2.00	2.00	0.00
1,100.00	16.00	347.13	1,089.64	108.19	-24.73	110.98	2.00	2.00	0.00
1,200.00	18.00	347.13	1,185.27	136.69	-31.24	140.21	2.00	2.00	0.00
Start 1504.93 hold at 1200.00 MD									
1,300.00	18.00	347.13	1,280.37	166.81	-38.12	171.11	0.00	0.00	0.00
1,400.00	18.00	347.13	1,375.48	196.94	-45.01	202.02	0.00	0.00	0.00
1,500.00	18.00	347.13	1,470.59	227.06	-51.89	232.92	0.00	0.00	0.00
1,584.55	18.00	347.13	1,551.00	252.53	-57.72	259.05	0.00	0.00	0.00
GREEN RIVER									
1,600.00	18.00	347.13	1,565.69	257.19	-58.78	263.82	0.00	0.00	0.00
1,700.00	18.00	347.13	1,660.80	287.31	-65.66	294.72	0.00	0.00	0.00
1,800.00	18.00	347.13	1,755.90	317.44	-72.55	325.62	0.00	0.00	0.00
1,900.00	18.00	347.13	1,851.01	347.56	-79.43	356.52	0.00	0.00	0.00
2,000.00	18.00	347.13	1,946.11	377.69	-86.32	387.43	0.00	0.00	0.00
2,100.00	18.00	347.13	2,041.22	407.81	-93.20	418.33	0.00	0.00	0.00
2,200.00	18.00	347.13	2,136.32	437.94	-100.09	449.23	0.00	0.00	0.00
2,300.00	18.00	347.13	2,231.43	468.06	-106.97	480.13	0.00	0.00	0.00
2,400.00	18.00	347.13	2,326.54	498.19	-113.86	511.03	0.00	0.00	0.00
2,500.00	18.00	347.13	2,421.64	528.31	-120.74	541.93	0.00	0.00	0.00
2,540.33	18.00	347.13	2,460.00	540.46	-123.52	554.40	0.00	0.00	0.00
8 5/8"									
2,600.00	18.00	347.13	2,516.75	558.44	-127.63	572.84	0.00	0.00	0.00
2,700.00	18.00	347.13	2,611.85	588.56	-134.51	603.74	0.00	0.00	0.00
2,704.93	18.00	347.13	2,616.54	590.05	-134.85	605.26	0.00	0.00	0.00
Start Drop -1.75									
2,800.00	16.34	347.13	2,707.37	617.40	-141.10	633.32	1.75	-1.75	0.00
2,900.00	14.59	347.13	2,803.75	643.39	-147.04	659.98	1.75	-1.75	0.00
3,000.00	12.84	347.13	2,900.90	666.50	-152.32	683.68	1.75	-1.75	0.00
3,100.00	11.09	347.13	2,998.72	686.70	-156.94	704.41	1.75	-1.75	0.00
3,200.00	9.34	347.13	3,097.13	703.98	-160.89	722.13	1.75	-1.75	0.00
3,300.00	7.59	347.13	3,196.04	718.33	-164.17	736.85	1.75	-1.75	0.00
3,400.00	5.84	347.13	3,295.35	729.72	-166.77	748.53	1.75	-1.75	0.00
3,500.00	4.09	347.13	3,394.97	738.15	-168.70	757.18	1.75	-1.75	0.00
3,600.00	2.34	347.13	3,494.81	743.61	-169.95	762.78	1.75	-1.75	0.00
3,700.00	0.59	347.13	3,594.78	746.10	-170.52	765.33	1.75	-1.75	0.00
3,733.50	0.00	0.00	3,628.28	746.26	-170.55	765.51	1.75	-1.75	0.00
Start 6157.72 hold at 3733.50 MD									
3,800.00	0.00	0.00	3,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
3,900.00	0.00	0.00	3,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,000.00	0.00	0.00	3,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,100.00	0.00	0.00	3,994.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,200.00	0.00	0.00	4,094.78	746.26	-170.55	765.51	0.00	0.00	0.00



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,300.00	0.00	0.00	4,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,400.00	0.00	0.00	4,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,500.00	0.00	0.00	4,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,600.00	0.00	0.00	4,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,700.00	0.00	0.00	4,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,800.00	0.00	0.00	4,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,900.00	0.00	0.00	4,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
4,921.22	0.00	0.00	4,816.00	746.26	-170.55	765.51	0.00	0.00	0.00
WASATCH									
5,000.00	0.00	0.00	4,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,100.00	0.00	0.00	4,994.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,200.00	0.00	0.00	5,094.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,300.00	0.00	0.00	5,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,400.00	0.00	0.00	5,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,500.00	0.00	0.00	5,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,600.00	0.00	0.00	5,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,700.00	0.00	0.00	5,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,800.00	0.00	0.00	5,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
5,900.00	0.00	0.00	5,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,000.00	0.00	0.00	5,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,100.00	0.00	0.00	5,994.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,200.00	0.00	0.00	6,094.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,300.00	0.00	0.00	6,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,400.00	0.00	0.00	6,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,500.00	0.00	0.00	6,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,600.00	0.00	0.00	6,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,700.00	0.00	0.00	6,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,800.00	0.00	0.00	6,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
6,900.00	0.00	0.00	6,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,000.00	0.00	0.00	6,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,100.00	0.00	0.00	6,994.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,200.00	0.00	0.00	7,094.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,300.00	0.00	0.00	7,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,400.00	0.00	0.00	7,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,500.00	0.00	0.00	7,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,600.00	0.00	0.00	7,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,700.00	0.00	0.00	7,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,800.00	0.00	0.00	7,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
7,900.00	0.00	0.00	7,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,000.00	0.00	0.00	7,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,100.00	0.00	0.00	7,994.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,200.00	0.00	0.00	8,094.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,300.00	0.00	0.00	8,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,400.00	0.00	0.00	8,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,500.00	0.00	0.00	8,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,597.22	0.00	0.00	8,492.00	746.26	-170.55	765.51	0.00	0.00	0.00
MESAVERDE									
8,600.00	0.00	0.00	8,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,700.00	0.00	0.00	8,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,800.00	0.00	0.00	8,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
8,900.00	0.00	0.00	8,794.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,000.00	0.00	0.00	8,894.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,100.00	0.00	0.00	8,994.78	746.26	-170.55	765.51	0.00	0.00	0.00



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
NBU 921-25D Pad
NBU 921-25D1BS
OH**

Plan: Plan #1

Standard Planning Report - Geographic

29 July, 2010



SDI
Planning Report - Geographic



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project	Uintah County, UT UTM12		
Map System:	Universal Transverse Mercator (US Survey Fee	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 - Western US		
Map Zone:	Zone 12N (114 W to 108 W)		

Site	NBU 921-25D Pad, SEC 25 T9S R21E				
Site Position:		Northing:	14,533,953.48 ft	Latitude:	40° 0' 43.502 N
From:	Lat/Long	Easting:	2,058,860.26 ft	Longitude:	109° 30' 20.290 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	0.96 °

Well	NBU 921-25D1BS, 807' FNL 885' FWL					
Well Position	+N/-S	0.00 ft	Northing:	14,533,946.43 ft	Latitude:	40° 0' 43.434 N
	+E/-W	0.00 ft	Easting:	2,058,853.10 ft	Longitude:	109° 30' 20.383 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	4,941.00 ft

Wellbore	OH
-----------------	----

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/29/2010	11.19	65.90	52,423

Design	Plan #1
---------------	---------

Audit Notes:	
Version:	Phase: PLAN Tie On Depth: 0.00
Vertical Section:	Depth From (TVD) (ft) +N/-S (ft) +E/-W (ft) Direction (°)
	0.00 0.00 0.00 347.13

Plan Sections										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,200.00	18.00	347.13	1,185.27	136.69	-31.24	2.00	2.00	0.00	347.13	
2,704.93	18.00	347.13	2,616.54	590.05	-134.85	0.00	0.00	0.00	0.00	
3,733.50	0.00	0.00	3,628.28	746.26	-170.55	1.75	-1.75	0.00	180.00	
9,891.22	0.00	0.00	9,786.00	746.26	-170.55	0.00	0.00	0.00	0.00	NBU 921-25D1BS F



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,533,946.43	2,058,853.10	40° 0' 43.434 N	109° 30' 20.383 W
100.00	0.00	0.00	100.00	0.00	0.00	14,533,946.43	2,058,853.10	40° 0' 43.434 N	109° 30' 20.383 W
200.00	0.00	0.00	200.00	0.00	0.00	14,533,946.43	2,058,853.10	40° 0' 43.434 N	109° 30' 20.383 W
300.00	0.00	0.00	300.00	0.00	0.00	14,533,946.43	2,058,853.10	40° 0' 43.434 N	109° 30' 20.383 W
Start Build 2.00									
400.00	2.00	347.13	399.98	1.70	-0.39	14,533,948.13	2,058,852.68	40° 0' 43.451 N	109° 30' 20.388 W
500.00	4.00	347.13	499.84	6.80	-1.55	14,533,953.21	2,058,851.43	40° 0' 43.501 N	109° 30' 20.403 W
600.00	6.00	347.13	599.45	15.30	-3.50	14,533,961.67	2,058,849.34	40° 0' 43.585 N	109° 30' 20.428 W
700.00	8.00	347.13	698.70	27.18	-6.21	14,533,973.51	2,058,846.43	40° 0' 43.703 N	109° 30' 20.463 W
800.00	10.00	347.13	797.47	42.43	-9.70	14,533,988.69	2,058,842.69	40° 0' 43.853 N	109° 30' 20.508 W
900.00	12.00	347.13	895.62	61.03	-13.95	14,534,007.22	2,058,838.13	40° 0' 44.037 N	109° 30' 20.562 W
1,000.00	14.00	347.13	993.06	82.96	-18.96	14,534,029.06	2,058,832.75	40° 0' 44.254 N	109° 30' 20.627 W
1,100.00	16.00	347.13	1,089.64	108.19	-24.73	14,534,054.19	2,058,826.56	40° 0' 44.503 N	109° 30' 20.701 W
1,200.00	18.00	347.13	1,185.27	136.69	-31.24	14,534,082.58	2,058,819.57	40° 0' 44.785 N	109° 30' 20.785 W
Start 1504.93 hold at 1200.00 MD									
1,300.00	18.00	347.13	1,280.37	166.81	-38.12	14,534,112.58	2,058,812.18	40° 0' 45.083 N	109° 30' 20.873 W
1,400.00	18.00	347.13	1,375.48	196.94	-45.01	14,534,142.59	2,058,804.79	40° 0' 45.381 N	109° 30' 20.962 W
1,500.00	18.00	347.13	1,470.59	227.06	-51.89	14,534,172.60	2,058,797.40	40° 0' 45.678 N	109° 30' 21.050 W
1,584.55	18.00	347.13	1,551.00	252.53	-57.72	14,534,197.97	2,058,791.15	40° 0' 45.930 N	109° 30' 21.125 W
GREEN RIVER									
1,600.00	18.00	347.13	1,565.69	257.19	-58.78	14,534,202.60	2,058,790.01	40° 0' 45.976 N	109° 30' 21.139 W
1,700.00	18.00	347.13	1,660.80	287.31	-65.66	14,534,232.61	2,058,782.62	40° 0' 46.274 N	109° 30' 21.227 W
1,800.00	18.00	347.13	1,755.90	317.44	-72.55	14,534,262.61	2,058,775.23	40° 0' 46.572 N	109° 30' 21.316 W
1,900.00	18.00	347.13	1,851.01	347.56	-79.43	14,534,292.62	2,058,767.84	40° 0' 46.869 N	109° 30' 21.404 W
2,000.00	18.00	347.13	1,946.11	377.69	-86.32	14,534,322.62	2,058,760.46	40° 0' 47.167 N	109° 30' 21.493 W
2,100.00	18.00	347.13	2,041.22	407.81	-93.20	14,534,352.63	2,058,753.07	40° 0' 47.465 N	109° 30' 21.581 W
2,200.00	18.00	347.13	2,136.32	437.94	-100.09	14,534,382.63	2,058,745.68	40° 0' 47.763 N	109° 30' 21.670 W
2,300.00	18.00	347.13	2,231.43	468.06	-106.97	14,534,412.64	2,058,738.29	40° 0' 48.061 N	109° 30' 21.758 W
2,400.00	18.00	347.13	2,326.54	498.19	-113.86	14,534,442.64	2,058,730.90	40° 0' 48.358 N	109° 30' 21.847 W
2,500.00	18.00	347.13	2,421.64	528.31	-120.74	14,534,472.65	2,058,723.51	40° 0' 48.656 N	109° 30' 21.935 W
2,540.33	18.00	347.13	2,460.00	540.46	-123.52	14,534,484.75	2,058,720.53	40° 0' 48.776 N	109° 30' 21.971 W
8 5/8"									
2,600.00	18.00	347.13	2,516.75	558.44	-127.63	14,534,502.65	2,058,716.12	40° 0' 48.954 N	109° 30' 22.024 W
2,700.00	18.00	347.13	2,611.85	588.56	-134.51	14,534,532.66	2,058,708.73	40° 0' 49.252 N	109° 30' 22.112 W
2,704.93	18.00	347.13	2,616.54	590.05	-134.85	14,534,534.14	2,058,708.37	40° 0' 49.266 N	109° 30' 22.117 W
Start Drop -1.75									
2,800.00	16.34	347.13	2,707.37	617.40	-141.10	14,534,561.38	2,058,701.66	40° 0' 49.537 N	109° 30' 22.197 W
2,900.00	14.59	347.13	2,803.75	643.39	-147.04	14,534,587.27	2,058,695.28	40° 0' 49.794 N	109° 30' 22.273 W
3,000.00	12.84	347.13	2,900.90	666.50	-152.32	14,534,610.28	2,058,689.62	40° 0' 50.022 N	109° 30' 22.341 W
3,100.00	11.09	347.13	2,998.72	686.70	-156.94	14,534,630.41	2,058,684.66	40° 0' 50.222 N	109° 30' 22.401 W
3,200.00	9.34	347.13	3,097.13	703.98	-160.89	14,534,647.62	2,058,680.42	40° 0' 50.392 N	109° 30' 22.451 W
3,300.00	7.59	347.13	3,196.04	718.33	-164.17	14,534,661.91	2,058,676.90	40° 0' 50.534 N	109° 30' 22.494 W
3,400.00	5.84	347.13	3,295.35	729.72	-166.77	14,534,673.25	2,058,674.11	40° 0' 50.647 N	109° 30' 22.527 W
3,500.00	4.09	347.13	3,394.97	738.15	-168.70	14,534,681.65	2,058,672.04	40° 0' 50.730 N	109° 30' 22.552 W
3,600.00	2.34	347.13	3,494.81	743.61	-169.95	14,534,687.09	2,058,670.70	40° 0' 50.784 N	109° 30' 22.568 W
3,700.00	0.59	347.13	3,594.78	746.10	-170.52	14,534,689.56	2,058,670.09	40° 0' 50.809 N	109° 30' 22.575 W
3,733.50	0.00	0.00	3,628.28	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
Start 6157.72 hold at 3733.50 MD									
3,800.00	0.00	0.00	3,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
3,900.00	0.00	0.00	3,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,000.00	0.00	0.00	3,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,100.00	0.00	0.00	3,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,200.00	0.00	0.00	4,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W



SDI
Planning Report - Geographic



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,300.00	0.00	0.00	4,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,400.00	0.00	0.00	4,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,500.00	0.00	0.00	4,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,600.00	0.00	0.00	4,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,700.00	0.00	0.00	4,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,800.00	0.00	0.00	4,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,900.00	0.00	0.00	4,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
4,921.22	0.00	0.00	4,816.00	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
WASATCH									
5,000.00	0.00	0.00	4,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,100.00	0.00	0.00	4,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,200.00	0.00	0.00	5,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,300.00	0.00	0.00	5,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,400.00	0.00	0.00	5,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,500.00	0.00	0.00	5,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,600.00	0.00	0.00	5,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,700.00	0.00	0.00	5,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,800.00	0.00	0.00	5,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
5,900.00	0.00	0.00	5,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,000.00	0.00	0.00	5,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,100.00	0.00	0.00	5,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,200.00	0.00	0.00	6,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,300.00	0.00	0.00	6,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,400.00	0.00	0.00	6,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,500.00	0.00	0.00	6,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,600.00	0.00	0.00	6,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,700.00	0.00	0.00	6,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,800.00	0.00	0.00	6,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
6,900.00	0.00	0.00	6,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,000.00	0.00	0.00	6,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,100.00	0.00	0.00	6,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,200.00	0.00	0.00	7,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,300.00	0.00	0.00	7,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,400.00	0.00	0.00	7,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,500.00	0.00	0.00	7,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,600.00	0.00	0.00	7,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,700.00	0.00	0.00	7,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,800.00	0.00	0.00	7,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
7,900.00	0.00	0.00	7,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,000.00	0.00	0.00	7,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,100.00	0.00	0.00	7,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,200.00	0.00	0.00	8,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,300.00	0.00	0.00	8,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,400.00	0.00	0.00	8,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,500.00	0.00	0.00	8,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,597.22	0.00	0.00	8,492.00	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
MESAVERDE									
8,600.00	0.00	0.00	8,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,700.00	0.00	0.00	8,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,800.00	0.00	0.00	8,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
8,900.00	0.00	0.00	8,794.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,000.00	0.00	0.00	8,894.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,100.00	0.00	0.00	8,994.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,200.00	0.00	0.00	9,094.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
9,300.00	0.00	0.00	9,194.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,400.00	0.00	0.00	9,294.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,500.00	0.00	0.00	9,394.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,600.00	0.00	0.00	9,494.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,700.00	0.00	0.00	9,594.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,800.00	0.00	0.00	9,694.78	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
9,891.22	0.00	0.00	9,786.00	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W

TD at 9891.22 - NBU 921-25D1BS PBHL

Targets

Target Name	- hit/miss target	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 921-25D1BS PB	- plan hits target center	0.00	0.00	9,786.00	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W
	- Circle (radius 25.00)									

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,540.33	2,460.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,584.55	1,551.00	GREEN RIVER			
4,921.22	4,816.00	WASATCH			
8,597.22	8,492.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
300.00	300.00	0.00	0.00	Start Build 2.00
1,200.00	1,185.27	136.69	-31.24	Start 1504.93 hold at 1200.00 MD
2,704.93	2,616.54	590.05	-134.85	Start Drop -1.75
3,733.50	3,628.28	746.26	-170.55	Start 6157.72 hold at 3733.50 MD
9,891.22	9,786.00	746.26	-170.55	TD at 9891.22



SDI
Planning Report



Database:	EDM 2003.16 Single User Db	Local Co-ordinate Reference:	Well NBU 921-25D1BS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	MD Reference:	GL 4941' & RKB 14' @ 4955.00ft (ASSUMED)
Site:	NBU 921-25D Pad	North Reference:	True
Well:	NBU 921-25D1BS	Survey Calculation Method:	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Planned Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
9,200.00	0.00	0.00	9,094.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,300.00	0.00	0.00	9,194.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,400.00	0.00	0.00	9,294.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,500.00	0.00	0.00	9,394.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,600.00	0.00	0.00	9,494.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,700.00	0.00	0.00	9,594.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,800.00	0.00	0.00	9,694.78	746.26	-170.55	765.51	0.00	0.00	0.00
9,891.22	0.00	0.00	9,786.00	746.26	-170.55	765.51	0.00	0.00	0.00
TD at 9891.22 - NBU 921-25D1BS PBHL									

Targets

Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude
NBU 921-25D1BS PB - hit/miss target - Shape - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,786.00	746.26	-170.55	14,534,689.73	2,058,670.05	40° 0' 50.810 N	109° 30' 22.576 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,540.33	2,460.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,584.55	1,551.00	GREEN RIVER			
4,921.22	4,816.00	WASATCH			
8,597.22	8,492.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	+E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,200.00	1,185.27	136.69	-31.24	Start 1504.93 hold at 1200.00 MD
2,704.93	2,616.54	590.05	-134.85	Start Drop -1.75
3,733.50	3,628.28	746.26	-170.55	Start 6157.72 hold at 3733.50 MD
9,891.22	9,786.00	746.26	-170.55	TD at 9891.22

NBU 921-25C1AS

Surface: 800' FNL 893' FWL (NW/4NW/4)
BHL: 190' FNL 2,405' FWL (NE/4NW/4)
Mineral Lease: UO 1189 ST

NBU 921-25D1BS

Surface: 807' FNL 885' FWL (NW/4NW/4)
BHL: 60' FNL 716' FWL (NW/4NW/4)
Mineral Lease: UO 1189 ST

NBU 921-25D1CS

Surface: 814' FNL 878' FWL (NW/4NW/4)
BHL: 460' FNL 726' FWL (NW/4NW/4)
Mineral Lease: UO 1189 ST

NBU 921-25E1CS

Surface: 821' FNL 871' FWL (NW/4NW/4)
BHL: 1,976' FNL 947' FWL (SW/4NW/4)
Mineral Lease: UO 1194 ST

NBU 921-25E3AS

Surface: 828' FNL 864' FWL (NW/4NW/4)
BHL: 2,162' FNL 371' FWL (SW/4NW/4)
Mineral Lease: UO 1194 ST

Pad: NBU 921-25D
Section 25 T9S R21E

Uintah County, Utah
Operator: Kerr-McGee Oil & Gas Onshore LP

MULTI-POINT SURFACE USE PLAN of OPERATIONS (SUPO)

This SUPO contains surface operating procedures for Kerr-McGee Oil & Gas Onshore LP (KMG), a wholly owned subsidiary of Anadarko Petroleum Corporation (APC) pertaining to actions that involve the State of Utah School and Institutional Trust Lands Administration (SITLA) in the development of minerals leased to APC/KMG (including, but not limited to, APDs/SULAs/ROEs/ROWs and/or easements).

