API Well No: 43047512630000 Received: 8/13/2010

FORM 3

AMENDED REPORT ☑

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

APPLICATION FOR PERMIT TO DRILL

1. WELL NAME and NUMBER
NBU 921-25N3AS

2. TYPE OF WORK
DRILL NEW WELL ◉ REENTER P&A WELL ○ DEEPEN WELL ○

3. FIELD OR WILDCAT
NATURAL BUTTES

4. TYPE OF WELL
Gas Well Coalbed Methane Well: NO

5. UNIT or COMMUNITIZATION AGREEMENT NAME
NATURAL BUTTES

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

7. OPERATOR PHONE
720 929-6007

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 1194 ST

11. MINERAL OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ◉ FEE ○

12. SURFACE OWNERSHIP
FEDERAL ○ INDIAN ○ STATE ◉ FEE ○

13. NAME OF SURFACE OWNER (if box 12 = 'fee')

14. SURFACE OWNER PHONE (if box 12 = 'fee')

15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')

16. SURFACE OWNER E-MAIL (if box 12 = 'fee')

17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')

18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS
YES ◉ (Submit Commingling Application) NO ○

19. SLANT
VERTICAL ○ DIRECTIONAL ◉ HORIZONTAL ○

20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	1158 FSL 2575 FWL	SESW	25	9.0 S	21.0 E	S
Top of Uppermost Producing Zone	508 FSL 1729 FWL	SESW	25	9.0 S	21.0 E	S
At Total Depth	508 FSL 1729 FWL	SESW	25	9.0 S	21.0 E	S

21. COUNTY
UINTAH

22. DISTANCE TO NEAREST LEASE LINE (Feet)
508

23. NUMBER OF ACRES IN DRILLING UNIT
1083

25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed)
335

26. PROPOSED DEPTH
MD: 9730 TVD: 9563

27. ELEVATION - GROUND LEVEL
4956

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

☑ **WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER**

☑ **COMPLETE DRILLING PLAN**

☐ **AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)**

☐ **FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER**

☑ **DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)**

☑ **TOPOGRAPHICAL MAP**

NAME Danielle Piernot **TITLE** Regulatory Analyst **PHONE** 720 929-6156

SIGNATURE **DATE** 08/13/2010 **EMAIL** gnbregulatory@anadarko.com

API NUMBER ASSIGNED
43047512630000

APPROVAL

Permit Manager

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Prod	7.875	4.5	0	9730		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 Buttress	9730	11.6			

Proposed Hole, Casing, and Cement						
String	**Hole Size**	**Casing Size**	**Top (MD)**	**Bottom (MD)**		
Surf	11	8.625	0	2310		
Pipe	**Grade**	**Length**	**Weight**			
	Grade I-80 LT&C	2310	28.0			

NBU 921-25N3AS

Pad: NBU 921-25N
Surface: 1,158' FSL 2,575' FWL (SE/4SW/4)
BHL: 508' FSL 1,729' FWL (SE/4SW/4)
Section 25 T9S R21E

Uintah County, Utah
Mineral Lease: UO 1194 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:

Formation	Depth	Resource
Uinta	0 – Surface	
Green River	1,377'	
Birds Nest	1,684'	Water
Mahogany	2,063'	Water
Wasatch	4,644'	Gas
Mesaverde	7,340'	Gas
MVU2	8,241'	Gas
MVL1	8,815'	Gas
TVD	9,563'	
TD	9,730'	

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.

'APIWellNo:43047512630000'

7. Abnormal Conditions:

Maximum anticipated bottomhole pressure calculated at 9,563' TVD, approximately equals 6,057 psi (calculated at 0.63 psi/foot).

Maximum anticipated surface pressure equals approximately 3,953 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.

'APIWellNo:43047512630000'

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.

'APIWellNo:43047512630000'

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.

'APIWellNo:43047512630000'

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP	DATE	August 12, 2010
WELL NAME	**NBU 921-25N3AS**	TD	9,563' TVD 9,730' MD
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah
FINISHED ELEVATION	4,955'		
SURFACE LOCATION	SE/4 SW/4 1,158' FSL 2,575' FWL Sec 25 T 9S R 21E		
	Latitude: 40.002916 Longitude: -109.499616 NAD 27		
BTM HOLE LOCATION	SE/4 SW/4 508' FSL 1,729' FWL Sec 25 T 9S R 21E		
	Latitude: 40.001170 Longitude: -109.502632 NAD 27		
OBJECTIVE ZONE(S)	Wasatch/Mesaverde		
ADDITIONAL INFO	Regulatory Agencies: UDOGM (Minerals), UDOGM (Surface), UDOGM Tri-County Health Dept.		

GEOLOGICAL			MECHANICAL		
LOGS	FORMATION TOPS	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			11"	8-5/8", 28#, IJ-55, LTC	Air mist
			7-7/8"	4-1/2" 11.6# I-80 or equivalent BTC csg	Water / Fresh Water Mud 8.3-12.4 ppg

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

Green River @ 1,377'

Top of Birds Nest @ 1,684'

Mahogany @ 2,063'

Preset f/ GL @ 2,310' MD

Note: 11" surface hole will usually be drilled ±400' below the lost circulation zone (aka bird's nest). Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

Wasatch @ 4,644'

Mud logging program TBD

Cased hole logging program from TD - surf csg

Mverde @ 7,340' TVD

MVU2 @ 8,241' TVD

MVU1 @ 8,815' TVD

Max anticipated Mud required 12.4 ppg

TD @ 9,563' TVD 9,730' MD

'APIWellNo:43047512630000'

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	2,310	28.00	IJ-55	LTC	0.82	1.74	5.33
								7,780	6,350	278,000
PRODUCTION	4-1/2"	0	to	9,730	11.60	I-80	BTC	1.92	1.03	2.82

*Burst on suface casing is controlled by fracture gradient as shoe with gas gradient above. D.F. = 2.33

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 3,953 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 6,057 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	TAIL	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	1,810'	65/35 Poz + 6% Gel + 10 pps gilsonite	170	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	4,140'	Premium Lite II +0.25 pps	300	10%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,590'	50/50 Poz/G + 10% salt + 2% gel	1,080	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.

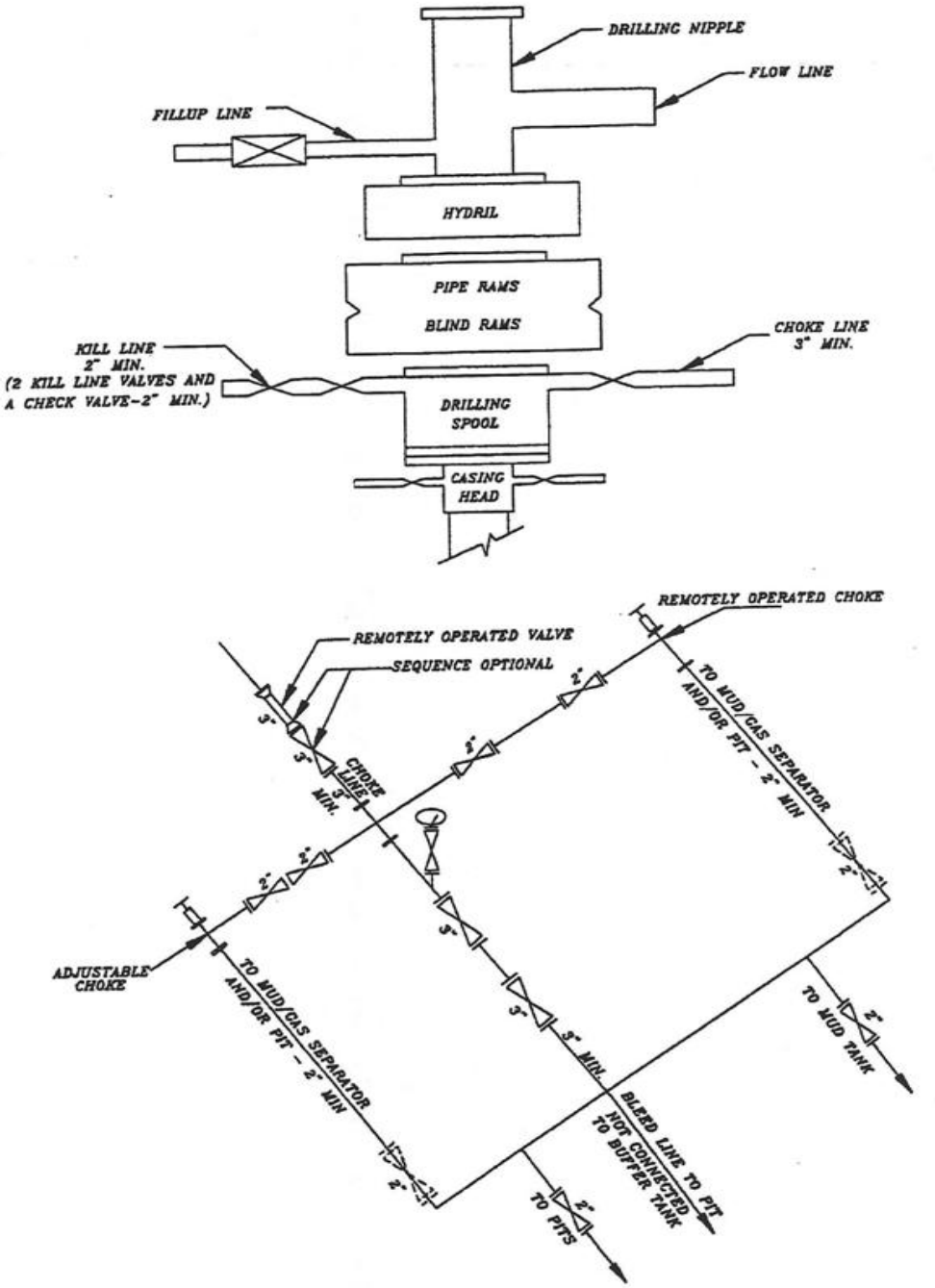
Surveys will be taken at 1,000' minimum intervals.

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

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

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

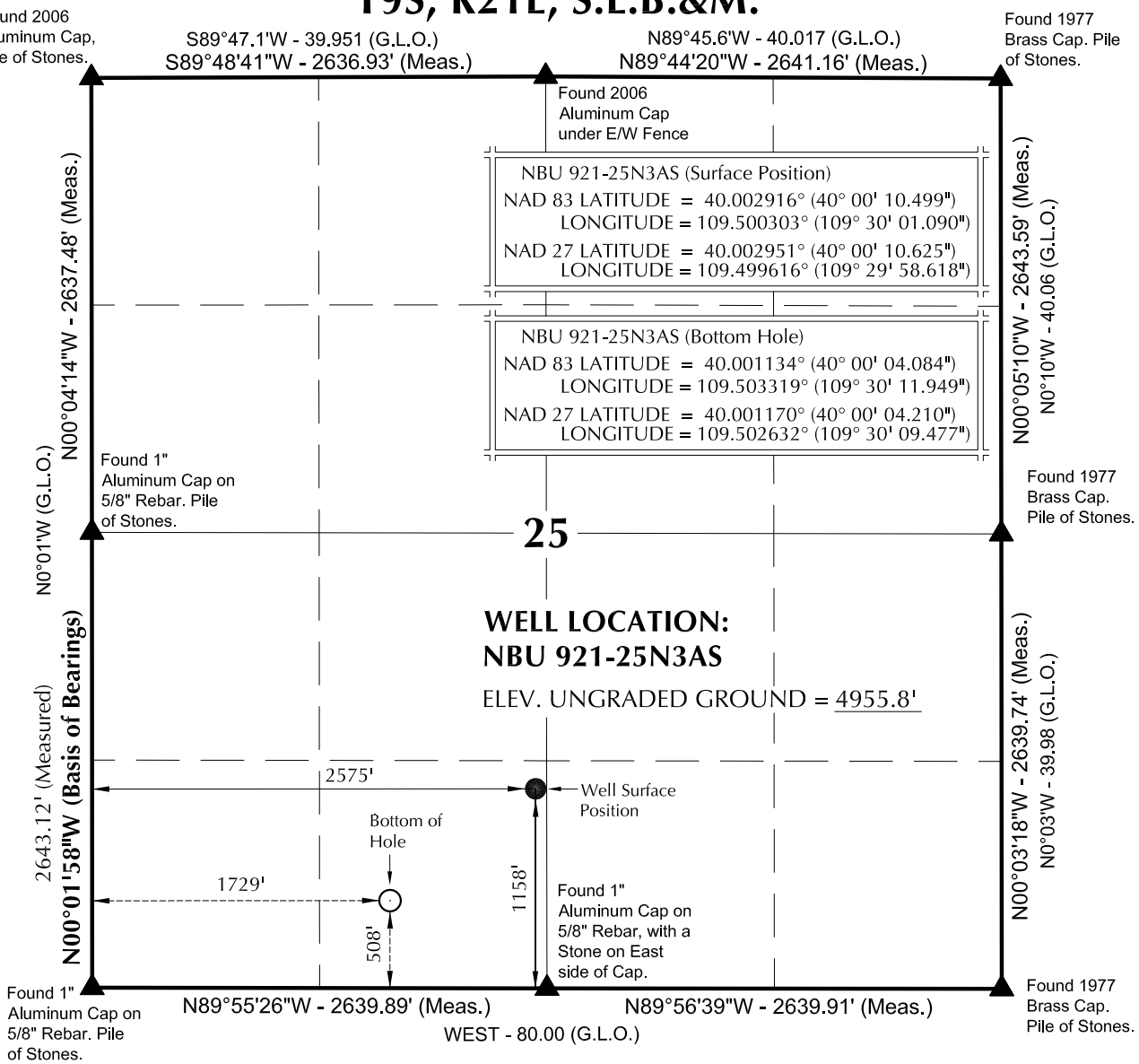
EXHIBIT A
NBU 921-25N3AS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

'APIWellNo:43047512630000'

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



NOTES:

▲ = Section Corners Located

1. Well footages are measured at right angles to the Section Lines.
2. G.L.O. distances are shown in feet or chains. 1 chain = 66 feet.
3. The Bottom of hole bears S52°29'45"W 1065.83' from the Surface Position.
4. Bearings are based on Global Positioning Satellite observations.
5. Basis of elevation is Tri-Sta "Two Water" located in the NW $\frac{1}{4}$ of Section 1, T10S, R21E, S.L.B.&M. The elevation of this Tri-Sta is shown on the Big Pack Mtn NE 7.5 Min. Quadrangle as being 5238'.

N

1000' 500' 0' 1000'

SCALE

SURVEYOR'S CERTIFICATE

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

PROFESSIONAL LAND SURVEYOR No.6028691 JOHN R STAUGH STATE OF UTAH

PROFESSIONAL LAND SURVEYOR
REGISTRATION No. 6028691
STATE OF UTAH

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

WELL PAD: NBU 921-25N

NBU 921-25N3AS
WELL PLAT
508' FSL, 1729' FWL (Bottom Hole)
SE $\frac{1}{4}$ SW $\frac{1}{4}$ OF 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

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

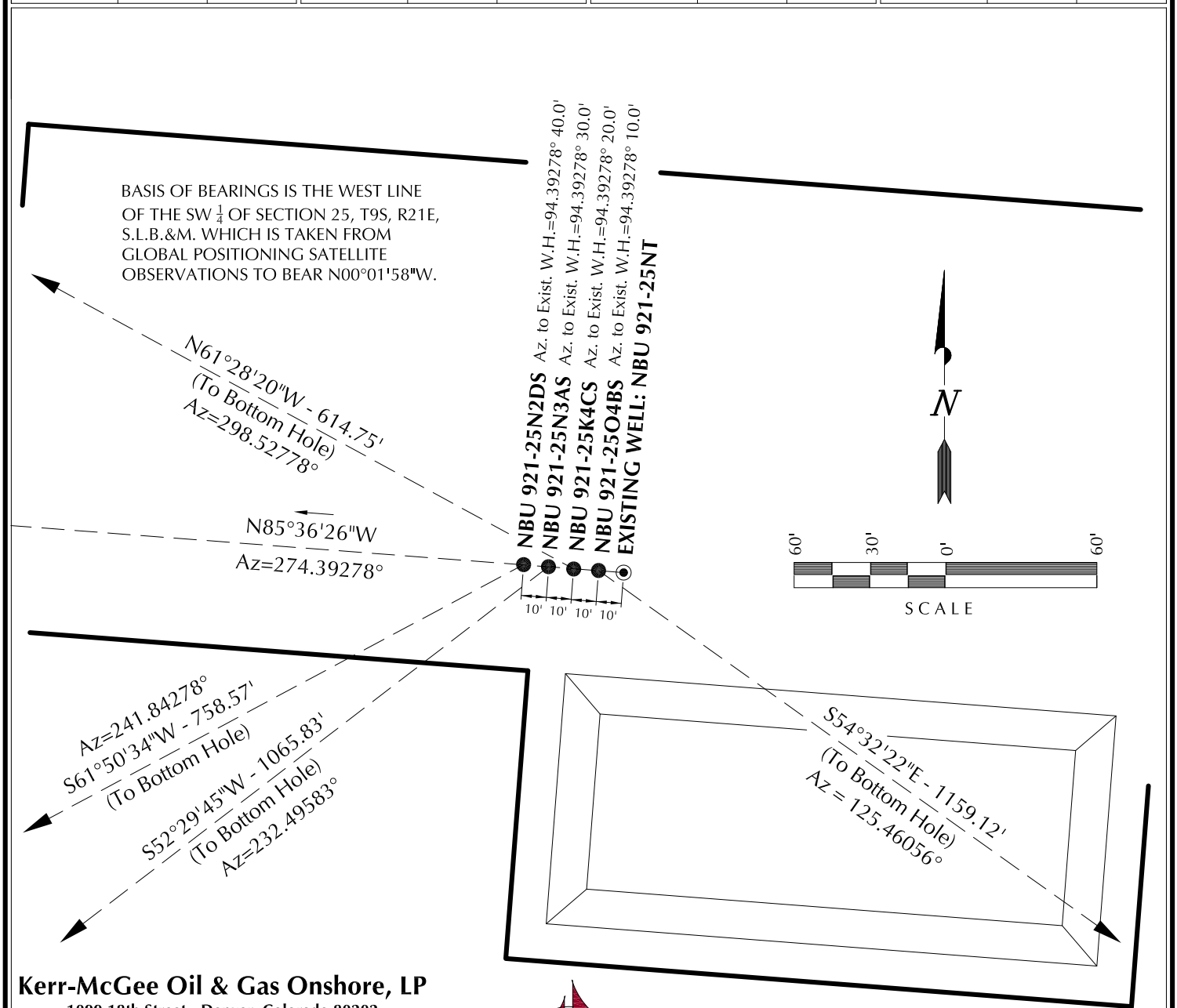
DATE SURVEYED: 04-02-10	SURVEYED BY: D.J.S.	SHEET NO:
DATE DRAWN: 04-07-10	DRAWN BY: B.M.	2
SCALE: 1" = 1000'	Date Last Revised: 06-09-10 B.M.	2 OF 16

'APIWellNo:43047512630000'

WELL NAME	SURFACE POSITION					BOTTOM HOLE				
	NAD83		NAD27			NAD83		NAD27		
	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES	LATITUDE	LONGITUDE	LATITUDE	LONGITUDE	FOOTAGES
NBU 921-25N2DS	40°00'10.507" 40.002919°	109°30'01.217" 109.500338°	40°00'10.633" 40.002954°	109°29'58.746" 109.499652°	1159' FSL 2565' FWL	40°00'06.967" 40.001935°	109°30'09.807" 109.502724°	40°00'07.094" 40.001970°	109°30'07.335" 109.502038°	800' FSL 1896' FWL
NBU 921-25N3AS	40°00'10.499" 40.002916°	109°30'01.090" 109.500303°	40°00'10.625" 40.002951°	109°29'58.618" 109.499616°	1158' FSL 2575' FWL	40°00'04.084" 40.001134°	109°30'11.949" 109.503319°	40°00'04.210" 40.001170°	109°30'09.477" 109.502632°	508' FSL 1729' FWL
NBU 921-25K4CS	40°00'10.490" 40.002914°	109°30'00.961" 109.500267°	40°00'10.616" 40.002949°	109°29'58.489" 109.499580°	1157' FSL 2585' FWL	40°00'13.388" 40.003719°	109°30'07.901" 109.502195°	40°00'13.514" 40.003754°	109°30'05.430" 109.501508°	1450' FSL 2045' FWL
NBU 921-25O4BS	40°00'10.484" 40.002912°	109°30'00.834" 109.500232°	40°00'10.610" 40.002947°	109°29'58.362" 109.499545°	1156' FSL 2595' FWL	40°00'03.844" 40.001068°	109°29'48.701" 109.496861°	40°00'03.970" 40.001103°	109°29'46.230" 109.496175°	485' FSL 1741' FEL
NBU 921-25NT	40°00'10.475" 40.002910°	109°30'00.705" 109.500196°	40°00'10.602" 40.002945°	109°29'58.234" 109.499509°	1156' FSL 2605' 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 921-25N2DS	-358.0'	-668.8'	NBU 921-25N3AS	-648.9'	-845.5'	NBU 921-25K4CS	293.6'	-540.1'	NBU 921-25O4BS	-672.5'	944.1'



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

WELL PAD - NBU 921-25N

WELL PAD INTERFERENCE PLAT
WELLS - NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

609 CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
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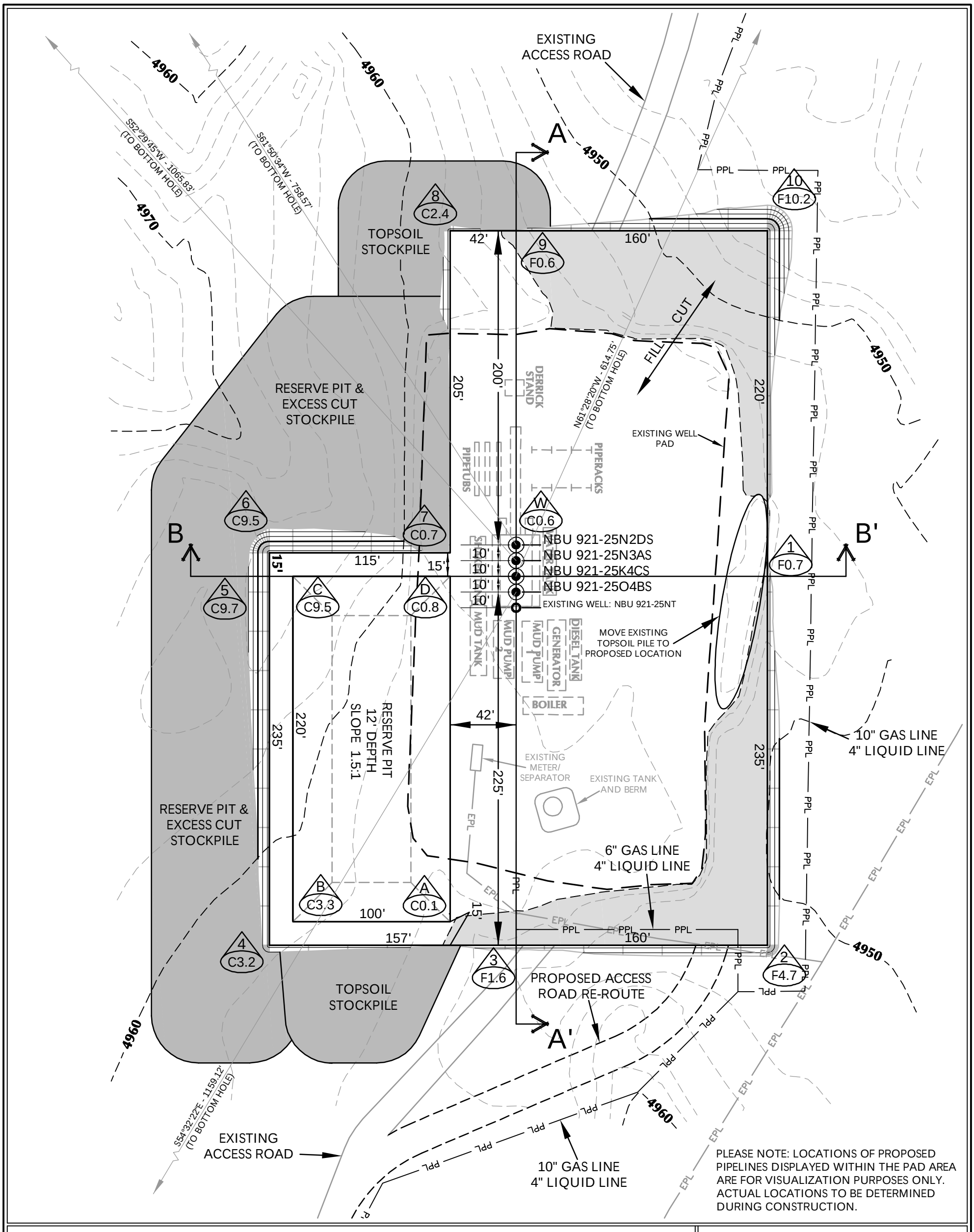
ENGINEERING & LAND SURVEYING, INC.
209 NORTH 300 WEST - VERNAL, UTAH 84078

DATE SURVEYED: 04-02-10	SURVEYED BY: D.J.S.	SHEET NO:
DATE DRAWN: 04-07-10	DRAWN BY: B.M.	5
SCALE: 1" = 60'	Date Last Revised: 06-09-10 B.M.	5 OF 16

'APIWellNo:43047512630000'



WELL PAD - NBU 921-25N DESIGN SUMMARY

EXISTING GRADE @ CENTER OF WELL PAD = 4955.7'
FINISHED GRADE ELEVATION = 4955.1'
CUT SLOPES = 1.5:1
FILL SLOPES = 1.5:1
TOTAL WELL PAD AREA = 3.00 ACRES
TOTAL DAMAGE AREA = 5.79 ACRES
SHRINKAGE FACTOR = 1.10
SWELL FACTOR = 1.00

WELL PAD QUANTITIES

TOTAL CUT FOR WELL PAD = 6,067 C.Y.
TOTAL FILL FOR WELL PAD = 4,172 C.Y.
TOPSOIL @ 6" DEPTH = 1,260 C.Y.
EXCESS MATERIAL = 1,895 C.Y.

RESERVE PIT QUANTITIES

TOTAL CUT FOR RESERVE PIT
+/- 7,410 CY
RESERVE PIT CAPACITY (2' OF FREEBOARD)
+/- 28,150 BARRELS

WELL PAD LEGEND

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

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

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

WELL PAD - NBU 921-25N

WELL PAD - LOCATION LAYOUT
NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E,
S.L.B.&M., UINTAH COUNTY, UTAH

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Sheridan, WY 82801
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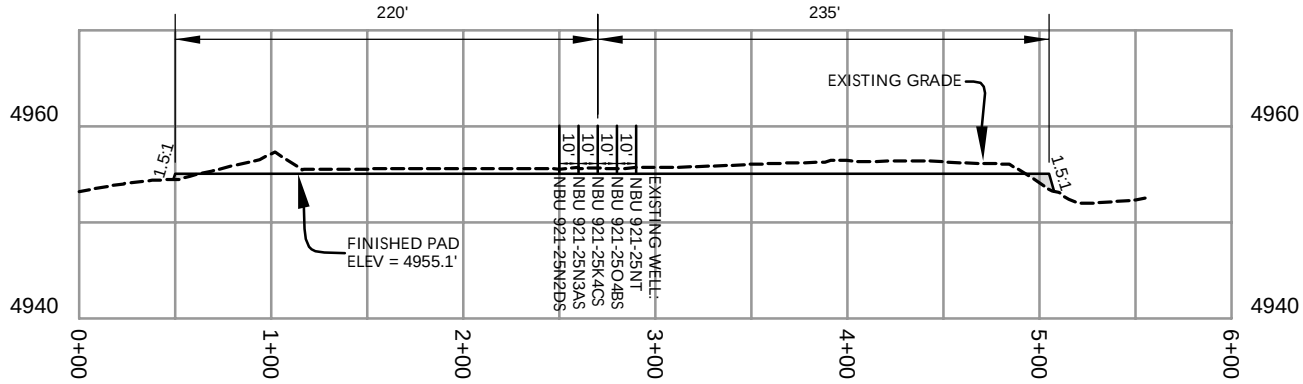
209 NORTH 300 WEST - VERNAL, UTAH 84078

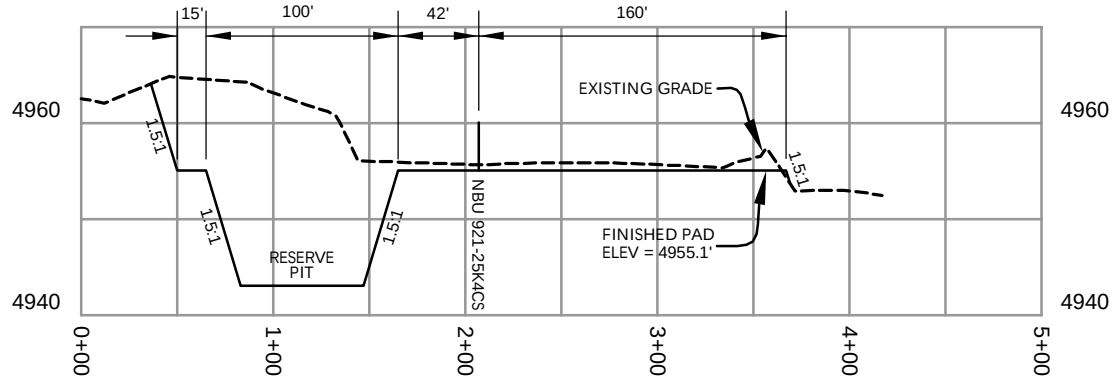
Scale: 1"=60'	Date: 5/13/10	SHEET NO:
REVISED:	TAR 8/31/10	6

6 OF 16

K:\NADARKO\2010_34_NBU_FOCUS_SEC_921-25\DWGS\NBU 921-25N\921-25N.dwg, 8/31/2010 8:50:56 AM



CROSS SECTION A-A'



CROSS SECTION B-B'

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

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

WELL PAD - NBU 921-25N

WELL PAD - CROSS SECTIONS
NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS &NBU 921-25O4BS
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

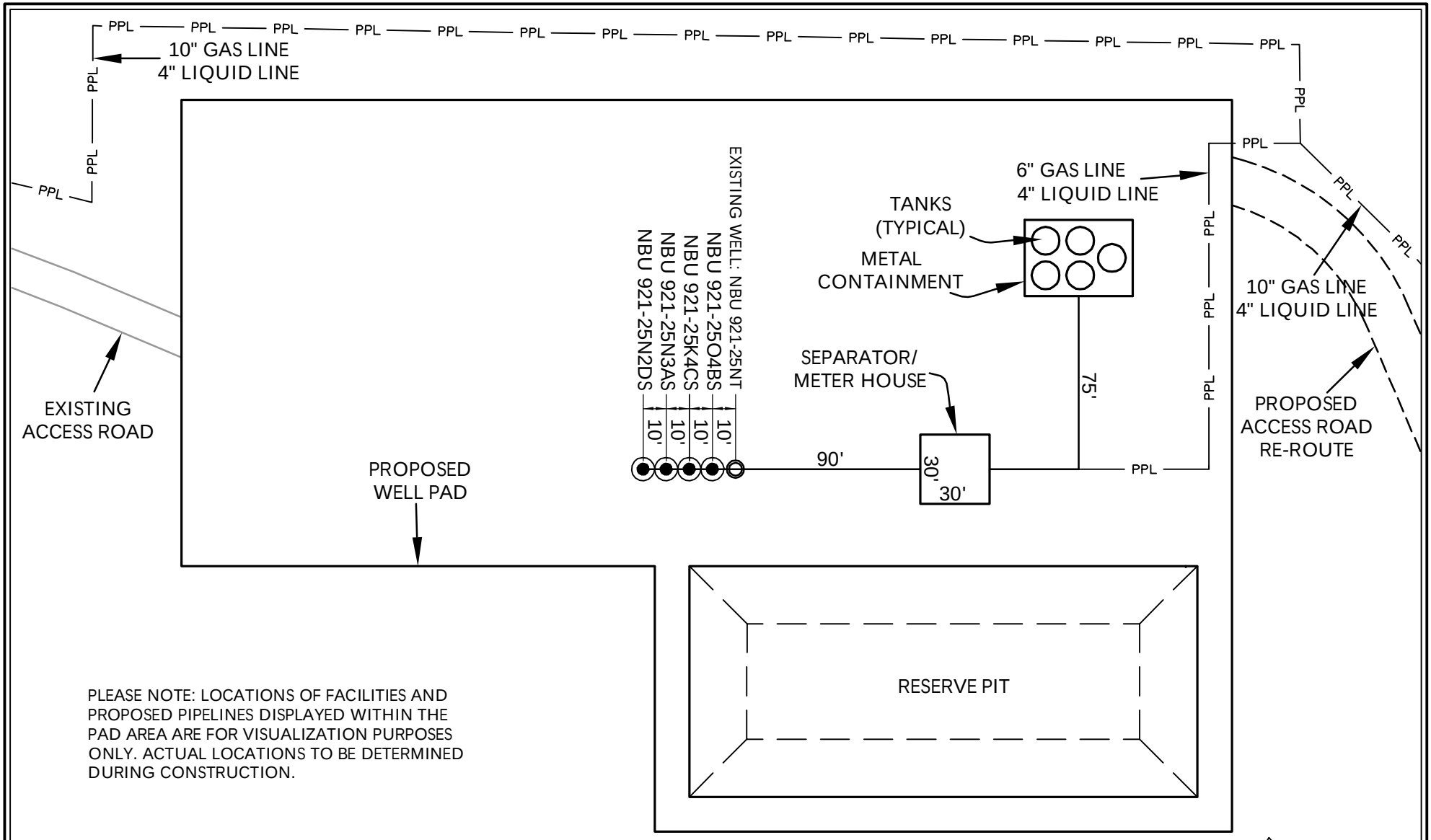
HORIZONTAL 0 50 100 1" = 100'
VERTICAL 0 10 20 1" = 20'

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

Scale: 1"=100'	Date: 5/13/10	SHEET NO:
REVISED:	TAR 7/7/10	7

7 OF 16

'API WellNo:43047512630000'
K:\ANADARKO\2010_34_NBU_FOCUS_SEC_921-25\DWGS\NBU 921-25N\921-25N.dwg, 7/7/2010 6:29:24 PM



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 921-25N

WELL PAD - FACILITIES DIAGRAM
NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS & NBU 921-25O4BS
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

WELL PAD LEGEND

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

HORIZONTAL 0 30' 60' 1" = 60'

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

Scale: 1"=60'	Date: 5/13/10	SHEET NO:
REVISED:	TAR 8/30/10	8 8 OF 16

API WellNo:43047512630000'

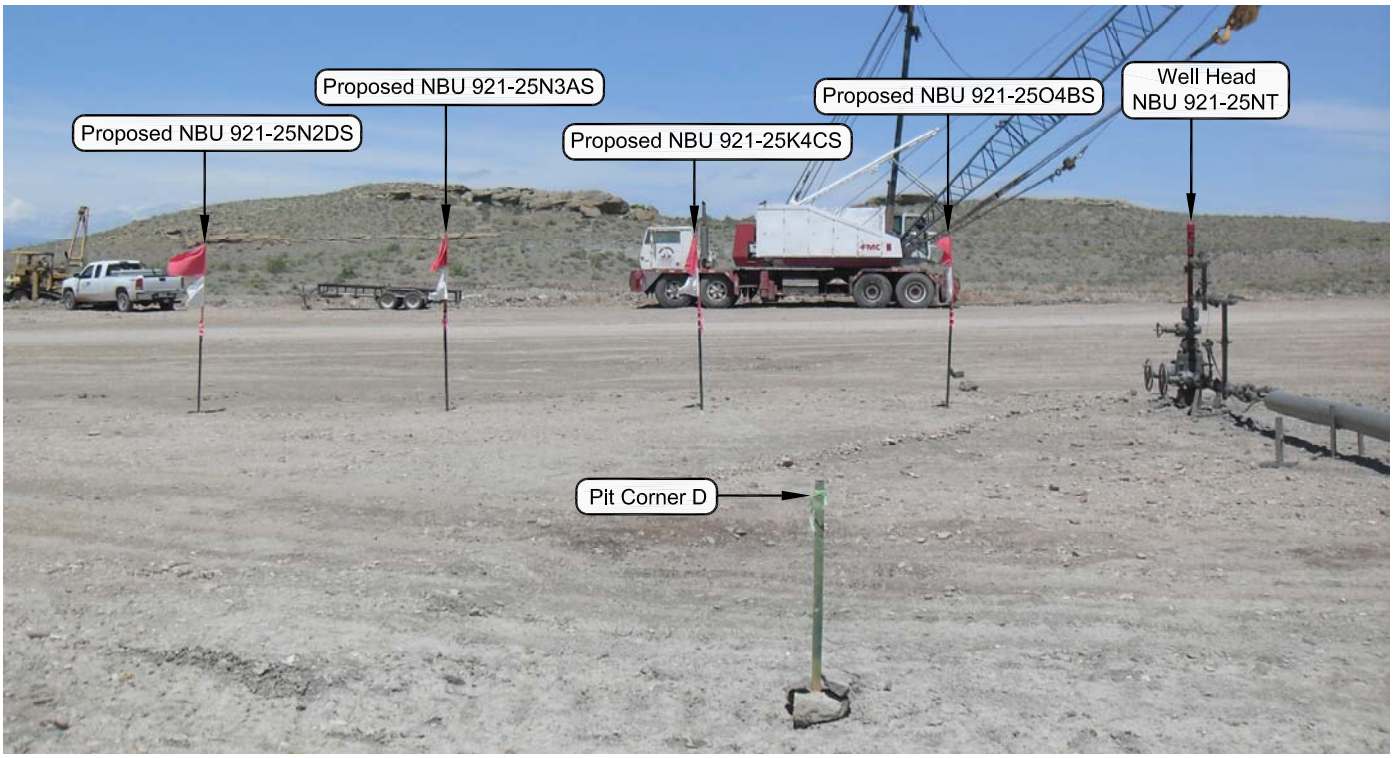


PHOTO VIEW: FROM PIT CORNER D TO LOCATION STAKE **CAMERA ANGLE: NORTHERLY**

PHOTO VIEW: FROM EXISTING ACCESS ROAD **CAMERA ANGLE: SOUTHEASTERLY**

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

WELL PAD - NBU 921-25N

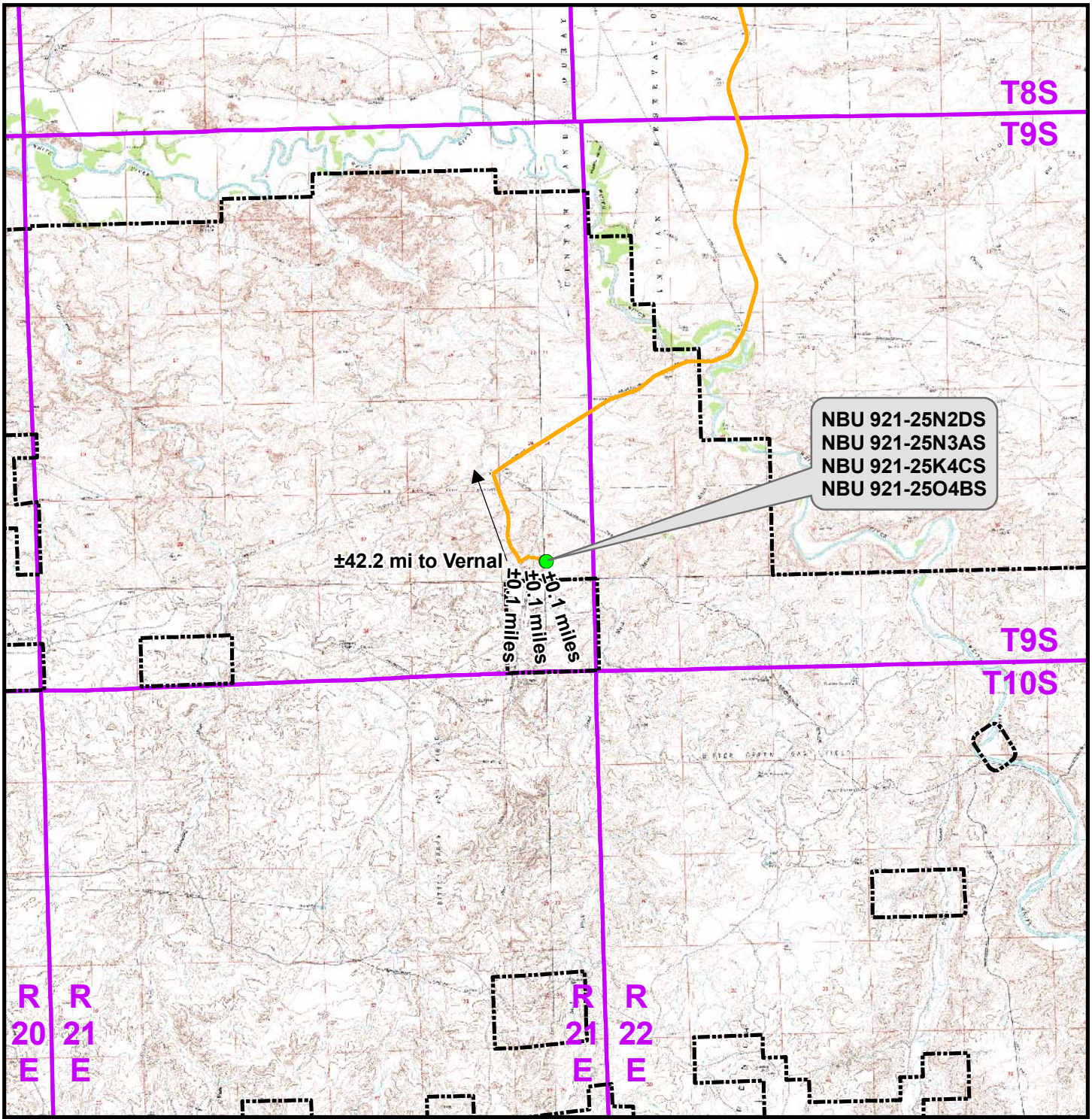
LOCATION PHOTOS
NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E, S.L.B.&M., UINTAH COUNTY, UTAH.