See associated Utah Division of Oil, Gas, and Mining (UDOGM) Form 3(s), plats, maps, and other attachments for site-specific information on projects represented herein.

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

A. Existing Roads:

Existing roads consist of county roads and improved/unimproved lease roads. APC/KMG will maintain

existing roads in a condition that is the same as or better than before operations began and in a safe and usable condition. Maintenance of existing roads will continue until final abandonment and reclamation of well pads and/or other facilities. The road maintenance may include, but is not limited to, blading, ditching, culvert installation/cleanout, surfacing, and dust control.

Typically, roads, gathering lines and electrical distribution lines will occupy common disturbance corridors and roadways will be used as working space. All disturbances located in the same corridor will overlap each other to the maximum extent possible; in no case will the maximum disturbance width of the access road and utility corridors exceed 50', unless otherwise approved.

B. Planned Access Roads:

No new access road to this pad location is proposed (see Topo Map B). Applicable Uintah County encroachment and/or pipeline crossing permits will be obtained prior to construction/development. No other pipelines will be crossed at this location.

Where roads are new or to be reconstructed, they will be located, designed, and maintained to meet the standards of SITLA and other commonly accepted Best Management Practices (BMPs). If a new road/corridor were to cross a water of the United States, KMG will adhere to the requirements of applicable Nationwide or Individual Permits of the Department of Army Corps of Engineers.

Turnouts; major cut and fills; culverts; bridges; gates; cattle guards; low water crossings; or modifications needed to existing infrastructure/facilities were determined at the on-site and, as applicable, are typically shown on attached Exhibits and Topo maps.

C. Location of Existing and Proposed Facilities:

This pad will expand the existing pad for the NBU 921-25D, which is a vertical producing well according to Utah Division of Oil, Gas and Mining (UDOGM) records as of August 12, 2010.

Production facilities (see Well Pad Design Summary and Facilities Diagram):

Production facilities will be installed on the disturbed portion of each well pad and may include bermed components (typically excluding dehy's and/or separators) that contain fluids (i.e. production tanks, produced liquids tanks). The berms will be constructed of compacted subsoil or corrugated metal, impervious, designed to hold 110% of the capacity of the largest tank, and be independent of the back cut. All permanent (on-site six months or longer) aboveground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earth-tone color chosen at the onsite in coordination with SITLA.

Production tanks will be constructed, maintained, and operated to prevent unauthorized surface or subsurface discharges of liquids and to prevent livestock or wildlife entry. The tanks are not to be used for disposal of liquids from additional sources without prior approval of UDOGM.

Gathering facilities:

The following pipeline transmission facilities will apply if the well is productive (see Topo D):

The total gas gathering (steel line pipe with fusion bond epoxy coating) pipeline distances from the meter to the tie in point is $\pm 1,660'$ and the individual segments are broken up as follows:

$\pm 670'$ (0.1 miles) –New 6” buried gas pipeline from the meter to the edge of the pad.

$\pm 990'$ (0.2 miles) –New 6” buried gas pipeline from the edge of pad to the NBU 921-25C pad intersection.

The total liquid gathering pipeline distance from the meter to the tie in point is $\pm 1,660'$ and the individual segments are broken up as follows:

$\pm 670'$ (0.1 miles) –New 6” buried liquid pipeline from the meter to the edge of the pad.

$\pm 800'$ (0.2 miles) –New 6” buried liquid pipeline from the edge of pad to the NBU 921-25K pad intersection.

$\pm 910'$ (0.2 miles) –New 6” buried liquid pipeline from the NBU 921-25K pad intersection to the NBU 921-25C pad intersection. .

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

The proposed pipelines will be buried and will include gas gathering and liquid gathering pipelines in the same trench. Where the pipeline is adjacent to the road or well pad, the road and/or well pad will be utilized for construction activities and staging. Kerr-McGee requests a permanent 30' right-of-way adjacent to the road for life-of-project for maintenance, repairs, and/or upgrades, no additional right-of-way will be needed beyond the 30'. Where the pipeline is not adjacent to the road or well pad, Kerr-McGee requests a temporary 45' construction right-of-way and 30' permanent right-of-way.

The proposed trench width for the pipeline would range from 18-48 inches and will be excavated to a depth of 48 to 60 inches of normal soil cover or 24 inches of cover in consolidated rock. During construction blasting may occur along the proposed right-of-way where trenching equipment cannot cut into the bedrock. Large debris and rocks removed from the earth during trenching and blasting that could not be returned to the trench would be distributed evenly and naturally in the project area. The proposed pipelines will be pressure tested pneumatically (depending on size) or with fluids (either fresh or produced). If fluids are used, there will be no discharge to the surface.

Pipeline signs will be installed along the right-of-way to indicate the pipeline proximity, ownership, and to provide emergency contact phone numbers. Above ground valves, T's, and/or cathodic protection will be installed at various locations for connection, corrosion prevention and/or for safety purposes.

D. 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.

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

No water well is to be drilled on this lease.

E. Source of Construction Materials:

Construction operations will typically be completed with native materials found on location. If needed, construction materials that must be imported to the site (mineral material aggregate, soils or materials suitable for fill/surfacing) will be obtained from a nearby permitted source and described in subsequent Sundry requests. No construction materials will be removed from State lands without prior approval from SITLA.

F. Methods of Handling Waste Materials:

Should the well be productive, produced water will be contained in a water tank and will be transported by pipeline and/or truck to an approved disposal sites facilities and/or Salt Water Disposal (SWD) injection well.

Currently, those facilities are:

RNI in Sec. 5 T9S R22E
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
Ouray #1 SWD in Sec. 1 T9S R21E
NBU 159 SWD in Sec. 35 T9S R21E
CIGE 112D SWD in Sec. 19 T9S R21E
CIGE 114 SWD in Sec. 34 T9S R21E
NBU 921-34K SWD in Sec. 34 T9S R21E
NBU 921-33F SWD in Sec. 33 T9S R21E
NBU 921-34L SWD in Sec. 34 T9S R21E

Drill cuttings and/or fluids will be contained in the reserve/frac pit. Cuttings will be buried in pit(s) upon closure. Unless otherwise approved, no oil or other oil-based drilling additives, chromium/metals-based, or saline muds will be used during drilling. Only fresh water (as specified above), biodegradable polymer soap, bentonite clay, and/or non-toxic additives will be used in the mud system.

Pits will be constructed to minimize the accumulation of surface runoff. Should fluid hydrocarbons be encountered during drilling, completions or well testing, product will either be contained in test tanks on the well site or evacuated by vacuum trucks and transported to an approved disposal/sales facility. Should petroleum hydrocarbons unexpectedly be released into a pit, they will be removed as soon as practical but in no case will they remain longer than 72 hours unless an alternate is approved by SITLA. Should timely removal prove infeasible, the pit will be netted with mesh no larger than 1 inch until such time as hydrocarbons can be removed. Hydrocarbon removal will also take place prior to the closure of the pit, unless authorization is provided for disposal via alternative pit closure methods (e.g. solidification).

The reserve and/or fracture stimulation pit will be lined with a synthetic material 20-mil or thicker. The liner will be installed over smooth fill subgrade that is free of pockets, loose rocks, or other materials (i.e. sand, sifted dirt, bentonite, straw, etc.) that could damage the liner. Any additional pits necessary to subsequent operations, such as temporary flare or workover pits, will be contained within the originally approved well pad and disturbance boundaries. Such temporary pits will be backfilled and reclaimed within 180 days of completion of work at a well location.

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

Pits containing drilling cuttings, mud, and/or completions fluids will be allowed to dry. Any free fluids remaining after six (6) months from reaching total depth, date of completion, and/or determination of inactivity will be removed (as weather conditions allow) to an approved site and the pit reclaimed. Additional drying methods may include fly-ash solidification or sprinkler evaporation. Installation and operation of any sprinklers, pumps, and equipment will ensure that water spray or mist does not drift. Reserve pit liners will be cut off or folded as near to the mud surface as possible and as safety considerations allow and buried on location.

No garbage or non-exempt substances as defined by Resource Conservation and Recovery Act (RCRA) subtitle C will be placed in the reserve pit. All refuse generated during construction, drilling, completion, and well testing activities will be contained in an enclosed receptacle, removed from the drill locations promptly, and transported to an approved disposal facility.

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

Any undesirable event, accidental release, or in excess of reportable quantities will be managed according to the notification requirements of UDOGMs "Reporting Oil and Gas Undesirable Events" rule, and, where State wells are participatory to a Federal agreement, according to NTL-3A.

Materials Management

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

Chemicals subject to reporting under Title III of the Superfund Amendments and Reauthorization Act (SARA) in quantities of 10,000 pounds or more may be produced and/or stored at production facilities and may be kept in limited quantities on drilling sites and well locations for short periods of time during drilling or completion activities.

G. Ancillary Facilities:

None are anticipated.

H. Well Site Layout (see Well Pad Design Summary):

The location, orientation and aerial extent of each drill pad; reserve/completion/flare pit; access road ingress/egress points, drilling rig, dikes/ditches, existing wells/infrastructure; proposed cuts and fills; and topsoil and spoil material stockpile locations are depicted on the exhibits for each project, where applicable. Site-specific conditions may require slight deviation in actual equipment and facility layout; however, the area of disturbance, as described in the survey, will not be exceeded.

Coordinates are provided in the National Spatial Reference System, North American Datum, 1983 (NAD83) or latest edition. Distances are depicted on each plat to the nearest two adjacent section lines.

I. Plans for Reclamation of the Surface:

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

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

Interim Reclamation

Interim reclamation includes pit closure, re-contouring (where possible), soil bed preparation, topsoil placement, seeding, and/or weed control.

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

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

Final Reclamation

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

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

All unnecessary surface equipment and structures (e.g. cattle guards) and water control structures (e.g. culverts, drainage pipes) not needed to facilitate successful reclamation will be removed during final reclamation. Roads that will be reclaimed will be ripped to a depth of 18 inches where practical, re-contoured to approximate the original contour of the ground and seeded.

Upon successfully completing reclamation of a P&A location, a Final Abandonment Notice will be submitted to UDOGM.

Seeding and Measures Common to Interim and Final Reclamation

Reclaimed areas may be fenced to exclude grazing and encourage re-vegetation.

On slopes where severe erosion can become a problem and the use of machinery is not practical, seed will be hand broadcast and raked with twice the specified amount of seed. The slope will be stabilized using materials specifically designed to prevent erosion on steep slopes and hold seed in place so vegetation can become permanently established. These materials will include, but are not limited to, erosion control blankets and bonded fiber matrix at a rate to achieve a minimum of 80 percent soil coverage.

Seeding will occur year-round as conditions allow. Seed mixes appropriate to the native plant community as determined and specified for each project location based on the site specific soils will be used for re-vegetation. The site specific seed mix will be provided by SITLA.

J. Surface/Mineral Ownership:

SITLA

675 East 500 South, Suite 500

Salt Lake City, UT 84102

K. Other Information:

A Class I literature survey has been conducted by Montgomery Archaeological Consultants, Inc. (MOAC). For additional details please refer to report MOAC 10-125.

A paleontological reconnaissance has been completed by Intermountain Paleo-Consulting (IPC) and a report will be provided under separate cover.

A biological field survey was completed by Grasslands Consulting, Inc. on July 13, 2010. For additional details please refer to report GCI-289.

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

Danielle Piernot
Regulatory Analyst I
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6156

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 for State lease activities is provided by State Surety Bond 22013542, and for applicable Federal lease activities and pursuant to 43 CFR 3104, 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.


Danielle Piernot

August 13, 2010

Date

CLASS I REVIEW OF KERR-MCGEE OIL AND GAS
ONSHORE LP'S 36 PROPOSED WELL LOCATIONS
IN T9S, R21E, SECTION 25
(MOAC Report No. 10-125)
UINTAH COUNTY, UTAH

By:

Nicole Shelnut

Prepared For:

State of Utah
School and Institutional Trust Lands Administration

Prepared Under Contract With:

Kerr-McGee Oil and 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. 10-125

July 26, 2010

State of Utah Public Lands Policy Coordination Office
Permit No. 117

United States Department of Interior (FLPMA)
Permit No. 10-UT-60122



Grasslands Consulting, Inc.

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

SPECIAL STATUS PLANT AND WILDLIFE SPECIES REPORT

Report Number: GCI #289

Report Date: August 03, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 921-25D well pad (Bores: NBU 921-25C1AS, NBU 921-25D1BS, NBU 921-25D1CS, NBU 921-25E3AS, & NBU 921-25E1CS)

Pipeline: Associated pipeline leading to proposed well pad

Location: Section 25, Township 9 South, Range 21 East; Uintah County, Utah

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

Survey Date: July 13, 2010

Observers: Grasslands Consulting, Inc. Biologists: Brad Snopek, Jennie Sinclair, Jonathan Sexauer, Adrienne Cunningham, Garrett Peterson and field technicians.



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

July 15, 2010

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

Re: Directional Drilling R649-3-11
NBU 921-25D1CS
T9S-R21E
Section 25: NWNW surface and bottom hole
Surface: 814' FNL, 878' FWL
Bottom Hole: 460' FNL, 726' FWL
Uintah County, Utah

Dear Ms. Mason:

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

- Kerr-McGee's NBU 921-25D1CS is located within the Natural Buttes Unit area.
- Kerr-McGee is permitting this well as a directional well in order to minimize surface disturbance. Locating the well at the surface location and directionally drilling from this location, Kerr-McGee will be able to utilize the existing road and pipelines in the area.
- Furthermore, Kerr-McGee certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

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

Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney
Sr. Staff Landman

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)

August 17, 2010

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2010 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 2010 within the Natural Buttes Unit, Uintah County, Utah.

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

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25A Pad

43-047-51237	NBU 921-25A2AS	Sec 25 T09S R21E 0489 FNL 0565 FEL
	BHL	Sec 25 T09S R21E 0252 FNL 0865 FEL

43-047-51238	NBU 921-25B1CS	Sec 25 T09S R21E 0489 FNL 0575 FEL
	BHL	Sec 25 T09S R21E 0416 FNL 1676 FEL

NBU 921-25D Pad

43-047-51239	NBU 921-25C1AS	Sec 25 T09S R21E 0800 FNL 0893 FWL
	BHL	Sec 25 T09S R21E 0190 FNL 2405 FWL

43-047-51240	NBU 921-25D1BS	Sec 25 T09S R21E 0807 FNL 0885 FWL
	BHL	Sec 25 T09S R21E 0060 FNL 0716 FWL

43-047-51241	NBU 921-25E1CS	Sec 25 T09S R21E 0821 FNL 0871 FWL
	BHL	Sec 25 T09S R21E 1976 FNL 0947 FWL

43-047-51242	NBU 921-25E3AS	Sec 25 T09S R21E 0828 FNL 0864 FWL
	BHL	Sec 25 T09S R21E 2162 FNL 0371 FWL

43-047-51251	NBU 921-25D1CS	Sec 25 T09S R21E 0814 FNL 0878 FWL
	BHL	Sec 25 T09S R21E 0460 FNL 0726 FWL

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

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25F Pad

43-047-51243	NBU 921-25F1BS	Sec 25 T09S R21E 2580 FNL 1780 FWL
	BHL	Sec 25 T09S R21E 1366 FNL 2296 FWL
43-047-51244	NBU 921-25F1CS	Sec 25 T09S R21E 2571 FNL 1784 FWL
	BHL	Sec 25 T09S R21E 1754 FNL 2259 FWL
43-047-51245	NBU 921-25F3AS	Sec 25 T09S R21E 2589 FNL 1776 FWL
	BHL	Sec 25 T09S R21E 2034 FNL 1905 FWL
43-047-51246	NBU 921-25F3CS	Sec 25 T09S R21E 2598 FNL 1772 FWL
	BHL	Sec 25 T09S R21E 2461 FNL 1628 FWL
43-047-51247	NBU 921-25L1BS	Sec 25 T09S R21E 2607 FNL 1768 FWL
	BHL	Sec 25 T09S R21E 2597 FSL 0969 FWL

NBU 921-25H Pad

43-047-51248	NBU 921-25A3DS	Sec 25 T09S R21E 1498 FNL 0736 FEL
	BHL	Sec 25 T09S R21E 1110 FNL 0776 FEL
43-047-51249	NBU 921-25G1CS	Sec 25 T09S R21E 1489 FNL 0754 FEL
	BHL	Sec 25 T09S R21E 1895 FNL 1893 FEL
43-047-51250	NBU 921-25G2AS	Sec 25 T09S R21E 1484 FNL 0763 FEL
	BHL	Sec 25 T09S R21E 1439 FNL 2042 FEL
43-047-51252	NBU 921-25H2AS	Sec 25 T09S R21E 1493 FNL 0745 FEL
	BHL	Sec 25 T09S R21E 1538 FNL 0857 FEL
43-047-51253	NBU 921-25H2DS	Sec 25 T09S R21E 1502 FNL 0727 FEL
	BHL	Sec 25 T09S R21E 1958 FNL 0913 FEL

NBU 921-25J Pad

43-047-51254	NBU 921-25J4AS	Sec 25 T09S R21E 1878 FSL 1725 FEL
	BHL	Sec 25 T09S R21E 1795 FSL 1360 FEL
43-047-51255	NBU 921-25J4CS	Sec 25 T09S R21E 1886 FSL 1743 FEL
	BHL	Sec 25 T09S R21E 1604 FSL 1920 FEL
43-047-51256	NBU 921-25J1DS	Sec 25 T09S R21E 1882 FSL 1734 FEL
	BHL	Sec 25 T09S R21E 2218 FSL 1381 FEL

NBU 921-25K Pad

43-047-51257	NBU 921-25K4BS	Sec 25 T09S R21E 1838 FSL 1400 FWL
	BHL	Sec 25 T09S R21E 1848 FSL 2161 FWL
43-047-51258	NBU 921-25L2AS	Sec 25 T09S R21E 1848 FSL 1402 FWL
	BHL	Sec 25 T09S R21E 2423 FSL 0465 FWL

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-51259	NBU 921-25L4AS	Sec 25 T09S R21E 1829 FSL 1397 FWL
	BHL	Sec 25 T09S R21E 1975 FSL 1088 FWL
43-047-51260	NBU 921-25N2BS	Sec 25 T09S R21E 1819 FSL 1394 FWL
	BHL	Sec 25 T09S R21E 1260 FSL 1508 FWL
NBU 921-25N Pad		
43-047-51261	NBU 921-25K4CS	Sec 25 T09S R21E 1157 FSL 2585 FWL
	BHL	Sec 25 T09S R21E 1450 FSL 2045 FWL
43-047-51262	NBU 921-25N2DS	Sec 25 T09S R21E 1159 FSL 2565 FWL
	BHL	Sec 25 T09S R21E 0800 FSL 1896 FWL
43-047-51263	NBU 921-25N3AS	Sec 25 T09S R21E 1158 FSL 2575 FWL
	BHL	Sec 25 T09S R21E 0508 FSL 1729 FWL
43-047-51264	NBU 921-25O4BS	Sec 25 T09S R21E 1156 FSL 2595 FWL
	BHL	Sec 25 T09S R21E 0485 FSL 1741 FEL
NBU 921-25C Pad		
43-047-51265	NBU 921-25B3AS	Sec 25 T09S R21E 0645 FNL 1955 FWL
	BHL	Sec 25 T09S R21E 0720 FNL 1985 FEL
43-047-51266	NBU 921-25B3DS	Sec 25 T09S R21E 0654 FNL 1972 FWL
	BHL	Sec 25 T09S R21E 1070 FNL 1985 FEL
43-047-51267	NBU 921-25C2DS	Sec 25 T09S R21E 0640 FNL 1946 FWL
	BHL	Sec 25 T09S R21E 0504 FNL 1975 FWL
43-047-51268	NBU 921-25C3AS	Sec 25 T09S R21E 0650 FNL 1964 FWL
	BHL	Sec 25 T09S R21E 0841 FNL 1975 FWL
NBU 921-25I Pad		
43-047-51269	NBU 921-25H3DS	Sec 25 T09S R21E 2074 FSL 0690 FEL
	BHL	Sec 25 T09S R21E 2395 FNL 0870 FEL
43-047-51270	NBU 921-25I2AS	Sec 25 T09S R21E 2054 FSL 0687 FEL
	BHL	Sec 25 T09S R21E 2445 FSL 0924 FEL
43-047-51271	NBU 921-25I4AS	Sec 25 T09S R21E 2045 FSL 0686 FEL
	BHL	Sec 25 T09S R21E 1882 FSL 0091 FEL
43-047-51272	NBU 921-25I4DS	Sec 25 T09S R21E 2035 FSL 0684 FEL
	BHL	Sec 25 T09S R21E 1420 FSL 0105 FEL
43-047-51273	NBU 921-25IT	Sec 25 T09S R21E 2064 FSL 0689 FEL
	BHL	Sec 25 T09S R21E 2064 FSL 0689 FEL

API # WELL NAME LOCATION

(Proposed PZ WASATCH-MESA VERDE)

NBU 921-25J2 Pad

43-047-51274	NBU	921-25G3AS	Sec 25	T09S	R21E	2611	FSL	2578	FEL
		BHL	Sec 25	T09S	R21E	2265	FNL	2136	FEL
43-047-51275	NBU	921-25G3CS	Sec 25	T09S	R21E	2606	FSL	2587	FEL
		BHL	Sec 25	T09S	R21E	2530	FNL	2518	FEL
43-047-51276	NBU	921-25J2CS	Sec 25	T09S	R21E	2601	FSL	2596	FEL
		BHL	Sec 25	T09S	R21E	2310	FSL	2410	FEL
43-047-51277	NBU	921-25K1CS	Sec 25	T09S	R21E	2596	FSL	2605	FEL
		BHL	Sec 25	T09S	R21E	2186	FSL	2231	FWL

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

Michael L. Coulthard

Digitally signed by Michael L. Coulthard
DN: cn=Michael L. Coulthard, o=Bureau of Land Management, ou=Branch of Minerals,
email=Michael.Coulthard@blm.gov, c=US
Date: 2010.08.17 14:58:46 -0600

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

MCoulthard:mc:8-17-10

From: Jim Davis
To: Bonner, Ed; Garrison, LaVonne; Hill, Brad; Mason, Diana
CC: Bartlett, Floyd; Laura.Gianakos@anadarko.com; Piernot, Danielle; Upch...
Date: 9/2/2010 9:13 AM
Subject: SITLA approval of Kerr McGee wells
Attachments: KMG approvals and paleo 9.1.2010.xlsx

The following wells have been approved by SITLA including arch clearance. Paleo clearance is also granted with stipulations as noted.

Full Paleo monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist.

NBU 922-29F4DS [API #4304751207]	Full Monitoring	IPC 10-08
NBU 922-29G4CS [API #4304751208]	Full Monitoring	IPC 10-08
NBU 922-29J4BS [API #4304751209]	Full Monitoring	IPC 10-08
NBU 922-29K1DS [API #4304751210]	Full Monitoring	IPC 10-08
NBU 922-29G1AS [API #4304751194]	Full Monitoring	IPC 10-06
NBU 922-29G1DS [API #4304751195]	Full Monitoring	IPC 10-06
NBU 922-29G2BS [API #4304751196]	Full Monitoring	IPC 10-06
NBU 922-29G3BS [API #4304751197]	Full Monitoring	IPC 10-06
NBU 921-25A3DS [API 4304751248]	Full Monitoring	IPC 10-21
NBU 921-25G1CS [API 4304751249]	Full Monitoring	IPC 10-21
NBU 921-25G2AS [API 4304751250]	Full Monitoring	IPC 10-21
NBU 921-25H2AS [API 4304751252]	Full Monitoring	IPC 10-21
NBU 921-25H2DS [API 4304751253]	Full Monitoring	IPC 10-21
NBU 921-25G3AS [API 4304751274]	Full Monitoring	IPC 10-23
NBU 921-25G3CS [API 4304751275]	Full Monitoring	IPC 10-23
NBU 921-25J2CS [API 4304751276]	Full Monitoring	IPC 10-23
NBU 921-25K1CS [API 4304751277]	Full Monitoring	IPC 10-23
NBU 921-25A2AS [API 4304751237]	Full Monitoring	IPC 10-21
NBU 921-25B1CS [API 4304751238]	Full Monitoring	IPC 10-21

Spot Paleo Monitoring: All ground-disturbing activities must be monitored by a permitted paleontologist at the beginning of construction and thereafter spot-monitored as paleontological conditions merit.

NBU 921-25C1AS [API 4304751239]	Spot Monitoring	IPC 10-20
NBU 921-25D1BS [API 4304751240]	Spot Monitoring	IPC 10-20
NBU 921-25D1CS [API 4304751251]	Spot Monitoring	IPC 10-20
NBU 921-25E1CS [API 4304751241]	Spot Monitoring	IPC 10-20
NBU 921-25E3AS [API 4304751242]	Spot Monitoring	IPC 10-20
NBU 921-25F1BS [API 4304751243]	Spot Monitoring	IPC 10-21
NBU 921-25F1CS [API 4304751244]	Spot Monitoring	IPC 10-21
NBU 921-25F3AS [API 4304751245]	Spot Monitoring	IPC 10-21
NBU 921-25F3CS [API 4304751246]	Spot Monitoring	IPC 10-21
NBU 921-25L1BS [API 4304751247]	Spot Monitoring	IPC 10-21
NBU 921-25J1DS [API 4304751256]	Spot Monitoring	IPC 10-23
NBU 921-25J4AS [API 4304751254]	Spot Monitoring	IPC 10-23
NBU 921-25J4CS [API 4304751255]	Spot Monitoring	IPC 10-23
NBU 921-25K4BS [API 4304751257]	Spot Monitoring	IPC 10-22
NBU 921-25L2AS [API 4304751258]	Spot Monitoring	IPC 10-22
NBU 921-25L4AS [API 4304751259]	Spot Monitoring	IPC 10-22
NBU 921-25N2BS [API 4304751260]	Spot Monitoring	IPC 10-22
NBU 921-25K4CS [API 4304751261]	Spot Monitoring	IPC 10-23
NBU 921-25N2DS [API 4304751262]	Spot Monitoring	IPC 10-23
NBU 921-25N3AS [API 4304751263]	Spot Monitoring	IPC 10-23

NBU 921-25O4BS [API 4304751264]	Spot Monitoring	IPC 10-23	
NBU 921-25B3AS [API 4304751265]	Spot Monitoring	IPC 10-20	
NBU 921-25B3DS [API 4304751266]	Spot Monitoring	IPC 10-20	
NBU 921-25C2DS [API 4304751267]	Spot Monitoring	IPC 10-20	
NBU 921-25C3AS [API 4304751268]	Spot Monitoring	IPC 10-20	
NBU 921-25IT [API 4304751273]	Spot Monitoring	IPC 10-23	
NBU 921-25H3DS [API 4304751269]	Spot Monitoring	IPC 10-23	
NBU 921-25I2AS [API 4304751270]	Spot Monitoring	IPC 10-23	
NBU 921-25I4AS [API 4304751271]	Spot Monitoring	IPC 10-23	
NBU 921-25I4DS [API 4304751272]	Spot Monitoring	IPC 10-23	
NBU 922-29A1BS [API #4304751183]	Spot Monitoring	IPC 10-06	
NBU 922-29A1CS [API #4304751184]	Spot Monitoring	IPC 10-06	
NBU 922-29A4CS [API #4304751185]	Spot Monitoring	IPC 10-06	
NBU 922-29H1BS [API #4304751186]	Spot Monitoring	IPC 10-06	
NBU 922-29B2CS [API #4304751187]	Spot Monitoring	IPC 10-06	
NBU 922-29B4AS [API #4304751188]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C2AS [API #4304751189]	Spot Monitoring	IPC 10-06	(SITLA surf/ Fed Min)
NBU 922-29C4AS [API #4304751190]	Spot Monitoring	IPC 10-06	
NBU 922-29B1AS [API #4304751191]	Spot Monitoring	IPC 10-06	
NBU 922-29B1DS [API #4304751192]	Spot Monitoring	IPC 10-06	
NBU 922-29B2BS [API #4304751193]	Spot Monitoring	IPC 10-06	
NBU 922-29D4DS [API #4304751198]	Spot Monitoring	IPC 10-05	
NBU 922-29E3BS [API #4304751199]	Spot Monitoring	IPC 10-05	
NBU 922-29F3AS [API #4304751200]	Spot Monitoring	IPC 10-05	
NBU 922-29F3BS [API #4304751201]	Spot Monitoring	IPC 10-05	
NBU 922-29G4AS [API #4304751202]	Spot Monitoring	IPC 10-06	
NBU 922-29H1CS [API #4304751203]	Spot Monitoring	IPC 10-06	
NBU 922-29H4CS [API #4304751204]	Spot Monitoring	IPC 10-06	
NBU 922-29I1BS [API #4304751205]	Spot Monitoring	IPC 10-06	
NBU 922-29I1CS [API #4304751206]	Spot Monitoring	IPC 10-06	
NBU 922-29K2CS [API #4304751211]	Spot Monitoring	IPC 10-07	
NBU 922-29K4AS [API #4304751212]	Spot Monitoring	IPC 10-07	
NBU 922-29L1AS [API #4304751213]	Spot Monitoring	IPC 10-07	
NBU 922-29L2BS [API #4304751214]	Spot Monitoring	IPC 10-07	
NBU 922-29L2CS [API #4304751215]	Spot Monitoring	IPC 10-07	
NBU 922-29L3CS [API #4304751216]	Spot Monitoring	IPC 10-07	
NBU 922-29M2AS [API #4304751217]	Spot Monitoring	IPC 10-07	
NBU 922-29N2BS [API #4304751218]	Spot Monitoring	IPC 10-07	
NBU 922-29N3BS [API #4304751219]	Spot Monitoring	IPC 10-07	
NBU 922-30I4BS [API #4304751220]	Spot Monitoring	IPC 10-07	(SITLA surf/ Fed Min)
NBU 922-30I4CS [API #4304751221]	Spot Monitoring	IPC 10-07	(SITLA surf/Fed Min)
NBU 922-29J4CS [API #4304751222]	Spot Monitoring	IPC 10-08	
NBU 922-29N1BS [API #4304751223]	Spot Monitoring	IPC 10-08	
NBU 922-29O1CS [API #4304751224]	Spot Monitoring	IPC 10-08	

That's quite a list, so I'm attaching a quick-and-dirty spreadsheet of the same data. This may be helpful to some of you.

Thanks.
-Jim

Jim Davis
Utah Trust Lands Administration
jimdavis1@utah.gov
Phone: (801) 538-5156

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25D1CS 430475125			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2440	9695		
Previous Shoe Setting Depth (TVD)	40	2440		
Max Mud Weight (ppg)	8.3	12.4		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	6108	12.1		

Calculations	Surf String	8.625	"
Max BHP (psi)	.052*Setting Depth*MW=	1057	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	764	NO <input type="text" value="air drill"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	520	NO <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	529	NO <input type="text" value="Reasonable depth in area"/>
Required Casing/BOPE Test Pressure=		2373	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

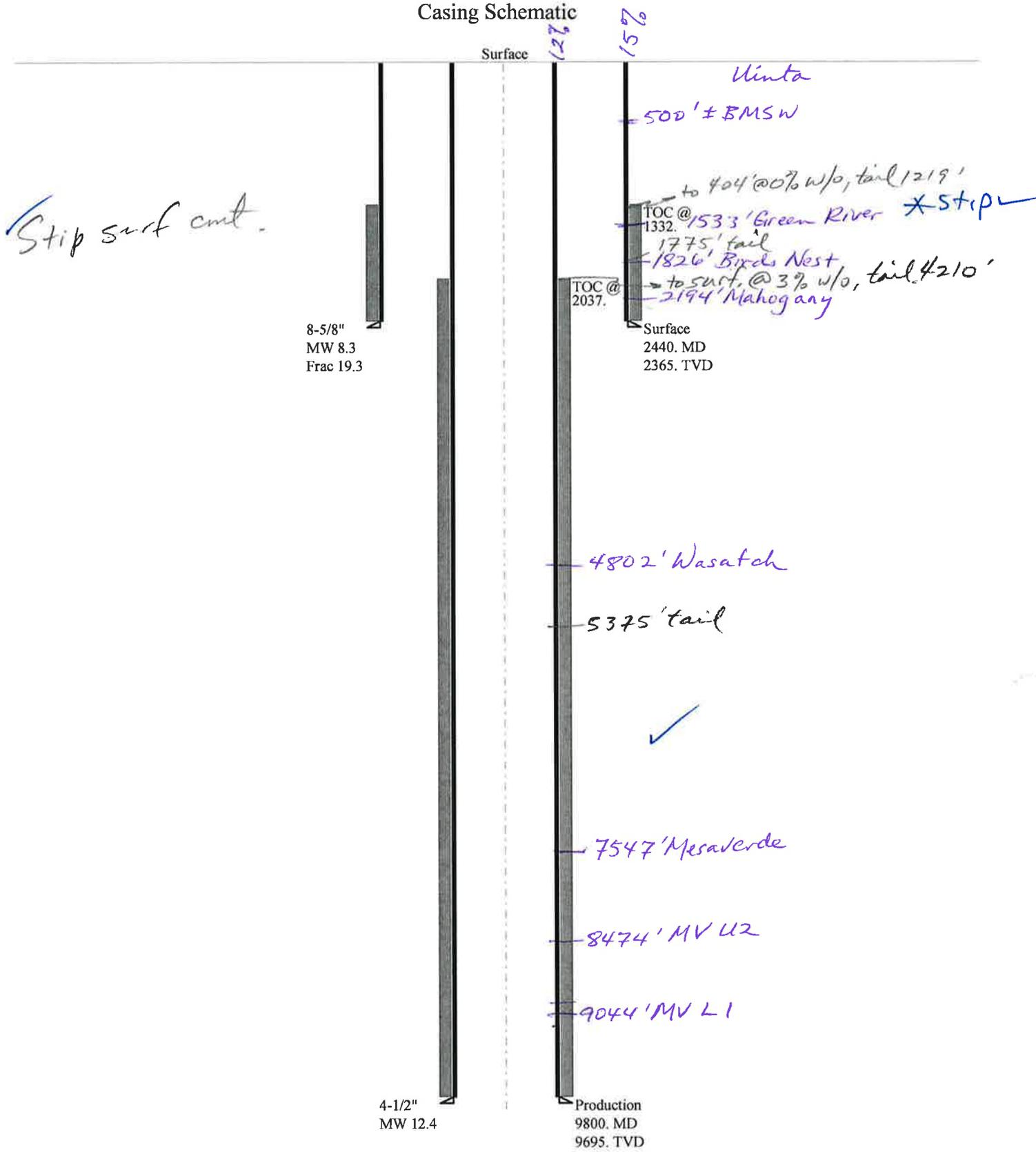
Calculations	Prod String	4.500	"
Max BHP (psi)	.052*Setting Depth*MW=	6251	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5088	NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4118	YES <input type="text" value="OK"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4655	NO <input type="text" value="Reasonable"/>
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2440	psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

Calculations	String		"
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO <input type="text"/>
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO <input type="text"/>
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=		NO <input type="text"/>
Required Casing/BOPE Test Pressure=			psi
*Max Pressure Allowed @ Previous Casing Shoe=			psi *Assumes 1psi/ft frac gradient

43047512510000 NBU 921-25D1CS

Casing Schematic



Well name:	43047512510000 NBU 921-25D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-51251
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 8.330 ppg
Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,147 psi
Internal gradient: 0.120 psi/ft
Calculated BHP: 2,431 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
8 Round LTC: 1.70 (J)
Buttress: 1.60 (J)
Premium: 1.50 (J)
Body yield: 1.50 (B)

Tension is based on air weight.
Neutral point: 2,135 ft

Environment:

H2S considered? No
Surface temperature: 74 °F
Bottom hole temperature: 107 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 100 ft

Cement top: 1,332 ft

Directional Info - Build & Drop

Kick-off point 300 ft
Departure at shoe: 523 ft
Maximum dogleg: 2 °/100ft
Inclination at shoe: 18 °

Re subsequent strings:

Next setting depth: 9,786 ft
Next mud weight: 12.400 ppg
Next setting BHP: 6,304 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,440 ft
Injection pressure: 2,440 psi

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	2440	8.625	28.00	I-55	LT&C	2365	2440	7.892	96624
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	1023	1880	1.837	2431	3390	1.39	66.2	348	5.26 J

Prepared by: Helen Sadik-Macdonald
Div of Oil, Gas & Mining

Phone: 801 538-5357
FAX: 801-359-3940

Date: October 6, 2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2365 ft, a mud weight of 8.33 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

Well name:	43047512510000 NBU 921-25D1CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-51251
Location:	UINTAH	COUNTY	

Design parameters:

Collapse

Mud weight: 12.400 ppg
 Internal fluid density: 2.330 ppg

Burst

Max anticipated surface pressure: 4,112 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP: 6,245 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.60 (B)

Tension is based on air weight.
 Neutral point: 8,003 ft

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 210 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft

Cement top: 2,037 ft

Directional Info - Build & Drop

Kick-off point 300 ft
 Departure at shoe: 766 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9800	4.5	11.60	I-80	LT&C	9695	9800	3.875	129359
Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (kips)	Tension Strength (kips)	Tension Design Factor
1	5071	6360	1.254	6245	7780	1.25	112.5	212	1.89 J

Prepared by: Helen Sadik-Macdonald
 Div of Oil, Gas & Mining

Phone: 801 538-5357
 FAX: 801-359-3940

Date: October 6, 2010
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9695 ft, a mud weight of 12.4 ppg. An internal gradient of .121 psi/ft was used for collapse from TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 921-25D1CS
API Number 43047512510000 **APD No** 2926 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NWNW **Sec** 25 **Tw** 9.0S **Rng** 21.0E 814 **FNL** 878 **FWL**
GPS Coord (UTM) 627538 4429953 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Sheila Wopsock, Clay Einerson, Roger Perry, Laura Gianokas, Lovel Young, Grizz Oleen, (Kerr McGee), Mitch.Batty, John Slaugh, (Timberline Engineering and Land Surveying), Ed Bonner (SITLA), Ben Williams (UDWR).