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

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

DATE PHOTOS TAKEN: 04-02-10	PHOTOS TAKEN BY: D.J.S.	SHEET NO:
DATE DRAWN: 04-07-10	DRAWN BY: B.M.	9
Date Last Revised: 06-09-10 B.M.		9 OF 16

'APIWellNo:43047512630000'



Legend

Distance From Well Pad - NBU 921-25N To Unit Boundary: ±1,156ft

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

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

WELL PAD - NBU 921-25N

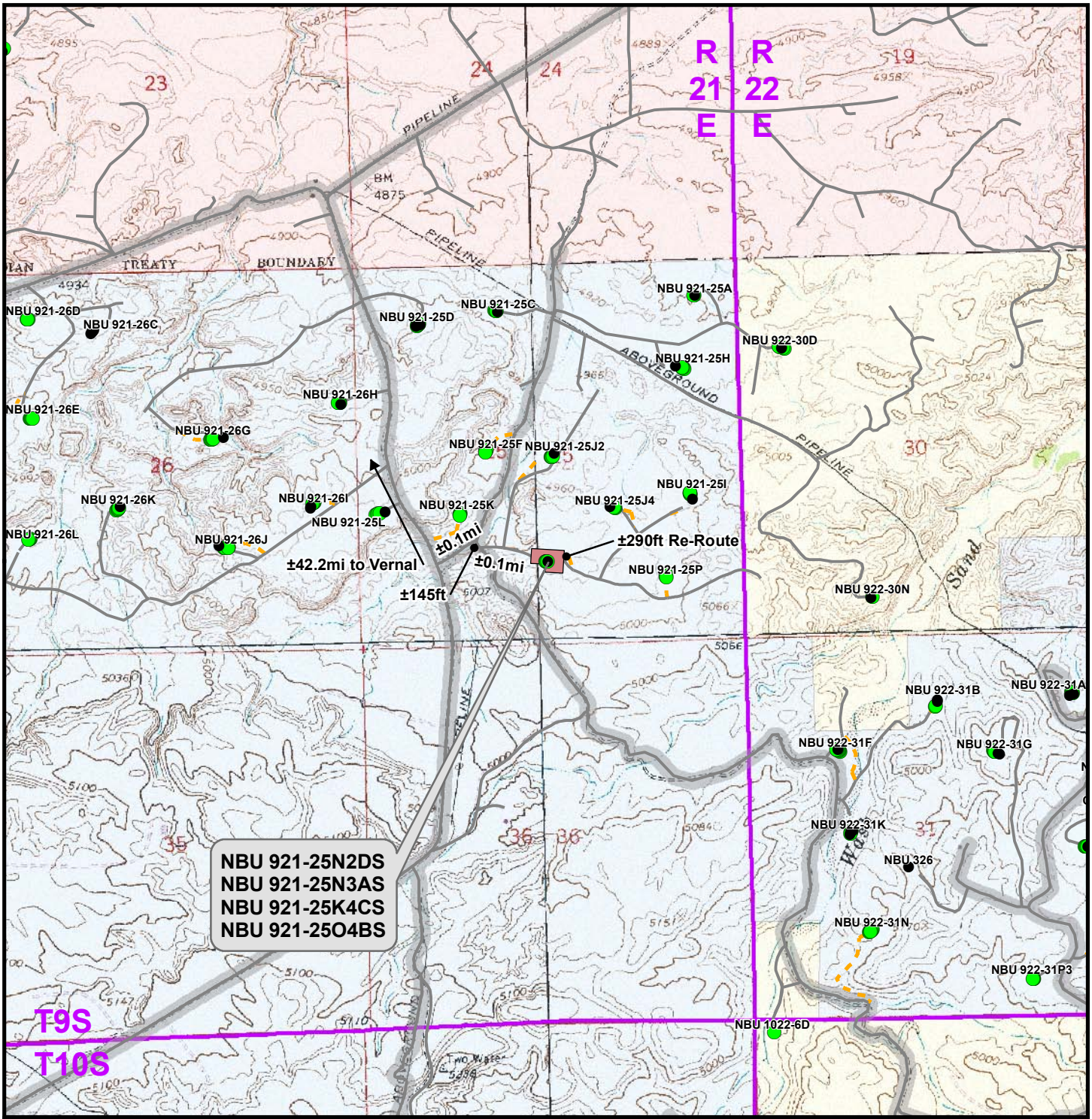
TOPO A
NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1:100,000	NAD83 USP Central	Sheet No: 10
Drawn: CPS Date: 14 May 2010		
Revised: CPS Date: 7 July 2010		

'APIWellNo:43047512630000'



Legend

Total Proposed Road Re-Route Length: ±290ft

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

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

WELL PAD - NBU 921-25N

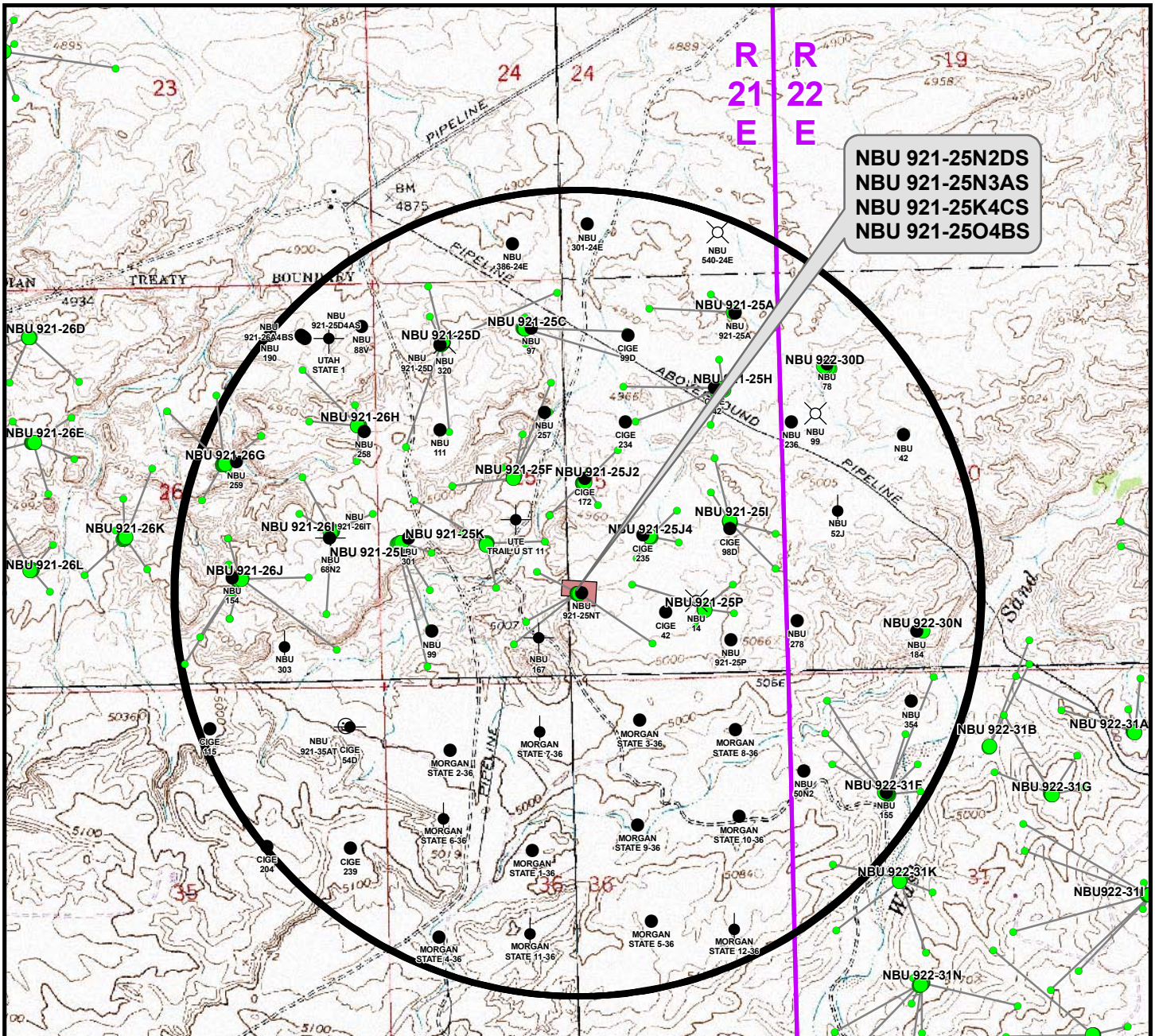
TOPO B
NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 11
Drawn: CPS	Date: 23 June 2010		
Revised: JFE	Date: 31 Aug 2010		11 of 16

'APIWellNo:43047512630000'



Proposed Well	Nearest Well Bore	Footage
NBU 921-25N2DS	NBU 167	264ft
NBU 921-25N3AS	NBU 167	335ft
NBU 921-25K4CS	NBU 921-25NT	633ft
NBU 921-25O4BS	CIGE 42	444ft

Legend

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

- Well - Proposed
- Bottom Hole - Proposed
- Well Path
- Well Pad
- Well - 1 Mile Radius
- Producing
- Active
- Spudded (Drilling commenced: Not yet completed)
- Approved permit (APD); not yet spudded
- New Permit (Not yet approved or drilled)
- Inactive
- Drilling Operations Suspended
- Temporarily-Abandoned
- Shut-In
- Plugged and Abandoned
- Location Abandoned
- Dry hole marker, buried
- Returned APD (Unapproved)

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

WELL PAD - NBU 921-25N

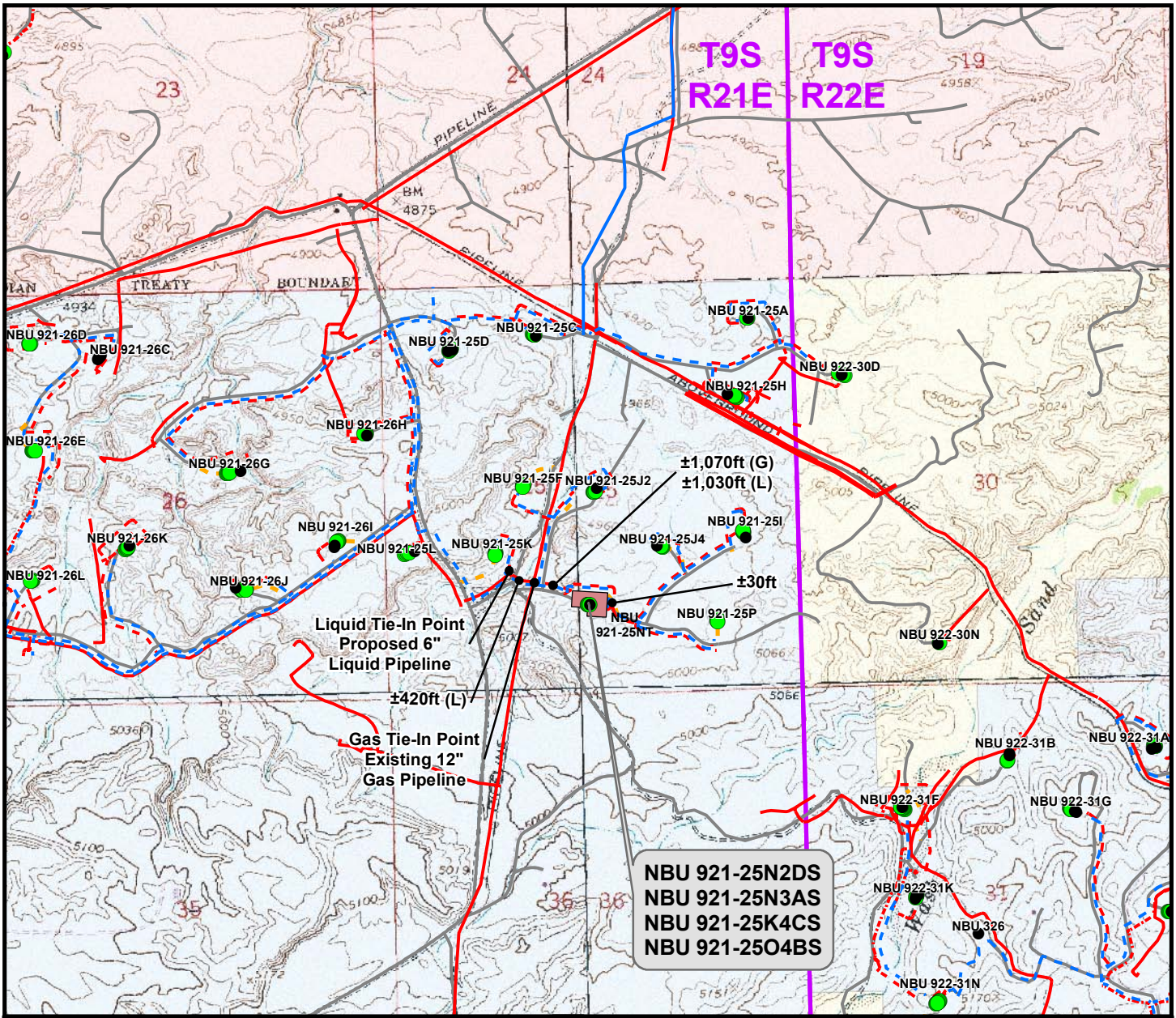
TOPO C
NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 2,000ft	NAD83 USP Central	Sheet No: 12
Drawn: CPS	Date: 14 May 2010	12 of 16
Revised: JFE	Date: 31 Aug 2010	

'APIWellNo:43047512630000'



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±260ft
Proposed 4" (Edge of Pad to 25J4 Intersection)	±30ft
Proposed 4" (25J4 Intersection to 25J2 Intersection)	±1,030ft
Proposed 6" (25J2 Intersection to 25K Intersection)	±420ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,740ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±260ft
Proposed 6" (Edge of Pad to 25J4 Intersection)	±30ft
Proposed 10" (25J4 Intersection to Existing 12" Pipeline)	±1,070ft
TOTAL PROPOSED GAS PIPELINE =	±1,360ft

Legend

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

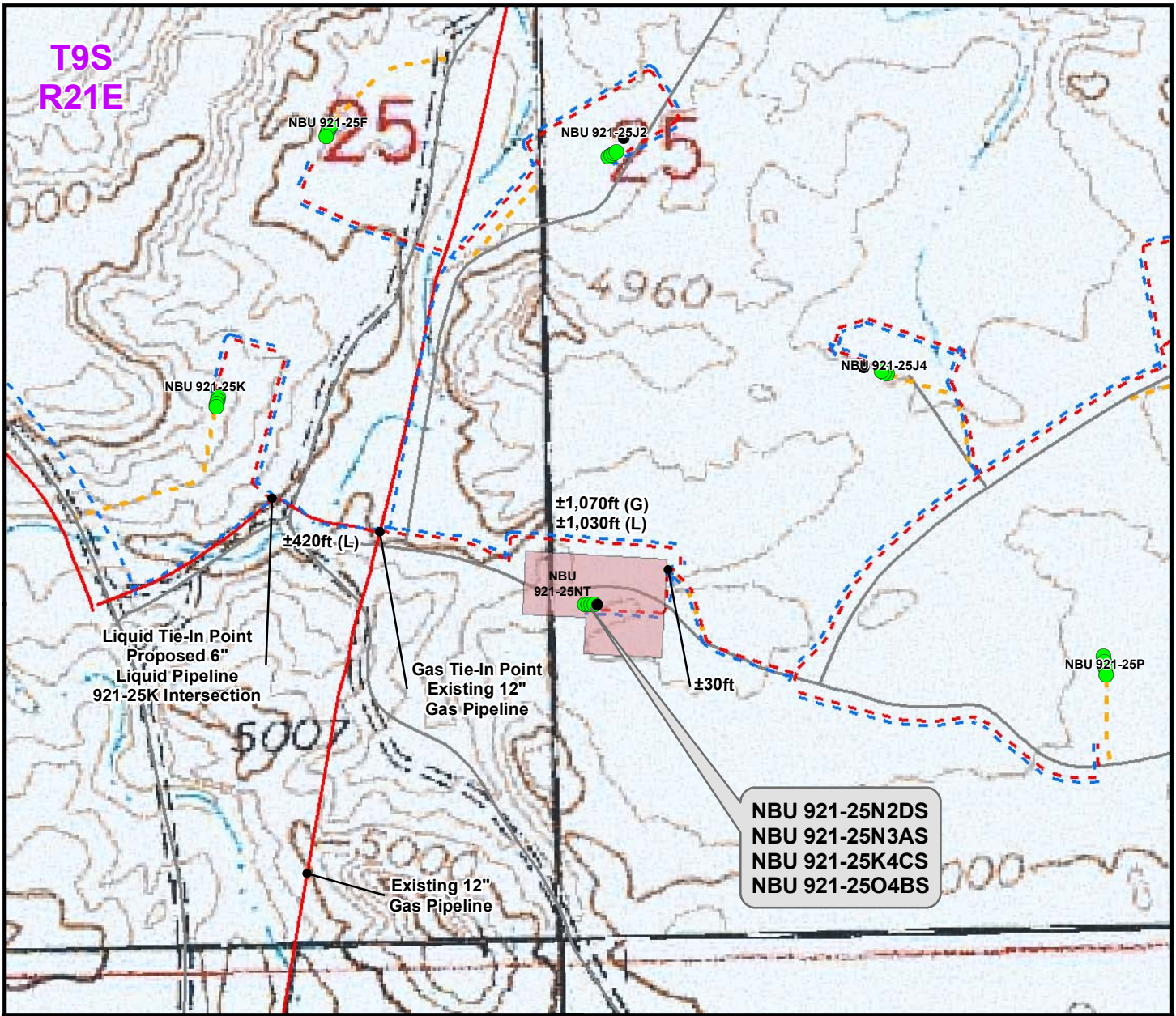
WELL PAD - NBU 921-25N

TOPO D
NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
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

N

Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 13
Drawn: CPS	Date: 14 May 2010		13 of 16
Revised: CPS	Date: 31 Aug 2010		



Proposed Liquid Pipeline	Length
Proposed 4" (Meter House to Edge of Pad)	±260ft
Proposed 4" (Edge of Pad to 25J4 Intersection)	±30ft
Proposed 4" (25J4 Intersection to 25J2 Intersection)	±1,030ft
Proposed 6" (25J2 Intersection to 25K Intersection)	±420ft
TOTAL PROPOSED LIQUID PIPELINE =	± 1,740ft

Proposed Gas Pipeline	Length
Proposed 6" (Meter House to Edge of Pad)	±260ft
Proposed 6" (Edge of Pad to 25J4 Intersection)	±30ft
Proposed 10" (25J4 Intersection to Existing 12" Pipeline)	±1,070ft
TOTAL PROPOSED GAS PIPELINE =	±1,360ft

Legend

- Well - Proposed
- Well - Existing
- Well Pad
- 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 921-25N

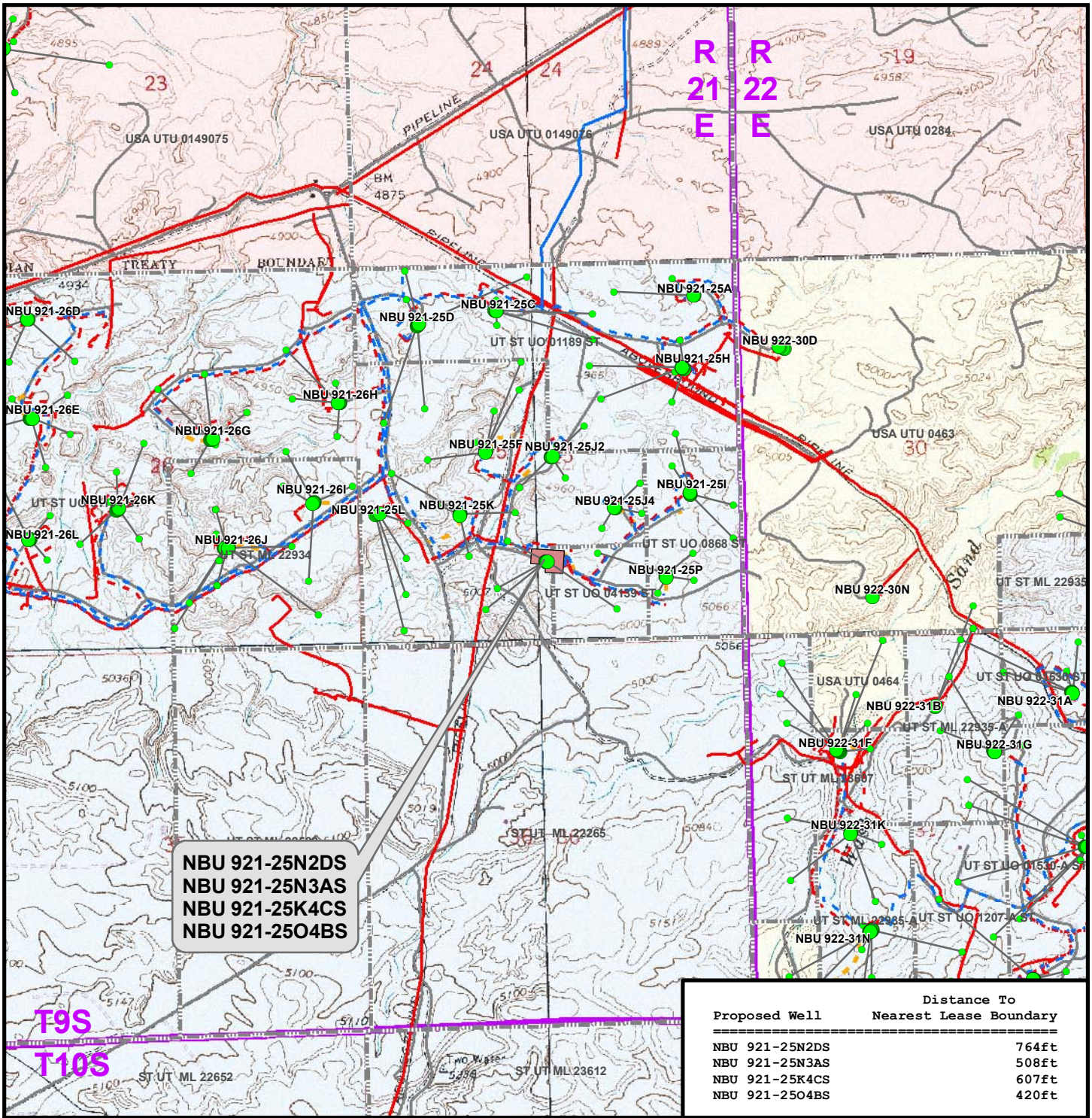
TOPO D2 (PAD & PIPELINE DETAIL)
NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS & NBU 921-25O4BS
LOCATED IN SECTION 25, T9S, R21E
S.L.B.&M., UINTAH COUNTY, UTAH

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

N

Scale: 1" = 500ft	NAD83 USP Central		Sheet No: 14
Drawn: CPS	Date: 14 May 2010		14 of 16
Revised: JFE	Date: 31 Aug 2010		

'APIWellNo:43047512630000'



Proposed Well	Distance To Nearest Lease Boundary
NBU 921-25N2DS	764ft
NBU 921-25N3AS	508ft
NBU 921-25K4CS	607ft
NBU 921-25O4BS	420ft

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 921-25N

TOPO E
NBU 921-25N2DS, NBU 921-25N3AS, NBU 921-25K4CS & NBU 921-25O4BS
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

N

Scale: 1" = 2,000ft	NAD83 USP Central		Sheet No: 15
Drawn: CPS	Date: 14 May 2010		15 of 16
Revised: JFE	Date: 31 Aug 2010		

Kerr-McGee Oil & Gas Onshore, LP
WELL PAD – NBU 921-25N
WELLS – NBU 921-25N2DS, NBU 921-25N3AS,
NBU 921-25K4CS & NBU 921-25O4BS
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 18.7 miles to a Class D County Road to the northeast. Exit left and proceed in a northeasterly direction along Class D County Road approximately 0.1 miles to a second Class D County Road to the southeast. Exit right and proceed in a southeasterly direction along second Class D County road approximately 145 feet to a service road to the east. Exit left and proceed in an easterly then southeasterly direction along service road approximately 0.1 miles to the proposed well location.

Total distance from Vernal, Utah to the proposed well location is approximately 42.4 miles in a southerly direction.

'APIWellNo:43047512630000'

Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: NBU 921-25N Pad
Well: NBU 921-25N3AS
Wellbore: OH
Design: Plan #1

Anadarko Petroleum Corporation

Kerr McGee Oil and Gas Onshore LP

WELL DETAILS: NBU 921-25N3AS
GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	14530655.97	2060602.02	40° 0' 10.624 N	109° 29' 58.618 W

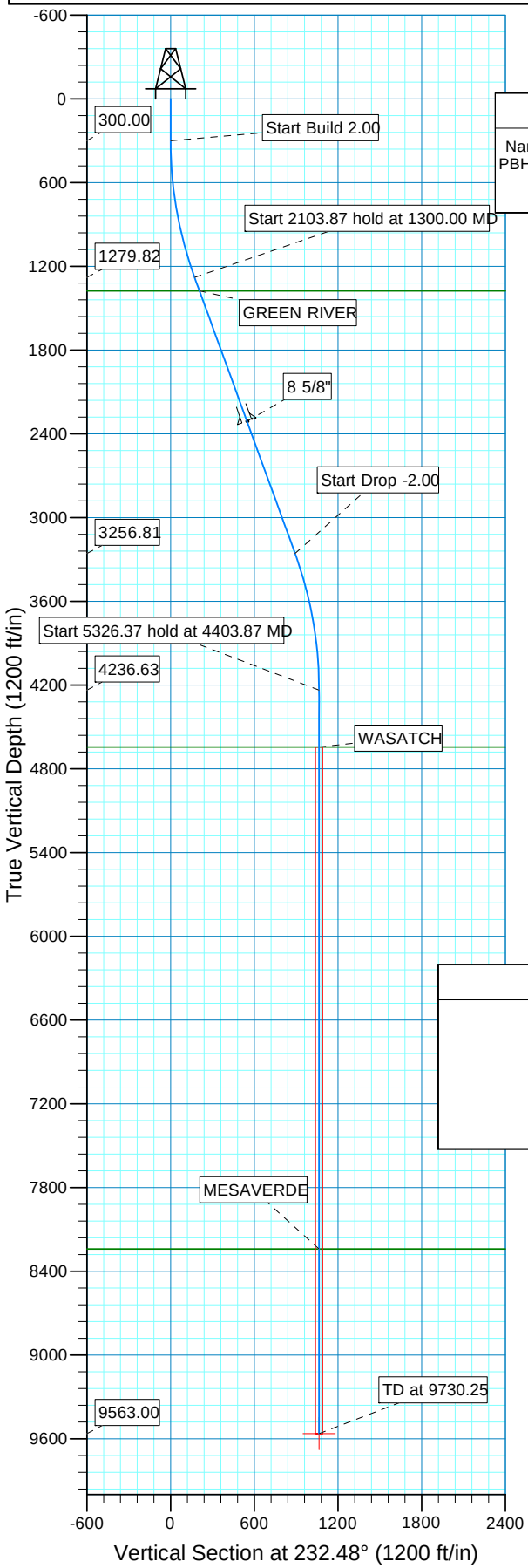
4955.00

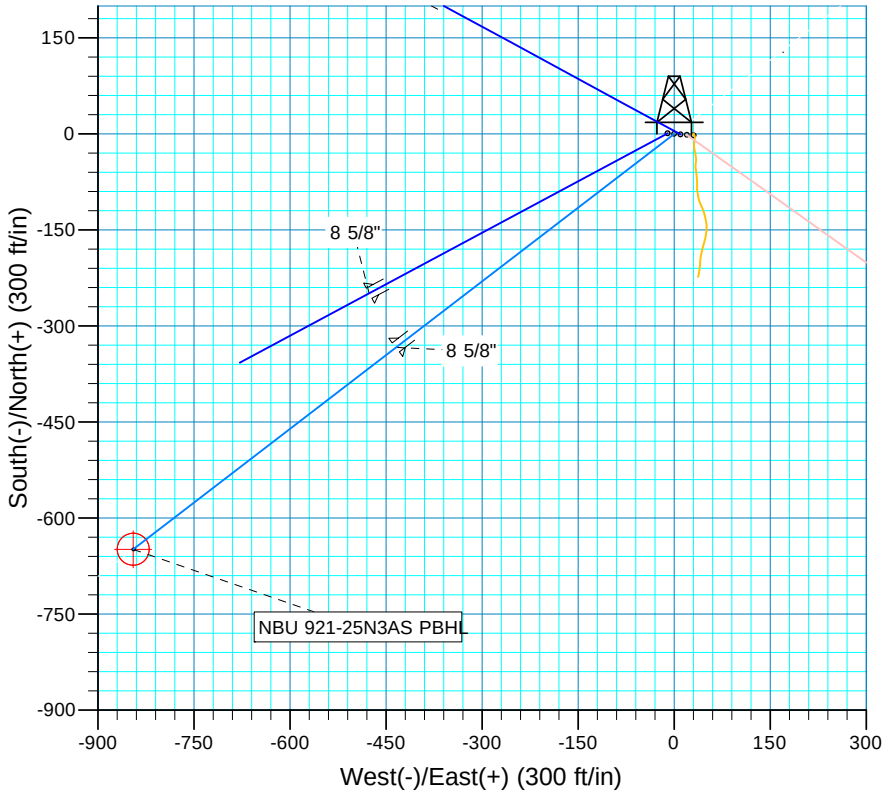
T M
Azimuths to True North
Magnetic North: 11.19°

Magnetic Field
Strength: 52417.8snT
Dip Angle: 65.89°
Date: 07/31/2010
Model: IGRF2010

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

Name	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude	Shape
PBHL	9563.00	-648.64	-844.81	14529993.20	2059768.25	40° 0' 4.212 N	109° 30' 9.475 W	Circle (Radius: 25.0





SECTION DETAILS

Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DIeg	TFace	VSect	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	1300.00	20.00	232.48	1279.82	-105.21	-137.04	2.00	232.48	172.77	
4	3403.87	20.00	232.48	3256.81	-543.43	-707.78	0.00	0.00	892.34	
5	4403.87	0.00	0.00	4236.63	-648.64	-844.81	2.00	180.00	1065.10	
6	9730.25	0.00	0.00	9563.00	-648.64	-844.81	0.00	0.00	1065.10	NBU 921-25N3AS PBHL

FORMATION TOP DETAILS

TVDPath	MDPath	Formation
1377.00	1403.42	GREEN RIVER
4644.00	4811.25	WASATCH
8241.00	8408.25	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: True

Plan: Plan #1 (NBU 921-25N3AS/OH)

Created By: Robert H. Scott Date: 11:52, July 31 2010

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Plan: Plan #1

Standard Planning Report

31 July, 2010

Anadarko
Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.73 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	-10.08 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	07/31/2010	11.19	65.89	52,418

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	232.48

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	
1,300.00	20.00	232.48	1,279.82	-105.21	-137.04	2.00	2.00	0.00	232.48	
3,403.87	20.00	232.48	3,256.81	-543.43	-707.78	0.00	0.00	0.00	0.00	
4,403.87	0.00	0.00	4,236.63	-648.64	-844.81	2.00	-2.00	0.00	180.00	
9,730.25	0.00	0.00	9,563.00	-648.64	-844.81	0.00	0.00	0.00	0.00	NBU 921-25N3AS PB

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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	232.48	399.98	-1.06	-1.38	1.75	2.00	2.00	0.00
500.00	4.00	232.48	499.84	-4.25	-5.54	6.98	2.00	2.00	0.00
600.00	6.00	232.48	599.45	-9.56	-12.45	15.69	2.00	2.00	0.00
700.00	8.00	232.48	698.70	-16.98	-22.11	27.88	2.00	2.00	0.00
800.00	10.00	232.48	797.47	-26.50	-34.52	43.52	2.00	2.00	0.00
900.00	12.00	232.48	895.62	-38.12	-49.65	62.60	2.00	2.00	0.00
1,000.00	14.00	232.48	993.06	-51.82	-67.50	85.10	2.00	2.00	0.00
1,100.00	16.00	232.48	1,089.64	-67.58	-88.02	110.98	2.00	2.00	0.00
1,200.00	18.00	232.48	1,185.27	-85.39	-111.21	140.21	2.00	2.00	0.00
1,300.00	20.00	232.48	1,279.82	-105.21	-137.04	172.77	2.00	2.00	0.00
Start 2103.87 hold at 1300.00 MD									
1,400.00	20.00	232.48	1,373.78	-126.04	-164.16	206.97	0.00	0.00	0.00
1,403.42	20.00	232.48	1,377.00	-126.76	-165.09	208.14	0.00	0.00	0.00
GREEN RIVER									
1,500.00	20.00	232.48	1,467.75	-146.87	-191.29	241.17	0.00	0.00	0.00
1,600.00	20.00	232.48	1,561.72	-167.70	-218.42	275.37	0.00	0.00	0.00
1,700.00	20.00	232.48	1,655.69	-188.53	-245.55	309.58	0.00	0.00	0.00
1,800.00	20.00	232.48	1,749.66	-209.36	-272.68	343.78	0.00	0.00	0.00
1,900.00	20.00	232.48	1,843.63	-230.19	-299.80	377.98	0.00	0.00	0.00
2,000.00	20.00	232.48	1,937.60	-251.02	-326.93	412.18	0.00	0.00	0.00
2,100.00	20.00	232.48	2,031.57	-271.84	-354.06	446.38	0.00	0.00	0.00
2,200.00	20.00	232.48	2,125.54	-292.67	-381.19	480.59	0.00	0.00	0.00
2,300.00	20.00	232.48	2,219.51	-313.50	-408.32	514.79	0.00	0.00	0.00
2,396.30	20.00	232.48	2,310.00	-333.56	-434.44	547.72	0.00	0.00	0.00
8 5/8"									
2,400.00	20.00	232.48	2,313.48	-334.33	-435.45	548.99	0.00	0.00	0.00
2,500.00	20.00	232.48	2,407.45	-355.16	-462.57	583.19	0.00	0.00	0.00
2,600.00	20.00	232.48	2,501.42	-375.99	-489.70	617.39	0.00	0.00	0.00
2,700.00	20.00	232.48	2,595.39	-396.82	-516.83	651.60	0.00	0.00	0.00
2,800.00	20.00	232.48	2,689.35	-417.65	-543.96	685.80	0.00	0.00	0.00
2,900.00	20.00	232.48	2,783.32	-438.47	-571.09	720.00	0.00	0.00	0.00
3,000.00	20.00	232.48	2,877.29	-459.30	-598.22	754.20	0.00	0.00	0.00
3,100.00	20.00	232.48	2,971.26	-480.13	-625.34	788.40	0.00	0.00	0.00
3,200.00	20.00	232.48	3,065.23	-500.96	-652.47	822.61	0.00	0.00	0.00
3,300.00	20.00	232.48	3,159.20	-521.79	-679.60	856.81	0.00	0.00	0.00
3,400.00	20.00	232.48	3,253.17	-542.62	-706.73	891.01	0.00	0.00	0.00
3,403.87	20.00	232.48	3,256.81	-543.43	-707.78	892.34	0.00	0.00	0.00
Start Drop -2.00									
3,500.00	18.08	232.48	3,347.67	-562.52	-732.65	923.69	2.00	-2.00	0.00
3,600.00	16.08	232.48	3,443.26	-580.40	-755.94	953.06	2.00	-2.00	0.00
3,700.00	14.08	232.48	3,539.81	-596.24	-776.57	979.07	2.00	-2.00	0.00
3,800.00	12.08	232.48	3,637.21	-610.02	-794.52	1,001.69	2.00	-2.00	0.00
3,900.00	10.08	232.48	3,735.35	-621.72	-809.76	1,020.91	2.00	-2.00	0.00
4,000.00	8.08	232.48	3,834.09	-631.33	-822.27	1,036.68	2.00	-2.00	0.00
4,100.00	6.08	232.48	3,933.32	-638.83	-832.04	1,049.00	2.00	-2.00	0.00
4,200.00	4.08	232.48	4,032.92	-644.22	-839.06	1,057.85	2.00	-2.00	0.00

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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	2.08	232.48	4,132.77	-647.49	-843.32	1,063.22	2.00	-2.00	0.00
4,400.00	0.08	232.48	4,232.75	-648.64	-844.81	1,065.10	2.00	-2.00	0.00
4,403.87	0.00	0.00	4,236.63	-648.64	-844.81	1,065.10	2.00	-2.00	0.00
Start 5326.37 hold at 4403.87 MD									
4,500.00	0.00	0.00	4,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
4,600.00	0.00	0.00	4,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
4,700.00	0.00	0.00	4,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
4,800.00	0.00	0.00	4,632.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
4,811.25	0.00	0.00	4,644.00	-648.64	-844.81	1,065.10	0.00	0.00	0.00
WASATCH									
4,900.00	0.00	0.00	4,732.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,000.00	0.00	0.00	4,832.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,100.00	0.00	0.00	4,932.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,200.00	0.00	0.00	5,032.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,300.00	0.00	0.00	5,132.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,400.00	0.00	0.00	5,232.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,500.00	0.00	0.00	5,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,600.00	0.00	0.00	5,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,700.00	0.00	0.00	5,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,800.00	0.00	0.00	5,632.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
5,900.00	0.00	0.00	5,732.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,000.00	0.00	0.00	5,832.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,100.00	0.00	0.00	5,932.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,200.00	0.00	0.00	6,032.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,300.00	0.00	0.00	6,132.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,400.00	0.00	0.00	6,232.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,500.00	0.00	0.00	6,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,600.00	0.00	0.00	6,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,700.00	0.00	0.00	6,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,800.00	0.00	0.00	6,632.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
6,900.00	0.00	0.00	6,732.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,000.00	0.00	0.00	6,832.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,100.00	0.00	0.00	6,932.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,200.00	0.00	0.00	7,032.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,300.00	0.00	0.00	7,132.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,400.00	0.00	0.00	7,232.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,500.00	0.00	0.00	7,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,600.00	0.00	0.00	7,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,700.00	0.00	0.00	7,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,800.00	0.00	0.00	7,632.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
7,900.00	0.00	0.00	7,732.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,000.00	0.00	0.00	7,832.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,100.00	0.00	0.00	7,932.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,200.00	0.00	0.00	8,032.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,300.00	0.00	0.00	8,132.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,400.00	0.00	0.00	8,232.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,408.25	0.00	0.00	8,241.00	-648.64	-844.81	1,065.10	0.00	0.00	0.00
MESAVERDE									
8,500.00	0.00	0.00	8,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,600.00	0.00	0.00	8,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,700.00	0.00	0.00	8,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
8,800.00	0.00	0.00	8,632.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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)
8,900.00	0.00	0.00	8,732.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,000.00	0.00	0.00	8,832.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,100.00	0.00	0.00	8,932.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,200.00	0.00	0.00	9,032.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,300.00	0.00	0.00	9,132.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,400.00	0.00	0.00	9,232.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,500.00	0.00	0.00	9,332.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,600.00	0.00	0.00	9,432.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,700.00	0.00	0.00	9,532.75	-648.64	-844.81	1,065.10	0.00	0.00	0.00
9,730.25	0.00	0.00	9,563.00	-648.64	-844.81	1,065.10	0.00	0.00	0.00

TD at 9730.25 - NBU 921-25N3AS PBHL

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-25N3AS PBHL - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,563.00	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,396.30	2,310.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,403.42	1,377.00	GREEN RIVER			
4,811.25	4,644.00	WASATCH			
8,408.25	8,241.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-105.21	-137.04	Start 2103.87 hold at 1300.00 MD
3,403.87	3,256.81	-543.43	-707.78	Start Drop -2.00
4,403.87	4,236.63	-648.64	-844.81	Start 5326.37 hold at 4403.87 MD
9,730.25	9,563.00	-648.64	-844.81	TD at 9730.25

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Plan: Plan #1

Standard Planning Report - Geographic

31 July, 2010

Anadarko
Petroleum Corporation

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**Survey Calculation Method:**	Minimum Curvature
Wellbore:	OH		
Design:	Plan #1		

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	0.00 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**		**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2010	07/31/2010	11.19	65.89	52,418

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	232.48

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	
1,300.00	20.00	232.48	1,279.82	-105.21	-137.04	2.00	2.00	0.00	232.48	
3,403.87	20.00	232.48	3,256.81	-543.43	-707.78	0.00	0.00	0.00	0.00	
4,403.87	0.00	0.00	4,236.63	-648.64	-844.81	2.00	-2.00	0.00	180.00	
9,730.25	0.00	0.00	9,563.00	-648.64	-844.81	0.00	0.00	0.00	0.00	NBU 921-25N3AS PB

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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 (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
100.00	0.00	0.00	100.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
200.00	0.00	0.00	200.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
300.00	0.00	0.00	300.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
Start Build 2.00									
400.00	2.00	232.48	399.98	-1.06	-1.38	14,530,654.89	2,060,600.65	40° 0' 10.613 N	109° 29' 58.635 W
500.00	4.00	232.48	499.84	-4.25	-5.54	14,530,651.63	2,060,596.55	40° 0' 10.582 N	109° 29' 58.689 W
600.00	6.00	232.48	599.45	-9.56	-12.45	14,530,646.21	2,060,589.73	40° 0' 10.529 N	109° 29' 58.778 W
700.00	8.00	232.48	698.70	-16.98	-22.11	14,530,638.62	2,060,580.19	40° 0' 10.456 N	109° 29' 58.902 W
800.00	10.00	232.48	797.47	-26.50	-34.52	14,530,628.89	2,060,567.95	40° 0' 10.362 N	109° 29' 59.061 W
900.00	12.00	232.48	895.62	-38.12	-49.65	14,530,617.02	2,060,553.01	40° 0' 10.247 N	109° 29' 59.256 W
1,000.00	14.00	232.48	993.06	-51.82	-67.50	14,530,603.02	2,060,535.40	40° 0' 10.111 N	109° 29' 59.485 W
1,100.00	16.00	232.48	1,089.64	-67.58	-88.02	14,530,586.92	2,060,515.14	40° 0' 9.956 N	109° 29' 59.749 W
1,200.00	18.00	232.48	1,185.27	-85.39	-111.21	14,530,568.72	2,060,492.26	40° 0' 9.780 N	109° 30' 0.047 W
1,300.00	20.00	232.48	1,279.82	-105.21	-137.04	14,530,548.47	2,060,466.77	40° 0' 9.584 N	109° 30' 0.379 W
Start 2103.87 hold at 1300.00 MD									
1,400.00	20.00	232.48	1,373.78	-126.04	-164.16	14,530,527.18	2,060,440.00	40° 0' 9.378 N	109° 30' 0.727 W
1,403.42	20.00	232.48	1,377.00	-126.76	-165.09	14,530,526.46	2,060,439.08	40° 0' 9.371 N	109° 30' 0.739 W
GREEN RIVER									
1,500.00	20.00	232.48	1,467.75	-146.87	-191.29	14,530,505.90	2,060,413.22	40° 0' 9.172 N	109° 30' 1.076 W
1,600.00	20.00	232.48	1,561.72	-167.70	-218.42	14,530,484.62	2,060,386.45	40° 0' 8.966 N	109° 30' 1.425 W
1,700.00	20.00	232.48	1,655.69	-188.53	-245.55	14,530,463.34	2,060,359.68	40° 0' 8.760 N	109° 30' 1.773 W
1,800.00	20.00	232.48	1,749.66	-209.36	-272.68	14,530,442.05	2,060,332.90	40° 0' 8.554 N	109° 30' 2.122 W
1,900.00	20.00	232.48	1,843.63	-230.19	-299.80	14,530,420.77	2,060,306.13	40° 0' 8.348 N	109° 30' 2.471 W
2,000.00	20.00	232.48	1,937.60	-251.02	-326.93	14,530,399.49	2,060,279.36	40° 0' 8.142 N	109° 30' 2.819 W
2,100.00	20.00	232.48	2,031.57	-271.84	-354.06	14,530,378.21	2,060,252.58	40° 0' 7.937 N	109° 30' 3.168 W
2,200.00	20.00	232.48	2,125.54	-292.67	-381.19	14,530,356.92	2,060,225.81	40° 0' 7.731 N	109° 30' 3.517 W
2,300.00	20.00	232.48	2,219.51	-313.50	-408.32	14,530,335.64	2,060,199.03	40° 0' 7.525 N	109° 30' 3.865 W
2,396.30	20.00	232.48	2,310.00	-333.56	-434.44	14,530,315.15	2,060,173.25	40° 0' 7.327 N	109° 30' 4.201 W
8 5/8"									
2,400.00	20.00	232.48	2,313.48	-334.33	-435.45	14,530,314.36	2,060,172.26	40° 0' 7.319 N	109° 30' 4.214 W
2,500.00	20.00	232.48	2,407.45	-355.16	-462.57	14,530,293.08	2,060,145.49	40° 0' 7.113 N	109° 30' 4.563 W
2,600.00	20.00	232.48	2,501.42	-375.99	-489.70	14,530,271.79	2,060,118.71	40° 0' 6.907 N	109° 30' 4.911 W
2,700.00	20.00	232.48	2,595.39	-396.82	-516.83	14,530,250.51	2,060,091.94	40° 0' 6.701 N	109° 30' 5.260 W
2,800.00	20.00	232.48	2,689.35	-417.65	-543.96	14,530,229.23	2,060,065.17	40° 0' 6.495 N	109° 30' 5.609 W
2,900.00	20.00	232.48	2,783.32	-438.47	-571.09	14,530,207.95	2,060,038.39	40° 0' 6.289 N	109° 30' 5.957 W
3,000.00	20.00	232.48	2,877.29	-459.30	-598.22	14,530,186.66	2,060,011.62	40° 0' 6.084 N	109° 30' 6.306 W
3,100.00	20.00	232.48	2,971.26	-480.13	-625.34	14,530,165.38	2,059,984.85	40° 0' 5.878 N	109° 30' 6.655 W
3,200.00	20.00	232.48	3,065.23	-500.96	-652.47	14,530,144.10	2,059,958.07	40° 0' 5.672 N	109° 30' 7.003 W
3,300.00	20.00	232.48	3,159.20	-521.79	-679.60	14,530,122.82	2,059,931.30	40° 0' 5.466 N	109° 30' 7.352 W
3,400.00	20.00	232.48	3,253.17	-542.62	-706.73	14,530,101.53	2,059,904.52	40° 0' 5.260 N	109° 30' 7.701 W
3,403.87	20.00	232.48	3,256.81	-543.43	-707.78	14,530,100.71	2,059,903.49	40° 0' 5.252 N	109° 30' 7.714 W
Start Drop -2.00									
3,500.00	18.08	232.48	3,347.67	-562.52	-732.65	14,530,081.20	2,059,878.94	40° 0' 5.063 N	109° 30' 8.034 W
3,600.00	16.08	232.48	3,443.26	-580.40	-755.94	14,530,062.93	2,059,855.95	40° 0' 4.887 N	109° 30' 8.333 W
3,700.00	14.08	232.48	3,539.81	-596.24	-776.57	14,530,046.74	2,059,835.59	40° 0' 4.730 N	109° 30' 8.598 W
3,800.00	12.08	232.48	3,637.21	-610.02	-794.52	14,530,032.66	2,059,817.88	40° 0' 4.594 N	109° 30' 8.829 W
3,900.00	10.08	232.48	3,735.35	-621.72	-809.76	14,530,020.71	2,059,802.84	40° 0' 4.478 N	109° 30' 9.025 W
4,000.00	8.08	232.48	3,834.09	-631.33	-822.27	14,530,010.89	2,059,790.49	40° 0' 4.383 N	109° 30' 9.185 W
4,100.00	6.08	232.48	3,933.32	-638.83	-832.04	14,530,003.22	2,059,780.85	40° 0' 4.309 N	109° 30' 9.311 W
4,200.00	4.08	232.48	4,032.92	-644.22	-839.06	14,529,997.72	2,059,773.92	40° 0' 4.256 N	109° 30' 9.401 W
4,300.00	2.08	232.48	4,132.77	-647.49	-843.32	14,529,994.37	2,059,769.72	40° 0' 4.223 N	109° 30' 9.456 W

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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 (usft)	Map Easting (usft)	Latitude	Longitude
4,400.00	0.08	232.48	4,232.75	-648.64	-844.81	14,529,993.20	2,059,768.25	40° 0' 4.212 N	109° 30' 9.475 W
4,403.87	0.00	0.00	4,236.63	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
Start 5326.37 hold at 4403.87 MD									
4,500.00	0.00	0.00	4,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
4,600.00	0.00	0.00	4,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
4,700.00	0.00	0.00	4,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
4,800.00	0.00	0.00	4,632.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
4,811.25	0.00	0.00	4,644.00	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
WASATCH									
4,900.00	0.00	0.00	4,732.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,000.00	0.00	0.00	4,832.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,100.00	0.00	0.00	4,932.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,200.00	0.00	0.00	5,032.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,300.00	0.00	0.00	5,132.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,400.00	0.00	0.00	5,232.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,500.00	0.00	0.00	5,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,600.00	0.00	0.00	5,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,700.00	0.00	0.00	5,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,800.00	0.00	0.00	5,632.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
5,900.00	0.00	0.00	5,732.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,000.00	0.00	0.00	5,832.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,100.00	0.00	0.00	5,932.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,200.00	0.00	0.00	6,032.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,300.00	0.00	0.00	6,132.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,400.00	0.00	0.00	6,232.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,500.00	0.00	0.00	6,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,600.00	0.00	0.00	6,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,700.00	0.00	0.00	6,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,800.00	0.00	0.00	6,632.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
6,900.00	0.00	0.00	6,732.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,000.00	0.00	0.00	6,832.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,100.00	0.00	0.00	6,932.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,200.00	0.00	0.00	7,032.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,300.00	0.00	0.00	7,132.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,400.00	0.00	0.00	7,232.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,500.00	0.00	0.00	7,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,600.00	0.00	0.00	7,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,700.00	0.00	0.00	7,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,800.00	0.00	0.00	7,632.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
7,900.00	0.00	0.00	7,732.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,000.00	0.00	0.00	7,832.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,100.00	0.00	0.00	7,932.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,200.00	0.00	0.00	8,032.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,300.00	0.00	0.00	8,132.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,400.00	0.00	0.00	8,232.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,408.25	0.00	0.00	8,241.00	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
MESAVERDE									
8,500.00	0.00	0.00	8,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,600.00	0.00	0.00	8,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,700.00	0.00	0.00	8,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,800.00	0.00	0.00	8,632.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
8,900.00	0.00	0.00	8,732.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W

Database:	EDM5000-RobertS-Local	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Company:	Kerr McGee Oil and Gas Onshore LP	**TVD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Project:	Uintah County, UT UTM12	**MD Reference:**	GL 4955' & RKB 14' @ 4969.00ft (ASSUMED)
Site:	NBU 921-25N Pad	**North Reference:**	True
Well:	NBU 921-25N3AS	**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 (usft)	Map Easting (usft)	Latitude	Longitude
9,000.00	0.00	0.00	8,832.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,100.00	0.00	0.00	8,932.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,200.00	0.00	0.00	9,032.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,300.00	0.00	0.00	9,132.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,400.00	0.00	0.00	9,232.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,500.00	0.00	0.00	9,332.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,600.00	0.00	0.00	9,432.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,700.00	0.00	0.00	9,532.75	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W
9,730.25	0.00	0.00	9,563.00	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W

TD at 9730.25 - NBU 921-25N3AS PBHL

Design Targets

Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (usft)	Easting (usft)	Latitude	Longitude
NBU 921-25N3AS PBHL - plan hits target center - Circle (radius 25.00)	0.00	0.00	9,563.00	-648.64	-844.81	14,529,993.20	2,059,768.24	40° 0' 4.212 N	109° 30' 9.475 W

Casing Points

Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)
2,396.30	2,310.00	8 5/8"	8.625	11.000

Formations

Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)
1,403.42	1,377.00	GREEN RIVER			
4,811.25	4,644.00	WASATCH			
8,408.25	8,241.00	MESAVERDE			

Plan Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
300.00	300.00	0.00	0.00	Start Build 2.00
1,300.00	1,279.82	-105.21	-137.04	Start 2103.87 hold at 1300.00 MD
3,403.87	3,256.81	-543.43	-707.78	Start Drop -2.00
4,403.87	4,236.63	-648.64	-844.81	Start 5326.37 hold at 4403.87 MD
9,730.25	9,563.00	-648.64	-844.81	TD at 9730.25

NBU 921-25K4CS
Surface: 1,157’ FSL 2,585’ FWL (SE/4SW/4)
BHL: 1,450’ FSL 2,045’ FWL (NE/4SW/4)
Mineral Lease: UO 1194 ST

NBU 921-25N2DS
Surface: 1,159’ FSL 2,565’ FWL (SE/4SW/4)
BHL: 800’ FSL 1,896’ FWL (SE/4SW/4)
Mineral Lease: UO 1194 ST

NBU 921-25N3AS
Surface: 1,158’ FSL 2,575’ FWL (SE/4SW/4)
BHL: 508’ FSL 1,729’ FWL (SE/4SW/4)
Mineral Lease: UO 1194 ST

NBU 921-25O4BS
Surface: 1,156’ FSL 2,595’ FWL (SE/4SW/4)
BHL: 485’ FSL 1,741’ FEL (SW/4SE/4)
Mineral Lease: UO 4139 ST

Pad: NBU 921-25N
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.

'APIWellNo:43047512630000'

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:

Approximately ±290' (0.1 miles) of new road re-route 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 921-25NT, 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 ±1,210' and the individual segments are broken up as follows:

±250' (0.1 miles) –New 6" buried gas pipeline from the meter to the NBU 921-25J pad intersection.

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±490' (0.1 miles) –New 10" buried gas pipeline from the NBU 921-25J pad intersection to the edge of the pad.
±470' (0.1 miles) –New 10" buried gas pipeline from the edge of the pad to the existing 12' gas pipeline tie in point.

The total liquid gathering pipeline distance from the meter to the tie in point is ±1,590' and the individual segments are broken up as follows:

±250' (0.1 miles) –New 4" buried liquid pipeline from the meter to the NBU 921-25J pad intersection.
±490' (0.1 miles) –New 4" buried liquid pipeline from the NBU 921-25J pad intersection to the edge of the pad.
±430' (0.1 miles) –New 4" buried liquid pipeline from the edge of the pad to the NBU 921-25J2 pad intersection.
±420' (0.1 miles) –New 6" buried liquid pipeline from the NBU 921-25J2 pad intersection to the NBU 921-25K 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.

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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-294.

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
Danielle Piernot

August 13, 2010
Date

'APIWellNo:43047512630000'

'APIWellNo:43047512630000'

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

' A P I W e l l N o : 4 3 0 4 7 5 1 2 6 3 0 0 0 0 '

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 #294

Report Date: August 03, 2010

Operator: Kerr-McGee Oil & Gas Onshore LP

Well: NBU 921-25N well pad (Bores: NBU 921-25K4CS, NBU 921-25N2DS, NBU 921-25N3AS, & NBU 921-25O4BS)

Pipeline: Associated pipeline leading to proposed well pad

Access Road: Associated road 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 921-25N3AS
T9S-R21E
Section 25: SESW surface and bottom hole
Surface: 1158' FSL, 2575' FWL
Bottom Hole: 508' FSL, 1729' 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 921-25N3AS 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.

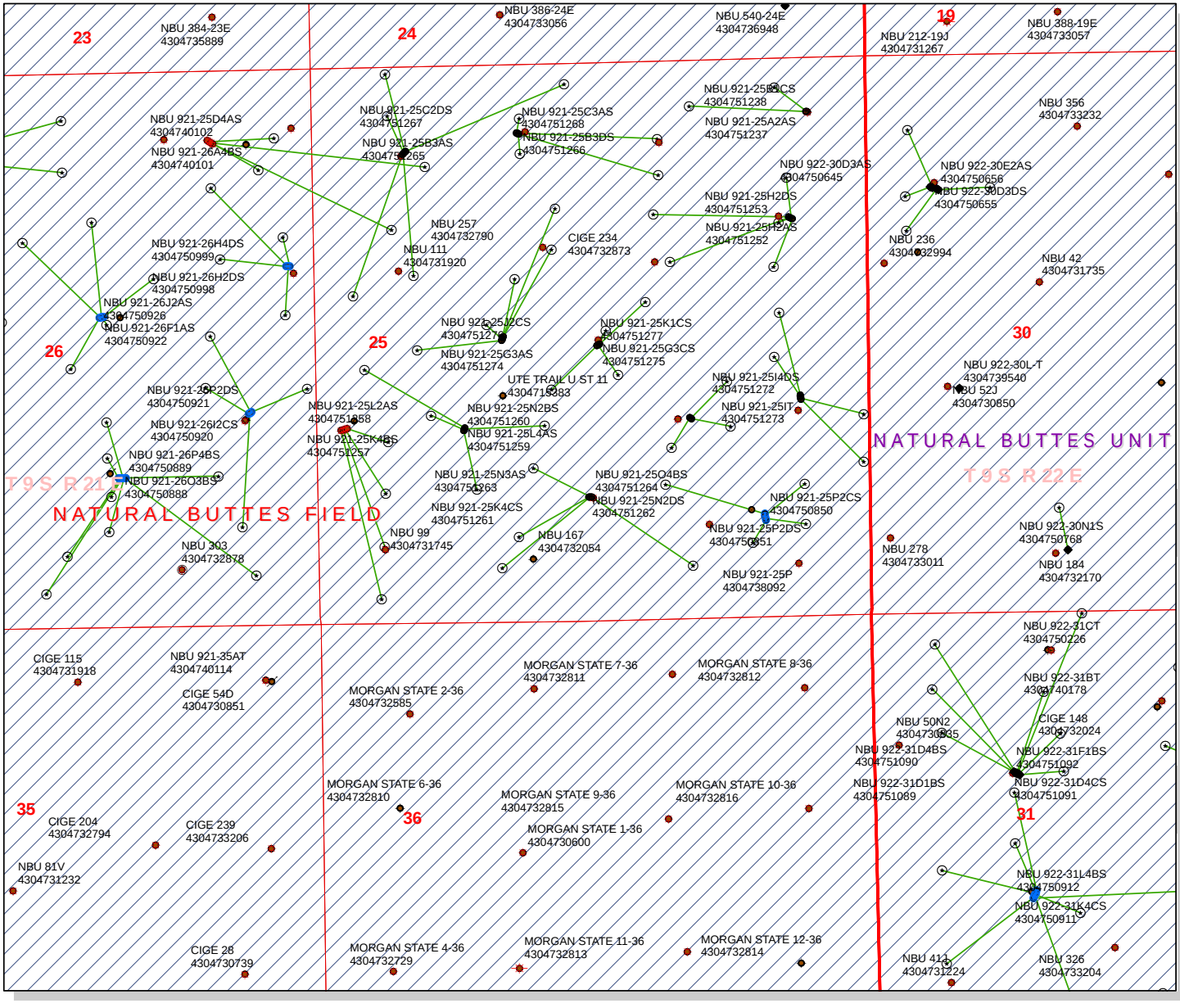
Sincerely,

KERR-MCGEE OIL & GAS ONSHORE LP

Joe Matney
Sr. Staff Landman

'API WellNo:43047512630000'

'APIWellNo:4304751263000'



API Number: 4304751263

Well Name: NBU 921-25N3AS

Township 09.0 S Range 21.0 E Section 25

Meridian: SLBM

Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
Map Produced by Diana Mason

Units

STATUS

- ACTIVE
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PI OIL
- PP GAS
- PP GEOTHERMAL
- PP OIL
- SECONDARY
- TERMINATED

Fields

- Sections
- Township
- Bottom Hole Location - AGRC

Wells Query

- <all other values>

Status

- APD - Aproved Permit
- DRL - Spuded (Drilling Commenced)
- GIW - Gas Injection
- GS - Gas Storage
- LA - Location Abandoned
- LOC - New Location
- OPS - Operation Suspended
- PA - Plugged Abandoned
- PGW - Producing Gas Well
- POW - Producing Oil Well
- RET - Returned APD
- SGW - Shut-in Gas Well
- SOW - Shut-in Oil Well
- TA - Temp. Abandoned
- TW - Test Well
- WDW - Water Disposal
- WIW - Water Injection Well
- WSW - Water Supply Well

N

1,200 600 0 1,200 Feet

1:11,570

'APIWellNo:43047512630000'

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

'APIWellNo:43047512630000'

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

'APIWellNo:43047512630000'

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

BOPE REVIEW KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25N3AS 43047512630000

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 921-25N3AS 430475126			
String	Surf	Prod		
Casing Size(")	8.625	4.500		
Setting Depth (TVD)	2310	9563		
Previous Shoe Setting Depth (TVD)	40	2310		
Max Mud Weight (ppg)	8.3	12.4		
BOPE Proposed (psi)	500	5000		
Casing Internal Yield (psi)	3390	7780		
Operators Max Anticipated Pressure (psi)	6025	12.1		

Calculations	**Surf String**	**8.625**	**"**
Max BHP (psi)	.052*Setting Depth*MW=	1001	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	724	NO air drill
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	493	YES OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	502	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2310	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=	6166	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=	5018	NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=	4062	YES OK
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure At Previous Shoe	Max BHP-.22*(Setting Depth - Previous Shoe Depth)=	4570	NO Reasonable
Required Casing/BOPE Test Pressure=		5000	psi
***Max Pressure Allowed @ Previous Casing Shoe=**		2310	psi *Assumes 1psi/ft frac gradient

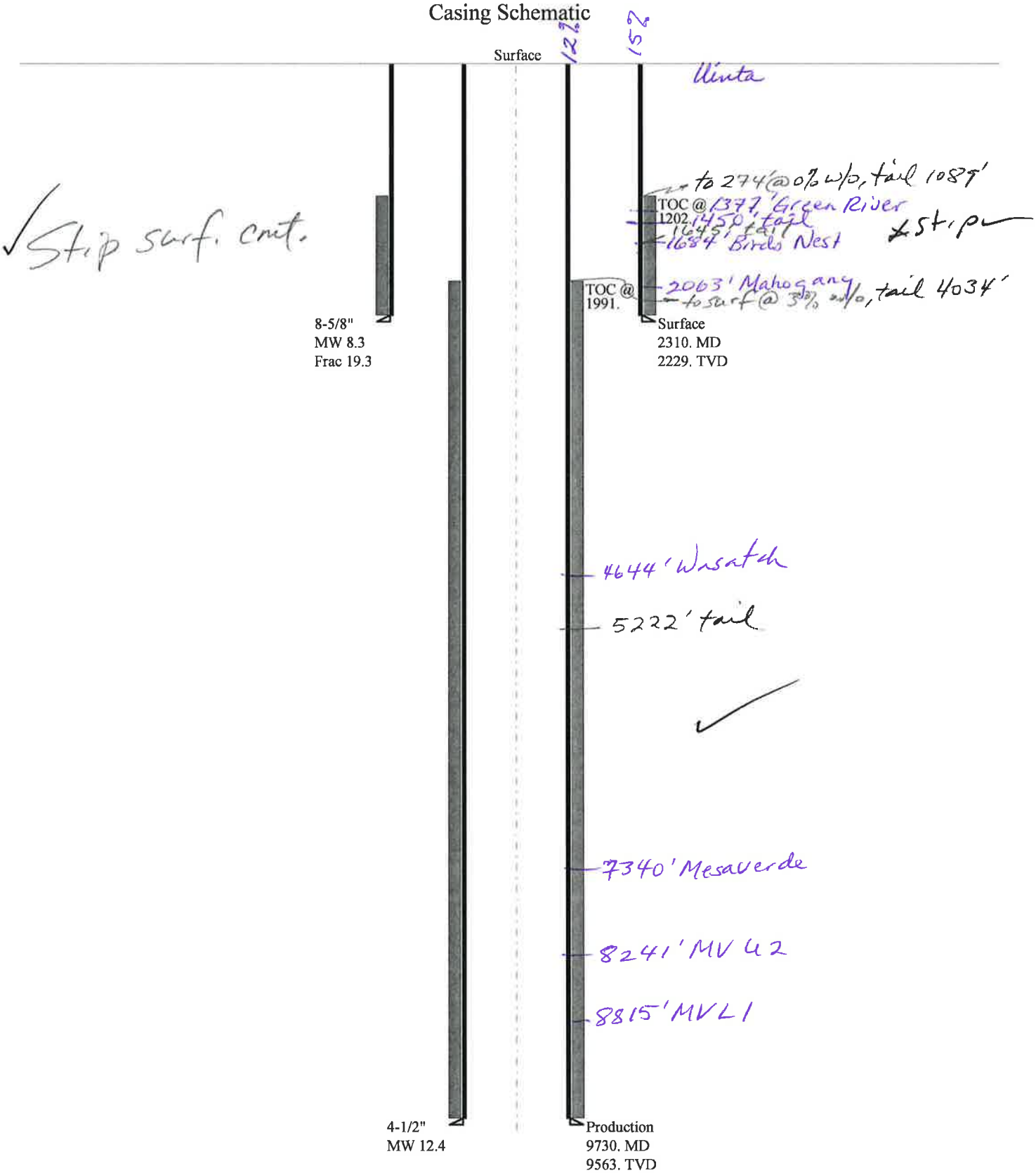
Calculations	**String**		**"**
Max BHP (psi)	.052*Setting Depth*MW=		
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	Max BHP-(0.12*Setting Depth)=		NO
MASP (Gas/Mud) (psi)	Max BHP-(0.22*Setting Depth)=		NO
			***Can Full Expected Pressure Be Held At Previous Shoe?**
Pressure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

'APIWellNo:43047512630000'

43047512630000 NBU 921-25N3AS

Casing Schematic



'APIWellNo:43047512630000'

Well name:	**43047512630000 NBU 921-25N3AS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Surface
Project ID:	43-047-51263
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight: 8.330 ppg

Design is based on evacuated pipe.

Burst

Max anticipated surface pressure: 2,033 psi

Internal gradient: 0.120 psi/ft

Calculated BHP 2,300 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: 2,019 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	105 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	1,202 ft

Directional Info - Build & Drop

Kick-off point	300 ft
Departure at shoe:	518 ft
Maximum dogleg:	2 °/100ft
Inclination at shoe:	20 °

Re subsequent strings:

Next setting depth:	9,563 ft
Next mud weight:	12.400 ppg
Next setting BHP:	6,160 psi
Fracture mud wt:	19.250 ppg
Fracture depth:	2,310 ft
Injection pressure:	2,310 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	2310	8.625	28.00	I-55	LT&C	2229	2310	7.892	91476

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	965	1880	1.949	2300	3390	1.47	62.4	348	5.58 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940

Date: October 7,2010
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 2229 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

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43047512630000'

Well name:	**43047512630000 NBU 921-25N3AS**
Operator:	**KERR-MCGEE OIL & GAS ONSHORE, L.P.**
String type:	Production
Project ID:	43-047-51263
Location:	UINTAH COUNTY

Design parameters:

Collapse

Mud weight:	12.400 ppg
Internal fluid density:	2.330 ppg

Burst

Max anticipated surface pressure:	4,056 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,160 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: 7,957 ft

Environment:

H2S considered?	No
Surface temperature:	74 °F
Bottom hole temperature:	208 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	100 ft
Cement top:	1,991 ft

Directional Info - Build & Drop

Kick-off point	300 ft
Departure at shoe:	1065 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	9730	4.5	11.60	I-80	LT&C	9563	9730	3.875	128436

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	5002	6360	1.271	6160	7780	1.26	110.9	212	1.91 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Mining
Phone: 801 538-5357
FAX: 801-359-3940
Date: October 7,2010
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 9563 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

Engineering responsibility for use of this design will be that of the purchaser.

'APIWellNo:43047512630000'

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 -06'00'

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

MCoulthard:mc:8-17-10

ON-SITE PREDRILL EVALUATION
Utah Division of Oil, Gas and Mining

Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.				
Well Name	NBU 921-25N3AS				
API Number	43047512630000	**APD No**	2948	**Field/Unit**	NATURAL BUTTES
Location: 1/4,1/4	SESW **Sec** 25 **Tw** 9.0S **Rng** 21.0E 1158 FSL 2575 FWL				
GPS Coord (UTM)	628082 4428953	**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 42.4 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 921-25N pad will be created by enlarging the existing pad of the NBU 921-25NT gas well. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-25N2DS, 921-25N3AS, 921-25K4CS and 921-25O4BS. The existing pad will be extended in all directions. The site is oriented in a west to east direction on the north slope of a ridge which continues to the south to a ridge-top. The excess spoils from the pad will block some side-slope overland flow from the south. A shallow drainage on the north will be missed. The White River is approximately 3 1/2 miles down drainage. The selected site 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
Wildlfe Habitat
Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	**Width** 420 **Length** 455	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 a moderately deep rocky loam.

Erosion Issues N

Sedimentation Issues Y

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? Y

The excess spoils from the pad will block some side-slope overland flow from the south.

Paleo Survey Run? Y **Paleo Potental 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 100’ x 220’ 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?** **Liner Thickness** 30 **Pit Underlayment Required?** Y

Other Observations / Comments

Floyd Bartlett	8/26/2010
Evaluator	**Date / Time**

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
2948	43047512630000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		**Surface Owner-APD**		
Well Name	NBU 921-25N3AS		**Unit**	NATURAL BUTTES	
Field	NATURAL BUTTES		**Type of Work**	DRILL	
Location	SESW 25 9S 21E S 1158 FSL 2575 FWL GPS Coord (UTM) 628080E 4428956N				

Geologic Statement of Basis

Kerr McGee proposes to set 2,310' 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 1,450'. 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	9/28/2010
APD Evaluator	**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 42.4 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 921-25N pad will be created by enlarging the existing pad of the NBU 921-25NT gas well. Four gas wells, to be directionally drilled, will be added. They are the NBU 921-25N2DS, 921-25N3AS, 921-25K4CS and 921-25O4BS. The existing pad will be extended in all directions. The site is oriented in a west to east direction on the north slope of a ridge which continues to the south to a ridge-top. The excess spoils from the pad will block some side-slope overland flow from the south. A shallow drainage on the north will be missed. The White River is approximately 3 1/2 miles down drainage. The selected site 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. 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	8/26/2010
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Application for Permit to Drill
Statement of Basis

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:** 43047512630000
WELL NAME: NBU 921-25N3AS
OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P. (N2995) **PHONE NUMBER:** 720 929-6156
CONTACT: Danielle Piernot

PROPOSED LOCATION: SESW 25 090S 210E **Permit Tech Review:** ✔

SURFACE: 1158 FSL 2575 FWL **Engineering Review:** ✔

BOTTOM: 0508 FSL 1729 FWL **Geology Review:** ✔

COUNTY: UINTAH
LATITUDE: 40.00298 **LONGITUDE:** -109.49953
UTM SURF EASTINGS: 628080.00 **NORTHINGS:** 4428956.00
FIELD NAME: NATURAL BUTTES
LEASE TYPE: 3 - State
LEASE NUMBER: UO 1194 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**

Commingling Approved

LOCATION AND SITING:

- ☐ **R649-2-3.**

Unit: NATURAL BUTTES

- ☐ **R649-3-2. General**
- ☐ **R649-3-3. Exception**
- ✔ **Drilling Unit**

Board Cause No: Cause 173-14
Effective Date: 12/2/1999
Siting: Suspends General Siting

- ✔ **R649-3-11. Directional Drill**

Comments: Presite Completed

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

GARY R. HERBERT
Governor

GREGORY S. BELL
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

****

Well Name: NBU 921-25N3AS
API Well Number: 43047512630000
Lease Number: UO 1194 ST
Surface Owner: STATE
Approval Date: 10/13/2010

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

SUBMIT AS EMAIL | Print Form

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 921-25N3AS
Qtr/Qtr SESW Section 25 Township 9S Range 21E
Lease Serial Number UO 1194 ST
API Number 4304751263

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

01/04/2011 - Delay per operator

Date/Time ~~12/31/2010~~ 12:00 HRS AM ☐ PM ☐

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

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

RECEIVED
JAN 03 2011
DIV. OF OIL, GAS & MINING

Date/Time 01/26/2011 08:00 HRS AM ☐ PM ☐

BOPE

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

Date/Time _____ _____ AM ☐ PM ☐

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

Carol Daniels - RE: Conductor Spuds on the NBU 921-25N PAD

From: "Lytle, Andrew"
To: , "Carol Daniels" , "Rachel Medina"
Date: 1/3/2011 8:05 AM
Subject: RE: Conductor Spuds on the NBU 921-25N PAD
CC: "Beale, Ila" , "Noonan, Ashley" , "Gathings, Kenny"

All,

Correction. Spuds should be completed by late morning tomorrow.

Thanks,

Andy Lytle
Anadarko E&P Company, LP
Direct: 720-929-6100
Fax: 720-929-7100
andrew.lytle@anadarko.com

From: Lytle, Andrew
Sent: Monday, January 03, 2011 8:00 AM
To: 'ut_vn_opreport@blm.gov'; 'Carol Daniels'; Rachel Medina
Cc: Beale, Ila; Noonan, Ashley; Gathings, Kenny
Subject: FW: Conductor Spuds on the NBU 921-25N PAD

All,

Please see email below. This State pad was supposed to have spud late last week, however, due to rig problems will not spud until today. Spuds should finish up by late morning. We will submit actual spud paperwork upon completion of conductor spud.

Thanks,
Andy

Andy Lytle
Anadarko E&P Company, LP
Direct: 720-929-6100
Fax: 720-929-7100
andrew.lytle@anadarko.com

RECEIVED
JAN 03 2011
DIV. OF OIL, GAS & MINING

From: Gathings, Kenny
Sent: Monday, January 03, 2011 7:56 AM
To: Lytle, Andrew; Beale, Ila

Subject: Conductor Spuds on the NBU 921-25N PAD

All, we did not get started on the NBU 921-25N PAD last week due to problems with the rig. We will start that pad today and should have it completed by early morning at the latest. Below is a list of the wells on that pad

NBU 921-25O4BS / API #43-047-51264
NBU 921-25K4CS / API #43-047-51261
NBU 921-25N3AS / API #43-047-51263
NBU 921-25N2DS / API #43-047-51262

Kenneth Gathings
Drilling Foreman
Anadarko Petroleum Corporation
1368 South 1200 East
Vernal Utah 84078
Office 435-781-7048
Cell 435-790-4138
Fax 435-781-7019

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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
4304751264	NBU 921-25O4BS		SESW	25	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	1/4/2011			1/13/2011	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 01/04/2011 AT 9:00 HRS. BHL SWSE

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751261	NBU 921-25K4CS		SESW	25	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	1/3/2011			1/13/2011	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 01/03/2011 AT 9:00 HRS. BHL = NESW

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304751263	NBU 921-25N3AS		SESW	25	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	1/3/2011			1/13/2011	

Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD
SPUD WELL LOCATION ON 01/03/2011 AT 15:00 HRS. BHL = SESW

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)

ANDY LYTLE
Name (Please Print)

Signature

REGULATORY ANALYST
Title

1/7/2011
Date

RECEIVED
JAN 10 2011
DIV. OF OIL, GAS & MINING

(5/2000)

API Well No: 43047512630000

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 1194 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 921-25N3AS

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

9. API NUMBER: 43047512630000

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: 1158 FSL 2575 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 1/19/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

MIRU CAPSTAR 310 AIR RIG ON JANUARY 17, 2011. DRILLED 11" SURFACE HOLE TO 2610'. RAN 8 5/8" 28# IJ-55 SURFACE CSG. LEAD CEMENT W/ 200 SX CLASS G PREM @ 11.0 PPG, 3.82 YD. TAILED CEMENT W/ 225 SX CLASS G PREM LITE @ 15.8 PPG, 1.15 YD. DROP PLUG ON THE FLY, DISPLACED W/ 153 BBLS WATER. LOST RETURNS 135 BBLS INTO DISPLACEMENT. BUMP PLUG @ 530 PSI - FINAL LIFT 220 PSI. FLOATS HELD W/ 1 BBL BACK TO TRUCK. NO CEMENT TO SURFACE. PUMP 1" TOP OUT W/ 65 SX SAME CEMENT. CEMENT TO SURFACE. WORT.

Accepted by the Utah Division of Oil, Gas and Mining
FOR RECORD ONLY
01/20/2011

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 1/20/2011

RECEIVED January 20, 2011

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By PAT CAIN Phone Number 435-790-1884
Well Name/Number NBU 921-25N3AS
Qtr/Qtr SE/SW Section 25 Township 9S Range 21E
Lease Serial Number UO 1194 ST
API Number 43-047-51263

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

Date/Time _____ _____ AM ☐ PM ☐

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

☐ Surface Casing
☐ Intermediate Casing
☐ Production Casing
☐ Liner
☐ Other

RECEIVED
MAR 07 2011
DIV. OF OIL, GAS & MINING

Date/Time _ __ AM ☐ PM ☐

BOPE

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

Date/Time 3/5/2011 03:00 AM ☐ PM ☒

Remarks _____

BLM - Vernal Field Office - Notification Form

Operator KERR MCGEE Rig Name/# H&P 311
Submitted By PAT CAIN Phone Number 435- 790-1884
Well Name/Number NBU 921-25N3AS
Qtr/Qtr SE/SW Section 25 Township 9S Range 21E
Lease Serial Number UO 1194 ST
API Number 43-047-51263

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

Date/Time _____ _____ AM ☐ PM ☐

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

☐ Surface Casing
☐ Intermediate Casing
☒ Production Casing
☐ Liner
☐ Other

RECEIVED
MAR 1 4 2011
DIV. OF OIL, GAS & MINING

Date/Time 3/12/2011 1:00 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 _____

API Well No: 43047512630000

FORM 9

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

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 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 921-25N3AS

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

9. API NUMBER: 43047512630000

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: 1158 FSL 2575 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
✓ SUBSEQUENT REPORT Date of Work Completion: 3/13/2011	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ SPUD REPORT Date of Spud:	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DRILLING REPORT Report Date:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
	☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	✓ OTHER	OTHER: RIG REL. - ACTS PIT

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

FINISHED DRILLING FROM 2610' TO 9730' ON MARCH 11, 2011. RAN 4 ½" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 535 SX CLASS G ECONOCEM @ 12.7 PPG, 1.89 YD. TAILED CEMENT W/ 1120 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.25 YD. DISPLACED W/ 151 BBLS WATER TREATED W/ BIOCIDE & CLAY INHIBITOR. BUMPED PLUG @ 2564 PSI, PRESSURED UP CSG TO 3224 PSI & HELD FOR 5 MIN. RELEASED PRESSURE;FLOATS FLOWED PENCIL STREAM; REPRESSURED UP TO 3835 PSI & FLOATS DID'T HOLD. STILL A PENCIL STREAM, FLOWED BACK 2.00 BBLS. PRESSURE UP TO 3320 PSI & SHUT CEMENT HEAD IN. EST TOC TAIL @ 4200', LEAD @ 900'. HAD 100% RETURNS UNTIL THE LAST 25 BBLS - THEN HAD 25% RETURNS; LOST ALL RETURNS THE FINAL 18 BBLS. +/- 20 BBLS SPACER TO SURFACE. RD CEMENTERS AND CLEANED PITS. RELEASED H&P RIG #311 ON 3/13/11 @ 11:30 HRS.THE PIT ON THIS LOCATION WILL BE REFURBISHED AND UTILIZED AS PART OF THE ACTS SYSTEM.

Approved by the Utah Division of Oil, Gas and Mining

Date: 03/22/2011

By:

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Andy Lytle	720 929-6100	Regulatory Analyst
SIGNATURE N/A		**DATE** 3/14/2011

RECEIVED Mar. 14, 2011

The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047512630000

A synthetic liner with a minimum thickness of 30 mils with a felt subliner shall be properly installed and maintained in the pit.