Regional/Local Setting & Topography

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 34 air miles and 41.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25D pad will be created by enlarging the existing pad of the NBU 921-25D gas well. Five gas wells, to be directionally drilled, will be added. They are the NBU 921-25E3AS, 921-25E1CS, 921-25D1CS, 921-25D1BS and 921-25C1AS. The existing pad will be extended in all directions except to the west. The site is on the north slope of a ridge with a drainage to the east which will be filled. Significant excavation will be needed to extend the pad leaving an excess of 4,800 cubic yards of spoils to be stockpiled. A draw to the west beyond Corner 10 will be avoided. No drainage diversions are required. The White River is approximately 3 miles down drainage. . The selected site as adjusted appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the best site in the immediate area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

Grazing
 Wildlife Habitat
 Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 352 Length 425	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation is a poor desert shrub type, which includes shadscale, curly mesquite, broom snakeweed and halogeton..

Antelope, sheep during the winter, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics

Surface soils are shallow sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

Paleo Survey Run? Y **Paleo Potential Observed?** N **Cultural Survey Run?** Y **Cultural Resources?** N

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)		20
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)		0
Affected Populations		
Presence Nearby Utility Conduits	Not Present	0
	Final Score	40

1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 104' x 260' x 12' deep located in a cut on the southeast side of the location. Kerr McGee plans a 30-mil liner with a double felt sub-liner.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett
Evaluator

8/26/2010
Date / Time

Application for Permit to Drill Statement of Basis

10/7/2010

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2926	43047512510000	SITLA	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 921-25D1CS	Unit		NATURAL BUTTES	
Field	NATURAL BUTTES	Type of Work		DRILL	
Location	NWNW 25 9S 21E S 814 FNL 878 FWL GPS Coord (UTM)			627543E	4429950N

Geologic Statement of Basis

Kerr McGee proposes to set 2,440' of surface casing at this location. The depth to the base of the moderately saline water at this location is estimated to be at a depth of 500'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 25 . The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed casing and cement should adequately protect any usable ground water.

Brad Hill
APD Evaluator

9/28/2010
Date / Time

Surface Statement of Basis

The general area is the Natural Buttes Unit in a major un-named drainage west of the lower portion of the Sand Wash drainage of Uintah, County, approximately 34 air miles and 41.7 road miles south of Vernal, Utah. Access is by State of Utah Highways, Uintah County and existing oilfield development roads. Topography of the area is characterized by open flats bordered or dissected by numerous sub-drainages, which often become steep with ridges and draws with exposed sandstone layers. No perennial streams occur in the drainage. Individual draws or washes are ephemeral with spring runoff or flows from sometimes-intense summer rainstorms. No springs exist in the area. An occasional constructed pond occurs furnishing water for antelope or livestock.

The NBU 921-25D pad will be created by enlarging the existing pad of the NBU 921-25D gas well. Five gas wells, to be directionally drilled, will be added. They are the NBU 921-25E3AS, 921-25E1CS, 921-25D1CS, 921-25D1BS and 921-25C1AS. The existing pad will be extended in all directions except to the west. The site is on the north slope of a ridge with a drainage to the east which will be filled. Significant excavation will be needed to extend the pad leaving an excess of 4,800 cubic yards of spoils to be stockpiled. A draw to the west beyond Corner 10 will be avoided. No drainage diversions are required. The White River is approximately 3 miles down drainage. . The selected site as adjusted appears to be suitable for enlarging a pad, drilling and operating the proposed wells and is the best site in the immediate area.

Both the surface and minerals are owned by SITLA. Ed Bonner represented SITLA at the pre-site investigation. Mr. Bonner had no concerns pertaining to this location excepted as covered above. SITLA will provide site reclamation standards and a seed mix.

Ben Williams represented the Utah Division of Wildlife Resources. Mr. Williams stated the area is classified as crucial yearlong antelope habitat but recommended no restrictions for this species. No other wildlife will be significantly affected.

Floyd Bartlett
Onsite Evaluator

8/26/2010
Date / Time

Application for Permit to Drill Statement of Basis

10/7/2010

Utah Division of Oil, Gas and Mining

Page 2

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a double felt subliner shall be properly installed and maintained in the reserve pit.
Surface	The reserve pit shall be fenced upon completion of drilling operations.

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 8/13/2010

API NO. ASSIGNED: 43047512510000

WELL NAME: NBU 921-25D1CS

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

PHONE NUMBER: 720 929-6156

CONTACT: Danielle Piernot

PROPOSED LOCATION: NWNW 25 090S 210E

Permit Tech Review:

SURFACE: 0814 FNL 0878 FWL

Engineering Review:

BOTTOM: 0460 FNL 0726 FWL

Geology Review:

COUNTY: UINTAH

LATITUDE: 40.01201

LONGITUDE: -109.50563

UTM SURF EASTINGS: 627543.00

NORTHINGS: 4429950.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: UO 1189 ST

PROPOSED PRODUCING FORMATION(S): WASATCH-MESA VERDE

SURFACE OWNER: 3 - State

COALBED METHANE: NO

RECEIVED AND/OR REVIEWED:

- PLAT
- Bond: STATE/FEE - 22013542
- 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

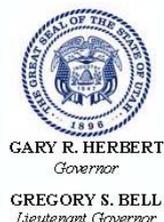
Commingle Approved

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: Suspends General Siting
- R649-3-11. Directional Drill

Comments: Presite Completed

Stipulations:
3 - Commingle - ddoucet
5 - Statement of Basis - bhill
15 - Directional - dmason
17 - Oil Shale 190-5(b) - dmason
25 - Surface Casing - hmadonald



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 921-25D1CS
API Well Number: 43047512510000
Lease Number: UO 1189 ST
Surface Owner: STATE
Approval Date: 10/7/2010

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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.

Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis (copy attached).

Surface casing shall be cemented to the surface.

Additional Approvals:

The operator is required to obtain approval from the Division of Oil, Gas and mining before performing any of the following actions during the drilling of this well:

- Any changes to the approved drilling plan – contact Dustin Doucet
- Significant plug back of the well – contact Dustin Doucet
- Plug and abandonment of the well – contact Dustin Doucet

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
OR
submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas website at <https://oilgas.ogm.utah.gov>
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to cementing or testing casing – contact Dan Jarvis
- Within 24 hours of making any emergency changes to the approved drilling program – contact Dustin Doucet
- 24 hours prior to commencing operations to plug and abandon the well – contact Dan Jarvis

Contact Information:

The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voicemail message if the person is not available to take the call):

- Carol Daniels 801-538-5284 - office
- Dustin Doucet 801-538-5281 - office
801-733-0983 - after office hours
- Dan Jarvis 801-538-5338 - office
801-231-8956 - after office hours

Reporting Requirements:

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

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

Approved By:



For John Rogers
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST	

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
9. FIELD and POOL or WILDCAT: NATURAL BUTTES	

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 09.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/20/2010	<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 checked="" type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

Kerr-McGee Oil & Gas Onshore, L.P. (Kerr-McGee) respectfully requests to change the total depth (TD) to include the Blackhawk formation, which is in the Mesaverde group for this well. Please see the attached for additional details. All of the original information remains the same. Please contact the undersigned with any questions and/or comments. Thank you.

Approved by the Utah Division of Oil, Gas and Mining

Date: 12/20/2010

By: *Danielle Piernot*

NAME (PLEASE PRINT) Danielle Piernot	PHONE NUMBER 720 929-6156	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/20/2010	

Well name: **43047512510000 NBU 921-25D1CSrev.**
 Operator: **Kerr McGee Oil & Gas Onshore L.P.**
 String type: **Production** Project ID: **43-047-51251-0000**
 Location: **Uintah County, Utah**

Design parameters:

Collapse
 Mud weight: 13.000 ppg
 Design is based on evacuated pipe.

Minimum design factors:

Collapse:
 Design factor 1.125

Environment:

H2S considered? No
 Surface temperature: 75 °F
 Bottom hole temperature: 224 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 1,500 ft

Burst

Max anticipated surface pressure: **4,846 psi**
 Internal gradient: 0.220 psi/ft
 Calculated BHP 7,188 psi

Burst:

Design factor 1.00

Cement top:

*1,626 ft → w/ 12% WO
 Surface Csg @ 2660' ✓*

Tension:

8 Round STC: 1.80 (J)
 8 Round LTC: 1.80 (J)
 Buttress: 1.60 (J)
 Premium: 1.50 (J)
 Body yield: 1.50 (B)

Directional well information:

Kick-off point 1950 ft
 Departure at shoe: 766 ft
 Maximum dogleg: 2 °/100ft
 Inclination at shoe: 0 °

Tension is based on buoyed weight.
 Neutral point: 8,681 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	10749	4.5	11.60	HCP-110	LT&C	10644	10749	3.875	938

Run Seq	Collapse Load (psi)	Collapse Strength (psi)	Collapse Design Factor	Burst Load (psi)	Burst Strength (psi)	Burst Design Factor	Tension Load (Kips)	Tension Strength (Kips)	Tension Design Factor
1	7188	8650	1.203 ✓	7188	10690	1.49 ✓	99	279	2.80 J ✓

Approved by the Utah Division of Oil, Gas and Mining

Date: 12/20/2010
 By: Dustin K. Doucet

Prepared by: **Dustin K. Doucet**
 Div of Oil, Gas & Mining

Phone: (801) 538-5281
 FAX: (801) 359-3940

Date: December 20, 2010
 Salt Lake City, Utah

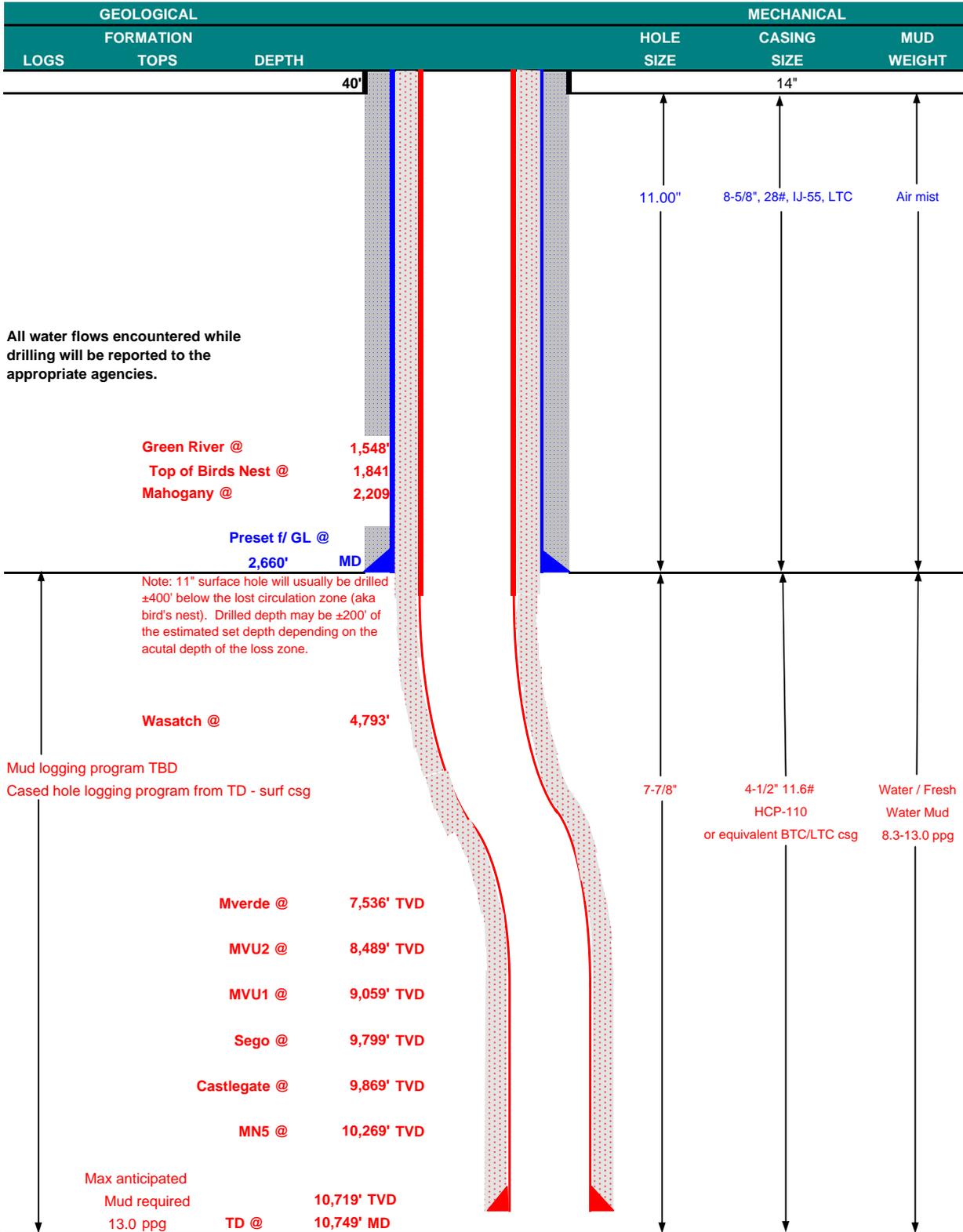
Remarks:
 Collapse is based on a vertical depth of 10644 ft, a mud weight of 13 ppg. The casing is considered to be evacuated for collapse purposes. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.
 Collapse strength is (biaxially) derated for doglegs in directional wells by multiplying the tensile stress by the cross section area to calculate a



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	December 20, 2010	
WELL NAME	NBU 921-25D1CS		TD	10,719' TVD	10,749' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
SURFACE LOCATION	NW/4 NW/4 814' FNL	878' FWL	Sec 25	T 9S	R 21E
	Latitude: 40.012046	Longitude: -109.505687	NAD 27		
BTM HOLE LOCATION	NW/4 NW/4 460' FNL	726' FWL	Sec 25	T 9S	R 21E
	Latitude: 40.013017	Longitude: -109.506233	NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,390	1,880	348,000
SURFACE	8-5/8"	0 to 2,660'	28.00	IJ-55	LTC	0.69	1.51	4.63
PRODUCTION	4-1/2"	0 to 10,749'	11.60	HCP-110	BTC	10,690	8,650	367,000
						4.52	1.19	3.67

*Burst on surface casing is controlled by fracture gradient as shoe with gas gradient above.

D.F. = 2.02

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 = 13.0 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 4,765 psi

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

(Burst Assumptions: TD = 13.0 ppg)

0.66 psi/ft = bottomhole gradient

(Collapse Assumption: Fully Evacuated Casing, Max MW)

(Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)

MABHP 7,123 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD	
SURFACE	LEAD	500'	Premium cmt + 2% CaCl	110	60%	15.80	1.15	
Option 1			+ 0.25 pps flocele					
	TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt	160	0%	15.80	1.15	
			+ 2% CaCl + 0.25 pps flocele					
SURFACE		NOTE: If well will circulate water to surface, option 2 will be utilized						
Option 2	LEAD	2,160'	65/35 Poz + 6% Gel + 10 pps gilsonite	120	35%	11.00	3.82	
			+ 0.25 pps Flocele + 3% salt BWOW					
	TAIL	500'	Premium cmt + 2% CaCl	100	35%	15.80	1.15	
			+ 0.25 pps flocele					
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.80	1.15	
PRODUCTION	LEAD	4,289'	Premium Lite II + 3% KCl + 0.25 pps	320	20%	11.00	3.38	
			celloflake + 5 pps gilsonite + 10% gel					
			+ 0.5% extender					
	TAIL	6,460'	50/50 Poz/G + 10% salt + 2% gel	1,360	20%	14.30	1.31	
			+ 0.1% R-3					

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe
PRODUCTION	Float shoe, 1 jt, float collar. No centralizers will be used.

ADDITIONAL INFORMATION

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

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

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

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

DRILLING ENGINEER: John Huycke / Emile Goodwin

DRILLING SUPERINTENDENT: John Merkel / Lovel Young

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 921-25D1CS
 Qtr/Qtr NWNW Section 25 Township 9S Range 21E
 Lease Serial Number UO 1189 ST
 API Number 4304751251

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

Date/Time 01/11/2011 14:00 HRS AM PM

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

- Surface Casing
 Intermediate Casing
 Production Casing
 Liner
 Other

RECEIVED

JAN 10 2011

DIV. OF OIL, GAS & MINING

Date/Time 01/28/2011 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

435.781.7048 OR LOVEL YOUNG AT 435.828.0986

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
---	---

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000
---	---

3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
---	--	--

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 1/11/2011	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 CONDUCTOR PIPE. CMT W/28 SX READY MIX
 SPUD WELL LOCATION ON JANUARY 11, 2011 AT 15:30 HRS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 01/14/2011

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 1/14/2011	

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP
Address: P.O. Box 173779
city DENVER
state CO zip 80217

Operator Account Number: N 2995
Phone Number: (720) 929-6100

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751242	NBU 921-25E3AS		NWNW	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	1/11/2011		1/26/2011		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 01/11/2011 AT 10:30 HRS. <i>BHL = SWNW</i>							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751241	NBU 921-25E1CS		NWNW	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	1/11/2011		1/26/2011		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 01/11/2011 AT 12:30 HRS. <i>BHL = SWNW</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751251	NBU 921-25D1CS		NWNW	25	9S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
B	99999	2900	1/11/2011		1/26/2011		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 01/11/2011 AT 15:30 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)

GINA BECKER

Name (Please Print)

Signature

REGULATORY ANALYST

Title

1/14/2011

Date

(5/2000)

RECEIVED

JAN 18 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
---	---

SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
--	--

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000
---	---

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: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/30/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU PROPETRO AIR RIG #12 ON JANUARY 28, 2011. DRILLED 11" SURFACE HOLE TO 2510'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 30 BBLS H2O. PUMP 20 BBLS GEL WATER. FULL CIRC. LEAD CEMENT W/ 210 SX CLASS G PREM LITE @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 170 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 148 BBLS WATER. LIFT PRESSURE 510 PSI, BUMP PLUG & HOLD 900 PSI FOR 5 MIN. FLOAT HELD. 120 SX LEAD CEMENT TO SURFACE. CEMENT FELL BACK. TOP OUT W/ 85 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DOWN 1". CEMENT FELL. WAIT 2 HRS. PUMP 90 SX SAME CEMENT DOWN BACK SIDE. CEMENT STAYED AT SURFACE. WORT.

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 1/31/2011	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 Township: 09.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
	COUNTY: Uintah
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 1/30/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

MIRU PROPETRO AIR RIG #12 ON JANUARY 28, 2011. DRILLED 11" SURFACE HOLE TO 2510'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. PUMP 30 BBLS H2O; PUMP 20 BBLS GEL WATER. FULL CIRC. LEAD CEMENT W/ 210 SX CLASS G PREM LITE @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 170 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 148 BBLS WATER. LIFT PRESSURE 510 PSI, BUMP PLUG & HOLD 900 PSI FOR 5 MIN. FLOAT HELD. 120 SX LEAD CEMENT TO SURFACE. CEMENT FELL BACK. TOP OUT W/ 85 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DOWN 1". CEMENT FELL. WAIT 2 HRS. PUMP 90 SX SAME CEMENT DOWN BACK SIDE. CEMENT STAYED AT SURFACE. WORT.

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 1/31/2011	

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: UO 1189 ST
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS	
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000	
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: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 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: 7/5/2011	<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 2510' TO 10,765' ON JULY 3, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 146 ON JULY 5, 2011 @ 15:00 HRS. DETAILS OF CEMENT JOB WILL BE INCLUDED WITH THE WELL COMPLETION REPORT. WELL IS WAITING ON FINAL COMPLETION ACTIVITIES.		
NAME (PLEASE PRINT) Andy Lytle		PHONE NUMBER 720 929-6100
SIGNATURE N/A		TITLE Regulatory Analyst
		DATE 7/6/2011

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

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: UO 1189 ST
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:
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 921-25D1CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047512510000
PHONE NUMBER: 720 929-6515 Ext		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/5/2011	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input type="text"/>

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

MIRU ROTARY RIG. FINISHED DRILLING FROM 2510' TO 10,765' ON JULY 3, 2011. RAN 4-1/2" 11.6# P-110 PRODUCTION CASING. CEMENTED PRODUCTION CASING. RELEASED ENSIGN RIG 146 ON JULY 5, 2011 @ 15:00 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 7/6/2011

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 146
Submitted By KENT MOORE Phone Number 435- 828-0987
Well Name/Number NBU 921-25D1CS
Qtr/Qtr NW/NW Section 25 Township 9S Range 21E
Lease Serial Number UO118957
API Number 43047512510000

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

RECEIVED
JUN 28 2011

Date/Time _____ AM PM

DIV. OF OIL, GAS & MINING

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time 6/24/11 18:00 AM PM

Rig Move

Location To: _____

Date/Time _____ AM PM

Remarks _____

State of Utah - Notification Form

Operator Anadarko Petroleum Rig Name/# Ensign 146
Submitted By KENT MOORE Phone Number 435- 828-0987
Well Name/Number NBU 921-25D1CS
Qtr/Qtr NW/NW Section 25 Township 9S Range 21E
Lease Serial Number VO 118957
API Number 43047512510000

Casing – Time casing run starts, not cementing times.

- Production Casing
- Other

Date/Time 7/5/11 01:00 AM PM

BOPE

- Initial BOPE test at surface casing point
- Other

Date/Time _____ AM PM

RECEIVED
JUL 05 2011
DIV. OF OIL, GAS & MINING

Rig Move

Location To: _____

Date/Time _____ AM PM

Remarks _____

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5.LEASE DESIGNATION AND SERIAL NUMBER: UO 1189 ST
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7.UNIT or CA AGREEMENT NAME: NATURAL BUTTES
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 921-25D1CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047512510000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6511 9. FIELD and POOL or WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0814 FNL 0878 FWL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWNW Section: 25 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"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 4/18/2012	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 04/18/2012 AT 1100 HRS. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 May 08, 2012

NAME (PLEASE PRINT) Sheila Wopsock	PHONE NUMBER 435 781-7024	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 4/19/2012	

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL GAS WELL DRY OTHER _____

b. TYPE OF WORK: NEW WELL HORIZ. LATS. DEEP-EN RE-ENTRY DIFF. RESVR. OTHER _____

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

3. ADDRESS OF OPERATOR: **P.O. BOX 173779** CITY **DENVER** STATE **CO** ZIP **80217** PHONE NUMBER: **(720) 929-6000**

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **NWNW 814 FNL 878 FWL S25,T9S,R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NWNW 443 FNL 708 FWL S25,T9S,R21E**
AT TOTAL DEPTH: **NWNW 514 FNL 737 FWL S25,T9S,R21E** *BHL by HSM*

5. LEASE DESIGNATION AND SERIAL NUMBER:
UO 1189 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 921-25D1CS

9. API NUMBER:
4304751251

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NWNW 25 9S 21E S

12. COUNTY **UINTAH** 13. STATE **UTAH**

14. DATE SPUNDED: **1/11/2011** 15. DATE T.D. REACHED: **7/3/2011** 16. DATE COMPLETED: **4/18/2012** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
4941 GL

18. TOTAL DEPTH: MD **10,765** TVD **10,730** 19. PLUG BACK T.D.: MD **10,706** TVD **10,672** 20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
HDL/ZDL/CNGR-CBL/GR/COLLARS/TEMPERATURE

23. WAS WELL CORED? NO YES (Submit analysis)
WAS DST RUN? NO YES (Submit report)
DIRECTIONAL SURVEY? NO YES (Submit copy)

24. CASING AND LINER RECORD (Report all strings set in well)

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#	0	40		28			
11"	8 5/8" IJ-55	28#	0	2,492		555		0	
7 7/8"	4 1/2" P-110	11.6#	0	10,753		1,980		5476	

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,286							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	7,600	10,502		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
7,600 10,502	0.36	213	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7600-10502	PUMP 13,458 BBLs SLICK H2O & 276,820 LBS 30/50 OTTAWA SAND 9 STAGES

RECEIVED

JUN 26 2012

DIV. OF OIL, GAS & MINING

29. ENCLOSED ATTACHMENTS:

ELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY
 SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION CORE ANALYSIS OTHER: _____

30. WELL STATUS:

PROD

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 4/18/2012		TEST DATE: 4/19/2012		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1,626	WATER - BBL: 480	PROD. METHOD:
CHOKE SIZE: 20/64	TBG. PRESS. 1,250	CSG. PRESS. 1,899	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 1626	WATER - BBL: 480	INTERVAL STATUS: PROD

INTERVAL B (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL C (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

INTERVAL D (As shown in Item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER - BBL:	INTERVAL STATUS:

32. DISPOSITION OF GAS (Sold, Used for Fuel, Vented, Etc.)

33. 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.

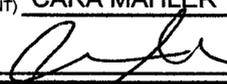
34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
				GREEN RIVER	1,529
				BIRD'S NEST	1,792
				MAHOGANY	2,211
				WASATCH	4,827
				MESAVERDE	7,573

35. ADDITIONAL REMARKS (include plugging procedure)

Attached is the chronological well history, perforation report & final survey. Top of cement @ 5476'; Logged only to 4800'.

36. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records.

NAME (PLEASE PRINT) CARA MAHLER TITLE REGULATORY ANALYST
 SIGNATURE  DATE 6/18/2012

This report must be submitted within 30 days of

- completing or plugging a new well
- drilling horizontal laterals from an existing well bore
- recompleting to a different producing formation
- reentering a previously plugged and abandoned well
- significantly deepening an existing well bore below the previous bottom-hole depth
- drilling hydrocarbon exploratory holes, such as core samples and stratigraphic tests

* ITEM 20: Show the number of completions if production is measured separately from two or more formations.

** ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to: Utah Division of Oil, Gas and Mining
 1594 West North Temple, Suite 1210
 Box 145801
 Salt Lake City, Utah 84114-5801

Phone: 801-538-5340
 Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011		Spud Date: 1/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-25D PAD		Rig Name No: ENSIGN 146/146, PROPETRO/	
Event: DRILLING		Start Date: 1/13/2011		End Date: 7/5/2011	
Active Datum: RKB @4,955.01ft (above Mean Sea Level)			UWI: NWNW/0/9/S/21/E/25/0/0/26/PM/N/814/NW/0/878/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/28/2011	10:00 - 14:00	4.00	MIRU	01	B	P		DRESS TOP OF CONDUCTOR. INSTALL DIVERTER HEAD AND BOWME LINE. BUILD DITCH. MOVE RIG OVER HOLE AND RIG UP. RIG UP AND PRIME PIT PUMP AND MUD PUMP.
	14:00 - 15:00	1.00	PRSPD	01	B	P		P/U 1.83 DEG BENT HOUSING HUNTING MTR SN 8017 . 7/8 LOBE .19 RPM. M/U Q506 SN 7023548
	15:00 - 16:30	1.50	DRLSUR	02	A	P		2ND RUN, W/ 7-18'S. INSTALL RUBBER SPUD SURFACE 1/28/2011 15:00 HRS. DRILL 11" SURFACE HOLE F/40'-210' (170' @ 113'/HR) PSI ON/ OFF 700/430, UP/ DOWN/ ROT 27/22/25. 500 GPM, 45 RPM ON TOP DRIVE, 15-18K
	16:30 - 18:00	1.50	DRLSUR	06	A	P		TOOH, PU AND ORIENT DIR TOOLS, TIH T/ 210'
	18:00 - 0:00	6.00	DRLSUR	02	C	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 210'-920' (710' @ 118'/HR) PSI ON/ OFF 920/650, UP/ DOWN/ ROT 51/46/47. 134 SPM, 550 GPM, 18-20K WOB, 50 RPM ON TOP DRIVE, CIRCULATING RESERVE PIT
1/29/2011	0:00 - 20:00	20.00	DRLSUR	02	C	P		DRILL/ SLIDE 11" SURFACE HOLE F/ 920'- 2510' (1590' @ 80'/HR) PSI ON/ OFF 1520/1220, UP/ DOWN/ ROT 82/65/72.. 134 SPM, 550 GPM, 18-20K WOB, 50 RPM ON TOP DRIVE, CIRCULATING RESERVE
	20:00 - 21:00	1.00	DRLSUR	05	F	P		CIRC AND COND HOLE CLEAN
	21:00 - 0:00	3.00	DRLSUR	06	A	P		TOOH, LDDS AND DIR BHA
1/30/2011	0:00 - 2:00	2.00	DRLSUR	06	A	P		TOOH, LDDS AND DIR BHA
	2:00 - 2:30	0.50	CSG	12	A	P		RIG UP TO RUN 56 JTS OF SURFACE CSG, MOVE COLLAR TRUCK, MOVE CSG OVER TO WORK AREA
	2:30 - 7:00	4.50	CSG	12	C	P		RUN 56 JTS OF 8-5/8", 28#, J-55, 8 RND SURFACE CSG W/ LTC THREADS. LANDED FLOAT SHOE @ 2482.14' KB. RAN BAFFLE PLATE IN TOP OF SHOE JT LANDED 2435.94' KB. FILL CSG @ 500', 1500', AND 2480'.
	7:00 - 7:30	0.50	CSG	12	B	P		RUN 100' OF ONE INCH DOWN BACK SIDE MOVE RIG OFF WELL, RIG UP CEMENTERS RELEASE RIG 1/30/2011 @ 12:00

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011		Spud Date: 1/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-25D PAD		Rig Name No: ENSIGN 146/146, PROPETRO/	
Event: DRILLING		Start Date: 1/13/2011		End Date: 7/5/2011	
Active Datum: RKB @4,955.01ft (above Mean Sea Level)		UWI: NWNW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0			

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 12:00	4.50	CSG	12	E	P		HOLD SAFETY MEETING. INSTALL CEMENT HEAD. PSI TEST TO 2000 PSI. PUMP 30 BBLs OF 8.3# H2O AHEAD. FULL CIRC. PUMP 20 BBLs OF 8.4# GEL WATER AHEAD. FULL CIRC. PUMP 210 SX(143 BBLs) 11# 3.82 YIELD LEAD CEMENT, PUMP 170 SX 35 BBLs) OF 15.8# 1.15 YIELD TAIL(2% CALC, 1/4# /SK OF FLOCELE). FULL CIRC. DROP PLUG ON FLY AND DISPLACE W/ 148 BBLs OF 8.3# H2O. LIFT PRESSURE WAS 510 PSI, BUMP PLUG AND HOLD 900 PSI FOR 5 MIN. FLOAT HELD, 170 SX LEAD CEMENT TO SURF, CEMENT FELL BACK, TOP OUT, PUMP 85 SX (20.5 BBLs) OF 15.8# 1.15 YIELD TAIL(4 % CALC, 1/4# /SK OF FLOCELE) DOWN 1". CMT FELL. WAITED TWO HRS, PUMPED 90 SX DOWN BACK SIDE, CMT STAYED AT SURFACE, RIG DOWN CEMENTERS AND RELEASE RIG @ 12:00
6/24/2011	16:00 - 17:00	1.00	RDMO	01	C	P		RDRT - SKID RIG - RURT
	17:00 - 18:00	1.00	DRLPRO	14	A	P		N/UP BOPE
	18:00 - 22:00	4.00	DRLPRO	15	A	P		TEST BOPE, RAMS, CHOKE, CHOKE LINE, MANUAL VALVES, FLOOR VALVES, HCR & IBOP 250 LOW 5000 HIGH, ANNULAR 250 LOW 2500 HIGH, CASING 1500
	22:00 - 22:30	0.50	DRLPRO	14	B	P		SET WEARBUSHING
	22:30 - 0:00	1.50	DRLPRO	06	A	P		P/UP BIT #1 HUGHES Q506F & WEATHERFORD MM 1.50 deg, 0.21 RPG, SCRIBE & ORIENT - RIH TO 1200' @ MIDNIGHT
6/25/2011	0:00 - 1:30	1.50	DRLPRO	06	A	P		RIH F/1200' TO 2377' - TAG CEMENT @ 2377'
	1:30 - 2:00	0.50	DRLPRO	07	B	P		CENTER & LEVEL DERRICK - INSTALL ROTATING HEAD
	2:00 - 5:00	3.00	DRLPRO	06	A	P		ATTEMPT TO CIRC W/NO SUCCESS - POOH - DRILLSRTRING PLUGGED WITH LCM F/MWD TOOL CARRIER TO BIT - CLEANED LCM F/DIRECTIONAL TOOLS, L/DN MM, CLEANED BIT
	5:00 - 7:00	2.00	DRLPRO	06	A	P		MAKE UP BIT & MM, SCRIBE & ORIENT NEW MM, SURFACE CHECK - RIH TO 2377'
	7:00 - 8:30	1.50	DRLPRO	02	F	P		DRILL CEMENT, FLOAT EQUIP, & RATHOLE F/2377' TO 2520'
	8:30 - 13:00	4.50	DRLPRO	02	D	P		DRILL/SLIDE F/2520' TO 3220' (700' @ 156fph) MW 8.4, VIS 27, WOB 20, RPM 45, MM RPM 108, TQ 6/7, SPM 105, GPM 515, PSI OFF/ON 1125/1475, PU 128, SO 114, ROT 118, SLIDE 2676 2688, 2767 2781, 2948 2962, 3129 3145 (SLIDE 56'/.66 hrs 14% - ROT 644'/3.84 hrs 86%)
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SER
	13:30 - 0:00	10.50	DRLPRO	02	D	P		DRILL/SLIDE F/3220' TO 4825' (1605' @ 153fph) MW 8.4, VIS 27, WOB 20, RPM 45, MM RPM 108, TQ 7/9, SPM 105, GPM 515, PSI OFF/ON 1300/1650, PU 171, SO 135, ROT 147, SLIDE 3401 3411, 3492 3508, 3582 3598, 3673 3691, 3855 3870, 4127 4147, 4580 4600, 4671 4691, 4761 4781(SLIDE 155'/2.25 hrs 21% - ROT 1450'/8.25 hrs 79%)

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW Spud Conductor: 1/11/2011 Spud Date: 1/28/2011
 Project: UTAH-UINTAH Site: NBU 921-25D PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 1/13/2011 End Date: 7/5/2011

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NWNW0/9/S/21/E/25/0/0/26/PM/N/814/NW0/878/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
6/26/2011	0:00 - 10:00	10.00	DRLPRO	02	D	P		DRILL/SLIDE F/4825' TO 6235' (1410' @ 141fph) MW 8.4, VIS 27, WOB 20, RPM 45, MM RPM 108, TQ 6/8, SPM 105, GPM 515, PSI OFF/ON 1300/1650, PU 180 SO 153 ROT 159, SLIDE 4852 4872, 4943 4961, 5305 5325, 5849 5869 (SLIDE 20'/.50 hrs 5% - 1390'/9.5 hrs 95%)
	10:00 - 11:30	1.50	DRLPRO	22	G	X		LOST RETURNS @ 6235' W/8.4 ppg RESERVE WATER IN HOLE - WORK PIPE & CIRC @ REDUCED RATE @ 70 SPM 340 GPM PUMPING FRESH WATER LCM SWEEPS - REGAINED RETURNS - STARTED DISPLACING RESERVE WATER W/FRESH WATER FROM FRACS DOWN WELL BORE - RESUME DRILLING WHILE DISPLACING WELL WITH MINIMAL LOSSES
	11:30 - 12:30	1.00	DRLPRO	02	D	P		DRILL/SLIDE F/6235' TO 6398' (63') SPM 90 GPM 440 - CONITUE DISPLACE WELL BORE WITH FRESH WATER - MUD UP SYSTEM
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SER
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DRILL/SLIDE F/6398' TO 7248' (850' @ 78fph) MW 8.9, VIS 36, LCM 6%, WOB 20, RPM 45, MM RPM 100, TQ 7/8, SPM 98, GPM 480, PSI 1350/1700, PU 218, SO 175, ROT 185, SLIDE 6398 6413, 6846 6886, 7118 7138 (SLIDE 60'/2 hrs 18% - ROT 790'/9 hrs 82%)
6/27/2011	0:00 - 8:00	8.00	DRLPRO	02	D	P		DRILL/SLIDE F/7248' TO 7750' (502' @ 63fph) MW 9.5, VIS 38, LCM 5%, WOB 22, RPM 35, MM RPM 100, TQ 7/8, SPM 98, GPM 480, PSI OFF/ON 1675/1975, PU 220, SO 180, ROT 190 ROT 100%)
	8:00 - 10:00	2.00	DRLPRO	22	G	X		LOST RETURNS @ 7750' - CIRC @ REDUCED RATE OF 50 SPM 245 GPM - REGAINED CIRC - BUILD VOLUME RAISE LCM TO 35% - LOST 200 BBS MUD
	10:00 - 12:00	2.00	DRLPRO	02	D	P		DRILL/SLIDE F/7750' TO 7850' (100' @ 50fph) MW 9.8, VIS 39, LCM 35%, WOB 22, RPM 30, MM RPM 94, TQ 6/7, SPM 92, GPM 450, PSI OFF/ON 1692/2020, PU 220, SO 180, ROT 190 (ROT 100%)
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SER
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DRILL/SLIDE F/7850' TO 8310' (460' @ 410fph) MW 10.6, VIS 40, LCM 30%, WOB 22, RPM 35, MM RPM 94, TQ 6/7, SPM 92, GPM 450, PSI 1700/2000, PU 210, SO 167, ROT 188 (ROT 100%)
6/28/2011	0:00 - 11:30	11.50	DRLPRO	02	D	P		DRILL/SLIDE F/8310' TO 8738' (428' @ 38fph) MW 11.0, VIS 50, LCM 30%, WOB 22/24, RPM 35, MM RPM 94, TQ 6/7, SPM 92, GPM 450, PSI OFF/ON 1900/2200 SLIDE 8310 8325, 8387 8392, 8478 8502, 8569 8599, 8659 8681 (SLIDE 96'/4 hrs 34% - ROT 332'/7.5 hrs 66%)
	11:30 - 14:30	3.00	DRLPRO	22	G	X		LOST RETURNS @ 8738' MW 11.0, VIS 50, LCM 30% - REDUCE CIRC RATE TO 245 GPM - LOST 250 BBS - STOP PUMP AND WORK DRILL STRING BUILD VOLUME - RECEIVING MUD F/PIONEER 54 - CONDITION MUD & RESUME PUMPING LOST ANOTHER 150 BBS MUD - SHUT DOWN PUMPING - BUILD VOLUME - RESUME PUMPING WITH MINIMAL LOSSES - TOTAL MUD LOST 550 BBS