RECEIVED Mar. 14, 2011

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER:
UO 1194 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 921-25N3AS

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

9. API NUMBER:
43047512630000

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:
1158 FSL 2575 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
Qtr/Qtr: SESW 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		
☐ NOTICE OF INTENT Approximate date work will start:	☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
	☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
	☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ SUBSEQUENT REPORT Date of Work Completion:	☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
	☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ SPUD REPORT Date of Spud:	✓ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
	☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
✓ DRILLING REPORT Report Date: 5/9/2011	☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
	☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON 05/09/2011 AT 1:45 PM. THE WELL CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

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

NAME (PLEASE PRINT)	PHONE NUMBER	TITLE
Sheila Wopsock	435 781-7024	Regulatory Analyst

SIGNATURE	DATE
N/A	5/10/2011

RECEIVED May. 10, 2011

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UTU63047A

8. WELL NAME and NUMBER: NBU 921-25N3AS

9. API NUMBER: 4304751263

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

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) 929-6100

4. LOCATION OF WELL (FOOTAGES)

BHL reviewed by HSM

AT SURFACE: SESW 1158 FSL 2575 FWL S25, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 523 FSL 1718 FWL S25, T9S, R21E

AT TOTAL DEPTH: SESW 498 FSL 1721 FWL S25, T9S, R21E

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

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 1/3/2011

15. DATE T.D. REACHED: 3/11/2011

16. DATE COMPLETED: 5/9/2011 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4955 GL

18. TOTAL DEPTH: MD 9,730 TVD 9,582

19. PLUG BACK T.D.: MD 9,674 TVD 9,526

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

ACBL-RMT-CHI TRIPLE COMBO

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#		40		28			
11"	8 5/8" IJ-55	28#		2,602		490		0	
7 7/8"	4 1/2" I-80	11.6#		9,716		1,655		970	

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"	9,041							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,458	7,460		
(B) MESAVERDE	7,524	9,514		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
7,458	7,460	0.36	6	Open ☑ Squeezed ☐
7,524	9,514	0.36	210	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7458 - 9514	PUMP 13,107 BBLS SLICK H2O & 284,220 LBS SAND

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

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
5/9/2011		5/30/2011		24			0	3,043	390	FLOWING
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:
22/64	1,070	1,357					0	3,043	390	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	1,418				
BIRD'S NEST	1,796				
MAHOGANY	2,129				
WASATCH	4,809	7,509			
MESAVERDE	7,509	9,730	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages.

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

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 6/6/2011

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

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DIV. OF OIL, GAS & MINING

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/17/2011	5:00 - 7:00	2.00	DRLPRO	01	E	P		RIG DOWN
	7:00 - 10:30	3.50	DRLPRO	01	C	P		SKID RIG TO NBU 921-25N3AS WELL 3/4
	10:30 - 12:30	2.00	DRLPRO	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	12:30 - 14:00	1.50	DRLPRO	09	A	P		SLIP AND CUT 75' DRILL LINE
	14:00 - 14:30	0.50	DRLPRO	06	A	P		PICK UP MUD MOTOR AND BIT
	14:30 - 16:30	2.00	DRLPRO	02	C	P		DRILL F/ 40' - 223' SPUD WELL
	16:30 - 18:30	2.00	DRLPRO	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS AND ORIENT MWD TO MUD MOTOR TIH
	18:30 - 0:00	5.50	DRLPRO	02	C	P		DRILL F/ 223' - 1048' AVE ROP 150' FT HR NO LOSSES WOB 18-22 ROT 45-65 DHR 96 GPM 600 LAST SURVEY 13.88 DEG 237.29 AZI
1/18/2011	0:00 - 1:00	1.00	DRLSUR	02	C	P		DRILL F/ 1048' - 1206' AVE ROP 158 FT HR WOB 18-22 ROT 55-65 DHR 96 GPM 600 OBP 1250 OFBP 975 NO LOSSES LAST SURVEY 14.63 DEG 236.66 AZI
	1:00 - 2:30	1.50	DRLSUR	08	B	Z		CHANGE OUT HYDRAULOC HOSE IN DERRICK
	2:30 - 3:00	0.50	DRLSUR	02	D	P		DRILL F/ 1206' - 1249' WOB 18-22 ROT 55-65 DHR 96 GPM 600 OBP 1250 OFBP 975 NO LOSSES LAST SURVEY 14.63 DEG 236.66 AZI
	3:00 - 4:00	1.00	DRLSUR	08	B	Z		TOOH TO 600' & CIRC.
	4:00 - 9:30	5.50	DRLSUR	08	B	Z		REPAIR HYDRAULIC STANDPIPE IN DERRICK
	9:30 - 10:00	0.50	DRLSUR	08	B	Z		TIH
	10:00 - 13:30	3.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1249'-1554' // ROP= 87 FPH // WOB=18-22K // SPP=1300/1050 // NO LOSSES // LAST SURVEY @1431'=16.56 DEG-234.16 AZ
	13:30 - 14:00	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	14:00 - 18:00	4.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1554'-1980' // ROP= 106 FPH // WOB=18-22K // SPP=1300/1050 // NO LOSSES // LAST SURVEY @1905'=18.38 DEG-236.29 AZ
	18:00 - 0:00	6.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1980'-2503' // ROP=87 FPH // WOB=18-22K // SPP=1300/1050 // SOME SEEPAGE 90-95% RETURNS// LAST SURVEY @2379'-17.0 DEG-234.04 AZ
1/19/2011	-		RDMO					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/19/2011 14:30 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,610 Total SURFACE hours: 24.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,585.0 # sx of cement: 200/225/65 Cement blend (ppg:) 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 135 BBL'S INTO DISP. Describe hole issues: NONE

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	0:00 - 1:30	1.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 2503'-2610' // ROP=71 FPH // WOB=18-22K // SPP=1300/1050 // SOME SEEPAGE 90-95% RETURNS// LAST SURVEY @ 2550= 16.85 DEG- 233.48 AZ // 87% ROTATE- 13% SLIDE
	1:30 - 2:00	0.50	DRLSUR	05	A	P		CIRC & COND HOLE FOR 8.625" CSG
	2:00 - 8:00	6.00	DRLSUR	06	A	P		LAY DN DRILL STRING & DIR. TOOLS
	8:00 - 11:30	3.50	CSG	12	C	P		PJSM // RUN 58 JT'S, 8.625", 28#, J-55, LT&C CSG // FLOAT SHOE SET @ 2585', BAFFLE @ 2538'
	11:30 - 12:00	0.50	CSG	05	A	P		CIRC 8.625" CSG @ 2585'
	12:00 - 14:00	2.00	CSG	12	E	P		PJSM // TEST LINES to 2500 psi // PUMP 25 BBL'S SPACER // LEAD= 200 SX CLASS G (YIELD=3.82 CUFT/SK, WT= 11.0 PPG) // TAIL=225 SX CLASS G +2% CACL2 +.25#/SK SUPERFLAKE (YIELD= 1.15 CUFT/SK, WT= 15.8 PPG) // DROP PLUG & DISPLACE W/ 153 BBL,S WATER (LOST RETURNS 135 BBL'S INTO DISP) // PLUG DN @ 13:40 1/19/2011 // BUMP PLUG @ 530 PSI // FINAL LIFT= 220 PSI // CHECK FLOATS- HELD W/ 1 BBL BACK TO TRUCK // NO CMT TO SURFACE
	14:00 - 14:30	0.50	CSG	14	A	P		CUT OFF CONDUCTOR & HANG 8-5/8" CSG
	14:30 - 15:00	0.50	CSG	12	E	P		PUMP 1" TOP OUT W/ 65 SX CLASS G +2% CACL2 +.25#/SK SUPERFLAKE (YIELD= 1.15 CUFT/SK, WT= 15.8 PPG) CMT TO SURFACE
	15:00 - 16:00	1.00	RDMO	01	E	P		RIG DN & PREP RIG TO SKID // RELEASE RIG @ 16:00 1/19/2011
3/5/2011	10:30 - 12:30	2.00	MIRU	01	C	P		SKIDDED RIG FROM NBU 921-25N2DS. VERIFIED THAT RIG WAS CENTERED OVER THE HOLE.
	12:30 - 14:30	2.00	PRPSPD	14	A	P		NU BOPE
	14:30 - 18:30	4.00	PRPSPD	15	A	P		TESTED BOPE. PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINE, & KILL LINE VALVES, BOP WING VALVES, HCR VALVE, CHOKE LINE INNER & OUTER CHOKE VALVES, & MANIFOLD 250 PSI LOW/ 5 MINUTES, 5K HIGH FOR 10 MINUTES, TEST ANNULAR 250 LOW/5 MINUTES, 2500 HIGH/10 MINUTES, TEST SUPER CHOKE. FUNCTION TEST CLOSING UNIT.
	18:30 - 19:00	0.50	PRPSPD	15	A	P		TESTED SURFACE CASING TO 1500 PSI FOR 30 MINUTES.
	19:00 - 19:30	0.50	PRPSPD	14	B	P		INSTALLED NEW 8" WEAR BUSHING.
	19:30 - 21:00	1.50	DRLPRO	06	A	P		MADE UP HUGHES Q506F, SERIAL #7128320 WITH 6-15S ON TO A SDI .23 REV/GAL, 1.5 DEGREE BEND, 7:8 LOBE, 5.0, 6.5" MUD MOTOR. PICKED UP/MADE UP DIRECTIONAL TOOLS, INSTALLED AND TESTED E-FIELD TOOL, SCRIBED MUD MOTOR.
	21:00 - 22:00	1.00	DRLPRO	06	A	P		TRIPPED IN THE HOLE.
	22:00 - 23:00	1.00	DRLPRO	02	F	P		TAGGED CEMENT AT 2485'. WASHED THRU AND TAGGED BAFFLE PLATE AT 2547'. DRILLED SHOE TRACK AND SHOE.
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILLED 2626'-2735', 109' IN 1 HOUR, 109 FPH.

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/6/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 2735'-3270', 535' IN 6 HRS, 89.2 FPH. MADE 14 SLIDES OR AT LEAST 1 SLIDE EVERY STD. SLIDE A TOTAL OF 199' IN 1.75 HRS. WOB WAS 18-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1500/1200 PSI. ON/OFF BOTTOM TORQUE WAS 4/4K. PU/SO/ROT WAS 114/91/100. CIRCULATING THE RESERVE PIT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 3270'-4434', 1164' IN 11.5 HRS, 101.2 FPH. MADE 14 SLIDES OR AT LEAST 1 SLIDE EVERY STD. SLIDE A TOTAL OF 190' IN 2.75 HRS. WOB WAS 18-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1950/1450 PSI. ON/OFF BOTTOM TORQUE WAS 10/5K. PU/SO/ROT WAS 140/110/122. CIRCULATING THE RESERVE PIT.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 4434'-5189', 755' IN 6 HRS, 125.8 FPH. MADE 3 SLIDES. SLIDE A TOTAL OF 60' IN 0.75 HRS. WOB WAS 18-22K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2130/1580 PSI. ON/OFF BOTTOM TORQUE WAS 10/5K. PU/SO/ROT WAS 168/108/133. CIRCULATING THE RESERVE PIT.
3/7/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 5189'-5944', 755' IN 6 HRS, 125.8 FPH. MADE 2 SLIDES. SLIDE A TOTAL OF 18' IN 0.25 HRS. WOB WAS 18-22K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2170/1620 PSI. ON/OFF BOTTOM TORQUE WAS 10/8K. PU/SO/ROT WAS 178/118/143. CIRCULATING THE RESERVE PIT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 5944'-6983', 1039' IN 11.5 HRS, 90.3 FPH. MADE 2 SLIDES. SLIDE A TOTAL OF 32' IN 1.25 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2300/1700 PSI. ON/OFF BOTTOM TORQUE WAS 12/10K. PU/SO/ROT WAS 200/125/157. 9.7 PPG, 34 VIS WITH 0% LCM.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.

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DIV. OF OIL, GAS & MINING

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 6983'-7390', 407' IN 6 HRS, 67.8 FPH. MADE 1 SLIDES. SLIDE A TOTAL OF 18' IN 1.0 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2030/1730 PSI. ON/OFF BOTTOM TORQUE WAS 11/10K. PU/SO/ROT WAS 208/135/195. 10.1 PPG, 34 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
3/8/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 7390'-7643', 253' IN 6 HRS, 42.2 FPH. MADE 1 SLIDE. SLIDE A TOTAL OF 6' IN 0.5 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2080/1790 PSI. ON/OFF BOTTOM TORQUE WAS 11/10K. PU/SO/ROT WAS 212/135/197. 10.4 PPG, 34 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
	6:00 - 14:30	8.50	DRLPRO	02	D	P		DRILLED 7643'-8017', 374' IN 8.5 HRS, 44 FPH. MADE 1 SLIDE. SLIDE A TOTAL OF 20' IN 1.5 HRS. WOB WAS 18-23K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1600 PSI. ON/OFF BOTTOM TORQUE WAS 10/10K. PU/SO/ROT WAS 230/135/169. 11.0 PPG, 36 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
	14:30 - 15:00	0.50	DRLPRO	05	B	P		LOST RETURNS, PUMPED LCM SWEEP AND ADDED 5% LCM TO MUD SYSTEM. LOST 100 BBLS.
	15:00 - 17:30	2.50	DRLPRO	02	D	P		DRILLED 8017'-8115', 98' IN 2.5 HRS, 39.2 FPH. 100% ROTATING. WOB WAS 18-23K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1600 PSI. ON/OFF BOTTOM TORQUE WAS 10/10K. PU/SO/ROT WAS 230/135/169. 11.0 PPG, 36 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 8115'-8335', 220' IN 6 HRS, 36.6 FPH. MADE ONE BRUTAL SLIDE OF 25' IN 2.5 HRS. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2325/1825 PSI. ON/OFF BOTTOM TORQUE WAS 11/11K. PU/SO/ROT WAS 230/145/175. 11.2 PPG, 36 VIS WITH 5% LCM. SEEMS TO BE HOLDING.

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/9/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 8335'-8618', 283' IN 6 HRS, 47.2 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2100/1850 PSI. ON/OFF BOTTOM TORQUE WAS 12/11K. PU/SO/ROT WAS 235/145/175. 11.5 PPG, 39 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	6:00 - 13:00	7.00	DRLPRO	02	D	P		DRILLED 8618'-8908', 290' IN 7 HRS, 41.4 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2200/1900 PSI. ON/OFF BOTTOM TORQUE WAS 14/12K. PU/SO/ROT WAS 255/142/180. 11.7 PPG, 41 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	13:00 - 14:00	1.00	DRLPRO	05	C	P		CIRCULATED BOTTOMS UP, NO GAS. 11.8 PPG IN AND 11.7 PPG OUT, 41 VIS WITH 5% LCM.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE WHILE WE FLOW CHECKED WELL, NO FLOW.
	14:30 - 20:00	5.50	DRLPRO	06	A	P		STRAIGHT PULLED 3 STDS OFF BOTTOM WITH +/- 20,000 LBS OVERPULL. PUMPED SLUG AND BLEW DOWN TOPDRIVE. TRIPPED OUT OF THE HOLE, SAW A LITTLE OVERPULL AT 6850'. FLOW CHECKED WELL AT SHOE, NO FLOW.
	20:00 - 22:00	2.00	DRLPRO	06	A	P		LAID DOWN DIRECTIONAL TOOLS, BROKE BIT OFF AND LAID DOWN MUD MOTOR.
	22:00 - 22:30	0.50	DRLPRO	06	A	P		RIGGED UP PLUMB, DRAINED STACKED AND CHECKED ALIGNMENT OF RIG, GOOD, WILL NOT HAVE TO SKID.
	22:30 - 23:30	1.00	DRLPRO	06	A	P		MADE UP HUGHES Q506F SERIAL #7131035, W/6-16S WITH SDI .14 REV/GAL STRAIGHT MUD MOTOR AND NMDC.
	23:30 - 0:00	0.50	DRLPRO	06	A	P		TRIPPED IN THE HOLE.
3/10/2011	0:00 - 4:30	4.50	DRLPRO	06	A	P		CONTINUED TO TRIP IN THE HOLE.
	4:30 - 17:30	13.00	DRLPRO	02	D	P		DRILL 8908'-9420', 512' IN 13 HRS, 39.4 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2950/2650 PSI. ON/OFF BOTTOM TORQUE WAS 14/8K. PU/SO/ROT WAS 245/140/184. 12.2 PPG IN/12.1 PPG OUT, 41 VIS WITH 12% LCM. SLOWLY BRING UP LCM CONTENT DUE TO CONSTANT SEEPING, PUMPING LCM SWEEPS. LOST +/- 120 BBLS.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 9420'-9580', 160' IN 6 HRS, 26.7 FPH. WOB WAS 22-26K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2950/2650 PSI. ON/OFF BOTTOM TORQUE WAS 12/12K. PU/SO/ROT WAS 253/186/150. 12.3 PPG IN/12.2 PPG OUT, 41 VIS WITH 12% LCM. HOLDING STEADY AT 13% LCM, LOST 25 BBLS.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/11/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 9580'-9730', 150' IN 6 HRS, 25 FPH. 100% ROTATING. WOB WAS 22-26K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 3000/2700 PSI. ON/OFF BOTTOM TORQUE WAS 12/12K. PU/SO/ROT WAS 255/188/155. 12.3 PPG IN/12.2 PPG OUT, 41 VIS WITH 12% LCM. HOLDING STEADY AT 12% LCM, LOST 20 BBLS.
	6:00 - 7:30	1.50	DRLPRO	05	C	P		CIRC/COND FOR WIPER TRIP. FINAL MW WAS 12.3 PPG, 41 VIS WITH 12% LCM.
	7:30 - 8:00	0.50	DRLPRO	05	J	P		FLOW CHECK WELL, NO FLOW.
	8:00 - 13:30	5.50	DRLPRO	06	E	P		PUMPED SLUG AND BLEW DOWN TOPDRIVE. STRAIGHT PULLED OFF BOTTOM, NO OVERPULL OR TIGHT SPOTS, TRIPPED OUT TO THE SHOE, FLOW CHECKED. TIH TO 4500'.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 14:30	0.50	DRLPRO	08	A	P		DOWN TIME, ST-80 REPAIR.
	14:30 - 17:00	2.50	DRLPRO	06	E	P		CONTINUED TO TIH, WASHED AND REAMED LAST 2 STDS TO BOTTOM, NO FILL.
	17:00 - 18:30	1.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP, NO GAS, NO FLARE. 12.3 PPG, 41 VIS WITH 10% LCM.
	18:30 - 19:00	0.50	DRLPRO	10	B	P		FLOW CHECKED WHILE WE DROPPED A SURVEY.
	19:00 - 0:00	5.00	DRLPRO	06	D	P		PUMPED SLUG, BLEW DOWN TOPDRIVE AND STARTED LAYING DOWN DRILLPIPE. NO TITE SPOTS OR OVERPULLS.
3/12/2011	0:00 - 6:00	6.00	DRLPRO	06	A	P		CONTINUED LDDP. SHAKING OUT THE LCM OUT OF THE MUD IN THE TANKS. STOPPED AT THE SURFACE CASING SHOE AND CIRCULATED HOLE CLEAN OF LCM. RETRIEVED SURVEY TOOL, LD MUD MOTOR AND BROKE BIT OFF.
	6:00 - 7:30	1.50	DRLPRO	06	A	P		PULLED WEAR BUSHING AND INSTALLED LOGGING ADAPTER IN ROTATING HEAD.
	7:30 - 8:00	0.50	DRLPRO	21	E	Z		WAITED ON HALLIBURTON LOGGING, BAD DIRECTIONS.
	8:00 - 13:30	5.50	DRLPRO	11	E	P		RIGGED UP HALLIBURTON, AND SST LUBRICATOR. RAN FAST CAST CASING EVALUATION LOG FROM THE BASE OF THE SURFACE CASING TO SURFACE. RIGGED UP PRESSURE PUMP TO THE LUBRICATOR AND TRIED TO PRESSURE UP LUBRICATOR/WELL WHEN THE LOGS WERE AT 200'. COULD NOT PRESSURE UP SO JUST KEPT PUMPING FLUID WHILE LOGGING, RECORDED GOOD DATA WHILE PUMPING.
	13:30 - 15:30	2.00	CSG	12	A	P		RIGGED UP CASING CREW AND EQUIPMENT. CHANGED OUT BALES AND ELEVATORS.
	15:30 - 0:00	8.50	CSG	12	C	P		PICKED UP SHOE TRACK WITH SHOE WELDED ON AND CENTRALIZER ALREADY INSTALLED, MADE UP FLOAT COLLAR WITH THREAD LOCK. STARTED RUNNING 4.5", BTC, 11.6#, I80, R3 PRODUCTION CASING. WE ARE APPLING BESTOLIFE 2000 ARTIC GRADE PIPE DOPE TO BOTH THE BOX AND USING A MOUSTACHE BRUSH TO APPLY IT TO THE PIN END. WE ARE MAKING UP EACH CONNECTION TO THE MIDDLE OF THE "DIAMOND". CURRENTLY AT 8150'. FILLED AND CIRCULATE CASING AT 2590', 4300' AND 7255'.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/13/2011	0:00 - 1:00	1.00	CSG	12	C	P		PICKED UP SHOE TRACK WITH SHOE WELDED ON AND CENTRALIZER ALREADY INSTALLED, MADE UP FLOAT COLLAR WITH THREAD LOCK. STARTED RUNNING 4.5", BTC, 11.6#, I80, R3 PRODUCTION CASING. WE ARE APPLING BESTOLIFE 2000 ARTIC GRADE PIPE DOPE TO BOTH THE BOX AND USING A MOUSTACHE BRUSH TO APPLY IT TO THE PIN END. WE ARE MAKING UP EACH CONNECTION TO THE MIDDLE OF THE "DIAMOND". CURRENTLY AT 8150'. FILLED AND CIRCULATE CASING AT 2590', 4300' AND 7255'. RAN 232 JTS, SET CASING AT 9716' WITH FLOAT COLLAR AT 9676', SET MARKER JTS AT 7442' AND 4854'.
	1:00 - 3:30	1.50	CSG	05	D	P		FILLED PIPE AND STARTED CIRCULATING WELL. RD CASING CREW AND EQUIPMENT, RIGGING UP CEMENTERS. CIRCULATING WITH FULL RETURNS AT 360 GPM (8 BPM) AT 1040 PSI. NEVER SAW ANY BOTTOMS UP GAS, MW IS 12.3 PPG, 41 VIS WITH 0% LCM (SHOOK OUT).
	3:30 - 6:30	3.00	CSG	12	E	P		PRESSURE TESTED LINES TO 5000 PSI. PUMPED 40 BBLS OF H20 SPACER AHEAD, PUMPED 180 BBLS (535 SX OF 12.7#, 1.89 CFT/SX, 9.68 GAL/SK) LEAD ECONO CEMENT. PUMPED 249 BBLS (1120 SX OF 14.3#, 1.25 YD, 5.41 GAL/SK) POZ PREMIUM 50/50 TAIL CEMENT. SHUT DOWN AND WASHED LINES, DROP 4.5" TOP PLUG, PUMP 151 BBLS OF H20 TREATED WITH BIOCIDE AND CLAY INHIBITOR. BUMPED PLUG AT 2564 PSI, PRESSURED UP CSG TO 3224 PSI AND HELD FOR 5 MIN. RELEASED PRESSURE AND FLOATS FLOWED A PENCIL STREAM SO REPRESSURED UP ON CASING TO 3835 PSI AND CHECKED FLOATS AGAIN, FLOATS DID NOT HOLD, STILL FLOWING A PENCIL STREAM, FLOWED BACK 2.00 BBLS. PRESSURE CASING UP TO 3320 PSI AND SHUT CEMENT HEAD IN. EST TOC TAIL @ 4200', LEAD @ 900'. HAD 100% RETURNS UNTIL THE LAST 25 BBLS THEN HAD 25% RETURNS AND LOST ALL RETURNS THE FINAL 18 BBLS. HAD +/- 20 BBLS SPACER WATER BACK TO SURFACE.
	6:30 - 9:00	2.50	CSG	13	A	P		WAIT ON CEMENT, RIGGING DOWN CEMENTERS, CLEANING PITS, PREPARING TO SKID. CHECKED FLOATS, HELD.
	9:00 - 11:30	2.50	CSG	14	A	P		ND BOPE, PICK UP BOP STACK AND SET C22 SLIPS WITH 135K. CUT OFF CASING AND LD JOINT. RELEASED RIG AT 1130 HRS ON SUNDAY MARCH 13TH.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 11:30	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/19/2011 14:30 SURFACE HOLE: 11 Surface From depth: 40 Surface To depth: 2,610 Total SURFACE hours: 24.00 Surface Casing size: 8.625" # of casing joints ran: 58 Casing set MD: 2,585.0 # sx of cement: 225/200/65 Cement blend (ppg:) 15.8/15.8/11.8 Cement yield (ft3/sk): 1.15/1.15/3.82 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 135 BBL INTO DISPLACEMENT Describe hole issues: NONE PRODUCTION: Rig Move/Skid start date/time: 3/5/2011 10:30 Rig Move/Skid finish date/time: 3/5/2011 11:30 Total MOVE hours: 1.0 Prod Rig Spud date/time: 3/5/2011 22:00 Rig Release date/time: 3/13/2011 11:30 Total SPUD to RR hours: 181.5 Planned depth MD 9,746 Planned depth TVD 9,579 Actual MD: 9,730 Actual TVD: 9,582 Open Wells $: AFE $: Open wells $/ft: PRODUCTION HOLE: 7.875 Prod. From depth: 2,626 Prod. To depth: 9,730 Total PROD hours: 109 Log Depth: N/A Production Casing size: 4 1/2 # of casing joints ran: 232 Casing set MD: 9,716.0 # sx of cement: 535 LEAD, 1120 TAIL Cement blend (ppg:) 12.7/14.3 Cement yield (ft3/sk): 1.89/1.25 Est. TOC (Lead & Tail) or 2 Stage : LEAD 900', TAIL 4200' Describe cement issues: FLOATS DID NOT HOLD, WAITED ON CEMENT 2.5 HRS. Describe hole issues: NONE DIRECTIONAL INFO: KOP: 199' Max angle: 19.03@3245' Departure: 1080.35@9518' Max dogleg MD: 4.51@3245'

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1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25N3AS YELLOW		
Common Name	NBU 921-25N3AS		
Well Name	NBU 921-25N3AS	**Wellbore No.**	OH
Report No.	1	**Report Date**	4/25/2011
Project	UTAH-UINTAH	**Site**	NBU 921-25N PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	4/25/2011	**End Date**	5/9/2011
Spud Date	1/17/2011	**Active Datum**	RKB @4,980.00ft (above Mean Sea Level)
UWI	SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0		

1.3 General

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

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	7,458.0 (ft)-9,514.0 (ft)	**Start Date/Time**	4/25/2011 12:00AM
No. of Intervals	38	**End Date/Time**	4/25/2011 12:00AM
Total Shots	216	**Net Perforation Interval**	66.00 (ft)
Avg Shot Density	3.27 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	WASATCH/			7,458.0	7,460.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	MESAVERDE/			7,524.0	7,526.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,570.0	7,572.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,592.0	7,594.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,668.0	7,670.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,734.0	7,736.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,760.0	7,762.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,852.0	7,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,904.0	7,906.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,938.0	7,940.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,976.0	7,978.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,081.0	8,082.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,099.0	8,101.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,158.0	8,159.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,188.0	8,190.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,203.0	8,204.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,382.0	8,383.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,402.0	8,403.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,435.0	8,437.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,454.0	8,456.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,477.0	8,478.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,523.0	8,524.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	MESAVERDE/			8,548.0	8,550.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,598.0	8,600.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,672.0	8,674.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,806.0	8,808.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,884.0	8,886.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,918.0	8,920.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,994.0	8,996.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,084.0	9,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,118.0	9,120.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,182.0	9,184.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,205.0	9,207.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,370.0	9,371.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,448.0	9,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,468.0	9,469.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,494.0	9,496.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,513.0	9,514.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

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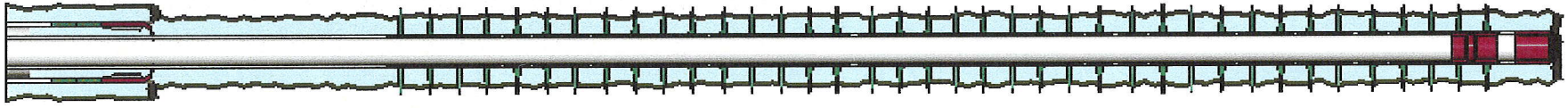
3.1 Wellbore Schematic



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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/21/2011	7:00 - 18:00	11.00	COMP	33	C	P		PSI TEST CSG & BOTH FRAC VALVE T/ 1000 PSI FOR 15 MIN. LOST 00 PSI. PSI TEST T/ 3500 PSI FOR 15 MIN. LOST 00 PSI. PSI TEST T/ 7000 PSI FOR 30 MIN. LOST 00 PSI.
4/25/2011	7:00 - 18:00	11.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF AS PER STG 2 PERF DESIGN. FRAC STG 1)WHP 1441 PSI, BRK 2987 PSI @ 4.8 BPM. ISIP 2724 PSI, FG .73. PUMP 100 BBLS @ 52.2 BPM @ 6330 PSI = 86% HOLES OPEN. ISIP 2989 PSI, FG .76, NPI 265 PSI. MP 6684 PSI, MR 52.1 BPM, AP 5690 PSI, AR 48.1 BPM, PMP 1057 BBLS SW & 12,612 LBS OF 30/50 SND & 5412 LBS OF 20/40 SLC SND. TOTAL PROP 18,024 LBS. SWI, X-OVER FOR WL. PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9257' P/U PERF AS PER STG 2 DESIGN.

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/26/2011	8:00 - 18:00	10.00	COMP	36	B	P		FRAC STG 2)WHP 2043 PSI, BRK 3461 PSI @ 4.2 BPM. ISIP 2715 PSI, FG .74. PUMP 100 BBLS @ 48.9 BPM @ 6120 PSI = 81% HOLES OPEN. ISIP 2838 PSI, FG .75, NPI 123 PSI. MP 6670 PSI, MR 49.7 BPM, AP 5325 PSI, AR 47.7 BPM, PMP 809 BBLS SW & 7963 LBS OF 30/50 SND & 2298 LBS OF 20/40 SLC SND. TOTAL PROP 10,261 LBS. WHILE PUMPING RESIN, MIDDLE SCREW ON BLENDER SHUT DOWN BY ITSELF. ONLY GOT 2298 # RESIN IN FORMATIONS. SWI, X-OVER FOR WL. 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 @ 9026' P/U PERF AS PER STG 3 PERF DESIGN. POOH. FRAC STG 3)BEFORE PUMPING THIS STG, HOOK UP PUMP 6. (DOWN FOR 41 MIN. HOOK UP PUMP & REPLACE GROUND VALVE.) WHP 1766 PSI, BRK 2470 PSI @ 4.3 BPM. ISIP 2062 PSI, FG .67. PUMP 100 BBLS @ 49.7 BPM @ 5523 PSI = 81% HOLES OPEN. ISIP 2601 PSI, FG .73, NPI 539 PSI. MP 6631 PSI, MR 52 BPM, AP 4925 PSI, AR 50.2 BPM, PMP 2715 BBLS SW & 54,341 LBS OF 30/50 SND & 4552 LBS OF 20/40 SLC SND. TOTAL PROP 58,893 LBS. SWI, X-OVER FOR WL. PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8724' P/U PERF AS PER STG 4 PERF DESIGN. POOH, SWIFN.
4/27/2011	6:30 - 6:45	0.25	COMP	48		P		HSM, HIGH PSI LINES & WL SAFETY

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		FRAC STG 4)WHP 1635 PSI, BRK 2525 PSI @ 4.6 BPM. ISIP 1986 PSI, FG .67. PUMP 100 BBLS @ 44.3 BPM @ 5472 PSI = 67% HOLES OPEN. ISIP 2446 PSI, FG .72, NPI 460 PSI. MP 6522 PSI, MR 51.8 BPM, AP 5317 PSI, AR 50.2 BPM, PMP 933 BBLS SW & 13,723 LBS OF 30/50 SND & 5035 LBS OF 20/40 SLC SND. TOTAL PROP 18,758 LBS. SWI, X-OVER FOR WL. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8508', PERF AS PERF STG 5 PERF DESIGN. POOH. FRAC STG 5)WHP 1860 PSI, BRK 2483 PSI @ 4.3 BPM. ISIP 2040 PSI, FG .00. PUMP 100 BBLS @ 50.8 BPM @ 5683 PSI = 80% HOLES OPEN. PUMPED 1810 LBS OF SAND. HAD TO SHUT DOWN BECAUSE GROUND VALVES ON 25K4CS WELL WERE LEAKING. SHUT DOWN FOR 2 HRS TO GREASE & CHANGE OUT GROUND VALVE. (START THIS STG OVER.) STARTED PUMPING AGAIN, GROUND VALVE ATARED LEAKING OUT OF GREASE ZERT ON VALVE. CHANGE OUT GREASE ZERT. ISIP 2513 PSI, FG .74, NPI 373 PSI. MP 6590 PSI, MR 49.1 BPM, AP 6315 PSI, AR 47.1 BPM, PMP 799 BBLS SW & 9205 LBS OF 30/50 SND & 5326 LBS OF 20/40 SLC SND. TOTAL PROP 14,531 LBS. SWI, X-OVER WL ((THE WHITE SAND TOTAL INCLUDE THE 1810 LBS WE PUMPED BEFORE WE SHUT DOWN THE 1ST TIME.)) PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG. RIH SET CBP @ 8254'. PERF AS PER STG 6 PERF DESIGN. POOH. FRAC STG 6)WHP 1568 PSI, BRK 2298 PSI @ 2.7 BPM. ISIP 1813 PSI, FG .66. PUMP 100 BBLS @ 48 BPM @ 5456 PSI = 72% HOLES OPEN. ISIP 2609 PSI, FG .76, NPI 796 PSI. MP 5895 PSI, MR 51.6 BPM, AP 4808 PSI, AR 50.6 BPM, PMP 902 BBLS SW & 12,927 LBS OF 30/50 SND & 5062 LBS OF 20/40 SLC SND. TOTAL PROP 17,989 LBS. SWI. X-OVER FOR WL. PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8028'. PERF AS PER STG 7 PERF DESIGN. POOH.
4/28/2011	6:30 - 6:45	0.25	COMP	48		P		HSM. STAND CLEAR OF POP-OFFS WHILE PUMPING. DONT WALK UNDER WL.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		FRAC STG 7)WHP 1370 PSI, BRK 2865 PSI @ 4.0 BPM. ISIP 1851 PSI, FG .67. PUMP 100 BBLS @ 51.4 BPM @ 5740 PSI = 74% HOLES OPEN. ISIP 2600 PSI, FG .77, NPI 749 PSI. MP 6702 PSI, MR 52 BPM, AP 4682 PSI, AR 51.4 BPM, PMP 1816 BBLS SW & 28,422 LBS OF 30/50 SND & 5801 LBS OF 20/40 SLC SND. TOTAL PROP 34,223 LBS. SWI, X-OVER FOR WL. PERF 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 @ 7802'. PERF AS PER STG 8 PERF DESIGN. POOH. FRAC STG 8)WHP 1082 PSI, BRK 1810 PSI @ 3.6 BPM. ISIP 1370 PSI, FG .62. PUMP 100 BBLS @ 49.7 BPM @ 5070 PSI = 73% HOLES OPEN. ISIP 2073 PSI, FG .71, NPI 703 PSI. MP 6368 PSI, MR 50.2 BPM, AP 4769 PSI, AR 49.5 BPM, PMP 2099 BBLS SW & 38,495 LBS OF 30/50 SND & 4937 LBS OF 20/40 SLC SND. TOTAL PROP 43,432 LBS. SWI, X-OVER FOR WL. PERF 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 @ 7624'. PERF AS PER STG 9 PERF DESIGN. POOH. FRAC STG 9)WHP 1308 PSI, BRK 1950 PSI @ 4.4 BPM. ISIP 1605 PSI, FG .65. PUMP 100 BBLS @ 49.7 BPM @ 4604 PSI = 86% HOLES OPEN. ISIP 2325 PSI, FG .75, NPI 720 PSI. MP 4804 PSI, MR 49.6 BPM, AP 4222 PSI, AR 49.2 BPM, PMP 1973 BBLS SW & 57,832 LBS OF 30/50 SND & 10,277 LBS OF 20/40 SLC SND. TOTAL PROP 68,109 LBS. SWI, X-OVER FOR WL. PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7400'. POOH, SWI. DONE FRACING THIS WELL. TOTAL SAND = 284,220 LBS TOTAL CLFL = 13,107 BBLS TOTAL SCALE = 1071 GAL TOTAL BIO = 287 GAL
5/6/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, PICKING UP TBG OFF FLOAT
	7:30 - 15:00	7.50	COMP	31	I	P		TALLY & PU 37/8 BIT, POBS & 233 JTS 23/8 L-80 OFF FLOAT. EOT @ 7387' RU DRLG EQUIP, PREP NTO D/O 5/9/11. SWI SDFWE
5/9/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, DRILLING CBPS

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 14:00	6.50	COMP	44	C	P		BROKE CIRC CONVENTINAL, TEST BOPS TO 3,000# FOR 15 MIN LOST 0# PSI. RIH. C/O 5' SAND TAG 1ST PLUG @ 7400' DRL PLG IN 4 MIN 500# PSI INCREASE RIH. C/O 30' SAND TAG 2ND PLUG @ 7624' DRL PLG IN 5 MIN 400# PSI INCREASE RIH C/O 30' SAND TAG 3RD PLUG @ 7792' DRL PLG IN 5 MIN 200# PSI INCREASE RIH C/O 30' SAND TAG 4TH PLUG @ 8008' DRL PLG IN 5 MIN 400# PSI INCREASE RIH C/O 30' SAND TAG 5TH PLUG @ 8244' DRL PLG IN 5 MIN 500# PSI INCREASE RIH C/O 30' SAND TAG 6TH PLUG @ 8508' DRL PLG IN 6 MIN 500# PSI INCREASE RIH C/O 30' SAND TAG 7TH PLUG @ 8710' DRL PLG IN 6 MIN 500# PSI INCREASE. RIH C/O 60' SAND TAG 8TH PLUG @ 9026' DRL PLG IN 6 MIN 500# PSI INCREASE. RIH C/O 30' SAND TAG 9TH PLUG @ 9237' DRL PLG IN 6 MIN 600# PSI INCREASE. RIH C/O TO PBTD @ 9673' CIRC CLEAN, RACK OUT SWIVEL. L/D 19 JTS, LAND TBG ON 285 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL. TURN WELL OVER TO FB CREW. RIG DOWN. FINAL SICP = 2000 FTP = 100 KB = 25' HANGER 41/16 = .83' 285 JTS 23/8 L-80 = 9012.68' (SURFAC VALVE LOCKED OPEN W/ POPOFF ASSEMBLY) 1.875 X/N & POBS = 2.20' EOT @ 9040.71' TWTR = 13,407 BBLS TWR = 1300 BBLS TWLTR = 12,107 BBLS 315 JTS HAULED OUT 285 LANDED 30 TO RETURN
	13:45 - 13:45	0.00	PROD	50				WELL TURNED TO SALES @ 1345 HR ON 5/9/11 - 1400 MCFD, 1920 BWPD, CP 2000#, FTP 100#, CK 20/64"
5/30/2011	7:00 -			50				WELL IP'D ON 5/30/11 - 3043 MCFD, 0 BOPD, 390 BWPD, CP 1357#, FTP 1070#, CK 22/64", LP 143#, 24 HRS

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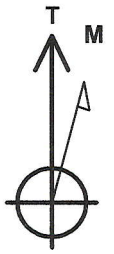
Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: NBU 921-25N Pad
Well: NBU 921-25N3AS
Wellbore: OH
Design: OH