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH		Site: NBU 921-25D PAD	Rig Name No: ENSIGN 146/146, PROPETRO/
Event: DRILLING		Start Date: 1/13/2011	End Date: 7/5/2011
Active Datum: RKB @4,955.01ft (above Mean Sea Level)		UWI: NW/NW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	14:30 - 17:30	3.00	DRLPRO	02	D	P		DRILL/SLIDE F/8738' TO 8841' (103' @ 35fph) MW 11.0, VIS 45, LCM 35, WOB 24, RPM 35, MM RPM 94, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 1855/2175, PU 213, SO 178, ROT 189 (ROT 100%)
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SER
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILL/SLIDE F/8841' TO 9000' (159' @ 26.5fph) MW 11.2, VIS 43, LCM 35%, WOB 24, RPM 35, MM RPM 94, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 1850/2050, PU 230, SO 175, ROT 193 (ROT 100%)
6/29/2011	0:00 - 3:30	3.50	DRLPRO	02	D	P		DRILL/SLIDE F/9000' TO 907' (71' @ 20fph) MW 11.3, VIS 42, LCM 35%, WOB 24, RPM 35, MM RPM 94, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 1850/2050, PU 230, SO 175, ROT 193 (ROT 100%)
	3:30 - 12:30	9.00	DRLPRO	06	A	P		POOH FOR BTT & MUD MOTOR - BREAK OUT BIT #1 & WEATHERFORD MUD MOTOR
	12:30 - 21:00	8.50	DRLPRO	06	A	P		P/UP BIT #2 Q506FX & HUNTING MUD MOTOR .16 RPG 1.50 deg BEND - CIRC THRU BIT MM & DIRECTIONAL TOOLS AT SURFACE - RIH BREAKING CIRC @ 2588 & 6500' - WASH F/8934' TO 9071' - NO FILL (NO PROBLEMS ON TRIP) (50 BBLs MUD LOST ON TRIP)
	21:00 - 0:00	3.00	DRLPRO	02	D	P		DRILL/SLIDE F/9071' TO 9171' (100' @ 33fph) MW 11.4, VIS 42, LCM 35%, WOB 20, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 1880/2175, PU 240, SO 175, ROT 200, SLIDE 9115 9137 (SLIDE 22'/1.33 hrs 44% - ROT 78'/1.67 hrs 56%)
6/30/2011	0:00 - 11:00	11.00	DRLPRO	02	D	P		DRILL/SLIDE F/9171' TO 9659' (488' @ 45fph) MW 12.0, VIS 43, LCM 35%, WOB 22, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 1950/2275, PU 240, SO 185, ROT 202 (ROT 100%)
	11:00 - 11:30	0.50	DRLPRO	07	A	P		RIG SER
	11:30 - 0:00	12.50	DRLPRO	02	D	P		DRILL/SLIDE F/9659' TO 9980' (321' @ 26fph) MW 12.2, VIS 43, LCM 35%, WOB 22, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 2325/2525, PU 260, SO 170, ROT 206 (ROT 100%)
7/1/2011	0:00 - 17:00	17.00	DRLPRO	02	D	P		DRILL/SLIDE F/9980' TO 10204' (224' @ 13fph) MW 12.2, VIS 42, LCM 30%, WOB 25, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 2075/2350, PU 245, SO 190, ROT 208 (ROT 100%)
	17:00 - 17:30	0.50	DRLPRO	07	A	P		RIG SER
	17:30 - 19:00	1.50	DRLPRO	02	D	P		DRILL/SLIDE F/10,204' TO 10,216' (12' @ 8fph) MW 12.2, VIS 42, LCM 30%, WOB 25, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 2075/2350, PU 245, SO 190, ROT 208 (ROT 100%)
	19:00 - 0:00	5.00	DRLPRO	06	A	P		POOH F/BIT - 2750' @ MIDNIGHT (NO HOLE PROBLEMS ON TRIP)
7/2/2011	0:00 - 2:30	2.50	DRLPRO	06	A	P		CONTINUE POOH F/2750' - L/OUT BIT #2
	2:30 - 11:30	9.00	DRLPRO	06	A	P		P/UP BIT #3 Q506F - SURFACE TEST MWD - CIRC THRU DIRECTIONAL TOOLS, MM & BIT - RIH BREAKING CIRC @ 2600 & 7500' - WASH THRU TIGHT AREA @ 4765' TO 4950' - WASH TO BTTM 10,136' TO 10,216' - 4' FILL ON BTTM (LOST 40 BBLs MUD ON TRIP)

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW Spud Conductor: 1/11/2011 Spud Date: 1/28/2011
 Project: UTAH-UINTAH Site: NBU 921-25D PAD Rig Name No: ENSIGN 146/146, PROPETRO/
 Event: DRILLING Start Date: 1/13/2011 End Date: 7/5/2011

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NWNW/09/S/21/E/25/O/0/26/PM/N/814/W/0/878/O/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 13:30	2.00	DRLPRO	02	D	P		DRILL/SLIDE F/10,216' TO 10,249' (33' @ 16.5fph) MW 12.2, VIS 45, LCM 30%, WOB 20, RPM 30, MM RPM 72, TQ 7/9, SPM 92, GPM 450, PSI OFF/ON 2025/2350, PU 248, SO 186, ROT 208 (ROT 100%) RIG SER
	13:30 - 14:00	0.50	DRLPRO	07	A	P		
	14:00 - 0:00	10.00	DRLPRO	02	D	P		DRILL/SLIDE F/10,249' TO 10,442' (193' @ 19.3fph) MW 12.2, VIS 44, LCM 30%, WOB 20, RPM 30, MM RPM 72, TQ 6/8, SPM 92, GPM 450, PSI OFF/ON 2050/2480, PU 270, SO 180, ROT 212 (ROT 100%)
7/3/2011	0:00 - 13:00	13.00	DRLPRO	02	D	P		DRILL/SLIDE F/10,442' TO 10,702 (260' @ 20fph) MW 12.3, VIS 48, LCM 30%, WOB 24, RPM 35, MM RPM 72, SPM 92, GPM 450, PSI OFF/ON 2282/2600, PU 253, SO 192, ROT 212 (ROT 100%) RIG SER
	13:00 - 13:30	0.50	DRLPRO	07	A	P		
	13:30 - 16:00	2.50	DRLPRO	02	D	P		DRILL/SLIDE F/10,702' TO 10,765' (63' @ 25.2fph) MW 12.3, VIS 48, LCM 30%, WOB 24, RPM 35, MM RPM 72, SPM 92, GPM 450, PSI OFF/ON 2282/2600, PU 253, SO 192, ROT 212 (ROT 100%)
	16:00 - 17:30	1.50	DRLPRO	05	C	P		CIRC PRIOR TO W/TRIP
	17:30 - 23:30	6.00	DRLPRO	06	E	P		WIPER TRIP TO 8 5/8" CASING SHOE @ 2492' (BACKREAM OUT 6 STANDS F/10,765' TO 10,225')
	23:30 - 0:00	0.50	DRLPRO	06	E	P		RIH F/2492' TO 2950' - BREAK CIRC
7/4/2011	0:00 - 1:30	1.50	DRLPRO	08	B	Z		REPLACE HYD RELIEF VALVE ON TOP DRIVE
	1:30 - 7:00	5.50	DRLPRO	06	E	P		CONTINUE RIH F/2950' TO 10,675' - WASH F/10,675' TO 10,765' - NO FILL (WASH TIGHT AREAS @ 5760' & 8435')
	7:00 - 8:30	1.50	DRLPRO	05	C	P		CIRC
	8:30 - 17:00	8.50	DRLPRO	06	B	P		POOH F/OPEN HOLE LOGS - NO HOLE PROBLEMS ON TRIP OUT - L/DN BIT #3 & MUD MOTOR
	17:00 - 17:30	0.50	DRLPRO	14	B	P		RETRIEVE WEARBUSHING
	17:30 - 22:30	5.00	EVALPR	11	D	P		HPJSM, R/UP BAKER ATLAS & RUN TRIPLE COMBO TO LOGGERS TD @ 10,765'
	22:30 - 0:00	1.50	CSG	12	C	P		HPJSM, R/UP FRANKS & RUN 243 JTS 4.5" 11.60 P110 BTC CASING - FLOAT SHOE 10,752', FLOAT COLLAR 10,704', MESAVERDE MKR 7507', WASATCH MKR 4815'
7/5/2011	0:00 - 8:30	8.50	CSG	12	C	P		RUN 243 JTS 4.5" 11.60 P110 BTC CASING - FS 10,752', FC 10,704', M MKR 7507', W MKR 4815'
	8:30 - 9:30	1.00	CSG	05	D	P		CIRC CASING
	9:30 - 12:30	3.00	CSG	12	E	P		HPJSM, R/UP BJ & CEMENT 4.5" PROD CASING, TEST LINES 5000 PSI, PUMP 40 BBLS FRESH WATER, 546 SKS LEAD 12.3 PPG 2.12 YIELD, TAIL 1434 SKS 14.3 PPG, 1.31 YIELD, DROPPED PLUG & DISPLACED W/166.5 BBLS FRESH WATER W/0.1 gal/bbl CLAYFIX II & 0.01 gal/bbl ALDACIDE G @ 2950 PSI, BUMPED PLUG @ 3650 PSI - FLOATS HELD W/2.0 BBLS RETURN, LOST RETURNS 160 BBLS INTO PUMPING TAIL CEMENT - CALCULATED TOP TAIL CEMENT 3569' - NO LEAD CEMENT IN SURFACE CASING @ 2492' - NO CEMENT TO SURFACE - R/DN BJ
	12:30 - 13:00	0.50	CSG	14	B	P		SET C-22 SLIPS W/110 STRG WT WEATHERFORD REP JAMIE COX

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25D1CS YELLOW			Spud Conductor: 1/11/2011			Spud Date: 1/28/2011		
Project: UTAH-UINTAH			Site: NBU 921-25D PAD			Rig Name No: ENSIGN 146/146, PROPETRO/		
Event: DRILLING			Start Date: 1/13/2011			End Date: 7/5/2011		
Active Datum: RKB @4,955.01ft (above Mean Sea Level)			UWI: NWNW09/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	13:00 - 15:00	2.00	CSG	14	A	P		N/DN BOPE - ROUGH CUT CASING & L/OUT - CLEAN RIG TANKS - RELEASE RIG @ 15:00 hrs 7/5/11

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-25D1CS YELLOW	Wellbore No.	OH
Well Name	NBU 921-25D1CS	Wellbore Name	NBU 921-25D1CS
Report No.	1	Report Date	3/22/2012
Project	UTAH-UINTAH	Site	NBU 921-25D PAD
Rig Name/No.		Event	COMPLETION
Start Date	8/15/2011	End Date	5/15/2012
Spud Date	1/28/2011	Active Datum	RKB @4,955.01ft (above Mean Sea Level)
UWI	NW/NW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0		

1.3 General

Contractor		Job Method	PERFORATE	Supervisor	
Perforated Assembly	PRODUCTION CASING	Conveyed Method	WIRELINE		

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	7,600.0 (ft)-10,502.0 (ft)	Start Date/Time	4/2/2012 12:00AM
No. of Intervals	28	End Date/Time	4/2/2012 12:00AM
Total Shots	213	Net Perforation Interval	65.00 (ft)
Avg Shot Density	3.28 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	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
4/2/2012 12:00AM	MESAVERDE/			7,600.0	7,604.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO	N

2.1 Perforated Interval (Continued)

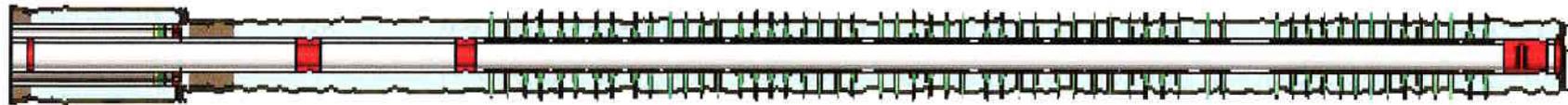
Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diamete r (in)	Carr Type /Carr Manuf	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
4/2/2012 12:00AM	MESAVERDE/			7,646.0	7,648.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			7,742.0	7,744.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			7,852.0	7,854.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			7,998.0	8,000.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,088.0	8,089.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,112.0	8,113.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,238.0	8,239.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,247.0	8,248.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,294.0	8,296.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,338.0	8,340.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,589.0	8,591.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,624.0	8,626.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,670.0	8,674.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,840.0	8,844.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			8,878.0	8,882.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			9,046.0	9,048.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			9,146.0	9,148.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			9,236.0	9,238.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			9,278.0	9,281.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			9,550.0	9,554.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,334.0	10,336.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-T S (ft)	MD Top (ft)	MD Base (ft)	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
4/2/2012 12:00AM	MESAVERDE/			10,353.0	10,355.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,380.0	10,382.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,390.0	10,392.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,417.0	10,419.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,426.0	10,428.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	
4/2/2012 12:00AM	MESAVERDE/			10,498.0	10,502.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTIO N	

3 Plots

3.1 Wellbore Schematic



**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW	Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UIINTAH	Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION	Start Date: 8/15/2011	End Date: 5/15/2012
Active Datum: RKB @4,955.01ft (above Mean Sea Level)	UWI: NWNW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/17/2011	7:00 - 17:00	10.00	COMP	30	A	P		<p>7AM [DAY 1] JSA-- R/U RIG, NDWH, NUBOP, ANCHORS, P/U TBG.</p> <p>MIRU ROCKY MT ANCHOR & INSTALL 4 ANCHORS FOR RIG. RDMO ROCKY MT. ANCHOR.</p> <p>MIRU RIG. NDWH, NUBOP. R/U FLOOR & TBG EQUIPMENT. P/U 3-7/8"OD O.S., FISHING BUMPER SUB, XO SUB, 2-3/8" X 6' PUP JT, NEW 2-3/8" L-80 TBG & RIH.</p> <p>3-7/8" OD O.S. WOULD NOT GO THROUGH WTRFD WELL HEAD. CHANGE OUT O.S. TO 3-3/4" OD & RIH W/ SAME TOOLS ABOVE & NEW TBG. [SLM & DRIFTED]</p> <p>TAG FISH TOP @ 5669'. LATCH ON TO FISH. WORK TBG & TOOLS DOWN TO 5681. STACKED OUT. WORK TBG PULLING 45 OVER – NO LUCK. RELEASE O.S.</p> <p>POOH STDG BACK TBG. L/D BHA. FOUND SETTING TOOL IN O.S. CALLED S.J. TO GET THERE SETTING TOOL.</p>
8/18/2011	7:00 -		COMP	30		P		<p>5 PM SWI-SDFN. PREP TO D/O CIBP IN AM</p> <p>7AM [DAY 2] JSA---P/U TBG, PINCH PTS, L/D TBG, WIRE LINE.</p> <p>SITP=50#, SICP=50#, BLED OFF IN 2 MIN. S.J. REP PICKED UP THERE SETTING TOOL.</p> <p>P/U 3-7/8" RBS MILL, 1 JT. COULD NOT WORK THROUGH WTRFD WELL HEAD. L/D MILL. P/U FLOW TECH SEALED BRG BIT & WORKED BIT THROUGH WELL HEAD. CONTACTED WTRFD REP ABOUT THIS ISSUE WITH THERE WELL HEAD. CONTINUE RIH ON NEW 2-3/8" L-80 TBG FROM DERRICK & P/U TBG OFF FLOAT. [SLM & DRIFTED]</p> <p>TAG CIBP @ 5695'. R/U SWWL & RIG PUMP. ESTABLISH CIRCULATION W/ TMAC WATER.</p> <p>9AM-- DRLG ON CIBP. 15 MINUTES PLUG RELEASED & FELL. R/D SWWL. HAD TO CIRCULATE GAS BUBBLE OUT @ 7000' W/ 60 BBLS. CHASE PLUG TO PBTD @ 10,705'.</p> <p>POOH & L/D TBG ON FLOAT. EOT @ 3150'</p> <p>5PM SWI-SDFN PREP TO SET CIBP IN AM</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW	Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH	Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION	Start Date: 8/15/2011	End Date: 5/15/2012

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NW/NW0/9/S/21/E/25/0/0/26/PM/N/814/NW/0/878/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/19/2011	7:00 -		COMP	30		P		7AM [DAY 3] JSA --- L/D TBG, WIRE LINE WORK, NDBOP, NUWH. R/D RIG. SITP=0#, SICP=0#. CONTINUE POOH & L/D TBG ON FLOAT. L/D BHA. MIRU C.H.S. RIH W/ CIBP & SET @ 10,700'. POOH. RDMO CHS. RACK EQUIPMENT. R/D FLOOR & TBG EQUIPMENT. NDBOP, NUWH. RDMO.
3/16/2012	10:30 - 12:00	1.50	COMP	33		P		10 AM SWM--- READY TO LOG. FILL SURFACE CSG. MIRU B&C QUICK TEST. PSI TEST T/ 1000 PSI. HELD FOR 15 MIN LOST 7 PSI. PSI TEST T/ 3500 PSI. HELD FOR 15 MIN LOST 22 PSI. 1ST PSI TEST T/ 9000 PSI. HELD FOR 30 MIN LOST 77 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. MOVE T/ NEXT WELL. SWIFW
3/29/2012	7:30 - 8:30	1.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER D-FIT DESIGN. POOH.
	8:30 - 15:00	6.50	COMP	33	G	P		D-FIT STG 1)RU LINES. PSI TEST LINES T/ 9311 PSI. GOOD TEST. BLEED OFF PSI. OPEN WELL = 0 PSI. 8:20 AM BEG PUMPING. BRK @ 5.3 BPM @ 4644 PSI. PUMP 5 BBL @ 5.3 BPM @ 4250 PSI. PUMP 10 BBL @ 5.3 BPM @ 4250 PSI PUMP 15 BBL @ 5.3 BPM @ 4240 PSI. PUMP 20 BBL @ 5.3 BPM @ 4260 PSI. PUMP 24 BBL @ 5.3 BPM @ 4300 PSI. SHUT DOWN PUMP. ISIP 4025 PSI, FG .72. 5 MIN PSI = 3887 10 MIN PSI = 3803 15 MIN PSI = 3741 20 MIN PSI = 3690 25 MIN PSI = 3646 30 MIN PSI = 3609 SWM @ 8:55 AM. CONT MONITORING W/ HALLIBURTON SURFACE GAUGES FOR 24 HRS.
3/30/2012	10:00 - 15:00	5.00	COMP	37		P		REMOVE PRESSURE GUAGES PERF REMAINDER OF 1ST STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER PERF DESIGN. POOH. SWIFW

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH		Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION		Start Date: 8/15/2011	End Date: 5/15/2012
Active Datum: RKB @4,955.01ft (above Mean Sea Level)		UWI: NWNW09/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/2/2012	14:30 - 18:00	3.50	COMP	36	B	P		<p>FRAC STG 1)WHP 3050 PSI, BRK 4244 PSI @ 4.5 BPM. ISIP 3878 PSI, FG .80.</p> <p>CALC HOLES OPEN @ 53.4 BPM @ 6538 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN)</p> <p>ISIP 3911 PSI, FG .81, NPI 33 PSI.</p> <p>MP 8339 PSI, MR 53.8 BPM, AP 5975 PSI, AR 48 BPM</p> <p>PUMPED 30/50 TLC SAND IN THIS STAGE</p> <p>X-OVER FOR WL</p> <p>PERF D-FIT STG 2)PU 4 1/4 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,407' P/U PERF AS PER D-FIT DESIGN.</p> <p>STG 2) # 2 D-FIT)OPEN WELL = 2334 PSI.</p> <p>17:31 BEG PUMPING.</p> <p>BRK @ 4.6 BPM @5911 PSI.</p> <p>PUMP 5 BBL @ 4.6 BPM @ 4434 PSI.</p> <p>PUMP 10 BBL @ 4.6 BPM @ 4337 PSI</p> <p>PUMP 15 BBL @ 4.6 BPM @ 4335 PSI.</p> <p>PUMP 20 BBL @ 4.6 BPM @ 4317 PSI.</p> <p>PUMP 24 BBL @ 4.6 BPM @ 4285 PSI.</p> <p>17:37SD</p> <p>ISIP @ 3798 PSI. FG .80</p> <p>5 MIN @ 3404 PSI.</p> <p>10 MIN @ 3393 PSI.</p> <p>15 MIN @ 3383 PSI.</p> <p>20 MIN @ 3378 PSI.</p> <p>25 MIN @ 3374 PSI.</p> <p>30 MIN @ 3369 PSI.</p> <p>18:07 SWI.</p> <p>TOTAL BBLS PUMPED = 31 BBLS (COUNTING BRK DWN.)</p> <p>CONT D-FIT W/ HALLIBURTON SURFACE GAUGES FOR 12 HRS.</p> <p>HSM. HIGH PSI LINES & WL SAFETY</p>
4/3/2012	6:45 - 7:00	0.25	COMP	48		P		

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25D1CS YELLOW	Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH	Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION	Start Date: 8/15/2011	End Date: 5/15/2012

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NWNW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7.00 - 18:00	11.00	COMP	36	B	P		<p>FINISH PERF STG 2)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER DESIGN. POOH.</p> <p>FRAC STG 2)WHP 1836 PSI, BRK 4749 PSI @ 4.5 BPM. ISIP 3545 PSI, FG .77. CALC HOLES OPEN @ 46.7 BPM @ 7287 PSI = 64% HOLES OPEN. (15/24 HOLES OPEN) ISIP 4172 PSI, FG .84, NPI 627 PSI. MP 7450 PSI, MR 50.2 BPM, AP 6759 PSI, AR 44.5 BPM PUMPED 30/50 SAND IN THIS STAGE X-OVER FOR W L.</p> <p>PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 10,407' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 3)WHP 1419 PSI, BRK 2857 PSI @ 4.6 BPM. ISIP 2625 PSI, FG .71. CALC HOLES OPEN @ 43.3 BPM @ 5090 PSI = 67% HOLES OPEN. (16/24 HOLES OPEN) ISIP 2950 PSI, FG .75, NPI 325 PSI. MP 5647 PSI, MR 43.9 BPM, AP 4504 PSI, AR 43.3 BPM PUMPED 30/50 SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 9268' P/U PERF AS PER DESIGN.</p> <p>FRAC STG 4)WHP 2044 PSI, BRK 2914 PSI @ 3.9 BPM. ISIP 2533 PSI, FG .71. CALC HOLES OPEN @ 52.2 BPM @ 4722 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2881 PSI, FG .74, NPI 348 PSI. MP 6179 PSI, MR 52.3 BPM, AP 4842 PSI, AR 51.4 BPM PUMPED 30/50 SAND IN THIS STAGE X-OVER FOR W L</p> <p>PERF D-FIT STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8932' P/U PERF AS PER D-FIT DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>D-FIT STG 5)OPEN WELL = 1220 PSI. 15:25 BEG PUMPING. BRK @ 4.3 BPM @ 2195 PSI. PUMP 5 BBL @ 4.6 BPM @ 2256 PSI. PUMP 10 BBL @ 4.6 BPM @ 2266 PSI</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW	Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH	Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION	Start Date: 8/15/2011	End Date: 5/15/2012
Active Datum: RKB @4,955.01ft (above Mean Sea Level)	UWI: NW/NW/09/S/21/E/25/0/0/26/PM/N/814/NW/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/4/2012	6:45 - 7:00	0.25	COMP	48		P		PUMP 15 BBLS @ 4.7 BPM @ 2262 PSI. PUMPED 15 BBLS AFTER BRK DWN. PUMP SHUT OFF BY IT'S SELF. 15:29 SD ISIP @ 2072 PSI. FG .67 5 MIN @ 1885 PSI. 10 MIN @ 1833 PSI. 15 MIN @ 1799 PSI. 20 MIN @ 1782 PSI. 25 MIN @ 1769 PSI. 30 MIN @ 1757 PSI. 15:59 SWI. TOTAL BBLS PUMPED = 17 BBLS (COUNTING BRK DWN.) CONT D-FIT W/ HALLIBURTON SURFACE GAUGES FOR 12 HRS. HSM. HIGH PSI LINES & WL SAFETY.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW Spud Conductor: 1/11/2011 Spud Date: 1/28/2011
 Project: UTAH-UINTAH Site: NBU 921-25D PAD Rig Name No: MILES 3/3, MONUMENT/698
 Event: COMPLETION Start Date: 8/15/2011 End Date: 5/15/2012

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NW/NW0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:00 - 18:00	11:00	COMP	36	B	P		<p>FINISH PERF STG 5)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER DESIGN. POOH.</p> <p>FRAC STG 5)WHP 1695 PSI, BRK 2106 PSI @ 4.7 BPM. ISIP 2053 PSI, FG .66. CALC PERFS OPEN @ 50.8 BPM @ 4880 PSI = 83% HOLES OPEN. (20/24 HOLES OPEN) ISIP 2641 PSI, FG .71, NPI 588 PSI. MP 4898 PSI, MR 51.7 BPM, AP 4246 PSI, AR 50.9 BPM, PUMPED 30/50 OWATTA SAND. SWI, 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. 120 DEG PHASING. RIH SET CBP @ 8724' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 6)WHP 608 PSI, BRK 3888 PSI @ 4.6 BPM. ISIP 1944 PSI, FG .66. CALC PERFS OPEN @ 50.3 BPM @ 4252 PSI = 96% HOLES OPEN. (23/24 HOLES OPEN) ISIP 2553 PSI, FG .73, NPI 609 PSI. MP 4370 PSI, MR 51.7 BPM, AP 4119 PSI, AR 50.6 BPM, PUMPED 30/50 OWATTA SAND. SWI, 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 @ 8390' P/U PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 7)WHP 691 PSI, BRK 4096 PSI @ 4.7 BPM. ISIP 2020 PSI, FG .68. CALC PERFS OPEN @ 54 BPM @ 4794 PSI = 88% HOLES OPEN. (21/24 HOLES OPEN) ISIP 2680 PSI, FG .76, NPI 660 PSI. COULD NOT GET MAX'S & AVR. (DUE TO COMPUTAR FROZE UP) PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF D-FIT STG 8)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 8163' P/U PERF A PER D-FIT DESIGN. POOH.</p> <p>D-FIT STG 8) OPEN WELL = 197 PSI. 13:10 BEG PUMPING. BRK @ 4.7 BPM @ 3119 PSI. PUMP 5 BBL @ 4.6 BPM @ 2203 PSI. PUMP 10 BBL @ 4.6 BPM @ 2219 PSI PUMP 15 BBL @ 4.6 BPM @ 2261 PSI.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH		Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION		Start Date: 8/15/2011	End Date: 5/15/2012
Active Datum: RKB @4,955.01ft (above Mean Sea Level)		UWI: NWNW0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								<p>PUMP 20 BBLs @ 4.6 BPM @ 2331 PSI. 13:16 SD ISIP @ 2217 PSI. FG .71 5 MIN @ 1915 PSI. 10 MIN @ 1830 PSI. 15 MIN @ 1793 PSI. 20 MIN @ 1769 PSI. 25 MIN @ 1749 PSI. 30 MIN @ 1736 PSI. 13:46 SWI. TOTAL BBLs PUMPED = 25 BBLs (COUNTING BRK DWN.)</p> <p>CONT D-FIT W/ HALLIBURTON SURFACE GAUGES FOR 12 HRS.</p>
4/5/2012	8:00 - 18:00	10.00	COMP	36	B	P		<p>FINISH PERF STG 8)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 8)WHP 1427 PSI, BRK 2165 PSI @ 4.5 BPM. ISIP 2108 PSI, FG .70. CALC PERFS OPEN @ 51.4 BPM @ 4287 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2752 PSI, FG .78, NPI 644 PSI. MP 5555 PSI, MR 51.7 BPM, AP 4144 PSI, AR 51.1 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PERF D-FIT STG 9)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 7794' P/U PERF AS PER D-FIT DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>D-FIT STG 9) OPEN WELL = 1623 PSI. 12:01 BEG PUMPING. BRK @ 4.5 BPM @ 3580 PSI. PUMP 5 BBLs @ 4.6 BPM @ 2288 PSI. PUMP 10 BBLs @ 4.6 BPM @ 2299 PSI PUMP 15 BBLs @ 4.6 BPM @ 2292 PSI. PUMP 20 BBLs @ 4.6 BPM @ 2295 PSI. 12:07 SD ISIP @ 2134 PSI. FG .71 5 MIN @ 1919 PSI. 10 MIN @ 1876 PSI. 15 MIN @ 1850 PSI. 20 MIN @ 1832 PSI. 25 MIN @ 1818 PSI. 30 MIN @ 1806 PSI. 12:39 SWI. TOTAL BBLs PUMPED = 25 BBLs (COUNTING BRK DWN.)</p> <p>CONT D-FIT W/ HALLIBURTON SURFACE GAUGES FOR 12 HRS.</p>

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011		Spud Date: 1/28/2011	
Project: UTAH-UINTAH		Site: NBU 921-25D PAD		Rig Name No: MILES 3/3, MONUMENT/698	
Event: COMPLETION		Start Date: 8/15/2011		End Date: 5/15/2012	
Active Datum: RKB @4,955.01ft (above Mean Sea Level)			UWI: NW/NW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/6/2012	7:00 - 18:00	11.00	COMP	36	B	P		<p>FINISH PERF STG 9)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH PERF AS PER DESIGN. POOH. X-OVER FOR FRAC CREW.</p> <p>FRAC STG 9)WHP 1312 PSI, BRK 2399 PSI @ 4.5 BPM. ISIP 1953 PSI, FG .67. CALC PERFS OPEN @ 60.2 BPM @ 4355 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 2518 PSI, FG .76, NPI 565 PSI. MP 5263 PSI, MR 60.3 BPM, AP 4295 PSI, AR 58.5 BPM, PUMPED 30/50 OWATTA SAND. SWI, X-OVER FOR WL.</p> <p>PU 4 1/2 8K HAL CBP. RIH SET KILL PLUG @ 7550'. POOH. DONE FRACING THIS WELL.</p> <p>TOTAL SAND = 276,820 LBS TOTAL CLFL = 13,458 BBLs</p>
4/16/2012	13:00 - 15:00	2.00	COMP	30	A	P		<p>MOVE OVER FROM 25D1BS. SPOT RIG AND ATTEMPT TO RUSU. TO SOFT TO GET RU. MOVE RIG AHEAD. DIG OUT W/ BACKHOE. FILL IN W/ ROCK.</p>
4/17/2012	7:00 - 7:15	0.25	COMP	48		P		JSA- PU TBG. PRES TESTING.
	7:15 - 9:00	1.75	COMP	30	A	P		SPOT AND RUSU. ND WH. NU BOP. RU FLOOR. SPOT TBG.
	9:00 - 17:00	8.00	COMP	31	I	P		<p>MU 3-7/8" BIT, POBS, 1.87" XN. RIH AS MEAS AND PU 2-3/8" L-80 TBG. TAG AT 7521' W/ 238-JTS IN. RU DRLG EQUIP. FILL TBG AND PRES TEST TO 4000#. EST CIRC AND D/O PLUGS.</p> <p>#1- C/O 25' SAND TO CBP AT 7546'. D/O IN 5 MIN. 400# INC. 0-100# FCP. RIH. #2- C/O 40' SAND TO CBP AT 7815'. D/O IN 4 MIN. 600# INC. 100-600# FCP. RIH. #3- C/O 40' SAND TO CBP AT 8190'. D/O IN 4 MIN. 500# INC. 400-500# FCP. RIH. #4- C/O 20' SAND TO CBP AT 8394'. D/O IN 4 MIN. 600# INC. 400-1200# FCP. RIH. #5- C/O 18' SAND TO CBP AT 8750'. D/O IN 4 MIN. 700# INC. 700-900# FCP. RIH. #6- C/O 35' SAND TO CBP AT 8950'. D/O IN 3 MIN. 400# INC. 700-900# FCP. RIH.</p> <p>HAVE 284-JTS IN, EOT AT 9006. CIRC AND FLOW CLEAN. SWIFN. JSA- BWD. D/O PLUGS.</p>
4/18/2012	7:00 - 7:15	0.25	COMP	48		P		JSA- BWD. D/O PLUGS.

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW		Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH		Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION		Start Date: 8/15/2011	End Date: 5/15/2012
Active Datum: RKB @4,955.01ft (above Mean Sea Level)		UWI: NWNW0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:15 - 11:00	3.75	COMP	44	C	P		<p>SITP 0, SICP 3200. BWD TO PIT. CONT RIH AS D/O PLUGS.</p> <p>#7- C/O 25' SAND TO CBP AT 9295'. D/O IN 3 MIN. 300# INC. 800# FCP. RIH.</p> <p>#8- C/O 30' SAND TO CBP AT 9608'. D/O IN 4 MIN. 700# INC. 800# FCP. RIH.</p> <p>#9- C/O 45' SAND TO CBP AT 10,434'. D/O IN 3 MIN. 400# INC. 900# FCP. RIH.</p> <p>PBTD AT 10,705'. BTM PERF AT 10,502'. C/O 45' TO 10665' W/ 337-JTS IN (163' RATHOLE). CIRC CLEAN.</p> <p>RD PWR SWIVEL. POOH AS LD 13-JTS. PU 4" 10K HANGER. LUB IN AND LAND 324-JTS 2-3/8" L-80 TBG W/ EOT AT 10,285.78'. RD FLOOR. ND BOP. NU WH. HOOK UP FLOW LINES. POBS AT 1500#. PRES TEST LINES TO 4000#. SITP 550#. SICP 2475#. TURN OVER TO FBC AND SALES. RDSU.</p> <p>TBG DETAIL KB 14.00 4" 10K HANGER .83 324-JTS 2-3/8 L-80 10,268.75 1.87" XN 2.20 EOT 10,285.78</p> <p>315-JTS DELIVERED, 53-JTS TRANSFERED FROM 921-25D1BS. 44-JTS TRANSFERED TO 921-25E3AS.</p> <p>TLTR 13,458, TLR 2000, LLTR 11458.</p>
	11:00 - 11:00	0.00	COMP	50				<p>WELL TURNED TO SALES AT 1100 HR ON 4/18/2012 - 1357 MCFD, 2040 BWPD, FCP 2500#, FTP 2250#, CK 20/64</p>
4/19/2012	-			50				<p>WELL IP'D ON 4/19/2012 - 2254 MCFD, 0 BOPD, 1056 BWPD, CP 6819#, FTP 0#, CK 20/64, LP 87#, 24 HRS HSM, REVIEW LD TBG.</p>
5/15/2012	7:00 - 7:30	0.50	COMP	48		P		
	7:30 - 8:30	1.00	COMP	30	A	P		MIRU.
	8:30 - 9:45	1.25	COMP	30	F	P		<p>FCP. 1350 PSI. FTP. 950 PSI., BLEW TBG DWN, CONTROL TBG W/ 20 BBLs, HOOK-UP CSG TO FLOW TO SALES, ND WH, NU BOP'S, RU FLOOR & TBG EQUIPMENT.</p>

US ROCKIES REGION
Operation Summary Report

Well: NBU 921-25D1CS YELLOW	Spud Conductor: 1/11/2011	Spud Date: 1/28/2011
Project: UTAH-UINTAH	Site: NBU 921-25D PAD	Rig Name No: MILES 3/3, MONUMENT/698
Event: COMPLETION	Start Date: 8/15/2011	End Date: 5/15/2012

Active Datum: RKB @4,955.01ft (above Mean Sea Level) UWI: NWNW09/S21/E/25/0/0/26/PM/N/814/W/0/878/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:45 - 15:00	5.25	COMP	31	I	P		UNLAND TBG HANGER, PU & RIH 8 JTS. 2-3/8 L-80 TBG F/ TRAILER TO 10,530', BTM PERF @ 10,502', POOH LD 8 JTS. 2-3/8 L-80 TBG ON TRAILER, POOH & LD 88 JTS. 2-3/8 L-80 TBG ON TBG SEALS, LAND TBG HANGER, RU SWAB EQUIPMENT, RIH W 1.9 BROACH & BROACH TBG TO XN @ 7496', POOH, RD SWAB EQUIPMENT, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO. MOVE TO NBU 921-25D. TBG DETAIL: KB-----14' HANGER-----.83 236 JTS. 2-3/8 L-80 TBG-----7478.84' 1.875 XN Half POBS-----2.20' WLTR. 105 BBLs. TOP PERF @ 7600' BTM PERF @ 10,502' PBTD @ 10,705' JSA-SAFETY MEETING MIRU, PUMP 40 BBLs WTR DN TBG, N/D WH. N/U BOPS, TEST BOPS, OK P/O LAY DN TBG HANGER, RIH W 88 JTS 2 3/8" L-80 TBG, LAND TBG W/ HANGER W/ 324 JTS @ 10268.75', N/D BOPS, N/U WH, TURN WELL TO SALE, TURN OVER TO PRODUCTION, WIND BLOW TO HARD TO R/D, R/D UNIT MOVE OFF IN AM, KB = 14.00' HANGER = .83' 324 JTS 2 3/8" L-80 TBG = 10268.75' X-N NIPPLE 1.875" = 2.20' EOT = 10285.78'
5/23/2012	7:00 - 7:15	0.25	COMP	48		P		
	7:15 - 9:00	1.75	COMP	30	A	P		
	9:00 - 15:00	6.00	COMP	31	I	P		