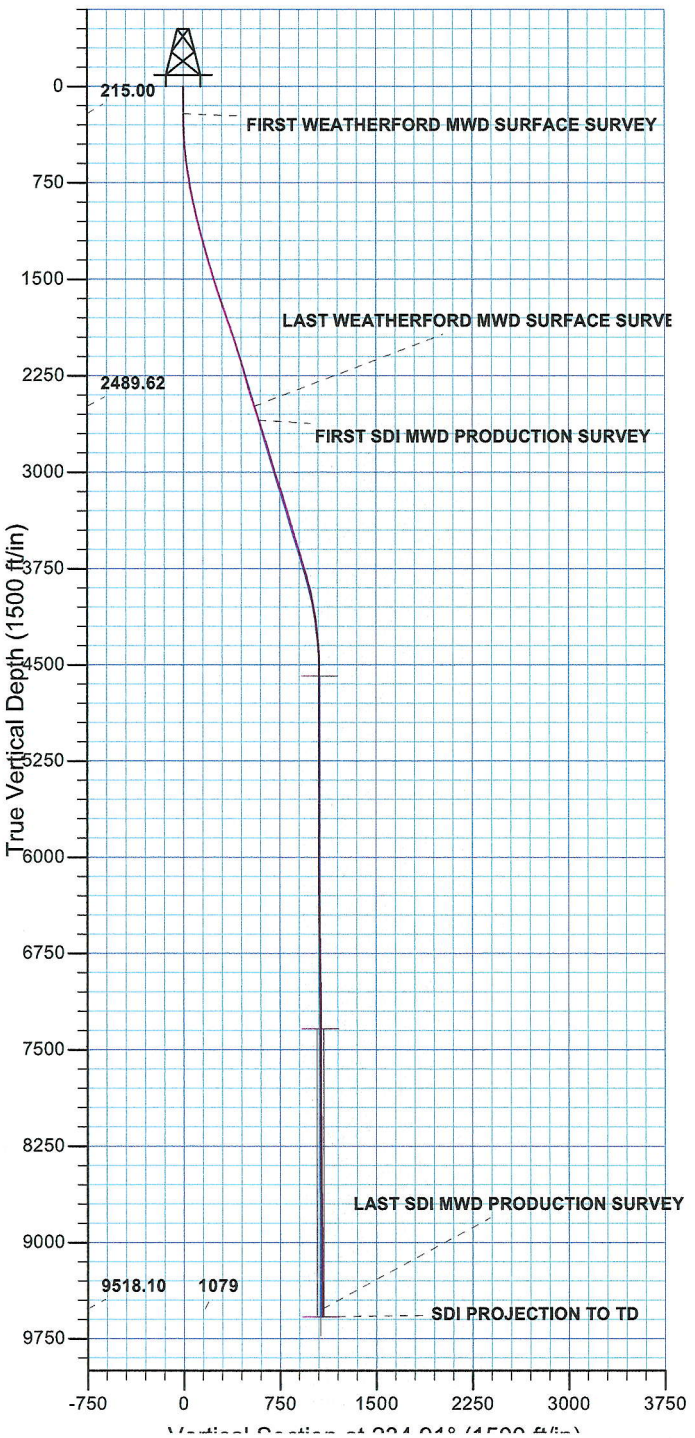
Anadarko Petroleum Corporation

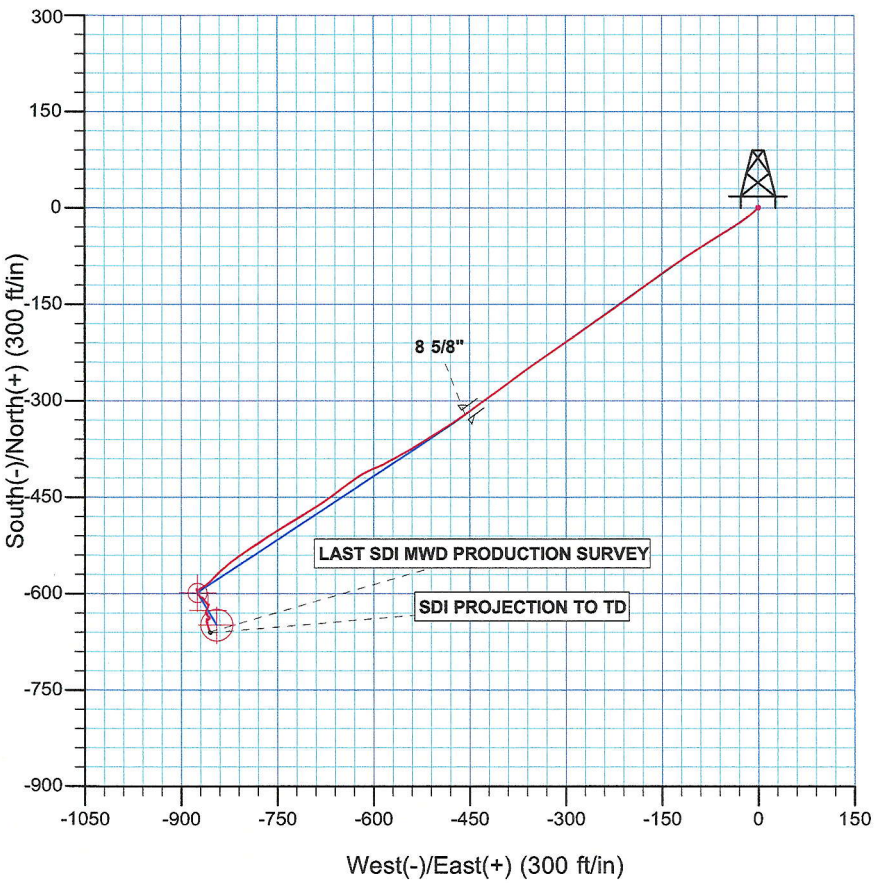
WELL DETAILS: NBU 921-25N3AS					
GL 4955' & RKB 25' @ 4980.00ft (H&P 311)					
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	14530655.97	2060602.02	40° 0' 10.624 N	109° 29' 58.618 W



Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 52374.6snT
Dip Angle: 65.88°
Date: 01/05/2011
Model: IGRF2010





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

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Survey: Survey #2 SDI MWD PRODUCTION (NBU 921-25N3AS/OH
Created By: RobertScott Date: 14:21, March 23 2011

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Design: OH

Standard Survey Report

23 March, 2011

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Anadarko
Petroleum Corporation

Scientific Drilling
Rocky Mountain Operations

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	0.00 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	01/05/2011	11.13	65.88	52,375

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	234.91

Survey Program **Date** 03/23/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
16.00	2,566.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard
2,679.00	9,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

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
16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00
215.00	0.23	305.76	215.00	0.23	-0.32	0.13	0.12	0.12	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
308.00	1.56	214.60	307.99	-0.70	-1.19	1.38	1.70	1.43	-98.02
401.00	3.34	226.10	400.90	-3.62	-3.87	5.24	1.98	1.91	12.37
496.00	5.19	228.66	495.63	-8.38	-9.09	12.25	1.96	1.95	2.69
591.00	7.19	233.16	590.07	-14.78	-17.07	22.47	2.16	2.11	4.74
687.00	9.13	234.54	685.10	-22.80	-28.08	36.09	2.03	2.02	1.44
782.00	10.38	238.04	778.72	-31.71	-41.48	52.17	1.46	1.32	3.68

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
878.00	11.75	238.66	872.94	-41.37	-57.17	70.56	1.43	1.43	0.65
972.00	13.25	238.16	964.71	-52.03	-74.50	90.87	1.60	1.60	-0.53
1,067.00	13.88	237.29	1,057.06	-63.93	-93.34	113.12	0.70	0.66	-0.92
1,162.00	14.63	236.66	1,149.13	-76.68	-112.95	136.50	0.81	0.79	-0.66
1,257.00	15.04	234.83	1,240.96	-90.38	-133.05	160.82	0.66	0.43	-1.93
1,352.00	15.56	234.54	1,332.60	-104.87	-153.50	185.89	0.55	0.55	-0.31
1,447.00	16.56	234.16	1,423.89	-120.19	-174.85	212.17	1.06	1.05	-0.40
1,542.00	17.31	233.66	1,514.77	-136.49	-197.21	239.83	0.80	0.79	-0.53
1,635.00	18.94	235.04	1,603.15	-153.34	-220.73	268.76	1.81	1.75	1.48
1,731.00	19.38	234.41	1,693.83	-171.54	-246.45	300.27	0.51	0.46	-0.66
1,826.00	18.75	234.54	1,783.62	-189.57	-271.70	331.30	0.66	-0.66	0.14
1,921.00	18.38	236.29	1,873.68	-206.74	-296.60	361.54	0.70	-0.39	1.84
2,016.00	19.00	235.54	1,963.67	-223.80	-321.81	391.98	0.70	0.65	-0.79
2,111.00	16.81	234.91	2,054.06	-240.45	-345.80	421.18	2.31	-2.31	-0.66
2,207.00	16.38	233.16	2,146.06	-256.54	-368.00	448.59	0.69	-0.45	-1.82
2,301.00	16.63	233.54	2,236.19	-272.49	-389.42	475.29	0.29	0.27	0.40
2,395.00	17.00	234.04	2,326.17	-288.55	-411.36	502.47	0.42	0.39	0.53
2,491.00	17.25	235.16	2,417.91	-304.92	-434.41	530.74	0.43	0.26	1.17
2,566.00	16.85	233.48	2,489.62	-317.74	-452.27	552.73	0.85	-0.53	-2.24
LAST WEATHERFORD MWD SURFACE SURVEY									
2,679.00	17.15	236.21	2,597.68	-336.75	-479.28	585.76	0.75	0.27	2.42
FIRST SDI MWD PRODUCTION SURVEY									
2,773.00	17.94	239.02	2,687.31	-351.92	-503.21	614.05	1.23	0.84	2.99
2,868.00	16.97	237.17	2,777.94	-366.96	-527.40	642.50	1.18	-1.02	-1.95
2,962.00	17.77	242.03	2,867.65	-381.13	-551.60	670.44	1.76	0.85	5.17
3,057.00	15.48	240.51	2,958.68	-394.17	-575.44	697.45	2.45	-2.41	-1.60
3,151.00	18.91	248.25	3,048.47	-406.00	-600.52	724.77	4.38	3.65	8.23
3,245.00	19.03	235.34	3,137.41	-420.36	-627.28	754.92	4.46	0.13	-13.73
3,340.00	16.71	231.81	3,227.82	-437.62	-650.76	784.05	2.69	-2.44	-3.72
3,434.00	17.15	235.59	3,317.75	-453.80	-672.82	811.41	1.26	0.47	4.02
3,529.00	15.30	237.79	3,408.96	-468.40	-694.98	837.93	2.05	-1.95	2.32
3,623.00	16.09	238.49	3,499.46	-481.82	-716.58	863.32	0.86	0.84	0.74
3,718.00	17.85	239.11	3,590.32	-496.18	-740.30	890.98	1.86	1.85	0.65
3,812.00	16.27	236.38	3,680.18	-510.86	-763.63	918.52	1.88	-1.68	-2.90
3,907.00	16.80	236.03	3,771.25	-525.90	-786.10	945.55	0.57	0.56	-0.37
4,001.00	15.30	236.91	3,861.58	-540.27	-807.76	971.52	1.62	-1.60	0.94
4,095.00	12.22	229.79	3,952.88	-553.46	-825.75	993.84	3.73	-3.28	-7.57
4,190.00	11.17	228.30	4,045.91	-566.08	-840.30	1,012.99	1.15	-1.11	-1.57
4,284.00	8.38	221.96	4,138.54	-577.23	-851.68	1,028.71	3.18	-2.97	-6.74
4,379.00	6.07	230.67	4,232.78	-585.56	-860.19	1,040.47	2.68	-2.43	9.17
4,473.00	4.92	242.36	4,326.35	-590.58	-867.61	1,049.42	1.70	-1.22	12.44
4,567.00	2.99	245.17	4,420.12	-593.48	-873.41	1,055.83	2.06	-2.05	2.99
4,662.00	0.98	351.94	4,515.08	-593.72	-875.77	1,057.90	3.58	-2.12	112.39

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
4,756.00	0.35	336.66	4,609.07	-592.66	-876.00	1,057.48	0.69	-0.67	-16.26
4,851.00	0.26	166.51	4,704.07	-592.60	-876.06	1,057.50	0.64	-0.09	-179.11
4,945.00	0.53	204.83	4,798.07	-593.20	-876.19	1,057.96	0.39	0.29	40.77
5,039.00	1.96	158.18	4,892.04	-595.09	-875.78	1,058.70	1.75	1.52	-49.63
5,134.00	1.76	146.47	4,986.99	-597.82	-874.37	1,059.11	0.45	-0.21	-12.33
5,228.00	2.07	158.80	5,080.94	-600.60	-872.96	1,059.56	0.55	0.33	13.12
5,322.00	1.76	159.23	5,174.89	-603.53	-871.83	1,060.32	0.33	-0.33	0.46
5,417.00	0.70	101.12	5,269.87	-605.01	-870.74	1,060.28	1.59	-1.12	-61.17
5,511.00	0.86	107.15	5,363.86	-605.33	-869.51	1,059.45	0.19	0.17	6.41
5,605.00	0.88	99.19	5,457.85	-605.65	-868.12	1,058.51	0.13	0.02	-8.47
5,700.00	0.53	117.18	5,552.84	-605.97	-867.01	1,057.78	0.43	-0.37	18.94
5,794.00	1.49	143.31	5,646.83	-607.15	-865.89	1,057.54	1.11	1.02	27.80
5,889.00	1.67	145.77	5,741.79	-609.28	-864.38	1,057.53	0.20	0.19	2.59
5,983.00	1.76	148.84	5,835.75	-611.65	-862.86	1,057.65	0.14	0.10	3.27
6,077.00	1.93	147.61	5,929.70	-614.22	-861.26	1,057.82	0.19	0.18	-1.31
6,172.00	1.23	124.32	6,024.66	-616.15	-859.56	1,057.54	0.99	-0.74	-24.52
6,266.00	0.79	99.45	6,118.65	-616.82	-858.09	1,056.72	0.65	-0.47	-26.46
6,361.00	0.53	62.01	6,213.64	-616.72	-857.06	1,055.82	0.52	-0.27	-39.41
6,455.00	1.14	212.56	6,307.64	-617.31	-857.18	1,056.25	1.73	0.65	160.16
6,549.00	1.14	202.02	6,401.62	-618.96	-858.03	1,057.90	0.22	0.00	-11.21
6,644.00	1.23	207.11	6,496.60	-620.75	-858.85	1,059.60	0.15	0.09	5.36
6,738.00	1.32	200.79	6,590.58	-622.66	-859.69	1,061.39	0.18	0.10	-6.72
6,832.00	1.49	203.42	6,684.55	-624.79	-860.56	1,063.33	0.19	0.18	2.80
6,927.00	1.58	206.50	6,779.52	-627.10	-861.64	1,065.53	0.13	0.09	3.24
7,021.00	1.06	163.08	6,873.49	-629.09	-861.96	1,066.94	1.16	-0.55	-46.19
7,115.00	1.32	151.57	6,967.47	-630.87	-861.20	1,067.34	0.37	0.28	-12.24
7,210.00	1.41	149.02	7,062.44	-632.84	-860.07	1,067.55	0.11	0.09	-2.68
7,304.00	1.58	147.44	7,156.41	-634.92	-858.78	1,067.69	0.19	0.18	-1.68
7,399.00	0.53	40.12	7,251.40	-635.69	-857.79	1,067.32	1.91	-1.11	-112.97
7,493.00	0.35	78.44	7,345.40	-635.30	-857.23	1,066.64	0.36	-0.19	40.77
7,587.00	0.44	128.45	7,439.40	-635.47	-856.67	1,066.27	0.37	0.10	53.20
7,682.00	0.70	169.06	7,534.39	-636.26	-856.27	1,066.41	0.49	0.27	42.75
7,776.00	0.53	182.86	7,628.39	-637.26	-856.18	1,066.91	0.24	-0.18	14.68
7,870.00	0.97	171.52	7,722.38	-638.48	-856.09	1,067.53	0.49	0.47	-12.06
7,964.00	0.70	266.44	7,816.37	-639.30	-856.54	1,068.38	1.32	-0.29	100.98
8,059.00	0.62	232.16	7,911.37	-639.66	-857.53	1,069.39	0.42	-0.08	-36.08
8,153.00	0.79	205.53	8,005.36	-640.55	-858.21	1,070.46	0.39	0.18	-28.33
8,247.00	0.98	325.71	8,099.35	-640.47	-858.94	1,071.01	1.64	0.20	127.85
8,342.00	0.62	312.76	8,194.34	-639.45	-859.78	1,071.11	0.42	-0.38	-13.63
8,436.00	0.44	311.62	8,288.34	-638.87	-860.42	1,071.30	0.19	-0.19	-1.21
8,530.00	0.26	161.85	8,382.34	-638.83	-860.62	1,071.45	0.72	-0.19	-159.33
8,625.00	0.62	176.53	8,477.34	-639.55	-860.53	1,071.78	0.39	0.38	15.45
8,719.00	1.14	188.48	8,571.32	-640.98	-860.63	1,072.69	0.58	0.55	12.71
8,814.00	1.41	193.93	8,666.30	-643.05	-861.05	1,074.22	0.31	0.28	5.74

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
9,666.00	1.40	128.00	9,518.10	-659.63	-855.38	1,079.11	0.18	0.00	-7.74
LAST SDI MWD PRODUCTION SURVEY									
9,730.00	1.40	128.00	9,582.08	-660.60	-854.14	1,078.65	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
215.00	215.00	0.23	-0.32	FIRST WEATHERFORD MWD SURFACE SURVEY
2,566.00	2,489.62	-317.74	-452.27	LAST WEATHERFORD MWD SURFACE SURVEY
2,679.00	2,597.68	-336.75	-479.28	FIRST SDI MWD PRODUCTION SURVEY
9,666.00	9,518.10	-659.63	-855.38	LAST SDI MWD PRODUCTION SURVEY
9,730.00	9,582.08	-660.60	-854.14	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Design: OH

Survey Report - Geographic

23 March, 2011

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Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	0.00 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	01/05/2011	11.13	65.88	52,375

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	234.91

Survey Program **Date** 03/23/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
16.00	2,566.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard
2,679.00	9,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

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Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (usft)**	**Map Easting (usft)**	**Latitude**	**Longitude**
0.00	0.00	0.00	0.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
16.00	0.00	0.00	16.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
215.00	0.23	305.76	215.00	0.23	-0.32	14,530,656.20	2,060,601.69	40° 0' 10.626 N	109° 29' 58.622 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
308.00	1.56	214.60	307.99	-0.70	-1.19	14,530,655.25	2,060,600.83	40° 0' 10.617 N	109° 29' 58.633 W
401.00	3.34	226.10	400.90	-3.62	-3.87	14,530,652.29	2,060,598.21	40° 0' 10.588 N	109° 29' 58.667 W
496.00	5.19	228.66	495.63	-8.38	-9.09	14,530,647.44	2,060,593.07	40° 0' 10.541 N	109° 29' 58.734 W
591.00	7.19	233.16	590.07	-14.78	-17.07	14,530,640.91	2,060,585.20	40° 0' 10.477 N	109° 29' 58.837 W
687.00	9.13	234.54	685.10	-22.80	-28.08	14,530,632.70	2,060,574.32	40° 0' 10.398 N	109° 29' 58.979 W
782.00	10.38	238.04	778.72	-31.71	-41.48	14,530,623.57	2,060,561.07	40° 0' 10.310 N	109° 29' 59.151 W
878.00	11.75	238.66	872.94	-41.37	-57.17	14,530,613.65	2,060,545.55	40° 0' 10.215 N	109° 29' 59.352 W

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
972.00	13.25	238.16	964.71	-52.03	-74.50	14,530,602.70	2,060,528.40	40° 0' 10.109 N	109° 29' 59.575 W
1,067.00	13.88	237.29	1,057.06	-63.93	-93.34	14,530,590.48	2,060,509.77	40° 0' 9.992 N	109° 29' 59.817 W
1,162.00	14.63	236.66	1,149.13	-76.68	-112.95	14,530,577.40	2,060,490.38	40° 0' 9.866 N	109° 30' 0.069 W
1,257.00	15.04	234.83	1,240.96	-90.38	-133.05	14,530,563.37	2,060,470.51	40° 0' 9.730 N	109° 30' 0.328 W
1,352.00	15.56	234.54	1,332.60	-104.87	-153.50	14,530,548.54	2,060,450.30	40° 0' 9.587 N	109° 30' 0.590 W
1,447.00	16.56	234.16	1,423.89	-120.19	-174.85	14,530,532.86	2,060,429.21	40° 0' 9.436 N	109° 30' 0.865 W
1,542.00	17.31	233.66	1,514.77	-136.49	-197.21	14,530,516.18	2,060,407.13	40° 0' 9.274 N	109° 30' 1.152 W
1,635.00	18.94	235.04	1,603.15	-153.34	-220.73	14,530,498.94	2,060,383.90	40° 0' 9.108 N	109° 30' 1.454 W
1,731.00	19.38	234.41	1,693.83	-171.54	-246.45	14,530,480.31	2,060,358.49	40° 0' 8.928 N	109° 30' 1.785 W
1,826.00	18.75	234.54	1,783.62	-189.57	-271.70	14,530,461.86	2,060,333.54	40° 0' 8.750 N	109° 30' 2.110 W
1,921.00	18.38	236.29	1,873.68	-206.74	-296.60	14,530,444.27	2,060,308.94	40° 0' 8.580 N	109° 30' 2.430 W
2,016.00	19.00	235.54	1,963.67	-223.80	-321.81	14,530,426.79	2,060,284.02	40° 0' 8.411 N	109° 30' 2.754 W
2,111.00	16.81	234.91	2,054.06	-240.45	-345.80	14,530,409.74	2,060,260.31	40° 0' 8.247 N	109° 30' 3.062 W
2,207.00	16.38	233.16	2,146.06	-256.54	-368.00	14,530,393.27	2,060,238.39	40° 0' 8.088 N	109° 30' 3.347 W
2,301.00	16.63	233.54	2,236.19	-272.49	-389.42	14,530,376.97	2,060,217.24	40° 0' 7.930 N	109° 30' 3.623 W
2,395.00	17.00	234.04	2,326.17	-288.55	-411.36	14,530,360.54	2,060,195.57	40° 0' 7.771 N	109° 30' 3.905 W
2,491.00	17.25	235.16	2,417.91	-304.92	-434.41	14,530,343.78	2,060,172.81	40° 0' 7.610 N	109° 30' 4.201 W
2,566.00	16.85	233.48	2,489.62	-317.74	-452.27	14,530,330.66	2,060,155.16	40° 0' 7.483 N	109° 30' 4.430 W
LAST WEATHERFORD MWD SURFACE SURVEY									
2,679.00	17.15	236.21	2,597.68	-336.75	-479.28	14,530,311.20	2,060,128.48	40° 0' 7.295 N	109° 30' 4.777 W
FIRST SDI MWD PRODUCTION SURVEY									
2,773.00	17.94	239.02	2,687.31	-351.92	-503.21	14,530,295.64	2,060,104.80	40° 0' 7.145 N	109° 30' 5.085 W
2,868.00	16.97	237.17	2,777.94	-366.96	-527.40	14,530,280.18	2,060,080.87	40° 0' 6.996 N	109° 30' 5.396 W
2,962.00	17.77	242.03	2,867.65	-381.13	-551.60	14,530,265.61	2,060,056.91	40° 0' 6.856 N	109° 30' 5.707 W
3,057.00	15.48	240.51	2,958.68	-394.17	-575.44	14,530,252.17	2,060,033.29	40° 0' 6.727 N	109° 30' 6.013 W
3,151.00	18.91	248.25	3,048.47	-406.00	-600.52	14,530,239.93	2,060,008.42	40° 0' 6.610 N	109° 30' 6.336 W
3,245.00	19.03	235.34	3,137.41	-420.36	-627.28	14,530,225.11	2,059,981.90	40° 0' 6.468 N	109° 30' 6.680 W
3,340.00	16.71	231.81	3,227.82	-437.62	-650.76	14,530,207.46	2,059,958.71	40° 0' 6.298 N	109° 30' 6.981 W
3,434.00	17.15	235.59	3,317.75	-453.80	-672.82	14,530,190.91	2,059,936.93	40° 0' 6.138 N	109° 30' 7.265 W
3,529.00	15.30	237.79	3,408.96	-468.40	-694.98	14,530,175.94	2,059,915.02	40° 0' 5.994 N	109° 30' 7.550 W
3,623.00	16.09	238.49	3,499.46	-481.82	-716.58	14,530,162.16	2,059,893.65	40° 0' 5.861 N	109° 30' 7.827 W
3,718.00	17.85	239.11	3,590.32	-496.18	-740.30	14,530,147.40	2,059,870.18	40° 0' 5.719 N	109° 30' 8.132 W
3,812.00	16.27	236.38	3,680.18	-510.86	-763.63	14,530,132.32	2,059,847.10	40° 0' 5.574 N	109° 30' 8.432 W
3,907.00	16.80	236.03	3,771.25	-525.90	-786.10	14,530,116.91	2,059,824.88	40° 0' 5.425 N	109° 30' 8.721 W
4,001.00	15.30	236.91	3,861.58	-540.27	-807.76	14,530,102.18	2,059,803.47	40° 0' 5.283 N	109° 30' 8.999 W
4,095.00	12.22	229.79	3,952.88	-553.46	-825.75	14,530,088.69	2,059,785.70	40° 0' 5.153 N	109° 30' 9.230 W
4,190.00	11.17	228.30	4,045.91	-566.08	-840.30	14,530,075.83	2,059,771.37	40° 0' 5.028 N	109° 30' 9.417 W
4,284.00	8.38	221.96	4,138.54	-577.23	-851.68	14,530,064.49	2,059,760.18	40° 0' 4.918 N	109° 30' 9.563 W
4,379.00	6.07	230.67	4,232.78	-585.56	-860.19	14,530,056.01	2,059,751.80	40° 0' 4.835 N	109° 30' 9.673 W
4,473.00	4.92	242.36	4,326.35	-590.58	-867.61	14,530,050.87	2,059,744.47	40° 0' 4.786 N	109° 30' 9.768 W
4,567.00	2.99	245.17	4,420.12	-593.48	-873.41	14,530,047.87	2,059,738.73	40° 0' 4.757 N	109° 30' 9.843 W
4,662.00	0.98	351.94	4,515.08	-593.72	-875.77	14,530,047.59	2,059,736.37	40° 0' 4.755 N	109° 30' 9.873 W
4,756.00	0.35	336.66	4,609.07	-592.66	-876.00	14,530,048.65	2,059,736.12	40° 0' 4.765 N	109° 30' 9.876 W
4,851.00	0.26	166.51	4,704.07	-592.60	-876.06	14,530,048.71	2,059,736.06	40° 0' 4.766 N	109° 30' 9.877 W
4,945.00	0.53	204.83	4,798.07	-593.20	-876.19	14,530,048.10	2,059,735.94	40° 0' 4.760 N	109° 30' 9.879 W
5,039.00	1.96	158.18	4,892.04	-595.09	-875.78	14,530,046.22	2,059,736.38	40° 0' 4.741 N	109° 30' 9.873 W
5,134.00	1.76	146.47	4,986.99	-597.82	-874.37	14,530,043.52	2,059,737.84	40° 0' 4.714 N	109° 30' 9.855 W
5,228.00	2.07	158.80	5,080.94	-600.60	-872.96	14,530,040.76	2,059,739.30	40° 0' 4.687 N	109° 30' 9.837 W
5,322.00	1.76	159.23	5,174.89	-603.53	-871.83	14,530,037.85	2,059,740.47	40° 0' 4.658 N	109° 30' 9.822 W
5,417.00	0.70	101.12	5,269.87	-605.01	-870.74	14,530,036.39	2,059,741.58	40° 0' 4.643 N	109° 30' 9.808 W
5,511.00	0.86	107.15	5,363.86	-605.33	-869.51	14,530,036.09	2,059,742.82	40° 0' 4.640 N	109° 30' 9.793 W
5,605.00	0.88	99.19	5,457.85	-605.65	-868.12	14,530,035.79	2,059,744.22	40° 0' 4.637 N	109° 30' 9.775 W
5,700.00	0.53	117.18	5,552.84	-605.97	-867.01	14,530,035.49	2,059,745.33	40° 0' 4.634 N	109° 30' 9.760 W
5,794.00	1.49	143.31	5,646.83	-607.15	-865.89	14,530,034.33	2,059,746.47	40° 0' 4.622 N	109° 30' 9.746 W
5,889.00	1.67	145.77	5,741.79	-609.28	-864.38	14,530,032.22	2,059,748.02	40° 0' 4.601 N	109° 30' 9.727 W

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Scientific Drilling
Rocky Mountain Operations

SDI

Survey Report - Geographic

Anadarko Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,983.00	1.76	148.84	5,835.75	-611.65	-862.86	14,530,029.88	2,059,749.58	40° 0' 4.578 N	109° 30' 9.707 W
6,077.00	1.93	147.61	5,929.70	-614.22	-861.26	14,530,027.34	2,059,751.22	40° 0' 4.552 N	109° 30' 9.687 W
6,172.00	1.23	124.32	6,024.66	-616.15	-859.56	14,530,025.44	2,059,752.95	40° 0' 4.533 N	109° 30' 9.665 W
6,266.00	0.79	99.45	6,118.65	-616.82	-858.09	14,530,024.79	2,059,754.43	40° 0' 4.526 N	109° 30' 9.646 W
6,361.00	0.53	62.01	6,213.64	-616.72	-857.06	14,530,024.91	2,059,755.46	40° 0' 4.527 N	109° 30' 9.633 W
6,455.00	1.14	212.56	6,307.64	-617.31	-857.18	14,530,024.32	2,059,755.35	40° 0' 4.522 N	109° 30' 9.634 W
6,549.00	1.14	202.02	6,401.62	-618.96	-858.03	14,530,022.65	2,059,754.53	40° 0' 4.505 N	109° 30' 9.645 W
6,644.00	1.23	207.11	6,496.60	-620.75	-858.85	14,530,020.85	2,059,753.74	40° 0' 4.488 N	109° 30' 9.656 W
6,738.00	1.32	200.79	6,590.58	-622.66	-859.69	14,530,018.93	2,059,752.93	40° 0' 4.469 N	109° 30' 9.666 W
6,832.00	1.49	203.42	6,684.55	-624.79	-860.56	14,530,016.78	2,059,752.09	40° 0' 4.448 N	109° 30' 9.678 W
6,927.00	1.58	206.50	6,779.52	-627.10	-861.64	14,530,014.46	2,059,751.06	40° 0' 4.425 N	109° 30' 9.691 W
7,021.00	1.06	163.08	6,873.49	-629.09	-861.96	14,530,012.46	2,059,750.77	40° 0' 4.405 N	109° 30' 9.696 W
7,115.00	1.32	151.57	6,967.47	-630.87	-861.20	14,530,010.69	2,059,751.56	40° 0' 4.388 N	109° 30' 9.686 W
7,210.00	1.41	149.02	7,062.44	-632.84	-860.07	14,530,008.75	2,059,752.72	40° 0' 4.368 N	109° 30' 9.671 W
7,304.00	1.58	147.44	7,156.41	-634.92	-858.78	14,530,006.68	2,059,754.05	40° 0' 4.348 N	109° 30' 9.655 W
7,399.00	0.53	40.12	7,251.40	-635.69	-857.79	14,530,005.93	2,059,755.05	40° 0' 4.340 N	109° 30' 9.642 W
7,493.00	0.35	78.44	7,345.40	-635.30	-857.23	14,530,006.33	2,059,755.60	40° 0' 4.344 N	109° 30' 9.635 W
7,587.00	0.44	128.45	7,439.40	-635.47	-856.67	14,530,006.18	2,059,756.17	40° 0' 4.342 N	109° 30' 9.628 W
7,682.00	0.70	169.06	7,534.39	-636.26	-856.27	14,530,005.39	2,059,756.58	40° 0' 4.334 N	109° 30' 9.622 W
7,776.00	0.53	182.86	7,628.39	-637.26	-856.18	14,530,004.39	2,059,756.68	40° 0' 4.324 N	109° 30' 9.621 W
7,870.00	0.97	171.52	7,722.38	-638.48	-856.09	14,530,003.17	2,059,756.80	40° 0' 4.312 N	109° 30' 9.620 W
7,964.00	0.70	266.44	7,816.37	-639.30	-856.54	14,530,002.34	2,059,756.36	40° 0' 4.304 N	109° 30' 9.626 W
8,059.00	0.62	232.16	7,911.37	-639.66	-857.53	14,530,001.97	2,059,755.38	40° 0' 4.301 N	109° 30' 9.639 W
8,153.00	0.79	205.53	8,005.36	-640.55	-858.21	14,530,001.06	2,059,754.71	40° 0' 4.292 N	109° 30' 9.647 W
8,247.00	0.98	325.71	8,099.35	-640.47	-858.94	14,530,001.13	2,059,753.98	40° 0' 4.293 N	109° 30' 9.657 W
8,342.00	0.62	312.76	8,194.34	-639.45	-859.78	14,530,002.14	2,059,753.13	40° 0' 4.303 N	109° 30' 9.668 W
8,436.00	0.44	311.62	8,288.34	-638.87	-860.42	14,530,002.71	2,059,752.47	40° 0' 4.309 N	109° 30' 9.676 W
8,530.00	0.26	161.85	8,382.34	-638.83	-860.62	14,530,002.74	2,059,752.27	40° 0' 4.309 N	109° 30' 9.678 W
8,625.00	0.62	176.53	8,477.34	-639.55	-860.53	14,530,002.03	2,059,752.38	40° 0' 4.302 N	109° 30' 9.677 W
8,719.00	1.14	188.48	8,571.32	-640.98	-860.63	14,530,000.59	2,059,752.30	40° 0' 4.288 N	109° 30' 9.679 W
8,814.00	1.41	193.93	8,666.30	-643.05	-861.05	14,529,998.52	2,059,751.91	40° 0' 4.267 N	109° 30' 9.684 W
9,666.00	1.40	128.00	9,518.10	-659.63	-855.38	14,529,982.03	2,059,757.87	40° 0' 4.103 N	109° 30' 9.611 W
LAST SDI MWD PRODUCTION SURVEY									
9,730.00	1.40	128.00	9,582.08	-660.60	-854.14	14,529,981.09	2,059,759.12	40° 0' 4.094 N	109° 30' 9.595 W
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
215.00	215.00	0.23	-0.32	FIRST WEATHERFORD MWD SURFACE SURVEY
2,566.00	2,489.62	-317.74	-452.27	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____ Approved By: _____ Date: _____

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UTU63047A

8. WELL NAME and NUMBER: NBU 921-25N3AS

9. API NUMBER: 4304751263

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

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) 929-6100

4. LOCATION OF WELL (FOOTAGES)

BHL reviewed by HSM

AT SURFACE: SESW 1158 FSL 2575 FWL S25, T9S, R21E

AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 523 FSL 1718 FWL S25, T9S, R21E

AT TOTAL DEPTH: SESW 498 FSL 1721 FWL S25, T9S, R21E

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

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 1/3/2011

15. DATE T.D. REACHED: 3/11/2011

16. DATE COMPLETED: 5/9/2011 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4955 GL

18. TOTAL DEPTH: MD 9,730 TVD 9,582

19. PLUG BACK T.D.: MD 9,674 TVD 9,526

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)

ACBL-RMT-CHI TRIPLE COMBO

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#		40		28			
11"	8 5/8" IJ-55	28#		2,602		490		0	
7 7/8"	4 1/2" I-80	11.6#		9,716		1,655		970	

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"	9,041							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	7,458	7,460		
(B) MESAVERDE	7,524	9,514		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
7,458	7,460	0.36	6	Open ☑ Squeezed ☐
7,524	9,514	0.36	210	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7458 - 9514	PUMP 13,107 BBLS SLICK H2O & 284,220 LBS SAND

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

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
5/9/2011		5/30/2011		24			0	3,043	390	FLOWING
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:
22/64	1,070	1,357					0	3,043	390	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	1,418				
BIRD'S NEST	1,796				
MAHOGANY	2,129				
WASATCH	4,809	7,509			
MESAVERDE	7,509	9,730	TD		

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the chronological well history, perforation report and final survey. Completion chrono details individual frac stages.