1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25D1CS YELLOW	Wellbore No.	OH
Well Name	NBU 921-25D1CS	Common Name	NBU 921-25D1CS
Project	UTAH-UINTAH	Site	NBU 921-25D PAD
Vertical Section Azimuth	336.62 (°)	North Reference	True
Origin N/S		Origin E/W	
Spud Date	1/28/2011	UWI	NW/NW/0/9/S/21/E/25/0/0/26/PM/N/814/W/0/878 /0/0
Active Datum	RKB @4,955.01ft (above Mean Sea Level)		

2 Survey Name

2.1 Survey Name: Survey #1

Survey Name	Survey #1	Company	SDI
Started	1/28/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.1.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
10.00	0.00	0.00	10.00	0.00	0.00

2.1.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/28/2011	Tie On	10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
1/28/2011	NORMAL	223.00	1.22	322.73	222.98	1.80	-1.37	2.20	0.57	0.57	0.00	322.73
	NORMAL	311.00	1.23	331.32	310.96	3.38	-2.39	4.05	0.21	0.01	9.76	91.18
	NORMAL	398.00	1.67	324.52	397.94	5.23	-3.58	6.22	0.54	0.51	-7.82	-24.78
	NORMAL	488.00	2.61	322.41	487.87	7.92	-5.59	9.49	1.05	1.04	-2.34	-5.85
	NORMAL	578.00	3.85	332.03	577.73	12.21	-8.26	14.49	1.50	1.38	10.69	28.46
	NORMAL	668.00	5.01	336.15	667.46	18.48	-11.26	21.43	1.34	1.29	4.58	17.40
	NORMAL	758.00	6.42	338.80	757.01	26.76	-14.67	30.39	1.59	1.57	2.94	11.92
	NORMAL	848.00	8.23	341.38	846.27	37.56	-18.55	41.84	2.04	2.01	2.87	11.58
	NORMAL	938.00	10.20	340.37	935.11	51.17	-23.28	56.21	2.20	2.19	-1.12	-5.19
1/29/2011	NORMAL	1,028.00	10.82	338.87	1,023.60	66.56	-29.00	72.60	0.75	0.69	-1.67	-24.55
	NORMAL	1,118.00	11.43	337.73	1,111.91	82.69	-35.43	89.96	0.72	0.68	-1.27	-20.39
	NORMAL	1,208.00	11.61	335.67	1,200.09	99.19	-42.54	107.93	0.50	0.20	-2.29	-67.38
	NORMAL	1,298.00	11.63	333.59	1,288.25	115.57	-50.31	126.04	0.47	0.02	-2.31	-88.29
	NORMAL	1,388.00	11.80	332.61	1,376.37	131.87	-58.57	144.28	0.29	0.19	-1.09	-49.97
	NORMAL	1,478.00	12.05	332.03	1,464.43	148.33	-67.21	162.83	0.31	0.28	-0.64	-25.90
	NORMAL	1,568.00	10.88	333.05	1,552.63	164.20	-75.47	180.67	1.32	-1.30	1.13	170.67
	NORMAL	1,658.00	10.93	333.42	1,641.01	179.41	-83.14	197.67	0.10	0.06	0.41	54.64
	NORMAL	1,748.00	10.99	337.82	1,729.37	194.98	-90.19	214.76	0.93	0.07	4.89	88.06

2.1.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
1/29/2011	NORMAL	1,838.00	10.52	338.77	1,817.79	210.58	-96.41	231.55	0.56	-0.52	1.06	159.80
	NORMAL	1,928.00	10.73	338.35	1,906.25	226.03	-102.47	248.13	0.25	0.23	-0.47	-20.45
	NORMAL	2,018.00	11.27	337.56	1,994.59	241.94	-108.92	265.30	0.62	0.60	-0.88	-15.98
	NORMAL	2,108.00	10.90	336.72	2,082.91	257.89	-115.64	282.60	0.45	-0.41	-0.93	-156.83
	NORMAL	2,198.00	9.11	333.60	2,171.54	272.09	-122.17	298.23	2.08	-1.99	-3.47	-164.68
	NORMAL	2,288.00	9.11	333.70	2,260.41	284.86	-128.50	312.46	0.02	0.00	0.11	90.05
	NORMAL	2,378.00	9.19	337.16	2,349.26	297.87	-134.45	326.76	0.62	0.09	3.84	83.44
	NORMAL	2,468.00	8.97	334.92	2,438.14	310.85	-140.21	340.96	0.46	-0.24	-2.49	-123.00

2.2 Survey Name: PRODUCTION

Survey Name	PRODUCTION	Company	WEATHERFORD
Started	6/24/2011	Ended	
Tool Name	MWD	Engineer	Anadarko

2.2.1 Tie On Point

MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)
2,468.00	8.97	334.92	2,438.14	310.85	-140.21

2.2.2 Survey Stations

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6/24/2011	Tie On	2,468.00	8.97	334.92	2,438.14	310.85	-140.21	340.96	0.00	0.00	0.00	0.00
6/25/2011	NORMAL	2,535.01	8.88	331.18	2,504.32	320.11	-144.92	351.33	0.88	-0.13	-5.58	-100.66
	NORMAL	2,626.01	5.98	324.06	2,594.55	330.10	-151.09	362.95	3.34	-3.19	-7.82	-165.89
	NORMAL	2,717.01	4.95	329.84	2,685.14	337.34	-155.84	371.48	1.28	-1.13	6.35	154.73
	NORMAL	2,807.01	3.94	341.37	2,774.87	343.62	-158.78	378.42	1.49	-1.12	12.81	144.15
	NORMAL	2,898.01	2.69	333.87	2,865.72	348.50	-160.72	383.67	1.45	-1.37	-8.24	-164.58
	NORMAL	2,989.01	2.50	346.25	2,956.62	352.35	-162.13	387.76	0.65	-0.21	13.60	114.84
	NORMAL	3,079.01	1.50	329.87	3,046.57	355.27	-163.19	390.86	1.27	-1.11	-18.20	-158.26
	NORMAL	3,170.01	2.31	352.12	3,137.52	358.12	-164.04	393.81	1.19	0.89	24.45	53.88
	NORMAL	3,260.01	2.25	12.12	3,227.45	361.64	-163.92	397.00	0.88	-0.07	22.22	104.26
	NORMAL	3,351.01	1.25	5.12	3,318.41	364.38	-163.45	399.32	1.12	-1.10	-7.69	-171.42
	NORMAL	3,442.01	1.00	323.62	3,409.39	366.01	-163.83	400.97	0.91	-0.27	-45.60	-127.09
	NORMAL	3,532.01	1.13	358.87	3,499.38	367.53	-164.32	402.56	0.73	0.14	39.17	96.75
	NORMAL	3,623.01	1.19	351.25	3,590.36	369.36	-164.48	404.30	0.18	0.07	-8.37	-72.58
	NORMAL	3,714.01	1.88	7.25	3,681.32	371.77	-164.43	406.50	0.89	0.76	17.58	40.01
	NORMAL	3,805.01	1.19	347.37	3,772.29	374.18	-164.45	408.71	0.95	-0.76	-21.85	-152.00
	NORMAL	3,895.01	1.44	348.50	3,862.27	376.20	-164.88	410.74	0.28	0.28	1.26	6.49
	NORMAL	3,986.01	0.56	321.87	3,953.25	377.67	-165.39	412.29	1.07	-0.97	-29.26	-165.04
	NORMAL	4,077.01	1.00	225.62	4,044.25	377.46	-166.23	412.43	1.32	0.48	-105.77	-123.93
	NORMAL	4,167.01	0.81	42.00	4,134.24	377.38	-166.36	412.42	2.01	-0.21	195.98	178.38
	NORMAL	4,258.01	0.81	104.00	4,225.24	377.71	-165.31	412.29	0.92	0.00	68.13	121.00
	NORMAL	4,349.01	1.13	130.00	4,316.22	376.97	-164.00	411.10	0.59	0.35	28.57	67.45
	NORMAL	4,439.01	1.25	145.12	4,406.21	375.60	-162.76	409.35	0.37	0.13	16.80	76.76
	NORMAL	4,530.01	1.69	144.25	4,497.18	373.70	-161.40	407.06	0.48	0.48	-0.96	-3.34
	NORMAL	4,621.01	1.56	185.00	4,588.14	371.37	-160.73	404.66	1.25	-0.14	44.78	116.52
	NORMAL	4,711.01	1.31	212.00	4,678.12	369.28	-161.38	403.00	0.79	-0.28	30.00	123.44
	NORMAL	4,802.01	0.88	213.62	4,769.10	367.82	-162.32	402.03	0.47	-0.47	1.78	176.69
	NORMAL	4,893.01	0.19	59.00	4,860.10	367.31	-162.58	401.67	1.16	-0.76	-169.91	-175.57
	NORMAL	4,983.01	0.84	359.94	4,950.09	368.05	-162.45	402.29	0.84	0.72	-65.62	-71.44
	NORMAL	5,074.01	0.38	13.87	5,041.09	369.01	-162.38	403.14	0.53	-0.51	15.31	169.01
	NORMAL	5,165.01	0.25	97.37	5,132.09	369.27	-162.11	403.28	0.47	-0.14	91.76	144.77

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
6/25/2011	NORMAL	5,255.01	0.44	130.25	5,222.08	369.03	-161.65	402.87	0.30	0.21	36.53	63.42
	NORMAL	5,346.01	0.75	342.25	5,313.08	369.37	-161.56	403.15	1.26	0.34	-162.64	-159.73
	NORMAL	5,436.01	0.31	345.37	5,403.08	370.16	-161.81	403.98	0.49	-0.49	3.47	177.81
6/26/2011	NORMAL	5,527.01	0.19	273.50	5,494.08	370.41	-162.02	404.29	0.34	-0.13	-78.98	-144.26
	NORMAL	5,618.01	0.50	224.75	5,585.08	370.14	-162.45	404.21	0.44	0.34	-53.57	-69.62
	NORMAL	5,709.01	0.56	227.75	5,676.07	369.56	-163.06	403.92	0.07	0.07	3.30	26.33
	NORMAL	5,799.01	0.81	225.87	5,766.07	368.82	-163.84	403.55	0.28	0.28	-2.09	-6.08
	NORMAL	5,890.01	1.13	333.37	5,857.06	369.17	-164.70	404.22	1.73	0.35	118.13	136.85
	NORMAL	5,980.01	0.63	324.50	5,947.05	370.37	-165.39	405.59	0.57	-0.56	-9.86	-169.16
	NORMAL	6,071.01	0.69	315.50	6,038.04	371.17	-166.06	406.59	0.13	0.07	-9.89	-64.49
	NORMAL	6,162.01	0.31	308.50	6,129.04	371.71	-166.64	407.32	0.42	-0.42	-7.69	-174.36
	NORMAL	6,252.01	0.25	278.25	6,219.04	371.89	-167.02	407.64	0.17	-0.07	-33.61	-126.75
	NORMAL	6,343.01	0.44	195.37	6,310.04	371.58	-167.31	407.47	0.53	0.21	-91.08	-114.12
	NORMAL	6,433.01	0.56	37.12	6,400.04	371.60	-167.14	407.42	1.09	0.13	-175.83	-167.80
	NORMAL	6,524.01	0.31	90.75	6,491.03	371.95	-166.62	407.53	0.50	-0.27	58.93	146.43
	NORMAL	6,615.01	0.48	124.62	6,582.03	371.73	-166.06	407.11	0.31	0.19	37.22	71.68
	NORMAL	6,705.01	0.63	129.00	6,672.03	371.21	-165.37	406.35	0.17	0.17	4.87	17.99
	NORMAL	6,796.01	0.75	146.00	6,763.02	370.40	-164.65	405.32	0.26	0.13	18.68	68.31
	NORMAL	6,887.01	0.19	6.75	6,854.02	370.05	-164.30	404.87	0.99	-0.62	-153.02	-172.10
	NORMAL	6,977.01	0.06	265.25	6,944.02	370.20	-164.33	405.01	0.23	-0.14	-112.78	-163.77
	NORMAL	7,068.01	0.31	203.37	7,035.02	369.97	-164.47	404.86	0.31	0.27	-68.00	-72.52
	NORMAL	7,159.01	1.25	280.00	7,126.01	369.92	-165.55	405.24	1.34	1.03	84.21	90.98
	NORMAL	7,250.01	1.06	284.25	7,216.99	370.29	-167.34	406.30	0.23	-0.21	4.67	157.84
NORMAL	7,340.01	1.00	284.62	7,306.98	370.70	-168.91	407.29	0.07	-0.07	0.41	173.86	
NORMAL	7,431.02	0.88	279.25	7,397.97	371.01	-170.37	408.15	0.16	-0.13	-5.90	-146.38	
NORMAL	7,522.02	0.63	65.50	7,488.96	371.33	-170.60	408.54	1.59	-0.27	160.71	166.00	
6/27/2011	NORMAL	7,612.02	0.50	101.40	7,578.96	371.46	-169.76	408.33	0.41	-0.14	39.89	127.50
	NORMAL	7,703.02	1.06	120.25	7,669.95	370.96	-168.65	407.42	0.67	0.62	20.71	34.24
	NORMAL	7,793.02	1.56	136.00	7,759.93	369.65	-167.08	405.60	0.68	0.56	17.50	43.80
	NORMAL	7,884.02	1.75	138.50	7,850.89	367.72	-165.30	403.12	0.22	0.21	2.75	22.06
	NORMAL	7,974.02	1.50	150.87	7,940.85	365.66	-163.81	400.65	0.48	-0.28	13.74	131.55
	NORMAL	8,065.02	1.31	183.62	8,031.83	363.59	-163.30	398.53	0.89	-0.21	35.99	119.33
	NORMAL	8,156.02	1.00	169.50	8,122.81	361.77	-163.22	396.83	0.46	-0.34	-15.52	-144.36
	NORMAL	8,247.02	1.94	190.25	8,213.78	359.47	-163.35	394.78	1.17	1.03	22.80	40.17
	NORMAL	8,337.02	1.19	209.75	8,303.75	357.16	-164.08	392.95	1.01	-0.83	21.67	154.11
	NORMAL	8,428.02	2.06	195.37	8,394.71	354.76	-164.99	391.11	1.05	0.96	-15.80	-32.42
6/28/2011	NORMAL	8,519.02	1.19	203.00	8,485.67	352.32	-165.79	389.18	0.98	-0.96	8.38	169.83
	NORMAL	8,609.02	0.44	142.12	8,575.66	351.18	-165.94	388.20	1.17	-0.83	-67.64	-158.50
	NORMAL	8,700.02	0.13	333.50	8,666.66	351.00	-165.77	387.96	0.62	-0.34	-185.30	-177.41
	NORMAL	8,791.02	0.31	33.74	8,757.66	351.30	-165.68	388.20	0.30	0.20	66.20	84.93
	NORMAL	8,882.02	0.19	188.12	8,848.66	351.35	-165.57	388.21	0.54	-0.13	169.65	170.31
	NORMAL	8,972.02	1.00	151.50	8,938.66	350.51	-165.21	387.30	0.95	0.90	-40.69	-44.24
6/29/2011	NORMAL	9,065.02	1.13	146.50	9,031.64	349.04	-164.32	385.58	0.17	0.14	-5.38	-38.08
	NORMAL	9,156.02	0.56	87.25	9,122.63	348.31	-163.38	384.54	1.07	-0.63	-65.11	-150.30
	NORMAL	9,247.02	0.44	120.00	9,213.63	348.16	-162.63	384.11	0.33	-0.13	35.99	128.59
	NORMAL	9,337.02	0.94	146.50	9,303.62	347.37	-161.93	383.10	0.64	0.56	29.44	46.27
6/30/2011	NORMAL	9,428.02	1.00	147.62	9,394.61	346.07	-161.09	381.58	0.07	0.07	1.23	18.10
	NORMAL	9,519.02	1.56	157.75	9,485.59	344.26	-160.20	379.56	0.66	0.62	11.13	27.12
	NORMAL	9,609.02	1.56	160.62	9,575.56	341.97	-159.33	377.11	0.09	0.00	3.19	91.43
	NORMAL	9,700.02	2.06	158.00	9,666.51	339.28	-158.30	374.24	0.56	0.55	-2.88	-10.71
	NORMAL	9,791.02	2.56	152.25	9,757.44	335.97	-156.74	370.58	0.00	0.00	0.00	0.00
	NORMAL	9,881.02	2.63	158.87	9,847.34	332.26	-155.06	366.51	0.34	0.08	7.36	80.18
	NORMAL	9,972.02	2.31	158.00	9,938.26	328.61	-153.62	362.60	0.00	0.00	0.00	0.00
	NORMAL	9,700.02	2.06	158.00	9,666.51	339.28	-158.30	374.24	0.00	0.00	0.00	0.00
7/1/2011	NORMAL	9,791.02	2.56	152.25	9,757.44	335.97	-156.74	370.58	0.60	0.55	-6.32	-27.76
	NORMAL	9,881.02	2.63	158.87	9,847.34	332.26	-155.06	366.51	0.00	0.00	0.00	0.00

2.2.2 Survey Stations (Continued)

Date	Type	MD (ft)	Inc (°)	Azi (°)	TVD (ft)	N/S (ft)	E/W (ft)	V. Sec (ft)	DLeg (°/100ft)	Build (°/100ft)	Turn (°/100ft)	TFace (°)
7/1/2011	NORMAL	9,972.02	2.31	158.00	9,938.26	328.61	-153.62	362.60	0.35	-0.35	-0.96	-173.75
	NORMAL	10,063.02	2.06	159.70	10,029.19	325.38	-152.37	359.13	0.28	-0.27	1.87	166.31
7/2/2011	NORMAL	10,153.02	1.88	158.50	10,119.14	322.49	-151.27	356.04	0.21	-0.20	-1.33	-167.69
	NORMAL	10,244.02	2.06	158.87	10,210.09	319.58	-150.13	352.91	0.20	0.20	0.41	4.23
	NORMAL	10,335.02	2.38	157.50	10,301.02	316.30	-148.82	349.39	0.36	0.35	-1.51	-10.10
	NORMAL	10,425.02	2.50	155.37	10,390.94	312.79	-147.28	345.56	0.17	0.13	-2.37	-38.14
7/3/2011	NORMAL	10,516.02	2.38	154.75	10,481.85	309.28	-145.65	341.68	0.14	-0.13	-0.68	-167.90
	NORMAL	10,607.02	2.44	153.62	10,572.77	305.84	-143.98	337.86	0.08	0.07	-1.24	-38.94
	NORMAL	10,712.02	2.62	153.83	10,677.67	301.68	-141.93	333.23	0.17	0.17	0.20	3.05
	NORMAL	10,765.02	2.62	153.83	10,730.62	299.51	-140.86	330.81	0.00	0.00	0.00	0.00