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

NAME (PLEASE PRINT) ANDREW LYTLE TITLE REGULATORY ANALYST

SIGNATURE DATE 6/6/2011

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

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DIV. OF OIL, GAS & MINING

(5/2000)

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/17/2011	5:00 - 7:00	2.00	DRLPRO	01	E	P		RIG DOWN
	7:00 - 10:30	3.50	DRLPRO	01	C	P		SKID RIG TO NBU 921-25N3AS WELL 3/4
	10:30 - 12:30	2.00	DRLPRO	14	A	P		WELD ON CONDUCTOR AND RIG UP FLOW LINE
	12:30 - 14:00	1.50	DRLPRO	09	A	P		SLIP AND CUT 75' DRILL LINE
	14:00 - 14:30	0.50	DRLPRO	06	A	P		PICK UP MUD MOTOR AND BIT
	14:30 - 16:30	2.00	DRLPRO	02	C	P		DRILL F/ 40' - 223' SPUD WELL
	16:30 - 18:30	2.00	DRLPRO	06	A	P		TOOH INSTALL DIRECTIONAL TOOLS AND ORIENT MWD TO MUD MOTOR TIH
	18:30 - 0:00	5.50	DRLPRO	02	C	P		DRILL F/ 223' - 1048' AVE ROP 150' FT HR NO LOSSES WOB 18-22 ROT 45-65 DHR 96 GPM 600 LAST SURVEY 13.88 DEG 237.29 AZI
1/18/2011	0:00 - 1:00	1.00	DRLSUR	02	C	P		DRILL F/ 1048' - 1206' AVE ROP 158 FT HR WOB 18-22 ROT 55-65 DHR 96 GPM 600 OBP 1250 OFBP 975 NO LOSSES LAST SURVEY 14.63 DEG 236.66 AZI
	1:00 - 2:30	1.50	DRLSUR	08	B	Z		CHANGE OUT HYDRAULOC HOSE IN DERRICK
	2:30 - 3:00	0.50	DRLSUR	02	D	P		DRILL F/ 1206' - 1249' WOB 18-22 ROT 55-65 DHR 96 GPM 600 OBP 1250 OFBP 975 NO LOSSES LAST SURVEY 14.63 DEG 236.66 AZI
	3:00 - 4:00	1.00	DRLSUR	08	B	Z		TOOH TO 600' & CIRC.
	4:00 - 9:30	5.50	DRLSUR	08	B	Z		REPAIR HYDRAULIC STANDPIPE IN DERRICK
	9:30 - 10:00	0.50	DRLSUR	08	B	Z		TIH
	10:00 - 13:30	3.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1249'-1554' // ROP= 87 FPH // WOB=18-22K // SPP=1300/1050 // NO LOSSES // LAST SURVEY @1431'=16.56 DEG-234.16 AZ
	13:30 - 14:00	0.50	DRLSUR	07	A	P		SERVICE RIG & EQUIPMENT
	14:00 - 18:00	4.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1554'-1980' // ROP= 106 FPH // WOB=18-22K // SPP=1300/1050 // NO LOSSES // LAST SURVEY @1905'=18.38 DEG-236.29 AZ
	18:00 - 0:00	6.00	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 1980'-2503' // ROP=87 FPH // WOB=18-22K // SPP=1300/1050 // SOME SEEPAGE 90-95% RETURNS// LAST SURVEY @2379'-17.0 DEG-234.04 AZ
1/19/2011	-		RDMO					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/19/2011 14:30 SURFACE HOLE: Surface From depth: 40 Surface To depth: 2,610 Total SURFACE hours: 24.00 Surface Casing size: 8 5/8 # of casing joints ran: 58 Casing set MD: 2,585.0 # sx of cement: 200/225/65 Cement blend (ppg:) 11.0/15.8/15.8 Cement yield (ft3/sk): 3.82/1.15/1.15 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 135 BBL'S INTO DISP. Describe hole issues: NONE

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	0:00 - 1:30	1.50	DRLSUR	02	D	P		DIR DRLG 11" SURFACE HOLE F/ 2503'-2610' // ROP=71 FPH // WOB=18-22K // SPP=1300/1050 // SOME SEEPAGE 90-95% RETURNS// LAST SURVEY @ 2550= 16.85 DEG- 233.48 AZ // 87% ROTATE- 13% SLIDE
	1:30 - 2:00	0.50	DRLSUR	05	A	P		CIRC & COND HOLE FOR 8.625" CSG
	2:00 - 8:00	6.00	DRLSUR	06	A	P		LAY DN DRILL STRING & DIR. TOOLS
	8:00 - 11:30	3.50	CSG	12	C	P		PJSM // RUN 58 JT'S, 8.625", 28#, J-55, LT&C CSG // FLOAT SHOE SET @ 2585', BAFFLE @ 2538'
	11:30 - 12:00	0.50	CSG	05	A	P		CIRC 8.625" CSG @ 2585'
	12:00 - 14:00	2.00	CSG	12	E	P		PJSM // TEST LINES to 2500 psi // PUMP 25 BBL'S SPACER // LEAD= 200 SX CLASS G (YIELD=3.82 CUFT/SK, WT= 11.0 PPG) // TAIL=225 SX CLASS G +2% CACL2 +.25#/SK SUPERFLAKE (YIELD= 1.15 CUFT/SK, WT= 15.8 PPG) // DROP PLUG & DISPLACE W/ 153 BBL,S WATER (LOST RETURNS 135 BBL'S INTO DISP) // PLUG DN @ 13:40 1/19/2011 // BUMP PLUG @ 530 PSI // FINAL LIFT= 220 PSI // CHECK FLOATS- HELD W/ 1 BBL BACK TO TRUCK // NO CMT TO SURFACE
	14:00 - 14:30	0.50	CSG	14	A	P		CUT OFF CONDUCTOR & HANG 8-5/8" CSG
	14:30 - 15:00	0.50	CSG	12	E	P		PUMP 1" TOP OUT W/ 65 SX CLASS G +2% CACL2 +.25#/SK SUPERFLAKE (YIELD= 1.15 CUFT/SK, WT= 15.8 PPG) CMT TO SURFACE
	15:00 - 16:00	1.00	RDMO	01	E	P		RIG DN & PREP RIG TO SKID // RELEASE RIG @ 16:00 1/19/2011
3/5/2011	10:30 - 12:30	2.00	MIRU	01	C	P		SKIDDED RIG FROM NBU 921-25N2DS. VERIFIED THAT RIG WAS CENTERED OVER THE HOLE.
	12:30 - 14:30	2.00	PRPSPD	14	A	P		NU BOPE
	14:30 - 18:30	4.00	PRPSPD	15	A	P		TESTED BOPE. PRESSURE TEST PIPE RAMS, BLIND RAMS, IBOP, FLOOR VALVE, KILL LINE, & KILL LINE VALVES, BOP WING VALVES, HCR VALVE, CHOKE LINE INNER & OUTER CHOKE VALVES, & MANIFOLD 250 PSI LOW/ 5 MINUTES, 5K HIGH FOR 10 MINUTES, TEST ANNULAR 250 LOW/5 MINUTES, 2500 HIGH/10 MINUTES, TEST SUPER CHOKE. FUNCTION TEST CLOSING UNIT.
	18:30 - 19:00	0.50	PRPSPD	15	A	P		TESTED SURFACE CASING TO 1500 PSI FOR 30 MINUTES.
	19:00 - 19:30	0.50	PRPSPD	14	B	P		INSTALLED NEW 8" WEAR BUSHING.
	19:30 - 21:00	1.50	DRLPRO	06	A	P		MADE UP HUGHES Q506F, SERIAL #7128320 WITH 6-15S ON TO A SDI .23 REV/GAL, 1.5 DEGREE BEND, 7:8 LOBE, 5.0, 6.5" MUD MOTOR. PICKED UP/MADE UP DIRECTIONAL TOOLS, INSTALLED AND TESTED E-FIELD TOOL, SCRIBED MUD MOTOR.
	21:00 - 22:00	1.00	DRLPRO	06	A	P		TRIPPED IN THE HOLE.
	22:00 - 23:00	1.00	DRLPRO	02	F	P		TAGGED CEMENT AT 2485'. WASHED THRU AND TAGGED BAFFLE PLATE AT 2547'. DRILLED SHOE TRACK AND SHOE.
	23:00 - 0:00	1.00	DRLPRO	02	D	P		DRILLED 2626'-2735', 109' IN 1 HOUR, 109 FPH.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/6/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 2735'-3270', 535' IN 6 HRS, 89.2 FPH. MADE 14 SLIDES OR AT LEAST 1 SLIDE EVERY STD. SLIDE A TOTAL OF 199' IN 1.75 HRS. WOB WAS 18-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1500/1200 PSI. ON/OFF BOTTOM TORQUE WAS 4/4K. PU/SO/ROT WAS 114/91/100. CIRCULATING THE RESERVE PIT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 3270'-4434', 1164' IN 11.5 HRS, 101.2 FPH. MADE 14 SLIDES OR AT LEAST 1 SLIDE EVERY STD. SLIDE A TOTAL OF 190' IN 2.75 HRS. WOB WAS 18-20K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 1950/1450 PSI. ON/OFF BOTTOM TORQUE WAS 10/5K. PU/SO/ROT WAS 140/110/122. CIRCULATING THE RESERVE PIT.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 4434'-5189', 755' IN 6 HRS, 125.8 FPH. MADE 3 SLIDES. SLIDE A TOTAL OF 60' IN 0.75 HRS. WOB WAS 18-22K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2130/1580 PSI. ON/OFF BOTTOM TORQUE WAS 10/5K. PU/SO/ROT WAS 168/108/133. CIRCULATING THE RESERVE PIT.
3/7/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 5189'-5944', 755' IN 6 HRS, 125.8 FPH. MADE 2 SLIDES. SLIDE A TOTAL OF 18' IN 0.25 HRS. WOB WAS 18-22K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2170/1620 PSI. ON/OFF BOTTOM TORQUE WAS 10/8K. PU/SO/ROT WAS 178/118/143. CIRCULATING THE RESERVE PIT.
	6:00 - 17:30	11.50	DRLPRO	02	D	P		DRILLED 5944'-6983', 1039' IN 11.5 HRS, 90.3 FPH. MADE 2 SLIDES. SLIDE A TOTAL OF 32' IN 1.25 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2300/1700 PSI. ON/OFF BOTTOM TORQUE WAS 12/10K. PU/SO/ROT WAS 200/125/157. 9.7 PPG, 34 VIS WITH 0% LCM.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 6983'-7390', 407' IN 6 HRS, 67.8 FPH. MADE 1 SLIDES. SLIDE A TOTAL OF 18' IN 1.0 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 114 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 159 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2030/1730 PSI. ON/OFF BOTTOM TORQUE WAS 11/10K. PU/SO/ROT WAS 208/135/195. 10.1 PPG, 34 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
3/8/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 7390'-7643', 253' IN 6 HRS, 42.2 FPH. MADE 1 SLIDE. SLIDE A TOTAL OF 6' IN 0.5 HRS. WOB WAS 18-23K, PUMP #1 AT 110 SPM, 405 GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2080/1790 PSI. ON/OFF BOTTOM TORQUE WAS 11/10K. PU/SO/ROT WAS 212/135/197. 10.4 PPG, 34 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
	6:00 - 14:30	8.50	DRLPRO	02	D	P		DRILLED 7643'-8017', 374' IN 8.5 HRS, 44 FPH. MADE 1 SLIDE. SLIDE A TOTAL OF 20' IN 1.5 HRS. WOB WAS 18-23K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1600 PSI. ON/OFF BOTTOM TORQUE WAS 10/10K. PU/SO/ROT WAS 230/135/169. 11.0 PPG, 36 VIS WITH 0% LCM. JUST HAVING SEEPAGE LOSSES.
	14:30 - 15:00	0.50	DRLPRO	05	B	P		LOST RETURNS, PUMPED LCM SWEEP AND ADDED 5% LCM TO MUD SYSTEM. LOST 100 BBLS.
	15:00 - 17:30	2.50	DRLPRO	02	D	P		DRILLED 8017'-8115', 98' IN 2.5 HRS, 39.2 FPH. 100% ROTATING. WOB WAS 18-23K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2000/1600 PSI. ON/OFF BOTTOM TORQUE WAS 10/10K. PU/SO/ROT WAS 230/135/169. 11.0 PPG, 36 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 8115'-8335', 220' IN 6 HRS, 36.6 FPH. MADE ONE BRUTAL SLIDE OF 25' IN 2.5 HRS. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2325/1825 PSI. ON/OFF BOTTOM TORQUE WAS 11/11K. PU/SO/ROT WAS 230/145/175. 11.2 PPG, 36 VIS WITH 5% LCM. SEEMS TO BE HOLDING.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/9/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 8335'-8618', 283' IN 6 HRS, 47.2 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2100/1850 PSI. ON/OFF BOTTOM TORQUE WAS 12/11K. PU/SO/ROT WAS 235/145/175. 11.5 PPG, 39 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	6:00 - 13:00	7.00	DRLPRO	02	D	P		DRILLED 8618'-8908', 290' IN 7 HRS, 41.4 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 90 SPM, GPM, MOTOR TURNING AT 93 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 138 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 350-500 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2200/1900 PSI. ON/OFF BOTTOM TORQUE WAS 14/12K. PU/SO/ROT WAS 255/142/180. 11.7 PPG, 41 VIS WITH 5% LCM. SEEMS TO BE HOLDING.
	13:00 - 14:00	1.00	DRLPRO	05	C	P		CIRCULATED BOTTOMS UP, NO GAS. 11.8 PPG IN AND 11.7 PPG OUT, 41 VIS WITH 5% LCM.
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE WHILE WE FLOW CHECKED WELL, NO FLOW.
	14:30 - 20:00	5.50	DRLPRO	06	A	P		STRAIGHT PULLED 3 STDS OFF BOTTOM WITH +/- 20,000 LBS OVERPULL. PUMPED SLUG AND BLEW DOWN TOPDRIVE. TRIPPED OUT OF THE HOLE, SAW A LITTLE OVERPULL AT 6850'. FLOW CHECKED WELL AT SHOE, NO FLOW.
	20:00 - 22:00	2.00	DRLPRO	06	A	P		LAID DOWN DIRECTIONAL TOOLS, BROKE BIT OFF AND LAID DOWN MUD MOTOR.
	22:00 - 22:30	0.50	DRLPRO	06	A	P		RIGGED UP PLUMB, DRAINED STACKED AND CHECKED ALIGNMENT OF RIG, GOOD, WILL NOT HAVE TO SKID.
	22:30 - 23:30	1.00	DRLPRO	06	A	P		MADE UP HUGHES Q506F SERIAL #7131035, W/6-16S WITH SDI .14 REV/GAL STRAIGHT MUD MOTOR AND NMDC.
	23:30 - 0:00	0.50	DRLPRO	06	A	P		TRIPPED IN THE HOLE.
3/10/2011	0:00 - 4:30	4.50	DRLPRO	06	A	P		CONTINUED TO TRIP IN THE HOLE.
	4:30 - 17:30	13.00	DRLPRO	02	D	P		DRILL 8908'-9420', 512' IN 13 HRS, 39.4 FPH. 100% ROTATING. WOB WAS 22-25K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-350 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2950/2650 PSI. ON/OFF BOTTOM TORQUE WAS 14/8K. PU/SO/ROT WAS 245/140/184. 12.2 PPG IN/12.1 PPG OUT, 41 VIS WITH 12% LCM. SLOWLY BRING UP LCM CONTENT DUE TO CONSTANT SEEPING, PUMPING LCM SWEEPS. LOST +/- 120 BBLS.
	17:30 - 18:00	0.50	DRLPRO	07	A	P		RIG SERVICE.
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DRILLED 9420'-9580', 160' IN 6 HRS, 26.7 FPH. WOB WAS 22-26K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 2950/2650 PSI. ON/OFF BOTTOM TORQUE WAS 12/12K. PU/SO/ROT WAS 253/186/150. 12.3 PPG IN/12.2 PPG OUT, 41 VIS WITH 12% LCM. HOLDING STEADY AT 13% LCM, LOST 25 BBLS.

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Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/11/2011	0:00 - 6:00	6.00	DRLPRO	02	D	P		DRILLED 9580'-9730', 150' IN 6 HRS, 25 FPH. 100% ROTATING. WOB WAS 22-26K, PUMP #1 AT 110 SPM, 495 GPM, MOTOR TURNING AT 69 RPM WITH TOP DRIVE AT 45 RPM FOR A TOTAL OF 114 RPM AT THE BIT. DIFFERENTIAL PRESSURE WAS 250-300 PSI. ON/OFF BOTTOM PUMP PRESSURE WAS 3000/2700 PSI. ON/OFF BOTTOM TORQUE WAS 12/12K. PU/SO/ROT WAS 255/188/155. 12.3 PPG IN/12.2 PPG OUT, 41 VIS WITH 12% LCM. HOLDING STEADY AT 12% LCM, LOST 20 BBLS.
	6:00 - 7:30	1.50	DRLPRO	05	C	P		CIRC/COND FOR WIPER TRIP. FINAL MW WAS 12.3 PPG, 41 VIS WITH 12% LCM.
	7:30 - 8:00	0.50	DRLPRO	05	J	P		FLOW CHECK WELL, NO FLOW.
	8:00 - 13:30	5.50	DRLPRO	06	E	P		PUMPED SLUG AND BLEW DOWN TOPDRIVE. STRAIGHT PULLED OFF BOTTOM, NO OVERPULL OR TIGHT SPOTS, TRIPPED OUT TO THE SHOE, FLOW CHECKED. TIH TO 4500'.
	13:30 - 14:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:00 - 14:30	0.50	DRLPRO	08	A	P		DOWN TIME, ST-80 REPAIR.
	14:30 - 17:00	2.50	DRLPRO	06	E	P		CONTINUED TO TIH, WASHED AND REAMED LAST 2 STDS TO BOTTOM, NO FILL.
	17:00 - 18:30	1.50	DRLPRO	05	C	P		CIRCULATE BOTTOMS UP, NO GAS, NO FLARE. 12.3 PPG, 41 VIS WITH 10% LCM.
	18:30 - 19:00	0.50	DRLPRO	10	B	P		FLOW CHECKED WHILE WE DROPPED A SURVEY.
	19:00 - 0:00	5.00	DRLPRO	06	D	P		PUMPED SLUG, BLEW DOWN TOPDRIVE AND STARTED LAYING DOWN DRILLPIPE. NO TITE SPOTS OR OVERPULLS.
3/12/2011	0:00 - 6:00	6.00	DRLPRO	06	A	P		CONTINUED LDDP. SHAKING OUT THE LCM OUT OF THE MUD IN THE TANKS. STOPPED AT THE SURFACE CASING SHOE AND CIRCULATED HOLE CLEAN OF LCM. RETRIEVED SURVEY TOOL, LD MUD MOTOR AND BROKE BIT OFF.
	6:00 - 7:30	1.50	DRLPRO	06	A	P		PULLED WEAR BUSHING AND INSTALLED LOGGING ADAPTER IN ROTATING HEAD.
	7:30 - 8:00	0.50	DRLPRO	21	E	Z		WAITED ON HALLIBURTON LOGGING, BAD DIRECTIONS.
	8:00 - 13:30	5.50	DRLPRO	11	E	P		RIGGED UP HALLIBURTON, AND SST LUBRICATOR. RAN FAST CAST CASING EVALUATION LOG FROM THE BASE OF THE SURFACE CASING TO SURFACE. RIGGED UP PRESSURE PUMP TO THE LUBRICATOR AND TRIED TO PRESSURE UP LUBRICATOR/WELL WHEN THE LOGS WERE AT 200'. COULD NOT PRESSURE UP SO JUST KEPT PUMPING FLUID WHILE LOGGING, RECORDED GOOD DATA WHILE PUMPING.
	13:30 - 15:30	2.00	CSG	12	A	P		RIGGED UP CASING CREW AND EQUIPMENT. CHANGED OUT BALES AND ELEVATORS.
	15:30 - 0:00	8.50	CSG	12	C	P		PICKED UP SHOE TRACK WITH SHOE WELDED ON AND CENTRALIZER ALREADY INSTALLED, MADE UP FLOAT COLLAR WITH THREAD LOCK. STARTED RUNNING 4.5", BTC, 11.6#, I80, R3 PRODUCTION CASING. WE ARE APPLING BESTOLIFE 2000 ARTIC GRADE PIPE DOPE TO BOTH THE BOX AND USING A MOUSTACHE BRUSH TO APPLY IT TO THE PIN END. WE ARE MAKING UP EACH CONNECTION TO THE MIDDLE OF THE "DIAMOND". CURRENTLY AT 8150'. FILLED AND CIRCULATE CASING AT 2590', 4300' AND 7255'.

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
3/13/2011	0:00 - 1:00	1.00	CSG	12	C	P		PICKED UP SHOE TRACK WITH SHOE WELDED ON AND CENTRALIZER ALREADY INSTALLED, MADE UP FLOAT COLLAR WITH THREAD LOCK. STARTED RUNNING 4.5", BTC, 11.6#, I80, R3 PRODUCTION CASING. WE ARE APPLING BESTOLIFE 2000 ARTIC GRADE PIPE DOPE TO BOTH THE BOX AND USING A MOUSTACHE BRUSH TO APPLY IT TO THE PIN END. WE ARE MAKING UP EACH CONNECTION TO THE MIDDLE OF THE "DIAMOND". CURRENTLY AT 8150'. FILLED AND CIRCULATE CASING AT 2590', 4300' AND 7255'. RAN 232 JTS, SET CASING AT 9716' WITH FLOAT COLLAR AT 9676', SET MARKER JTS AT 7442' AND 4854'.
	1:00 - 3:30	1.50	CSG	05	D	P		FILLED PIPE AND STARTED CIRCULATING WELL. RD CASING CREW AND EQUIPMENT, RIGGING UP CEMENTERS. CIRCULATING WITH FULL RETURNS AT 360 GPM (8 BPM) AT 1040 PSI. NEVER SAW ANY BOTTOMS UP GAS, MW IS 12.3 PPG, 41 VIS WITH 0% LCM (SHOOK OUT).
	3:30 - 6:30	3.00	CSG	12	E	P		PRESSURE TESTED LINES TO 5000 PSI. PUMPED 40 BBLS OF H20 SPACER AHEAD, PUMPED 180 BBLS (535 SX OF 12.7#, 1.89 CFT/SX, 9.68 GAL/SK) LEAD ECONO CEMENT. PUMPED 249 BBLS (1120 SX OF 14.3#, 1.25 YD, 5.41 GAL/SK) POZ PREMIUM 50/50 TAIL CEMENT. SHUT DOWN AND WASHED LINES, DROP 4.5" TOP PLUG, PUMP 151 BBLS OF H20 TREATED WITH BIOCIDE AND CLAY INHIBITOR. BUMPED PLUG AT 2564 PSI, PRESSURED UP CSG TO 3224 PSI AND HELD FOR 5 MIN. RELEASED PRESSURE AND FLOATS FLOWED A PENCIL STREAM SO REPRESSURED UP ON CASING TO 3835 PSI AND CHECKED FLOATS AGAIN, FLOATS DID NOT HOLD, STILL FLOWING A PENCIL STREAM, FLOWED BACK 2.00 BBLS. PRESSURE CASING UP TO 3320 PSI AND SHUT CEMENT HEAD IN. EST TOC TAIL @ 4200', LEAD @ 900'. HAD 100% RETURNS UNTIL THE LAST 25 BBLS THEN HAD 25% RETURNS AND LOST ALL RETURNS THE FINAL 18 BBLS. HAD +/- 20 BBLS SPACER WATER BACK TO SURFACE.
	6:30 - 9:00	2.50	CSG	13	A	P		WAIT ON CEMENT, RIGGING DOWN CEMENTERS, CLEANING PITS, PREPARING TO SKID. CHECKED FLOATS, HELD.
	9:00 - 11:30	2.50	CSG	14	A	P		ND BOPE, PICK UP BOP STACK AND SET C22 SLIPS WITH 135K. CUT OFF CASING AND LD JOINT. RELEASED RIG AT 1130 HRS ON SUNDAY MARCH 13TH.

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Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: H&P 311/311, CAPSTAR 310/310
Event: DRILLING	Start Date: 1/2/2011	End Date: 1/19/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 11:30	0.00	CSG					CONDUCTOR CASING: Cond. Depth set: 40 Cement sx used: 28 SPUD DATE/TIME: 1/19/2011 14:30 SURFACE HOLE: 11 Surface From depth: 40 Surface To depth: 2,610 Total SURFACE hours: 24.00 Surface Casing size: 8.625" # of casing joints ran: 58 Casing set MD: 2,585.0 # sx of cement: 225/200/65 Cement blend (ppg:) 15.8/15.8/11.8 Cement yield (ft3/sk): 1.15/1.15/3.82 # of bbls to surface: 0 Describe cement issues: LOST RETURNS 135 BBL INTO DISPLACEMENT Describe hole issues: NONE PRODUCTION: Rig Move/Skid start date/time: 3/5/2011 10:30 Rig Move/Skid finish date/time: 3/5/2011 11:30 Total MOVE hours: 1.0 Prod Rig Spud date/time: 3/5/2011 22:00 Rig Release date/time: 3/13/2011 11:30 Total SPUD to RR hours: 181.5 Planned depth MD 9,746 Planned depth TVD 9,579 Actual MD: 9,730 Actual TVD: 9,582 Open Wells $: AFE $: Open wells $/ft: PRODUCTION HOLE: 7.875 Prod. From depth: 2,626 Prod. To depth: 9,730 Total PROD hours: 109 Log Depth: N/A Production Casing size: 4 1/2 # of casing joints ran: 232 Casing set MD: 9,716.0 # sx of cement: 535 LEAD, 1120 TAIL Cement blend (ppg:) 12.7/14.3 Cement yield (ft3/sk): 1.89/1.25 Est. TOC (Lead & Tail) or 2 Stage : LEAD 900', TAIL 4200' Describe cement issues: FLOATS DID NOT HOLD, WAITED ON CEMENT 2.5 HRS. Describe hole issues: NONE DIRECTIONAL INFO: KOP: 199' Max angle: 19.03@3245' Departure: 1080.35@9518' Max dogleg MD: 4.51@3245'

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1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well Information

Well	NBU 921-25N3AS YELLOW		
Common Name	NBU 921-25N3AS		
Well Name	NBU 921-25N3AS	**Wellbore No.**	OH
Report No.	1	**Report Date**	4/25/2011
Project	UTAH-UINTAH	**Site**	NBU 921-25N PAD
Rig Name/No.		**Event**	COMPLETION
Start Date	4/25/2011	**End Date**	5/9/2011
Spud Date	1/17/2011	**Active Datum**	RKB @4,980.00ft (above Mean Sea Level)
UWI	SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0		

1.3 General

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

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	7,458.0 (ft)-9,514.0 (ft)	**Start Date/Time**	4/25/2011 12:00AM
No. of Intervals	38	**End Date/Time**	4/25/2011 12:00AM
Total Shots	216	**Net Perforation Interval**	66.00 (ft)
Avg Shot Density	3.27 (shot/ft)	**Final Surface Pressure**	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	WASATCH/			7,458.0	7,460.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	MESAVERDE/			7,524.0	7,526.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,570.0	7,572.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,592.0	7,594.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,668.0	7,670.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,734.0	7,736.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,760.0	7,762.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,852.0	7,854.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,904.0	7,906.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,938.0	7,940.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			7,976.0	7,978.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,081.0	8,082.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,099.0	8,101.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,158.0	8,159.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,188.0	8,190.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,203.0	8,204.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,382.0	8,383.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,402.0	8,403.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,435.0	8,437.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,454.0	8,456.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,477.0	8,478.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,523.0	8,524.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (ft)	CCL-TS (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
12:00AM	MESAVERDE/			8,548.0	8,550.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,598.0	8,600.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,672.0	8,674.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,806.0	8,808.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,884.0	8,886.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,918.0	8,920.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			8,994.0	8,996.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,084.0	9,086.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,118.0	9,120.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,182.0	9,184.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,205.0	9,207.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,370.0	9,371.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,448.0	9,450.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,468.0	9,469.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,494.0	9,496.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
12:00AM	MESAVERDE/			9,513.0	9,514.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

3 Plots

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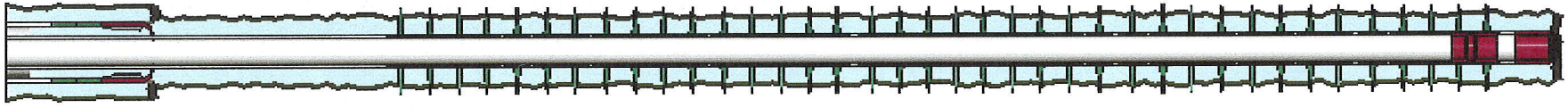
3.1 Wellbore Schematic



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Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/21/2011	7:00 - 18:00	11.00	COMP	33	C	P		PSI TEST CSG & BOTH FRAC VALVE T/ 1000 PSI FOR 15 MIN. LOST 00 PSI. PSI TEST T/ 3500 PSI FOR 15 MIN. LOST 00 PSI. PSI TEST T/ 7000 PSI FOR 30 MIN. LOST 00 PSI.
4/25/2011	7:00 - 18:00	11.00	COMP	37	B	P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH PERF AS PER STG 2 PERF DESIGN. FRAC STG 1)WHP 1441 PSI, BRK 2987 PSI @ 4.8 BPM. ISIP 2724 PSI, FG .73. PUMP 100 BBLS @ 52.2 BPM @ 6330 PSI = 86% HOLES OPEN. ISIP 2989 PSI, FG .76, NPI 265 PSI. MP 6684 PSI, MR 52.1 BPM, AP 5690 PSI, AR 48.1 BPM, PMP 1057 BBLS SW & 12,612 LBS OF 30/50 SND & 5412 LBS OF 20/40 SLC SND. TOTAL PROP 18,024 LBS. SWI, X-OVER FOR WL. PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 9257' P/U PERF AS PER STG 2 DESIGN.

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Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
4/26/2011	8:00 - 18:00	10.00	COMP	36	B	P		FRAC STG 2)WHP 2043 PSI, BRK 3461 PSI @ 4.2 BPM. ISIP 2715 PSI, FG .74. PUMP 100 BBLS @ 48.9 BPM @ 6120 PSI = 81% HOLES OPEN. ISIP 2838 PSI, FG .75, NPI 123 PSI. MP 6670 PSI, MR 49.7 BPM, AP 5325 PSI, AR 47.7 BPM, PMP 809 BBLS SW & 7963 LBS OF 30/50 SND & 2298 LBS OF 20/40 SLC SND. TOTAL PROP 10,261 LBS. WHILE PUMPING RESIN, MIDDLE SCREW ON BLENDER SHUT DOWN BY ITSELF. ONLY GOT 2298 # RESIN IN FORMATIONS. SWI, X-OVER FOR WL. 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 @ 9026' P/U PERF AS PER STG 3 PERF DESIGN. POOH. FRAC STG 3)BEFORE PUMPING THIS STG, HOOK UP PUMP 6. (DOWN FOR 41 MIN. HOOK UP PUMP & REPLACE GROUND VALVE.) WHP 1766 PSI, BRK 2470 PSI @ 4.3 BPM. ISIP 2062 PSI, FG .67. PUMP 100 BBLS @ 49.7 BPM @ 5523 PSI = 81% HOLES OPEN. ISIP 2601 PSI, FG .73, NPI 539 PSI. MP 6631 PSI, MR 52 BPM, AP 4925 PSI, AR 50.2 BPM, PMP 2715 BBLS SW & 54,341 LBS OF 30/50 SND & 4552 LBS OF 20/40 SLC SND. TOTAL PROP 58,893 LBS. SWI, X-OVER FOR WL. PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8724' P/U PERF AS PER STG 4 PERF DESIGN. POOH, SWIFN.
4/27/2011	6:30 - 6:45	0.25	COMP	48		P		HSM, HIGH PSI LINES & WL SAFETY

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Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		FRAC STG 4)WHP 1635 PSI, BRK 2525 PSI @ 4.6 BPM. ISIP 1986 PSI, FG .67. PUMP 100 BBLS @ 44.3 BPM @ 5472 PSI = 67% HOLES OPEN. ISIP 2446 PSI, FG .72, NPI 460 PSI. MP 6522 PSI, MR 51.8 BPM, AP 5317 PSI, AR 50.2 BPM, PMP 933 BBLS SW & 13,723 LBS OF 30/50 SND & 5035 LBS OF 20/40 SLC SND. TOTAL PROP 18,758 LBS. SWI, X-OVER FOR WL. PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG PHASING. RIH SET CBP @ 8508', PERF AS PERF STG 5 PERF DESIGN. POOH. FRAC STG 5)WHP 1860 PSI, BRK 2483 PSI @ 4.3 BPM. ISIP 2040 PSI, FG .00. PUMP 100 BBLS @ 50.8 BPM @ 5683 PSI = 80% HOLES OPEN. PUMPED 1810 LBS OF SAND. HAD TO SHUT DOWN BECAUSE GROUND VALVES ON 25K4CS WELL WERE LEAKING. SHUT DOWN FOR 2 HRS TO GREASE & CHANGE OUT GROUND VALVE. (START THIS STG OVER.) STARTED PUMPING AGAIN, GROUND VALVE ATARED LEAKING OUT OF GREASE ZERT ON VALVE. CHANGE OUT GREASE ZERT. ISIP 2513 PSI, FG .74, NPI 373 PSI. MP 6590 PSI, MR 49.1 BPM, AP 6315 PSI, AR 47.1 BPM, PMP 799 BBLS SW & 9205 LBS OF 30/50 SND & 5326 LBS OF 20/40 SLC SND. TOTAL PROP 14,531 LBS. SWI, X-OVER WL ((THE WHITE SAND TOTAL INCLUDE THE 1810 LBS WE PUMPED BEFORE WE SHUT DOWN THE 1ST TIME.)) PERF STG 6)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 & 120 DEG. RIH SET CBP @ 8254'. PERF AS PER STG 6 PERF DESIGN. POOH. FRAC STG 6)WHP 1568 PSI, BRK 2298 PSI @ 2.7 BPM. ISIP 1813 PSI, FG .66. PUMP 100 BBLS @ 48 BPM @ 5456 PSI = 72% HOLES OPEN. ISIP 2609 PSI, FG .76, NPI 796 PSI. MP 5895 PSI, MR 51.6 BPM, AP 4808 PSI, AR 50.6 BPM, PMP 902 BBLS SW & 12,927 LBS OF 30/50 SND & 5062 LBS OF 20/40 SLC SND. TOTAL PROP 17,989 LBS. SWI. X-OVER FOR WL. PERF STG 7)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 8028'. PERF AS PER STG 7 PERF DESIGN. POOH.
4/28/2011	6:30 - 6:45	0.25	COMP	48		P		HSM. STAND CLEAR OF POP-OFFS WHILE PUMPING. DONT WALK UNDER WL.

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Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 18:00	11.25	COMP	36	B	P		FRAC STG 7)WHP 1370 PSI, BRK 2865 PSI @ 4.0 BPM. ISIP 1851 PSI, FG .67. PUMP 100 BBLS @ 51.4 BPM @ 5740 PSI = 74% HOLES OPEN. ISIP 2600 PSI, FG .77, NPI 749 PSI. MP 6702 PSI, MR 52 BPM, AP 4682 PSI, AR 51.4 BPM, PMP 1816 BBLS SW & 28,422 LBS OF 30/50 SND & 5801 LBS OF 20/40 SLC SND. TOTAL PROP 34,223 LBS. SWI, X-OVER FOR WL. PERF 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 @ 7802'. PERF AS PER STG 8 PERF DESIGN. POOH. FRAC STG 8)WHP 1082 PSI, BRK 1810 PSI @ 3.6 BPM. ISIP 1370 PSI, FG .62. PUMP 100 BBLS @ 49.7 BPM @ 5070 PSI = 73% HOLES OPEN. ISIP 2073 PSI, FG .71, NPI 703 PSI. MP 6368 PSI, MR 50.2 BPM, AP 4769 PSI, AR 49.5 BPM, PMP 2099 BBLS SW & 38,495 LBS OF 30/50 SND & 4937 LBS OF 20/40 SLC SND. TOTAL PROP 43,432 LBS. SWI, X-OVER FOR WL. PERF 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 @ 7624'. PERF AS PER STG 9 PERF DESIGN. POOH. FRAC STG 9)WHP 1308 PSI, BRK 1950 PSI @ 4.4 BPM. ISIP 1605 PSI, FG .65. PUMP 100 BBLS @ 49.7 BPM @ 4604 PSI = 86% HOLES OPEN. ISIP 2325 PSI, FG .75, NPI 720 PSI. MP 4804 PSI, MR 49.6 BPM, AP 4222 PSI, AR 49.2 BPM, PMP 1973 BBLS SW & 57,832 LBS OF 30/50 SND & 10,277 LBS OF 20/40 SLC SND. TOTAL PROP 68,109 LBS. SWI, X-OVER FOR WL. PU 4 1/2 8K HAL CBP. RIH SET CBP @ 7400'. POOH, SWI. DONE FRACING THIS WELL. TOTAL SAND = 284,220 LBS TOTAL CLFL = 13,107 BBLS TOTAL SCALE = 1071 GAL TOTAL BIO = 287 GAL
5/6/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, PICKING UP TBG OFF FLOAT
	7:30 - 15:00	7.50	COMP	31	I	P		TALLY & PU 37/8 BIT, POBS & 233 JTS 23/8 L-80 OFF FLOAT. EOT @ 7387' RU DRLG EQUIP, PREP NTO D/O 5/9/11. SWI SDFWE
5/9/2011	7:00 - 7:30	0.50	COMP	48		P		HSM, DRILLING CBPS

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS YELLOW	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 8/8
Event: COMPLETION	Start Date: 4/25/2011	End Date: 5/9/2011
Active Datum: RKB @4,980.00ft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	7:30 - 14:00	6.50	COMP	44	C	P		BROKE CIRC CONVENTINAL, TEST BOPS TO 3,000# FOR 15 MIN LOST 0# PSI. RIH. C/O 5' SAND TAG 1ST PLUG @ 7400' DRL PLG IN 4 MIN 500# PSI INCREASE RIH. C/O 30' SAND TAG 2ND PLUG @ 7624' DRL PLG IN 5 MIN 400# PSI INCREASE RIH C/O 30' SAND TAG 3RD PLUG @ 7792' DRL PLG IN 5 MIN 200# PSI INCREASE RIH C/O 30' SAND TAG 4TH PLUG @ 8008' DRL PLG IN 5 MIN 400# PSI INCREASE RIH C/O 30' SAND TAG 5TH PLUG @ 8244' DRL PLG IN 5 MIN 500# PSI INCREASE RIH C/O 30' SAND TAG 6TH PLUG @ 8508' DRL PLG IN 6 MIN 500# PSI INCREASE RIH C/O 30' SAND TAG 7TH PLUG @ 8710' DRL PLG IN 6 MIN 500# PSI INCREASE. RIH C/O 60' SAND TAG 8TH PLUG @ 9026' DRL PLG IN 6 MIN 500# PSI INCREASE. RIH C/O 30' SAND TAG 9TH PLUG @ 9237' DRL PLG IN 6 MIN 600# PSI INCREASE. RIH C/O TO PBTD @ 9673' CIRC CLEAN, RACK OUT SWIVEL. L/D 19 JTS, LAND TBG ON 285 JTS 23/8 L-80. RD FLOOR, ND BOPS NU WH. PUMP OFF BIT, LET WELL SET FOR 30 MIN FOR BIT TO FALL. TURN WELL OVER TO FB CREW. RIG DOWN. FINAL SICP = 2000 FTP = 100 KB = 25' HANGER 41/16 = .83' 285 JTS 23/8 L-80 = 9012.68' (SURFAC VALVE LOCKED OPEN W/ POPOFF ASSEMBLY) 1.875 X/N & POBS = 2.20' EOT @ 9040.71' TWTR = 13,407 BBLS TWR = 1300 BBLS TWLTR = 12,107 BBLS 315 JTS HAULED OUT 285 LANDED 30 TO RETURN
	13:45 - 13:45	0.00	PROD	50				WELL TURNED TO SALES @ 1345 HR ON 5/9/11 - 1400 MCFD, 1920 BWPD, CP 2000#, FTP 100#, CK 20/64"
5/30/2011	7:00 -			50				WELL IP'D ON 5/30/11 - 3043 MCFD, 0 BOPD, 390 BWPD, CP 1357#, FTP 1070#, CK 22/64", LP 143#, 24 HRS

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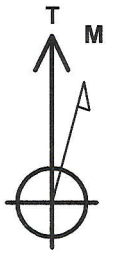
Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT UTM12
Site: NBU 921-25N Pad
Well: NBU 921-25N3AS
Wellbore: OH
Design: OH

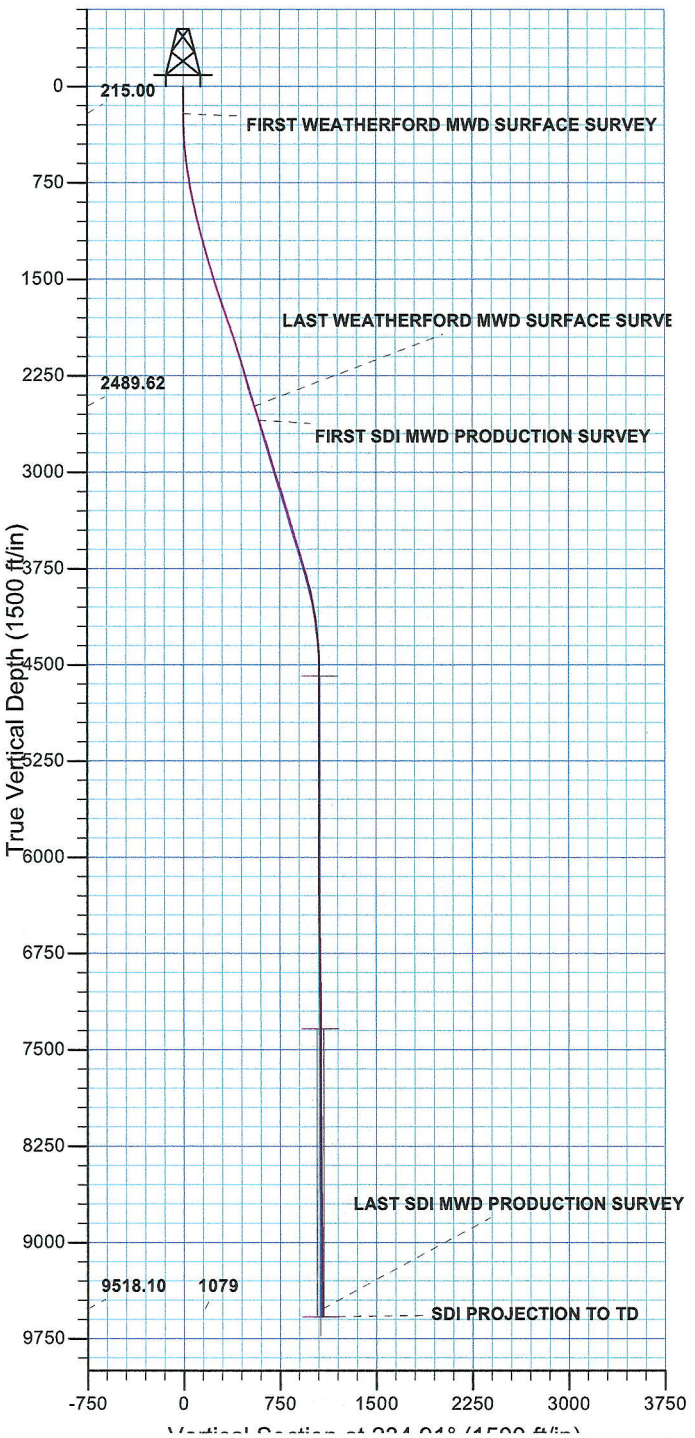
Anadarko Petroleum Corporation

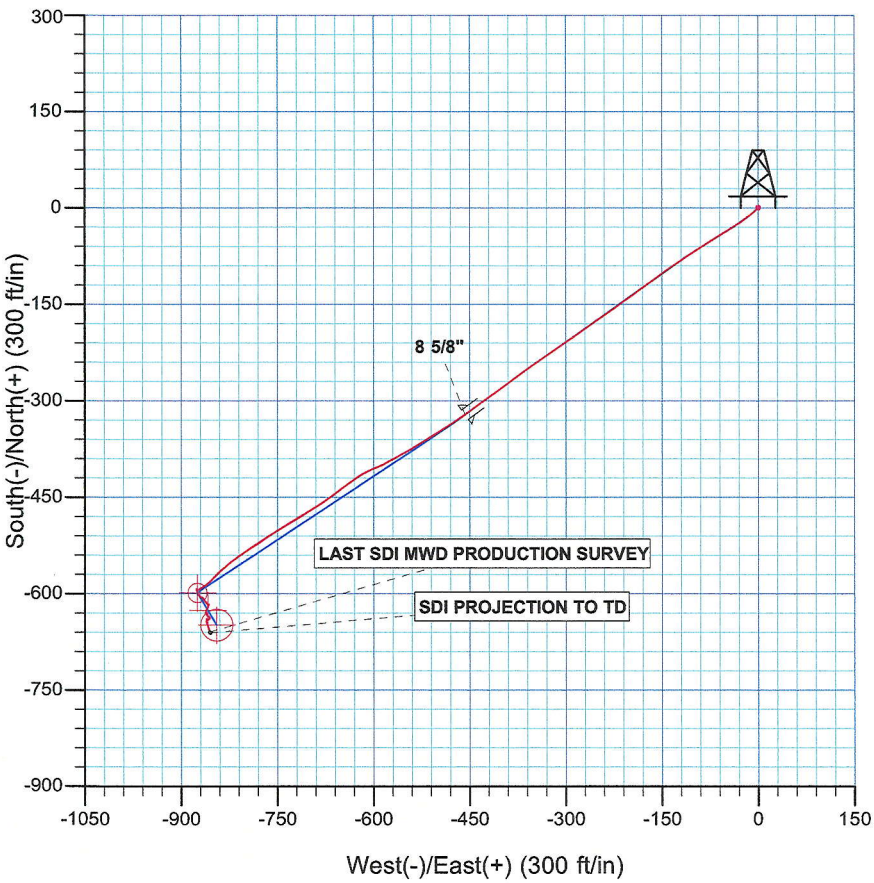
WELL DETAILS: NBU 921-25N3AS					
GL 4955' & RKB 25' @ 4980.00ft (H&P 311)					
+N/-S	+E/-W	Northing	Easting	Latittude	Longitude
0.00	0.00	14530655.97	2060602.02	40° 0' 10.624 N	109° 29' 58.618 W



Azimuths to True North
Magnetic North: 11.13°

Magnetic Field
Strength: 52374.6snT
Dip Angle: 65.88°
Date: 01/05/2011
Model: IGRF2010





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

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Survey: Survey #2 SDI MWD PRODUCTION (NBU 921-25N3AS/OH
Created By: RobertScott Date: 14:21, March 23 2011

Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Design: OH

Standard Survey Report

23 March, 2011

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Anadarko
Petroleum Corporation

Scientific Drilling
Rocky Mountain Operations

SDI
Survey Report

Anadarko Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	0.00 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	01/05/2011	11.13	65.88	52,375

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	234.91

Survey Program **Date** 03/23/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
16.00	2,566.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard
2,679.00	9,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

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
16.00	0.00	0.00	16.00	0.00	0.00	0.00	0.00	0.00	0.00
215.00	0.23	305.76	215.00	0.23	-0.32	0.13	0.12	0.12	0.00
FIRST WEATHERFORD MWD SURFACE SURVEY									
308.00	1.56	214.60	307.99	-0.70	-1.19	1.38	1.70	1.43	-98.02
401.00	3.34	226.10	400.90	-3.62	-3.87	5.24	1.98	1.91	12.37
496.00	5.19	228.66	495.63	-8.38	-9.09	12.25	1.96	1.95	2.69
591.00	7.19	233.16	590.07	-14.78	-17.07	22.47	2.16	2.11	4.74
687.00	9.13	234.54	685.10	-22.80	-28.08	36.09	2.03	2.02	1.44
782.00	10.38	238.04	778.72	-31.71	-41.48	52.17	1.46	1.32	3.68

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
878.00	11.75	238.66	872.94	-41.37	-57.17	70.56	1.43	1.43	0.65
972.00	13.25	238.16	964.71	-52.03	-74.50	90.87	1.60	1.60	-0.53
1,067.00	13.88	237.29	1,057.06	-63.93	-93.34	113.12	0.70	0.66	-0.92
1,162.00	14.63	236.66	1,149.13	-76.68	-112.95	136.50	0.81	0.79	-0.66
1,257.00	15.04	234.83	1,240.96	-90.38	-133.05	160.82	0.66	0.43	-1.93
1,352.00	15.56	234.54	1,332.60	-104.87	-153.50	185.89	0.55	0.55	-0.31
1,447.00	16.56	234.16	1,423.89	-120.19	-174.85	212.17	1.06	1.05	-0.40
1,542.00	17.31	233.66	1,514.77	-136.49	-197.21	239.83	0.80	0.79	-0.53
1,635.00	18.94	235.04	1,603.15	-153.34	-220.73	268.76	1.81	1.75	1.48
1,731.00	19.38	234.41	1,693.83	-171.54	-246.45	300.27	0.51	0.46	-0.66
1,826.00	18.75	234.54	1,783.62	-189.57	-271.70	331.30	0.66	-0.66	0.14
1,921.00	18.38	236.29	1,873.68	-206.74	-296.60	361.54	0.70	-0.39	1.84
2,016.00	19.00	235.54	1,963.67	-223.80	-321.81	391.98	0.70	0.65	-0.79
2,111.00	16.81	234.91	2,054.06	-240.45	-345.80	421.18	2.31	-2.31	-0.66
2,207.00	16.38	233.16	2,146.06	-256.54	-368.00	448.59	0.69	-0.45	-1.82
2,301.00	16.63	233.54	2,236.19	-272.49	-389.42	475.29	0.29	0.27	0.40
2,395.00	17.00	234.04	2,326.17	-288.55	-411.36	502.47	0.42	0.39	0.53
2,491.00	17.25	235.16	2,417.91	-304.92	-434.41	530.74	0.43	0.26	1.17
2,566.00	16.85	233.48	2,489.62	-317.74	-452.27	552.73	0.85	-0.53	-2.24
LAST WEATHERFORD MWD SURFACE SURVEY									
2,679.00	17.15	236.21	2,597.68	-336.75	-479.28	585.76	0.75	0.27	2.42
FIRST SDI MWD PRODUCTION SURVEY									
2,773.00	17.94	239.02	2,687.31	-351.92	-503.21	614.05	1.23	0.84	2.99
2,868.00	16.97	237.17	2,777.94	-366.96	-527.40	642.50	1.18	-1.02	-1.95
2,962.00	17.77	242.03	2,867.65	-381.13	-551.60	670.44	1.76	0.85	5.17
3,057.00	15.48	240.51	2,958.68	-394.17	-575.44	697.45	2.45	-2.41	-1.60
3,151.00	18.91	248.25	3,048.47	-406.00	-600.52	724.77	4.38	3.65	8.23
3,245.00	19.03	235.34	3,137.41	-420.36	-627.28	754.92	4.46	0.13	-13.73
3,340.00	16.71	231.81	3,227.82	-437.62	-650.76	784.05	2.69	-2.44	-3.72
3,434.00	17.15	235.59	3,317.75	-453.80	-672.82	811.41	1.26	0.47	4.02
3,529.00	15.30	237.79	3,408.96	-468.40	-694.98	837.93	2.05	-1.95	2.32
3,623.00	16.09	238.49	3,499.46	-481.82	-716.58	863.32	0.86	0.84	0.74
3,718.00	17.85	239.11	3,590.32	-496.18	-740.30	890.98	1.86	1.85	0.65
3,812.00	16.27	236.38	3,680.18	-510.86	-763.63	918.52	1.88	-1.68	-2.90
3,907.00	16.80	236.03	3,771.25	-525.90	-786.10	945.55	0.57	0.56	-0.37
4,001.00	15.30	236.91	3,861.58	-540.27	-807.76	971.52	1.62	-1.60	0.94
4,095.00	12.22	229.79	3,952.88	-553.46	-825.75	993.84	3.73	-3.28	-7.57
4,190.00	11.17	228.30	4,045.91	-566.08	-840.30	1,012.99	1.15	-1.11	-1.57
4,284.00	8.38	221.96	4,138.54	-577.23	-851.68	1,028.71	3.18	-2.97	-6.74
4,379.00	6.07	230.67	4,232.78	-585.56	-860.19	1,040.47	2.68	-2.43	9.17
4,473.00	4.92	242.36	4,326.35	-590.58	-867.61	1,049.42	1.70	-1.22	12.44
4,567.00	2.99	245.17	4,420.12	-593.48	-873.41	1,055.83	2.06	-2.05	2.99
4,662.00	0.98	351.94	4,515.08	-593.72	-875.77	1,057.90	3.58	-2.12	112.39

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
4,756.00	0.35	336.66	4,609.07	-592.66	-876.00	1,057.48	0.69	-0.67	-16.26
4,851.00	0.26	166.51	4,704.07	-592.60	-876.06	1,057.50	0.64	-0.09	-179.11
4,945.00	0.53	204.83	4,798.07	-593.20	-876.19	1,057.96	0.39	0.29	40.77
5,039.00	1.96	158.18	4,892.04	-595.09	-875.78	1,058.70	1.75	1.52	-49.63
5,134.00	1.76	146.47	4,986.99	-597.82	-874.37	1,059.11	0.45	-0.21	-12.33
5,228.00	2.07	158.80	5,080.94	-600.60	-872.96	1,059.56	0.55	0.33	13.12
5,322.00	1.76	159.23	5,174.89	-603.53	-871.83	1,060.32	0.33	-0.33	0.46
5,417.00	0.70	101.12	5,269.87	-605.01	-870.74	1,060.28	1.59	-1.12	-61.17
5,511.00	0.86	107.15	5,363.86	-605.33	-869.51	1,059.45	0.19	0.17	6.41
5,605.00	0.88	99.19	5,457.85	-605.65	-868.12	1,058.51	0.13	0.02	-8.47
5,700.00	0.53	117.18	5,552.84	-605.97	-867.01	1,057.78	0.43	-0.37	18.94
5,794.00	1.49	143.31	5,646.83	-607.15	-865.89	1,057.54	1.11	1.02	27.80
5,889.00	1.67	145.77	5,741.79	-609.28	-864.38	1,057.53	0.20	0.19	2.59
5,983.00	1.76	148.84	5,835.75	-611.65	-862.86	1,057.65	0.14	0.10	3.27
6,077.00	1.93	147.61	5,929.70	-614.22	-861.26	1,057.82	0.19	0.18	-1.31
6,172.00	1.23	124.32	6,024.66	-616.15	-859.56	1,057.54	0.99	-0.74	-24.52
6,266.00	0.79	99.45	6,118.65	-616.82	-858.09	1,056.72	0.65	-0.47	-26.46
6,361.00	0.53	62.01	6,213.64	-616.72	-857.06	1,055.82	0.52	-0.27	-39.41
6,455.00	1.14	212.56	6,307.64	-617.31	-857.18	1,056.25	1.73	0.65	160.16
6,549.00	1.14	202.02	6,401.62	-618.96	-858.03	1,057.90	0.22	0.00	-11.21
6,644.00	1.23	207.11	6,496.60	-620.75	-858.85	1,059.60	0.15	0.09	5.36
6,738.00	1.32	200.79	6,590.58	-622.66	-859.69	1,061.39	0.18	0.10	-6.72
6,832.00	1.49	203.42	6,684.55	-624.79	-860.56	1,063.33	0.19	0.18	2.80
6,927.00	1.58	206.50	6,779.52	-627.10	-861.64	1,065.53	0.13	0.09	3.24
7,021.00	1.06	163.08	6,873.49	-629.09	-861.96	1,066.94	1.16	-0.55	-46.19
7,115.00	1.32	151.57	6,967.47	-630.87	-861.20	1,067.34	0.37	0.28	-12.24
7,210.00	1.41	149.02	7,062.44	-632.84	-860.07	1,067.55	0.11	0.09	-2.68
7,304.00	1.58	147.44	7,156.41	-634.92	-858.78	1,067.69	0.19	0.18	-1.68
7,399.00	0.53	40.12	7,251.40	-635.69	-857.79	1,067.32	1.91	-1.11	-112.97
7,493.00	0.35	78.44	7,345.40	-635.30	-857.23	1,066.64	0.36	-0.19	40.77
7,587.00	0.44	128.45	7,439.40	-635.47	-856.67	1,066.27	0.37	0.10	53.20
7,682.00	0.70	169.06	7,534.39	-636.26	-856.27	1,066.41	0.49	0.27	42.75
7,776.00	0.53	182.86	7,628.39	-637.26	-856.18	1,066.91	0.24	-0.18	14.68
7,870.00	0.97	171.52	7,722.38	-638.48	-856.09	1,067.53	0.49	0.47	-12.06
7,964.00	0.70	266.44	7,816.37	-639.30	-856.54	1,068.38	1.32	-0.29	100.98
8,059.00	0.62	232.16	7,911.37	-639.66	-857.53	1,069.39	0.42	-0.08	-36.08
8,153.00	0.79	205.53	8,005.36	-640.55	-858.21	1,070.46	0.39	0.18	-28.33
8,247.00	0.98	325.71	8,099.35	-640.47	-858.94	1,071.01	1.64	0.20	127.85
8,342.00	0.62	312.76	8,194.34	-639.45	-859.78	1,071.11	0.42	-0.38	-13.63
8,436.00	0.44	311.62	8,288.34	-638.87	-860.42	1,071.30	0.19	-0.19	-1.21
8,530.00	0.26	161.85	8,382.34	-638.83	-860.62	1,071.45	0.72	-0.19	-159.33
8,625.00	0.62	176.53	8,477.34	-639.55	-860.53	1,071.78	0.39	0.38	15.45
8,719.00	1.14	188.48	8,571.32	-640.98	-860.63	1,072.69	0.58	0.55	12.71
8,814.00	1.41	193.93	8,666.30	-643.05	-861.05	1,074.22	0.31	0.28	5.74

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Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

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)
9,666.00	1.40	128.00	9,518.10	-659.63	-855.38	1,079.11	0.18	0.00	-7.74
LAST SDI MWD PRODUCTION SURVEY									
9,730.00	1.40	128.00	9,582.08	-660.60	-854.14	1,078.65	0.00	0.00	0.00
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
215.00	215.00	0.23	-0.32	FIRST WEATHERFORD MWD SURFACE SURVEY
2,566.00	2,489.62	-317.74	-452.27	LAST WEATHERFORD MWD SURFACE SURVEY
2,679.00	2,597.68	-336.75	-479.28	FIRST SDI MWD PRODUCTION SURVEY
9,666.00	9,518.10	-659.63	-855.38	LAST SDI MWD PRODUCTION SURVEY
9,730.00	9,582.08	-660.60	-854.14	SDI PROJECTION TO TD

Checked By: _____ Approved By: _____ Date: _____

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Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
NBU 921-25N Pad
NBU 921-25N3AS

OH

Design: OH

Survey Report - Geographic

23 March, 2011

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Anadarko
Petroleum Corporation

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Project Uintah County, UT UTM12

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

Site NBU 921-25N Pad, SEC 25 T9S R21E

Site Position:		**Northing:**	14,530,655.41 usft	**Latitude:**	40° 0' 10.616 N
From:	Lat/Long	**Easting:**	2,060,612.11 usft	**Longitude:**	109° 29' 58.488 W
Position Uncertainty:	0.00 ft	**Slot Radius:**	13.200 in	**Grid Convergence:**	0.96 °

Well NBU 921-25N3AS, 1158' FSL 2575' FWL

Well Position	**+N/-S**	0.00 ft	**Northing:**	14,530,655.97 usft	**Latitude:**	40° 0' 10.624 N
	+E/-W	0.00 ft	**Easting:**	2,060,602.02 usft	**Longitude:**	109° 29' 58.618 W
Position Uncertainty		0.00 ft	**Wellhead Elevation:**	ft	**Ground Level:**	4,955.00 ft

Wellbore OH

Magnetics	**Model Name**	**Sample Date**	**Declination (°)**	**Dip Angle (°)**	**Field Strength (nT)**
	IGRF2010	01/05/2011	11.13	65.88	52,375

Design OH

Audit Notes:

Version:	1.0	**Phase:**	ACTUAL	**Tie On Depth:**	0.00

Vertical Section:	**Depth From (TVD) (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Direction (°)**
	0.00	0.00	0.00	234.91

Survey Program **Date** 03/23/2011

From (ft)	**To (ft)**	**Survey (Wellbore)**	**Tool Name**	**Description**
16.00	2,566.00	Survey #1 WEATHERFORD MWD SURFA	MWD	MWD - Standard
2,679.00	9,730.00	Survey #2 SDI MWD PRODUCTION (OH)	MWD SDI	MWD - Standard ver 1.0.1

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Survey

Measured Depth (ft)	**Inclination (°)**	**Azimuth (°)**	**Vertical Depth (ft)**	**+N/-S (ft)**	**+E/-W (ft)**	**Map Northing (usft)**	**Map Easting (usft)**	**Latitude**	**Longitude**
0.00	0.00	0.00	0.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
16.00	0.00	0.00	16.00	0.00	0.00	14,530,655.97	2,060,602.02	40° 0' 10.624 N	109° 29' 58.618 W
215.00	0.23	305.76	215.00	0.23	-0.32	14,530,656.20	2,060,601.69	40° 0' 10.626 N	109° 29' 58.622 W
FIRST WEATHERFORD MWD SURFACE SURVEY									
308.00	1.56	214.60	307.99	-0.70	-1.19	14,530,655.25	2,060,600.83	40° 0' 10.617 N	109° 29' 58.633 W
401.00	3.34	226.10	400.90	-3.62	-3.87	14,530,652.29	2,060,598.21	40° 0' 10.588 N	109° 29' 58.667 W
496.00	5.19	228.66	495.63	-8.38	-9.09	14,530,647.44	2,060,593.07	40° 0' 10.541 N	109° 29' 58.734 W
591.00	7.19	233.16	590.07	-14.78	-17.07	14,530,640.91	2,060,585.20	40° 0' 10.477 N	109° 29' 58.837 W
687.00	9.13	234.54	685.10	-22.80	-28.08	14,530,632.70	2,060,574.32	40° 0' 10.398 N	109° 29' 58.979 W
782.00	10.38	238.04	778.72	-31.71	-41.48	14,530,623.57	2,060,561.07	40° 0' 10.310 N	109° 29' 59.151 W
878.00	11.75	238.66	872.94	-41.37	-57.17	14,530,613.65	2,060,545.55	40° 0' 10.215 N	109° 29' 59.352 W

Company:	Kerr McGee Oil and Gas Onshore LP	**Local Co-ordinate Reference:**	Well NBU 921-25N3AS
Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
972.00	13.25	238.16	964.71	-52.03	-74.50	14,530,602.70	2,060,528.40	40° 0' 10.109 N	109° 29' 59.575 W
1,067.00	13.88	237.29	1,057.06	-63.93	-93.34	14,530,590.48	2,060,509.77	40° 0' 9.992 N	109° 29' 59.817 W
1,162.00	14.63	236.66	1,149.13	-76.68	-112.95	14,530,577.40	2,060,490.38	40° 0' 9.866 N	109° 30' 0.069 W
1,257.00	15.04	234.83	1,240.96	-90.38	-133.05	14,530,563.37	2,060,470.51	40° 0' 9.730 N	109° 30' 0.328 W
1,352.00	15.56	234.54	1,332.60	-104.87	-153.50	14,530,548.54	2,060,450.30	40° 0' 9.587 N	109° 30' 0.590 W
1,447.00	16.56	234.16	1,423.89	-120.19	-174.85	14,530,532.86	2,060,429.21	40° 0' 9.436 N	109° 30' 0.865 W
1,542.00	17.31	233.66	1,514.77	-136.49	-197.21	14,530,516.18	2,060,407.13	40° 0' 9.274 N	109° 30' 1.152 W
1,635.00	18.94	235.04	1,603.15	-153.34	-220.73	14,530,498.94	2,060,383.90	40° 0' 9.108 N	109° 30' 1.454 W
1,731.00	19.38	234.41	1,693.83	-171.54	-246.45	14,530,480.31	2,060,358.49	40° 0' 8.928 N	109° 30' 1.785 W
1,826.00	18.75	234.54	1,783.62	-189.57	-271.70	14,530,461.86	2,060,333.54	40° 0' 8.750 N	109° 30' 2.110 W
1,921.00	18.38	236.29	1,873.68	-206.74	-296.60	14,530,444.27	2,060,308.94	40° 0' 8.580 N	109° 30' 2.430 W
2,016.00	19.00	235.54	1,963.67	-223.80	-321.81	14,530,426.79	2,060,284.02	40° 0' 8.411 N	109° 30' 2.754 W
2,111.00	16.81	234.91	2,054.06	-240.45	-345.80	14,530,409.74	2,060,260.31	40° 0' 8.247 N	109° 30' 3.062 W
2,207.00	16.38	233.16	2,146.06	-256.54	-368.00	14,530,393.27	2,060,238.39	40° 0' 8.088 N	109° 30' 3.347 W
2,301.00	16.63	233.54	2,236.19	-272.49	-389.42	14,530,376.97	2,060,217.24	40° 0' 7.930 N	109° 30' 3.623 W
2,395.00	17.00	234.04	2,326.17	-288.55	-411.36	14,530,360.54	2,060,195.57	40° 0' 7.771 N	109° 30' 3.905 W
2,491.00	17.25	235.16	2,417.91	-304.92	-434.41	14,530,343.78	2,060,172.81	40° 0' 7.610 N	109° 30' 4.201 W
2,566.00	16.85	233.48	2,489.62	-317.74	-452.27	14,530,330.66	2,060,155.16	40° 0' 7.483 N	109° 30' 4.430 W
LAST WEATHERFORD MWD SURFACE SURVEY									
2,679.00	17.15	236.21	2,597.68	-336.75	-479.28	14,530,311.20	2,060,128.48	40° 0' 7.295 N	109° 30' 4.777 W
FIRST SDI MWD PRODUCTION SURVEY									
2,773.00	17.94	239.02	2,687.31	-351.92	-503.21	14,530,295.64	2,060,104.80	40° 0' 7.145 N	109° 30' 5.085 W
2,868.00	16.97	237.17	2,777.94	-366.96	-527.40	14,530,280.18	2,060,080.87	40° 0' 6.996 N	109° 30' 5.396 W
2,962.00	17.77	242.03	2,867.65	-381.13	-551.60	14,530,265.61	2,060,056.91	40° 0' 6.856 N	109° 30' 5.707 W
3,057.00	15.48	240.51	2,958.68	-394.17	-575.44	14,530,252.17	2,060,033.29	40° 0' 6.727 N	109° 30' 6.013 W
3,151.00	18.91	248.25	3,048.47	-406.00	-600.52	14,530,239.93	2,060,008.42	40° 0' 6.610 N	109° 30' 6.336 W
3,245.00	19.03	235.34	3,137.41	-420.36	-627.28	14,530,225.11	2,059,981.90	40° 0' 6.468 N	109° 30' 6.680 W
3,340.00	16.71	231.81	3,227.82	-437.62	-650.76	14,530,207.46	2,059,958.71	40° 0' 6.298 N	109° 30' 6.981 W
3,434.00	17.15	235.59	3,317.75	-453.80	-672.82	14,530,190.91	2,059,936.93	40° 0' 6.138 N	109° 30' 7.265 W
3,529.00	15.30	237.79	3,408.96	-468.40	-694.98	14,530,175.94	2,059,915.02	40° 0' 5.994 N	109° 30' 7.550 W
3,623.00	16.09	238.49	3,499.46	-481.82	-716.58	14,530,162.16	2,059,893.65	40° 0' 5.861 N	109° 30' 7.827 W
3,718.00	17.85	239.11	3,590.32	-496.18	-740.30	14,530,147.40	2,059,870.18	40° 0' 5.719 N	109° 30' 8.132 W
3,812.00	16.27	236.38	3,680.18	-510.86	-763.63	14,530,132.32	2,059,847.10	40° 0' 5.574 N	109° 30' 8.432 W
3,907.00	16.80	236.03	3,771.25	-525.90	-786.10	14,530,116.91	2,059,824.88	40° 0' 5.425 N	109° 30' 8.721 W
4,001.00	15.30	236.91	3,861.58	-540.27	-807.76	14,530,102.18	2,059,803.47	40° 0' 5.283 N	109° 30' 8.999 W
4,095.00	12.22	229.79	3,952.88	-553.46	-825.75	14,530,088.69	2,059,785.70	40° 0' 5.153 N	109° 30' 9.230 W
4,190.00	11.17	228.30	4,045.91	-566.08	-840.30	14,530,075.83	2,059,771.37	40° 0' 5.028 N	109° 30' 9.417 W
4,284.00	8.38	221.96	4,138.54	-577.23	-851.68	14,530,064.49	2,059,760.18	40° 0' 4.918 N	109° 30' 9.563 W
4,379.00	6.07	230.67	4,232.78	-585.56	-860.19	14,530,056.01	2,059,751.80	40° 0' 4.835 N	109° 30' 9.673 W
4,473.00	4.92	242.36	4,326.35	-590.58	-867.61	14,530,050.87	2,059,744.47	40° 0' 4.786 N	109° 30' 9.768 W
4,567.00	2.99	245.17	4,420.12	-593.48	-873.41	14,530,047.87	2,059,738.73	40° 0' 4.757 N	109° 30' 9.843 W
4,662.00	0.98	351.94	4,515.08	-593.72	-875.77	14,530,047.59	2,059,736.37	40° 0' 4.755 N	109° 30' 9.873 W
4,756.00	0.35	336.66	4,609.07	-592.66	-876.00	14,530,048.65	2,059,736.12	40° 0' 4.765 N	109° 30' 9.876 W
4,851.00	0.26	166.51	4,704.07	-592.60	-876.06	14,530,048.71	2,059,736.06	40° 0' 4.766 N	109° 30' 9.877 W
4,945.00	0.53	204.83	4,798.07	-593.20	-876.19	14,530,048.10	2,059,735.94	40° 0' 4.760 N	109° 30' 9.879 W
5,039.00	1.96	158.18	4,892.04	-595.09	-875.78	14,530,046.22	2,059,736.38	40° 0' 4.741 N	109° 30' 9.873 W
5,134.00	1.76	146.47	4,986.99	-597.82	-874.37	14,530,043.52	2,059,737.84	40° 0' 4.714 N	109° 30' 9.855 W
5,228.00	2.07	158.80	5,080.94	-600.60	-872.96	14,530,040.76	2,059,739.30	40° 0' 4.687 N	109° 30' 9.837 W
5,322.00	1.76	159.23	5,174.89	-603.53	-871.83	14,530,037.85	2,059,740.47	40° 0' 4.658 N	109° 30' 9.822 W
5,417.00	0.70	101.12	5,269.87	-605.01	-870.74	14,530,036.39	2,059,741.58	40° 0' 4.643 N	109° 30' 9.808 W
5,511.00	0.86	107.15	5,363.86	-605.33	-869.51	14,530,036.09	2,059,742.82	40° 0' 4.640 N	109° 30' 9.793 W
5,605.00	0.88	99.19	5,457.85	-605.65	-868.12	14,530,035.79	2,059,744.22	40° 0' 4.637 N	109° 30' 9.775 W
5,700.00	0.53	117.18	5,552.84	-605.97	-867.01	14,530,035.49	2,059,745.33	40° 0' 4.634 N	109° 30' 9.760 W
5,794.00	1.49	143.31	5,646.83	-607.15	-865.89	14,530,034.33	2,059,746.47	40° 0' 4.622 N	109° 30' 9.746 W
5,889.00	1.67	145.77	5,741.79	-609.28	-864.38	14,530,032.22	2,059,748.02	40° 0' 4.601 N	109° 30' 9.727 W

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Scientific Drilling
Rocky Mountain Operations

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Survey Report - Geographic

Anadarko Petroleum Corporation

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Project:	Uintah County, UT UTM12	**TVD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Site:	NBU 921-25N Pad	**MD Reference:**	GL 4955' & RKB 25' @ 4980.00ft (H&P 311)
Well:	NBU 921-25N3AS	**North Reference:**	True
Wellbore:	OH	**Survey Calculation Method:**	Minimum Curvature
Design:	OH	**Database:**	EDM5000-RobertS-Local

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,983.00	1.76	148.84	5,835.75	-611.65	-862.86	14,530,029.88	2,059,749.58	40° 0' 4.578 N	109° 30' 9.707 W
6,077.00	1.93	147.61	5,929.70	-614.22	-861.26	14,530,027.34	2,059,751.22	40° 0' 4.552 N	109° 30' 9.687 W
6,172.00	1.23	124.32	6,024.66	-616.15	-859.56	14,530,025.44	2,059,752.95	40° 0' 4.533 N	109° 30' 9.665 W
6,266.00	0.79	99.45	6,118.65	-616.82	-858.09	14,530,024.79	2,059,754.43	40° 0' 4.526 N	109° 30' 9.646 W
6,361.00	0.53	62.01	6,213.64	-616.72	-857.06	14,530,024.91	2,059,755.46	40° 0' 4.527 N	109° 30' 9.633 W
6,455.00	1.14	212.56	6,307.64	-617.31	-857.18	14,530,024.32	2,059,755.35	40° 0' 4.522 N	109° 30' 9.634 W
6,549.00	1.14	202.02	6,401.62	-618.96	-858.03	14,530,022.65	2,059,754.53	40° 0' 4.505 N	109° 30' 9.645 W
6,644.00	1.23	207.11	6,496.60	-620.75	-858.85	14,530,020.85	2,059,753.74	40° 0' 4.488 N	109° 30' 9.656 W
6,738.00	1.32	200.79	6,590.58	-622.66	-859.69	14,530,018.93	2,059,752.93	40° 0' 4.469 N	109° 30' 9.666 W
6,832.00	1.49	203.42	6,684.55	-624.79	-860.56	14,530,016.78	2,059,752.09	40° 0' 4.448 N	109° 30' 9.678 W
6,927.00	1.58	206.50	6,779.52	-627.10	-861.64	14,530,014.46	2,059,751.06	40° 0' 4.425 N	109° 30' 9.691 W
7,021.00	1.06	163.08	6,873.49	-629.09	-861.96	14,530,012.46	2,059,750.77	40° 0' 4.405 N	109° 30' 9.696 W
7,115.00	1.32	151.57	6,967.47	-630.87	-861.20	14,530,010.69	2,059,751.56	40° 0' 4.388 N	109° 30' 9.686 W
7,210.00	1.41	149.02	7,062.44	-632.84	-860.07	14,530,008.75	2,059,752.72	40° 0' 4.368 N	109° 30' 9.671 W
7,304.00	1.58	147.44	7,156.41	-634.92	-858.78	14,530,006.68	2,059,754.05	40° 0' 4.348 N	109° 30' 9.655 W
7,399.00	0.53	40.12	7,251.40	-635.69	-857.79	14,530,005.93	2,059,755.05	40° 0' 4.340 N	109° 30' 9.642 W
7,493.00	0.35	78.44	7,345.40	-635.30	-857.23	14,530,006.33	2,059,755.60	40° 0' 4.344 N	109° 30' 9.635 W
7,587.00	0.44	128.45	7,439.40	-635.47	-856.67	14,530,006.18	2,059,756.17	40° 0' 4.342 N	109° 30' 9.628 W
7,682.00	0.70	169.06	7,534.39	-636.26	-856.27	14,530,005.39	2,059,756.58	40° 0' 4.334 N	109° 30' 9.622 W
7,776.00	0.53	182.86	7,628.39	-637.26	-856.18	14,530,004.39	2,059,756.68	40° 0' 4.324 N	109° 30' 9.621 W
7,870.00	0.97	171.52	7,722.38	-638.48	-856.09	14,530,003.17	2,059,756.80	40° 0' 4.312 N	109° 30' 9.620 W
7,964.00	0.70	266.44	7,816.37	-639.30	-856.54	14,530,002.34	2,059,756.36	40° 0' 4.304 N	109° 30' 9.626 W
8,059.00	0.62	232.16	7,911.37	-639.66	-857.53	14,530,001.97	2,059,755.38	40° 0' 4.301 N	109° 30' 9.639 W
8,153.00	0.79	205.53	8,005.36	-640.55	-858.21	14,530,001.06	2,059,754.71	40° 0' 4.292 N	109° 30' 9.647 W
8,247.00	0.98	325.71	8,099.35	-640.47	-858.94	14,530,001.13	2,059,753.98	40° 0' 4.293 N	109° 30' 9.657 W
8,342.00	0.62	312.76	8,194.34	-639.45	-859.78	14,530,002.14	2,059,753.13	40° 0' 4.303 N	109° 30' 9.668 W
8,436.00	0.44	311.62	8,288.34	-638.87	-860.42	14,530,002.71	2,059,752.47	40° 0' 4.309 N	109° 30' 9.676 W
8,530.00	0.26	161.85	8,382.34	-638.83	-860.62	14,530,002.74	2,059,752.27	40° 0' 4.309 N	109° 30' 9.678 W
8,625.00	0.62	176.53	8,477.34	-639.55	-860.53	14,530,002.03	2,059,752.38	40° 0' 4.302 N	109° 30' 9.677 W
8,719.00	1.14	188.48	8,571.32	-640.98	-860.63	14,530,000.59	2,059,752.30	40° 0' 4.288 N	109° 30' 9.679 W
8,814.00	1.41	193.93	8,666.30	-643.05	-861.05	14,529,998.52	2,059,751.91	40° 0' 4.267 N	109° 30' 9.684 W
9,666.00	1.40	128.00	9,518.10	-659.63	-855.38	14,529,982.03	2,059,757.87	40° 0' 4.103 N	109° 30' 9.611 W
LAST SDI MWD PRODUCTION SURVEY									
9,730.00	1.40	128.00	9,582.08	-660.60	-854.14	14,529,981.09	2,059,759.12	40° 0' 4.094 N	109° 30' 9.595 W
SDI PROJECTION TO TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates +N/-S (ft)	Local Coordinates +E/-W (ft)	Comment
215.00	215.00	0.23	-0.32	FIRST WEATHERFORD MWD SURFACE SURVEY
2,566.00	2,489.62	-317.74	-452.27	LAST WEATHERFORD MWD SURFACE SURVEY

Checked By: _____ Approved By: _____ Date: _____

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JUN 16 2011
DIV. OF OIL, GAS & MINING

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

FORM 9

5.LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 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 921-25N3AS

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

9. API NUMBER: 43047512630000

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: 1158 FSL 2575 FWL
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: SESW 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

- ✓ NOTICE OF INTENT — Approximate date work will start: 5/13/2013
- ☐ SUBSEQUENT REPORT — Date of Work Completion:
- ☐ SPUD REPORT — Date of Spud:
- ☐ DRILLING REPORT — Report Date:

TYPE OF ACTION

☐ ACIDIZE	☐ ALTER CASING	☐ CASING REPAIR
☐ CHANGE TO PREVIOUS PLANS	☐ CHANGE TUBING	☐ CHANGE WELL NAME
☐ CHANGE WELL STATUS	☐ COMMINGLE PRODUCING FORMATIONS	☐ CONVERT WELL TYPE
☐ DEEPEN	☐ FRACTURE TREAT	☐ NEW CONSTRUCTION
☐ OPERATOR CHANGE	☐ PLUG AND ABANDON	☐ PLUG BACK
☐ PRODUCTION START OR RESUME	☐ RECLAMATION OF WELL SITE	✓ RECOMPLETE DIFFERENT FORMATION
☐ REPERFORATE CURRENT FORMATION	☐ SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
☐ TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL
☐ WATER SHUTOFF	☐ SI TA STATUS EXTENSION	☐ APD EXTENSION
☐ WILDCAT WELL DETERMINATION	☐ OTHER	OTHER:

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

The operator requests authorization to recomplete the subject well in the WASATCH formation. Please see the attached procedure.

Approved by the Utah Division of Oil, Gas and Mining

Date: May 22, 2013

By: Dark K Quist

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

SIGNATURE	DATE
N/A	5/13/2013

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Greater Natural Buttes Unit

NBU 921-25N3AS
RE-COMPLETIONS PROCEDURE
NBU 921-25N PAD
FIELD ID: GREEN WELL

DATE: **5/8/13**
AFE#:
API#: **4304751263**
USER ID: **VYI537** (Frac Invoices Only)

COMPLETIONS ENGINEER: **Paul Ryza , Denver, CO**
(720) 929-6915 (Office)
(936) 499-6895 (Cell)

REMEMBER SAFETY FIRST!

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Name: **NBU 921-25N3AS**
Location: **NE SW SE SW Sec 25 T9S R21E**
LAT: 40.002916 **LONG:** -109.500303 **COORDINATE:** NAD83 *(Surface Location)*
Uintah County, UT
Date: **5/8/13**

ELEVATIONS: 4955' GL 4980' KB *Frac Registry TVD: 9582'*

TOTAL DEPTH: 9730' **PBTD:** 9673'
SURFACE CASING: 8 5/8", 28# J-55 LTC @ 2602'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 BTC @ 9716'
Marker Joint **4826-4839', 7409-7426' & 7426-7435**'

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl./ft)	(gal/ft)
2 3/8" 4.7# L-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
4 ½" 11.6# P-110	10691	7580	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS: **BOTTOMS:**

1477' Green River Top
1796' Bird's Nest Top
2267' Mahogany Top
4803' Wasatch Top 7508' Wasatch Bottom
7508' Mesaverde Top 9730' Mesaverde Bottom (TD)
*Based on latest geological interpretation

T.O.C. @ 970'
**Based on latest interpretation of CBL

GENERAL NOTES:

- **Please note that:**
  - **All stages on this procedure may or may not be completed due to low frac gradients, timing, or other possible reasons. Total stages completed can be found in the post-job-report.**
  - **CBP depth on this procedure is only to be used as a reference. This depth is subject to change as per field operations and the discretion of the wireline supervisor and field foreman.**
- A minimum of **13** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburton's CBL log dated **3/20/11.**
- **6** fracturing stages required for coverage.
- Hydraulic isolation estimated at **5117'** based upon Halliburton's CBL dated 3/20/11.
- Procedure calls for **7** CBP's (**8000** psi) .
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- **Pump scale inhibitor at 0.5 gpt. Remember to pre-load the casing with scale inhibitor.**
- **This is a NO Clay stabilizer pilot *** Please Do NOT pump Clay Stabilizer *****

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- **This is a Reduced Surfactant pilot *** Please pump Surfactant at 0.75 gpt*****
- FR will be pumped at 0.3 gpt for this well. This concentration will be raised or lowered on the job at the discretion of the APC foreman per the well's treating pressure.
- 30/50 mesh Ottawa sand, **Slickwater frac**.
- Maximum surface pressure **6200 psi**.
- **If casing pressure test fails (pressure loss of 1.5% psi or more), retest for 15 minutes. If pressure loss of 1.5% more on second test, notify Denver engineers. Record in Openwells. MIRU with tubing and packer. Isolate leak by pressure testing above and below the packer. RIH and set appropriate casing leak remediation. Re-pressure test to 1000 and 3500 psi for 15 minutes each and to 6200 psi for 30 minutes (specific details on remediation should be documented in OpenWells).**
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Call flush at 0 PPG @ inline densiometers. Slow to 5 bbl/min over last 10-20 bbls of flush. Flush to top perf.
- Max Sand Concentration: Wasatch 2 ppg;
- If distance between plug and top perf of previous stage is less than 50', it is considered to be tight spacing - over flush stage by 5 bbls (from top perf)
- **TIGHT SPACING ON STAGE 2,3, 5– OVERFLUSH BY 5 BBLS**
- **If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work**

Existing Perforations:

PERFORATIONS

Formation	Zone	Top	Btm	spf	Shots	Date
WASATCH		7458	7460	3	6	04/25/2011
MESAVERDE		7524	7526	3	6	04/25/2011
MESAVERDE		7570	7572	3	6	04/25/2011
MESAVERDE		7592	7594	3	6	04/25/2011
MESAVERDE		7668	7670	4	8	04/25/2011
MESAVERDE		7734	7736	4	8	04/25/2011
MESAVERDE		7760	7762	4	8	04/25/2011
MESAVERDE		7852	7854	3	6	04/25/2011
MESAVERDE		7904	7906	3	6	04/25/2011
MESAVERDE		7938	7940	3	6	04/25/2011
MESAVERDE		7976	7978	3	6	04/25/2011
MESAVERDE		8081	8082	4	4	04/25/2011
MESAVERDE		8099	8101	3	6	04/25/2011
MESAVERDE		8158	8159	4	4	04/25/2011
MESAVERDE		8188	8190	3	6	04/25/2011
MESAVERDE		8203	8204	4	4	04/25/2011
MESAVERDE		8382	8383	4	4	04/25/2011
MESAVERDE		8402	8403	4	4	04/25/2011
MESAVERDE		8435	8437	3	6	04/25/2011
MESAVERDE		8454	8456	3	6	04/25/2011
MESAVERDE		8477	8478	4	4	04/25/2011
MESAVERDE		8523	8524	4	4	04/25/2011
MESAVERDE		8548	8550	3	6	04/25/2011
MESAVERDE		8598	8600	3	6	04/25/2011
MESAVERDE		8672	8674	4	8	04/25/2011
MESAVERDE		8806	8808	3	6	04/25/2011
MESAVERDE		8884	8886	3	6	04/25/2011
MESAVERDE		8918	8920	3	6	04/25/2011
MESAVERDE		8994	8996	3	6	04/25/2011
MESAVERDE		9084	9086	3	6	04/25/2011
MESAVERDE		9118	9120	3	6	04/25/2011
MESAVERDE		9182	9184	3	6	04/25/2011
MESAVERDE		9205	9207	3	6	04/25/2011
MESAVERDE		9370	9371	4	4	04/25/2011
MESAVERDE		9448	9450	3	6	04/25/2011
MESAVERDE		9468	9469	3	3	04/25/2011
MESAVERDE		9494	9496	4	8	04/25/2011
MESAVERDE		9513	9514	3	3	04/25/2011

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Relevant History:

4/25/11: Originally completed in Mesaverde formation (9 stages) with ~ 549,458 gallons of Slickwater, 235,520 lbs of 30/50 Ottawa Sand sand and 48,700 lbs of 20/40 Resin coated sand.

4/2/13: Last slickline report:
Ran jdc set down @ 9035 came out with a cleanup plunger ran g1 tool set down @ 9035 jarred on plunger for a while came out with a bypass plunger ran scratcher set down @ 9035 beat down nothing jarred out came out flowed tubing ran jdc set down @ 9035 beat down came out nothing flowed tubing ran scratcher set down @ 9035 beat down for a while went out the tubing came out flowed tubing ran to td set down @ 9605 came out ran scratcher out the tubing came out flowed tubing ran 1.9 broach set down 9035 came out tubing was clean there was a lot of scale on the nipple plunger looks good drop and chase new stainless steel spring to btm came out left plungers out rigged down.

5/8/13: Tubing Currently Landed @~9041'

H2S History:

Production Date	Gas (avg mcf/day)	Water (avg bbl/day)	Oil (avg bbl/day)	LGR (bbl/Mmcf)	Max H2S Seperator (ppm)
3/31/2013	420.03	25.65	0.61	62.51	
2/28/2013	492.43	24.04	0.50	49.83	
1/31/2013	363.55	27.48	0.68	77.46	
12/31/2012	406.32	28.35	0.65	71.37	
11/30/2012	491.73	20.43	0.73	43.05	
10/31/2012	530.90	19.97	0.77	39.07	0.00
9/30/2012	559.43	19.87	0.90	37.12	0.00
8/31/2012	546.35	18.35	0.97	35.37	
7/31/2012	560.61	19.90	1.13	37.52	
6/30/2012	611.40	35.30	2.00	61.01	
5/31/2012	642.42	34.90	2.42	58.10	
4/30/2012	675.23	35.30	2.27	55.64	
3/31/2012	708.94	34.90	2.29	52.46	
2/29/2012	729.79	34.86	1.79	50.23	
1/31/2012	805.65	79.71	4.97	105.11	
12/31/2011	837.58	118.48	2.90	144.93	
11/30/2011	929.60	124.00	3.43	137.08	
10/31/2011	1015.90	103.84	1.87	104.05	2.00
9/30/2011	1141.47	100.00	1.47	88.89	0.00
8/31/2011	1307.35	100.00	1.65	77.75	0.00
7/31/2011	1542.16	142.77	1.06	93.27	0.00
6/30/2011	2089.27	20.30	1.00	10.19	0.00
5/31/2011	1807.58	0.13	0.74	0.48	
4/30/2011	0.00	0.00	0.00	#NA	

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PROCEDURE: (If using any chemicals for pickling tubing or H2S Scavenging, have MSDS for all chemicals prior to starting work.)

1. MIRU. Control well with recycled water and biocide as required. ND WH, NU BOP's and test.

2. The tubing is below the proposed CBP depth. TOOH with 2-3/8", 4.7#, J-55 tubing. Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 7051 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7501 (50' below proposed CBP).

4. Set 8000 psi CBP at ~ 7448'. ND BOPs and NU frac valves Test frac valves and casing to to **6200 psi** for 15 minutes; if pressure test fails contact Denver engineer and see notes above. **Lock OPEN the Braden head valve**. Flow from annulus will be visually monitored throughout stimulation. If release occurs, stimulation will be shut down. Well conditions will be assessed and actions taken as necessary to secure the well. UDOGM will be notified if a release to the annulus occurs.

5. Pressure test frac lines to max surface pressure + 1000 psi for 15 minutes. Pressure loss should be less than 10% to be considered acceptable. Check and correct for existing leaks.

6. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7262	7263	4	4
WASATCH	7392	7394	4	8
WASATCH	7419	7421	4	8

7. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7262' and trickle 250gal 15%HCL w/ scale inhibitor in flush .

8. Set 8000 psi CBP at ~7209'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7011	7012	3	3
WASATCH	7066	7067	3	3
WASATCH	7115	7116	3	3
WASATCH	7131	7132	3	3
WASATCH	7155	7156	3	3
WASATCH	7163	7164	3	3
WASATCH	7178	7179	3	3

9. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~7011' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLS**

10. Set 8000 psi CBP at ~6984'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6803	6804	4	4
WASATCH	6831	6832	4	4
WASATCH	6886	6887	4	4

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WASATCH	6928	6929	4	4
WASATCH	6953	6954	4	4

11. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6803' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLS**

12. Set 8000 psi CBP at ~6790'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6606	6607	3	3
WASATCH	6618	6619	3	3
WASATCH	6627	6628	3	3
WASATCH	6637	6638	3	3
WASATCH	6650	6651	3	3
WASATCH	6735	6736	3	3
WASATCH	6746	6747	3	3
WASATCH	6759	6760	3	3

13. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6606' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

14. Set 8000 psi CBP at ~6448'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6259	6260	3	3
WASATCH	6290	6291	3	3
WASATCH	6402	6404	3	6
WASATCH	6416	6418	3	6

15. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6259' and trickle 250gal 15%HCL w/ scale inhibitor in flush. **NOTE: TIGHT SPACING THIS STAGE, OVERFLUSH BY 5BBLS**

16. Set 8000 psi CBP at ~6228'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6076	6077	4	4
WASATCH	6100	6102	4	8
WASATCH	6190	6191	4	4
WASATCH	6197	6198	4	4

17. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~6076' andflush only with recycled water.

18. Set 8000 psi CBP at~6026'.

19. ND Frac Valves, NU and Test BOPs.

20. TIH with 3 7/8" bit, pump off sub, SN and tubing.

21. Drill 6 plugs and clean out to a depth of 7441' (~ 20' below bottom perfs).

22. Shear off bit and land tubing at 7232'. Flow back completion load. RDMO.

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23. MIRU, POOH tbg and POBS. TIH with POBS.

24. Drill last plug @ 7448' clean out to PBTD at 9673'. Shear off bit and land tubing at ±9041'. This well WILL be commingled at this time. **NOTE: If the CBP between the initial completion and the recompleted sands has been in the well for more than 30 business days from the beginning of flowback for the recompletion, a sundry will need to be filed with the state. Contact the Regulatory group to file the sundry prior to commencing work.**

25. Clean out well with foam and/or swabbing unit until steady flow has been established from completion.

26. **Leave surface casing valve open**. Monitor and report any flow from surface casing. RDMO

Completion Engineer

Kevin Lammers: 713/829-7143, 720/929-6109

Production Engineer

Mickey Doherty: 406/491-7294, 435/781-9740

Ronald Trigo: 352/213-6630, 435/781-7037

Completion Supervisor Foreman

Jeff Samuels: 435/828-6515, 435/781-7046

Completion Manager

Jeff Dufresne: 720/929-6281, 303/241-8428

Vernal Main Office

435/789-3342

Emergency Contact Information—Call 911

Vernal Regional Hospital Emergency: 435-789-3342

Police: (435) 789-5835

Fire: 435-789-4222

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Service Company Supplied Chemicals - Job Totals

Friction Reducer	65	gals @	0.3	GPT
Surfactant	162	gals @	0.75	GPT
Clay Stabilizer	0	gals @	0.0	GPT
15% Hcl	1500	gals @	250	gal/stg
Iron Control for acid	8	gals @	5.0	GPT of acid
Surfactant for acid	3	gals @	2.0	GPT of acid
Corrosion Inhibitor for acid	9	gals @	6.0	GPT of acid

Third Party Supplied Chemicals Job Totals - Include Pumping Charge if Applicable

Scale Inhibitor	108	gals pumped	0.5	GPT (see schedule)
Biocide	65	gals @	0.3	GPT

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Acid Pickling and H2S Procedures (If Required)

**PROCEDURE FOR PUMPING ACID DOWN TBG

WHEN FINDING SCALE IN TUBING THAT IS ACID SOLUBLE, ENSURE THAT PLUNGER EQUIPMENT IS REMOVED AND ABLE TO PUMP DOWN TBG. INSTALL A 'T' IN PUMP LINE W/2" VALVE THAT NALCO CAN TIE INTO. HAVE 60 BBLS 2% KCL MIXED W/ 10-15 GAL H2S SCAVENGER IN RIG FLAT TANK. (WE USED THE RIG FLAT TANK FOR MIXING CHEMICAL SO WE DIDN'T HAVE THE CHEMICAL IN ALL FLUIDS ON LOCATION, ONLY WHAT WE NEEDED TO PUMP DOWN HOLE)

1. PUMP 5-10 BBLS 2% KCL DOWN TBG (NALCO CANNOT PUMP AGAINST PRESSURE)
2. NALCO WILL PUMP 3 DRUMS HCL (31%) INTO PUMP LINE.
3. FLUSH BEHIND ACID WITH 10-15 BBL 2% KCL
4. PUMP 2—30 BBL 2% W/ H2S SCAVENGER DOWN TBG.
5. PUMP REMAINDER OF 2% W/ H2S SCAVENGER DOWN CASING AND SHUT WELL IN FOR MINIMUM OF 2 HRS.
6. OVER DISPLACE DOWN TBG AND CSG TO FLUSH ACID AND SCAVENGER INTO FORMATION
7. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** PROCEDURE FOR PUMPING H2S SCAVENGER WITHOUT ACID

PRIOR TO RIG MOVING ON OR AS RIG PULLS ONTO LOCATION. TEST CASING, TUBING AND SEPARATOR FOR H2S. IF FOUND MAKE SURE THAT PLUNGER SYSTEM IS REMOVED (IT IS POSSIBLE TO PUMP AROUND PLUNGERS BUT SOME WILL HAVE A STANDING VALVE IN SEATING NIPPLE).

1. MIX 10-15 GAL H2S SCAVENGER WITH 60-100 BBL 2% KCL IN RIG FLAT TANK.
2. PUMP 25 BBLS MIXTURE DOWN TUBING AND REST DOWN CASING. SHUT WELL IN FOR 2 HOURS.
3. IF WELL HAS PRESSURE AFTER 2 HOURS – RETEST CASING AND TUBING FOR H2S.
4. FLUSH TUBING AND CASING PUSHING H2S SCAVENGER INTO FORMATION.
5. MONITOR TUBING FOR FLOW AND CASING FOR H2S NOW AS POOH W/ TUBING.

** As per APC standard operating procedure, APC foreman will verify ALL volumes pumped and record on APC Volume Report Form

RECEIVED: May. 13, 2013

Fracturing Schedules
Name NBU 921-25N3AS
Slickwater Frac

Copy to new book

Casing Size	4.5
Recomplete?	Y
Pad?	Y
ACTS?	N
Days on Pad?	2
Wells on Pad?	4

Swabbing Days	3	Enter Number of swabbing days here for recompletes
Production Log	0	Enter 1 if running a Production Log
DFIT	0	Enter Number of DFITs
GR only	Y	Enter Y if only Gamma Ray log was run
Low Scale	Y	Enter Y if a LOW concentration of Scale Inhibitor will be pumped
Clay Stab.	N	Enter N if there will be NO Clay stabilizer

Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	WASATCH	7262	7263	4	4	Varied	Pre-Pad & Pump-in test			Slickwater	4,741	4,741	113	113						2
	WASATCH	7392	7394	4	8	0	ISIP and 5 min ISIP													
	WASATCH	7419	7421	4	8	50	Slickwater Pad			Slickwater	3,038	7,778	72	185	15.0%	0.0%	0	0		2
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	10,125	17,903	241	426	50.0%	37.3%	6,328	6,328		5
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,088	24,991	169	595	35.0%	62.7%	10,631	16,959		4
	WASATCH					50	Flush (4-1/2)			Slickwater	4,741	29,731	113	708				16,959		2
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	16,959		0
	WASATCH											29,731	113	708						0
	WASATCH																			15
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		20,250								
																gal/ft	900	754	lbs sand/ft	
			# of Perfs/stage		20									Flush depth	7,262		CBP depth	7,209	53	
						14.2	<< Above pump time (min)													
2	WASATCH	7011	7012	3	3	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7066	7067	3	3	0	ISIP and 5 min ISIP													
	WASATCH	7115	7116	3	3	50	Slickwater Pad			Slickwater	6,503	6,503	155	155	15.0%	0.0%	0	0		3
	WASATCH	7131	7132	3	3	50	Slickwater Ramp	0.25	1	Slickwater	21,675	28,178	516	671	50.0%	37.3%	13,547	13,547		11
	WASATCH	7155	7156	3	3	50	Slickwater Ramp	1	2	Slickwater	15,173	43,350	361	1,032	35.0%	62.7%	22,759	36,306		8
	WASATCH	7163	7164	3	3	50	Flush (4-1/2)			Slickwater	4,577	47,927	109	1,141				36,306		2
	WASATCH	7178	7179	3	3		ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	36,306		0
	WASATCH											47,927	109	1,141						0
	WASATCH																			24
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		43,350								
																gal/ft	850	712	lbs sand/ft	
			# of Perfs/stage		21									Flush depth	7,011		CBP depth	6,984	27	
						22.8	<< Above pump time (min)													
3	WASATCH	6803	6804	4	4	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6831	6832	4	4	0	ISIP and 5 min ISIP													
	WASATCH	6886	6887	4	4	50	Slickwater Pad			Slickwater	5,119	5,119	122	122	15.0%	0.0%	0	0		3
	WASATCH	6928	6929	4	4	50	Slickwater Ramp	0.25	1	Slickwater	17,063	22,181	406	528	50.0%	37.3%	10,664	10,664		9
	WASATCH	6953	6954	4	4	50	Slickwater Ramp	1	2	Slickwater	11,944	34,125	284	813	35.0%	62.7%	17,916	28,580		6
	WASATCH					50	Flush (4-1/2)			Slickwater	4,441	38,566	106	918				28,580		2
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	28,580		0
	WASATCH											38,566	106	918						0
	WASATCH																			19
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		34,125								
																gal/ft	875	733	lbs sand/ft	
			# of Perfs/stage		20									Flush depth	6,803		CBP depth	6,790	13	
						18.4	<< Above pump time (min)													

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Stage	Zone	Perfs Top, ft.	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
4	WASATCH	6606	6607	3	3	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6618	6619	3	3	0	ISIP and 5 min ISIP													
	WASATCH	6627	6628	3	3	50	Slickwater Pad			Slickwater	6,311	6,311	150	150	15.0%	0.0%	0	0		3
	WASATCH	6637	6638	3	3	50	Slickwater Ramp	0.25	1	Slickwater	21,038	27,349	501	651	50.0%	37.3%	13,148	13,148		11
	WASATCH	6650	6651	3	3	50	Slickwater Ramp	1	2	Slickwater	14,726	42,075	351	1,002	35.0%	62.7%	22,089	35,238		7
	WASATCH	6735	6736	3	3	50	Flush (4-1/2)			Slickwater	4,312	46,387	103	1,104				35,238		2
	WASATCH	6746	6747	3	3		ISDP and 5 min ISDP			Slickwater										0
	WASATCH	6759	6760	3	3															0
	WASATCH																	35,238		0
	WASATCH											46,387	103	1,104						0
	WASATCH																			23
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		42,075								
			# of Perfs/stage		24									Flush depth	6,606	gal/ft	825	691	lbs sand/ft	
						22.1	<< Above pump time (min)									CBP depth		6,448	158	
5	WASATCH	6259	6260	3	3	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6290	6291	3	3	0	ISIP and 5 min ISIP													
	WASATCH	6402	6404	3	6	50	Slickwater Pad			Slickwater	3,137	3,137	75	75	15.0%	0.0%	0	0		2
	WASATCH	6416	6418	3	6	50	Slickwater Ramp	0.25	1	Slickwater	10,457	13,594	249	324	50.0%	37.3%	6,536	6,536		5
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	7,320	20,914	174	498	35.0%	62.7%	10,980	17,516		4
	WASATCH					50	Flush (4-1/2)			Slickwater	4,086	25,000	97	595				17,516		2
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	17,516		0
	WASATCH											25,000	97	595						0
	WASATCH																			13
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		20,914								
			# of Perfs/stage		18									Flush depth	6,259	gal/ft	951	796	lbs sand/ft	
						11.9	<< Above pump time (min)									CBP depth		6,228	31	
6	WASATCH	6076	6077	4	4	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6100	6102	4	8	0	ISIP and 5 min ISIP													
	WASATCH	6190	6191	4	4	50	Slickwater Pad			Slickwater	4,320	4,320	103	103	15.0%	0.0%	0	0		2
	WASATCH	6197	6198	4	4	50	Slickwater Ramp	0.25	1	Slickwater	14,400	18,720	343	446	50.0%	37.3%	9,000	9,000		7
	WASATCH					50	Slickwater Ramp	1	2	Slickwater	10,080	28,800	240	686	35.0%	62.7%	15,120	24,120		5
	WASATCH					50	Flush (4-1/2)			Slickwater	3,966	32,766	94	780				24,120		0
	WASATCH						ISDP and 5 min ISDP			Slickwater										0
	WASATCH																			0
	WASATCH																	24,120		0
	WASATCH											32,766	94	780						0
	WASATCH																			14
	WASATCH																			
	WASATCH																			
	WASATCH									Sand laden Volume		28,800								
			# of Perfs/stage		20									Flush depth	6,076	gal/ft	800	670	lbs sand/ft	
						15.6										CBP depth		6,026	50	
	Totals				**123**						**Total Fluid**	**220,378**	**gals**	**5,247**	**bbls**		**Total Sand**	**158,718**		
												5,247	**bbls**							
						1.7								**11.7**	**tanks**				**Total Scale Inhib. =**	**108**

Total Stages	6	stages
Last Stage Flush	3,966	gals

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Name NBU 921-25N3AS
Perforation and CBP Summary

Stage	Zones	Perforations Top, ft	Perforations Bottom, ft	SPF	Holes		Fracture Coverage		
1	WASATCH	7262	7263	4	4		7256.5	to	7423
	WASATCH	7392	7394	4	8				
	WASATCH	7419	7421	4	8				
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				20		CBP DEPTH	7,209	
2	WASATCH	7011	7012	3	3		7007	to	7184
	WASATCH	7066	7067	3	3				
	WASATCH	7115	7116	3	3				
	WASATCH	7131	7132	3	3				
	WASATCH	7155	7156	3	3				
	WASATCH	7163	7164	3	3				
	WASATCH	7178	7179	3	3				
	WASATCH								
	# of Perfs/stage				21		CBP DEPTH	6,984	
3	WASATCH	6803	6804	4	4		6802	to	6957
	WASATCH	6831	6832	4	4				
	WASATCH	6886	6887	4	4				
	WASATCH	6928	6929	4	4				
	WASATCH	6953	6954	4	4				
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				20		CBP DEPTH	6,790	
4	WASATCH	6606	6607	3	3		6605	to	6762
	WASATCH	6618	6619	3	3				
	WASATCH	6627	6628	3	3				
	WASATCH	6637	6638	3	3				
	WASATCH	6650	6651	3	3				
	WASATCH	6735	6736	3	3				
	WASATCH	6746	6747	3	3				
	WASATCH	6759	6760	3	3				
	# of Perfs/stage				24		CBP DEPTH	6,448	
5	WASATCH	6259	6260	3	3		6254	to	6419
	WASATCH	6290	6291	3	3				
	WASATCH	6402	6404	3	6				
	WASATCH	6416	6418	3	6				
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				18		CBP DEPTH	6,228	
6	WASATCH	6076	6077	4	4		6066	to	6200
	WASATCH	6100	6102	4	8				
	WASATCH	6190	6191	4	4				
	WASATCH	6197	6198	4	4				
	WASATCH								
	WASATCH								
	WASATCH								
	WASATCH								
	# of Perfs/stage				20		CBP DEPTH	6,026	
	Totals				123		Total Pay		221.5

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NBU 921-25N3AS												
MD	TVD	EW	NS	INC	AZI		MD	TVD	EW	NS	INC	AZI
0.00	0.00	0.00	0.00	0.00	0.00		4567.00	4420.12	-873.41	-593.48	2.99	245.17
16.00	16.00	0.00	0.00	0.00	0.00		4662.00	4515.08	-875.77	-593.72	0.98	351.94
215.00	215.00	-0.32	0.23	0.23	305.76		4756.00	4609.07	-876.00	-592.66	0.35	336.66
308.00	307.99	-1.19	-0.70	1.56	214.60		4851.00	4704.07	-876.06	-592.60	0.26	166.51
401.00	400.90	-3.87	-3.62	3.34	226.10		4945.00	4798.07	-876.19	-593.20	0.53	204.83
496.00	495.63	-9.09	-8.38	5.19	228.66		5039.00	4892.04	-875.78	-595.09	1.96	158.18
591.00	590.07	-17.07	-14.78	7.19	233.16		5134.00	4986.99	-874.37	-597.82	1.76	146.47
687.00	685.10	-28.08	-22.80	9.13	234.54		5228.00	5080.94	-872.96	-600.60	2.07	158.80
782.00	778.72	-41.48	-31.71	10.38	238.04		5322.00	5174.89	-871.83	-603.53	1.76	159.23
878.00	872.94	-57.17	-41.37	11.75	238.66		5417.00	5269.87	-870.74	-605.01	0.70	101.12
972.00	964.71	-74.50	-52.03	13.25	238.16		5511.00	5363.86	-869.51	-605.33	0.86	107.15
1067.00	1057.06	-93.34	-63.93	13.88	237.29		5605.00	5457.85	-868.12	-605.65	0.88	99.19
1162.00	1149.13	-112.95	-76.68	14.63	236.66		5700.00	5552.84	-867.01	-605.97	0.53	117.18
1257.00	1240.96	-133.05	-90.38	15.04	234.83		5794.00	5646.83	-865.89	-607.15	1.49	143.31
1352.00	1332.60	-153.50	-104.87	15.56	234.54		5889.00	5741.79	-864.38	-609.28	1.67	145.77
1447.00	1423.89	-174.85	-120.19	16.56	234.16		5983.00	5835.75	-862.86	-611.65	1.76	148.84
1542.00	1514.77	-197.21	-136.49	17.31	233.66		6077.00	5929.70	-861.26	-614.22	1.93	147.61
1635.00	1603.15	-220.73	-153.34	18.94	235.04		6172.00	6024.66	-859.56	-616.15	1.23	124.32
1731.00	1693.83	-246.45	-171.54	19.38	234.41		6266.00	6118.65	-858.09	-616.82	0.79	99.45
1826.00	1783.62	-271.70	-189.57	18.75	234.54		6361.00	6213.64	-857.06	-616.72	0.53	62.01
1921.00	1873.68	-296.60	-206.74	18.38	236.29		6455.00	6307.64	-857.18	-617.31	1.14	212.56
2016.00	1963.67	-321.81	-223.80	19.00	235.54		6549.00	6401.62	-858.03	-618.96	1.14	202.02
2111.00	2054.06	-345.80	-240.45	16.81	234.91		6644.00	6496.60	-858.85	-620.75	1.23	207.11
2207.00	2146.06	-368.00	-256.54	16.38	233.16		6738.00	6590.58	-859.69	-622.66	1.32	200.79
2301.00	2236.19	-389.42	-272.49	16.63	233.54		6832.00	6684.55	-860.56	-624.79	1.49	203.42
2395.00	2326.17	-411.36	-288.55	17.00	234.04		6927.00	6779.51	-861.64	-627.10	1.58	206.50
2491.00	2417.91	-434.41	-304.92	17.25	235.16		7021.00	6873.49	-861.96	-629.09	1.06	163.08
2566.00	2489.62	-452.27	-317.74	16.85	233.48		7115.00	6967.47	-861.20	-630.87	1.32	151.57
2679.00	2597.68	-479.28	-336.75	17.15	236.21		7210.00	7062.44	-860.07	-632.84	1.41	149.02
2773.00	2687.31	-503.21	-351.91	17.94	239.02		7304.00	7156.41	-858.78	-634.92	1.58	147.44
2868.00	2777.94	-527.40	-366.96	16.97	237.17		7399.00	7251.40	-857.79	-635.69	0.53	40.12
2962.00	2867.65	-551.60	-381.13	17.77	242.03		7493.00	7345.40	-857.23	-635.30	0.35	78.44
3057.00	2958.68	-575.44	-394.17	15.48	240.51		7587.00	7439.40	-856.67	-635.47	0.44	128.45
3151.00	3048.47	-600.52	-406.00	18.91	248.25		7682.00	7534.39	-856.27	-636.26	0.70	169.06
3245.00	3137.41	-627.28	-420.36	19.03	235.34		7776.00	7628.39	-856.18	-637.26	0.53	182.86
3340.00	3227.82	-650.76	-437.62	16.71	231.81		7870.00	7722.38	-856.09	-638.48	0.97	171.52
3434.00	3317.75	-672.82	-453.80	17.15	235.59		7964.00	7816.37	-856.54	-639.30	0.70	266.44
3529.00	3408.96	-694.98	-468.40	15.30	237.79		8059.00	7911.37	-857.53	-639.66	0.62	232.16
3623.00	3499.46	-716.58	-481.82	16.09	238.49		8153.00	8005.36	-858.21	-640.55	0.79	205.53
3718.00	3590.32	-740.30	-496.18	17.85	239.11		8247.00	8099.35	-858.94	-640.47	0.98	325.71
3812.00	3680.18	-763.63	-510.86	16.27	236.38		8342.00	8194.34	-859.78	-639.45	0.62	312.76
3907.00	3771.25	-786.10	-525.90	16.80	236.03		8436.00	8288.34	-860.42	-638.87	0.44	311.62
4001.00	3861.58	-807.76	-540.27	15.30	236.91		8530.00	8382.34	-860.62	-638.83	0.26	161.85
4095.00	3952.88	-825.75	-553.46	12.22	229.79		8625.00	8477.34	-860.53	-639.55	0.62	176.53
4190.00	4045.91	-840.30	-566.08	11.17	228.30		8719.00	8571.32	-860.63	-640.98	1.14	188.48
4284.00	4138.54	-851.68	-577.23	8.38	221.96		8814.00	8666.30	-861.05	-643.05	1.41	193.93
4379.00	4232.78	-860.19	-585.56	6.07	230.67		9666.00	9518.10	-855.38	-659.63	1.40	128.00
4473.00	4326.35	-867.61	-590.58	4.92	242.36		9730.00	9582.08	-854.14	-660.60	1.40	128.00

RECEIVED: May. 13, 2013

API Well Number: 43047512630000

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

AMENDED REPORT ☐ (highlight changes)

FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UO 1194 ST

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME: UTU63047A

8. WELL NAME and NUMBER: NBU 921-25N3AS

9. API NUMBER: 4304751263

10 FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

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 RECOMPLETION

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: SESW 1158 FSL 2575 FWL S25,T9S,R21E
AT TOP PRODUCING INTERVAL REPORTED BELOW: SESW 544 FSL 1714 FWL S25,T9S,R21E
AT TOTAL DEPTH: SESW 497 FSL 1721 FWL S25,T9S,R21E

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

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED: 1/3/2011

15. DATE T.D. REACHED: 3/11/2011

16. DATE COMPLETED: 8/23/2013 ABANDONED ☐ READY TO PRODUCE ☑

17. ELEVATIONS (DF, RKB, RT, GL): 4980 RKB

18. TOTAL DEPTH: MD 9,730 TVD 9,582

19. PLUG BACK T.D.: MD 9,674 TVD 9,526

20. IF MULTIPLE COMPLETIONS, HOW MANY? *

21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
ACBL-RMT-CHI TRIPLE COMBO

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		40		28			
11"	8 5/8"	J-55	28#		2,602		490		0	
7 7/8"	4 1/2"	I-80	11.6#		9,716		1,655		970	

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"	9,055							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	6,076	7,421		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
6,076	7,421	0.36	123	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐
				Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6076-7421	PUMP 6351 BBLS SLICK H2O & 154,633 LBS 30/50 OTTAWA SAND
	6 STAGES

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

(5/2000)

(CONTINUED ON BACK)

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API Well Number: 43047512630000

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:		TEST DATE:		HOURS TESTED:		TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
8/23/2013		9/8/2013		24			7	1,269	0	FLOWING
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:
24/64	359	743					7	1,269	0	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.)

SOLD

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.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.

34. FORMATION (Log) MARKERS:

Name	Top (Measured Depth)
GREEN RIVER	1,477
BIRD'S NEST	1,796
MAHOGANY	2,267
WASATCH	4,803
MESAVERDE	7,508

35. ADDITIONAL REMARKS (Include plugging procedure)

Attached is the recompletion history and perforation report. Casing in the well is as previously reported on the original Completion Report. New recompletion perforations are: Wasatch 6076-742; existing perforations: Wasatch 7458-7460 and Mesaverde 7524-9514. An Iso plug separating new perforations from old perforations was set at 7445 and drilled out on 9/5/13 comingling the well.

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

NAME (PLEASE PRINT) TEENA PAULO TITLE STAFF REGULATORY SPECIALIST

SIGNATURE DATE

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

(5/2000)

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS GREEN	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 6/6
Event: RECOMPL/RESEREVEADD	Start Date: 7/25/2013	End Date: 9/5/2013
Active Datum: RKB @4,980.00usft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
7/26/2013	6:45 - 7:00	0.25	MIRU	48		P		HSM. PINTCH POINTS.
	7:00 - 18:00	11.00	MIRU	31	I	P		FWP 100 PSI. BLOW WELL DOWN T/ FBT. PUMP 20 BBL DOWN TBG. ND WH. UNLAND TBG. TBG WAS FREE. RELAND TBG. NUBOP. RU RIG FLOOR & TBG EQUIP. MIRU SCAM TECH. POOH W/ 285 JTS 2 3/8 L-80 TBG. FOUND HEAVY INTERNAL PITTING STARTED JT 6 @ 191' T/ JT 29 @ 920'. HEAVY WALL LOSS STARTED JT 30 @ 951' T/ JT 148 @ 4693'. LITE INTERNAL SCALE JT 161 @ 5105' T/ JT 170 @ 5390'. MEDIUM EXTERNAL SCALE JT 236 @ 7483' T/ JT 260 @ 8245'. ALL TBG IS 2 3/8 L-80 LD 98 JTS YELLOW BAD LD 23 JTS BLUE BAND LD 164 JTS RED BAND RDMO SCAM TECH. MIRU CUTTERS WL. PU GAUGE RING. RIH T/ 7450'. POOH. PU 4 1/2 10K CBP. RIH SET CBP @ 7445'. POOH. RDMO CUTTERS WL. FILL CSG W/ RIG PUMP. PSI T/ 3000 PSI. BLEED PSI OFF.
7/31/2013	10:00 - 11:00	1.00	SUBSPR	52	B	P		FILL SURFACE CSG. MIRU CAMERON QUICK TEST. PRESSURE TEST CSG & FRAC VALVES 1ST PSI TEST T/ 6200 PSI. HELD FOR 15 MIN LOST 58 PSI. NO COMMUNICATION OR MIGRATION WITH SURFACE CSG BLEED OFF PSI. PRESSURE TEST 8 5/8 X 4 1/2 TO 502 PSI HELD FOR 5 MIN LOST -66 PSI,BLED PSI OFF, REINSTALLED POP OFF SWIFN NO PRESSURE ON SURFACE CASING FILLED SURFACE WITH 1/2 BBL H2O
8/16/2013	7:00 - 10:00	3.00	SUBSPR	37		P		PERF STG 1)PU 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. RIH PERFWELL, AS PER PERF DESIGN. POOH. SWIFW

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API Well Number: 43047512630000

US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS GREEN	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 6/6
Event: RECOMPL/RESEREVEADD	Start Date: 7/25/2013	End Date: 9/5/2013
Active Datum: RKB @4,980.00usft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/19/2013	7:00 - 17:00	10.00	FRAC	36	B	P		FRAC STG 1)WHP 5 PSI, BRK 3060 PSI @ 4.2 BPM. ISIP 1380 PSI, FG .62. CALC HOLES OPEN @ 35.0 BPM @ 5244 PSI = 50% HOLES OPEN. (10/20 HOLES OPEN) ISIP 2462 PSI, FG .77 NPI 1082 PSI. MP 5808 PSI, MR 47.5 BPM, AP 5171 PSI, AR 39.8 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 2)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 7,209' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 2)WHP 906 PSI, BRK 2342 PSI @ 3.8 BPM. ISIP 2082 PSI, FG .72 CALC HOLES OPEN @ 50.1 BPM @ 4246 PSI = 100% HOLES OPEN. (21/21 HOLES OPEN) ISIP 2051 PSI, FG .72, NPI -31 PSI. MP 5095 PSI, MR 49.0 BPM, AP 4285 PSI, AR 50.5 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 3)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6984' P/U PERF AS PER PERF DESIGN. POOH. SWIFN

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS GREEN	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 6/6
Event: RECOMPL/RESEREVEADD	Start Date: 7/25/2013	End Date: 9/5/2013
Active Datum: RKB @4,980.00usft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
8/20/2013	7:00 - 17:00	10.00	FRAC	36	B	P		FRAC STG 3)WHP 1328 PSI, BRK 2364 PSI @ 2.7 BPM. ISIP 1884 PSI, FG .71 CALC HOLES OPEN @ 50.4 BPM @ 4021 PSI = 100% HOLES OPEN. (20/20 HOLES OPEN) ISIP 1985 PSI, FG .72, NPI 101 PSI. MP 4881 PSI, MR 50.4 BPM, AP 4123 PSI, AR 50.0 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PERF STG 4)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 120 DEG PHASING. RIH SET CBP @ 6790' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 4)WHP 700 PSI, BRK 2775 PSI @ 3.0 BPM. ISIP 1927 PSI, FG .72. CALC HOLES OPEN @ 50.5 BPM @ 3768 PSI = 100% HOLES OPEN. (24/24 HOLES OPEN) ISIP 1804 PSI, FG .70, NPI -123 PSI. MP 4104 PSI, MR 50.6 BPM, AP 3643 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W PERF STG 5)PU 4 1/2 8K HAL CBP & 3 1/8 EXP GUN, 23 GM, .36 HOLE SIZE. 90 DEG PHASING. RIH SET CBP @ 6,448' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 5)WHP 830 PSI, BRK 2393 PSI @ 3.8 BPM. ISIP 1432 PSI, FG .66. CALC HOLES OPEN @ 50.7 BPM @ 4803 PSI = 94% HOLES OPEN. (17/18 HOLES OPEN) ISIP 1440 PSI, FG .66, NPI 8 PSI. MP 5467 PSI, MR 51.9 BPM, AP 5219 PSI, AR 50.4 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L 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 @ 6,228' P/U PERF AS PER PERF DESIGN. POOH. X-OVER FOR FRAC CREW FRAC STG 6)WHP 1233 PSI, BRK 1551 PSI @ 6.0 BPM. ISIP 1222 PSI, FG .63 CALC HOLES OPEN @ 50.3 BPM @ 3084 PSI = 100% HOLES OPEN. (20/20 HOLES OPEN) ISIP 1591 PSI, FG .69, NPI 369 PSI. MP 4141 PSI, MR 50.6 BPM, AP 3928 PSI, AR 50.3 BPM PUMPED 30/50 OTTAWA SAND IN THIS STAGE X-OVER FOR W L PU HALCO 4 1/2" CBP RIH SET @ 6,026 POOH RD

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US ROCKIES REGION

Operation Summary Report

Well: NBU 921-25N3AS GREEN	Spud Conductor: 1/3/2011	Spud Date: 1/17/2011
Project: UTAH-UINTAH	Site: NBU 921-25N PAD	Rig Name No: SWABBCO 6/6
Event: RECOMPL/RESEREVEADD	Start Date: 7/25/2013	End Date: 9/5/2013
Active Datum: RKB @4,980.00usft (above Mean Sea Level)	UWI: SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (usft)	Operation
								FRAC & WL CREWS SWIFN TOTAL SAND= 154,633 # 30/50 OTTAWA TOTAL CLFL= 6,351 BBLS H20
8/23/2013	7:00 - 7:30	0.50	DRLOUT	48		P		MILLING PLUGS
	7:30 - 17:00	9.50	DRLOUT	44	C	P		MIRU,NDWH, NU BOP'S, TIH TBG, TAG KILL PLUG, RU PWR SWIVEL, BREAK CIRC, TEST BOP'S,MILL 6 PLUGS, 7209', 229 JTS, TIH TO 7441' 238 JTS, C/O 30' SAND, POOH TO 230 JT 7223.15', LAND TBG, ND BOP'S, NUWH, DROP BALL, PUMP OPEN SLIDING SLEEVE,1250# PSI FLOW LINE 3000#, RDMO PLUG# 1 6026' 10' SAND 11 MIN 10# KICK PLUG# 2 6228' 30' SAND 8 MIN 35# KICK PLUG# 3 6448' 25' SAND 8 MIN 30# KICK PLUG# 4 6790' 40' SAND 8 MIN 20# KICK PLUG# 5 6984' 30' SAND 9 MIN 30# KICK PLUG# 6 7209' 25' SAND 10 MIN 0# KICK ISO PLUG 7448' BTM PERF 7421' TBG 150 JTS J-55 4681.32' BTM TBG 80 JTS L-80 2511.60' TOP KB 25.00' HANGER 4.125" .83' SN 1.875" 4.40' EOT 7223.15' NOTE: SHORT JT @ 2535.83'-2541.83' FRAC WTR 6,351 BBLS RCVD 1,500 BBLS LTR 4,851 BBLS
	17:00 - 17:00	0.00	DRLOUT	50				WELL TURNED TO SALES @ 1400 HR ON 8/23/2013. 0 MCFD, 0 BWPD, FCP 600#, FTP 40#, 20/64" CK.
9/5/2013	7:00 - 7:30	0.50	DRLOUT	48		P		NDWH
	7:30 - 19:36	12.10	DRLOUT	44	C	P		MIRU, CSG 1500#, TBG 400#, BLOW DWN WELL, KILL WELL 30 BBLS CSG, 20 BBLS TBG, NDWH, NU BOP'S, UNLAND TBG, POOH STD BACK TBG, PU POBS, BIT, TIH, TAG ISO CBP, MILL CBP, RU GROSS FOAM, BREAK CIRC, TIH TO PBTD, CLEAN OUT, PU LAND TBG, POBS, 1300#,RDMO TBG 150 JTS J-55 4681.32' BTM TBG 133 JTS L-80 4345.28' TOP KB 25.00' HANGER 4.125" .83' SN 1.875" 2.20' EOT 9054.63' NOTE: SHORT JT @ 4365.11'-4371.11'

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1 General

1.1 Customer Information

Company	US ROCKIES REGION
Representative	
Address	

1.2 Well/Wellbore Information

Well	NBU 921-25N3AS GREEN	Wellbore No.	OH
Well Name	NBU 921-25N3AS	Wellbore Name	NBU 921-25N3AS
Report No.	1	Report Date	8/19/2013
Project	UTAH-UINTAH	Site	NBU 921-25N PAD
Rig Name/No.		Event	RECOMPL/RESEREVEADD
Start Date	7/25/2013	End Date	9/5/2013
Spud Date	1/17/2011	Active Datum	RKB @4,980.00usft (above Mean Sea Level)
UWI	SE/SW/0/9/S/21/E/25/0/0/26/PM/S/1158/W/0/2575/0/0		

1.3 General

Contractor		Job Method		Supervisor	
Perforated Assembly		Conveyed Method			

1.4 Initial Conditions

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

1.5 Summary

Gross Interval	6,076.0 (usft)-7,421.0 (usft	Start Date/Time	8/19/2013 12:00AM
No. of Intervals	31	End Date/Time	8/19/2013 12:00AM
Total Shots	123	Net Perforation Interval	36.00 (usft)
Avg Shot Density	3.42 (shot/ft)	Final Surface Pressure	
		Final Press Date	

2 Intervals

2.1 Perforated Interval

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/19/2013 12:00AM	WASATCH/			6,076.0	6,077.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

API Well Number: 4304751263000

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2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/19/2013 12:00AM	WASATCH/			6,100.0	6,102.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,190.0	6,191.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,197.0	6,198.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,259.0	6,260.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,290.0	6,291.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,402.0	6,404.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,416.0	6,418.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,606.0	6,607.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,618.0	6,619.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,627.0	6,628.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,637.0	6,638.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,650.0	6,651.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,735.0	6,736.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,746.0	6,747.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,759.0	6,760.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,803.0	6,804.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,831.0	6,832.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,886.0	6,887.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,928.0	6,929.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			6,953.0	6,954.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,011.0	7,012.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	

API Well Number: 4304751263000

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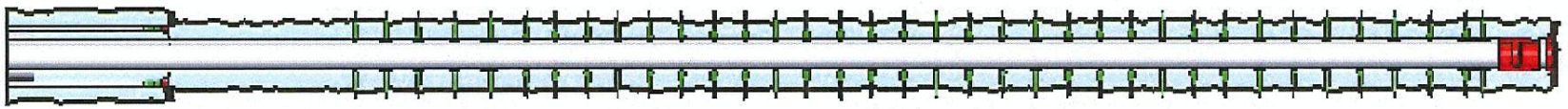
API Well Number: 4304751263000

2.1 Perforated Interval (Continued)

Date	Formation/ Reservoir	CCL@ (usft)	CCL-TS (usft)	MD Top (usft)	MD Base (usft)	Shot Density (shot/ft)	Misfires/ Add. Shot	Diameter (in)	Carr Type /Stage No	Carr Size (in)	Phasing (°)	Charge Desc /Charge Manufacturer	Charge Weight (gram)	Reason	Misrun
8/19/2013 12:00AM	WASATCH/			7,066.0	7,067.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,115.0	7,116.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,131.0	7,132.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,155.0	7,156.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,163.0	7,164.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,178.0	7,179.0	3.00		0.360	EXP/	3.375	120.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,262.0	7,263.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,392.0	7,394.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	
8/19/2013 12:00AM	WASATCH/			7,419.0	7,421.0	4.00		0.360	EXP/	3.375	90.00		23.00	PRODUCTION	

3 Plots

3.1 Wellbore Schematic



RECEIVED: Sep. 25, 2013