

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

FORM 3

AMENDED REPORT

APPLICATION FOR PERMIT TO DRILL

2. TYPE OF WORK DRILL NEW WELL <input checked="" type="checkbox"/> REENTER P&A WELL <input type="checkbox"/> DEEPEN WELL <input type="checkbox"/>		1. WELL NAME and NUMBER NBU 1021-13A3CS				
4. TYPE OF WELL Gas Well Coalbed Methane Well: NO		3. FIELD OR WILDCAT NATURAL BUTTES				
6. NAME OF OPERATOR KERR-MCGEE OIL & GAS ONSHORE, L.P.		5. UNIT or COMMUNITIZATION AGREEMENT NAME NATURAL BUTTES				
8. ADDRESS OF OPERATOR P.O. Box 173779, Denver, CO, 80217		7. OPERATOR PHONE 720 929-6587				
10. MINERAL LEASE NUMBER (FEDERAL, INDIAN, OR STATE) ML 23608		11. MINERAL OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
13. NAME OF SURFACE OWNER (if box 12 = 'fee')		12. SURFACE OWNERSHIP FEDERAL <input type="checkbox"/> INDIAN <input type="checkbox"/> STATE <input checked="" type="checkbox"/> FEE <input type="checkbox"/>				
15. ADDRESS OF SURFACE OWNER (if box 12 = 'fee')		14. SURFACE OWNER PHONE (if box 12 = 'fee')				
17. INDIAN ALLOTTEE OR TRIBE NAME (if box 12 = 'INDIAN')		18. INTEND TO COMMINGLE PRODUCTION FROM MULTIPLE FORMATIONS YES <input checked="" type="checkbox"/> (Submit Commingling Application) NO <input type="checkbox"/>				
19. SLANT VERTICAL <input type="checkbox"/> DIRECTIONAL <input checked="" type="checkbox"/> HORIZONTAL <input type="checkbox"/>		16. SURFACE OWNER E-MAIL (if box 12 = 'fee') mary.mondragon@anadarko.com				
20. LOCATION OF WELL	FOOTAGES	QTR-QTR	SECTION	TOWNSHIP	RANGE	MERIDIAN
LOCATION AT SURFACE	682 FNL 1314 FEL	NENE	13	10.0 S	21.0 E	S
Top of Uppermost Producing Zone	1260 FNL 1330 FEL	NENE	13	10.0 S	21.0 E	S
At Total Depth	1260 FNL 1330 FEL	NENE	13	10.0 S	21.0 E	S
21. COUNTY UINTAH		22. DISTANCE TO NEAREST LEASE LINE (Feet) 1260		23. NUMBER OF ACRES IN DRILLING UNIT 203		
27. ELEVATION - GROUND LEVEL 5262		25. DISTANCE TO NEAREST WELL IN SAME POOL (Applied For Drilling or Completed) 580		26. PROPOSED DEPTH MD: 9289 TVD: 9200		
		28. BOND NUMBER 22013542		29. SOURCE OF DRILLING WATER / WATER RIGHTS APPROVAL NUMBER IF APPLICABLE Permit #43-8496		

ATTACHMENTS

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

<input checked="" type="checkbox"/> WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER	<input checked="" type="checkbox"/> COMPLETE DRILLING PLAN
<input type="checkbox"/> AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)	<input type="checkbox"/> FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER
<input checked="" type="checkbox"/> DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)	<input checked="" type="checkbox"/> TOPOGRAPHICAL MAP

NAME Kathy Schneebeck-Dulnoan	TITLE Staff Regulatory Analyst	PHONE 720 929-6007
SIGNATURE	DATE 04/02/2009	EMAIL Kathy.SchneebeckDulnoan@anadarko.com
API NUMBER ASSIGNED 43047503330000	APPROVAL <div style="text-align: center;">  Permit Manager </div>	

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Prod	7.875	4.5	0	9289		
Pipe	Grade	Length	Weight			
	Grade I-80 LT&C	9289	11.6			

Proposed Hole, Casing, and Cement

String	Hole Size	Casing Size	Top (MD)	Bottom (MD)		
Surf	12.25	9.625	0	2200		
Pipe	Grade	Length	Weight			
	Grade J-55 LT&C	2200	36.0			

NBU 1021-13A3CS

Pad: NBU 1021-13A

Surface: 682' FNL, 1,314' FEL (NE/4NE/4)

BHL: 1,260' FNL 1,330' FEL (NE/4NE/4)

Sec. 13 T10S R21E

Uintah, Utah

Mineral Lease: ML 23608

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

<u>Formation</u>	<u>Depth</u>	<u>Resource</u>
Uinta	0 – Surface	
Green River	1,245'	
Birds Nest	1,553'	Water
Mahogany	1,984'	Water
Wasatch	4,449'	Gas
Mesaverde	7,102'	Gas
MVU2	8,020'	Gas
MVL1	8,553'	Gas
TVD	9,200'	
TD	9,289'	

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

Please refer to the attached Drilling Program.

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

Please refer to the attached Drilling Program.

5. **Drilling Fluids Program:**

Please refer to the attached Drilling Program.

6. **Evaluation Program:**

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 9,289' TD, approximately equals 5,498 psi (calculated at 0.59 psi/foot).

Maximum anticipated surface pressure equals approximately 3,421 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. Variations:

Please refer to the attached Drilling Program.

Onshore Order #2 – Air Drilling Variance

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

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

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

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

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

Background

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

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

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

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

Variance for BOPE Requirements

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

Variance for Mud Material Requirements

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

Variance for Special Drilling Operation (surface equipment placement) Requirements

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

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

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

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

Conclusion

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

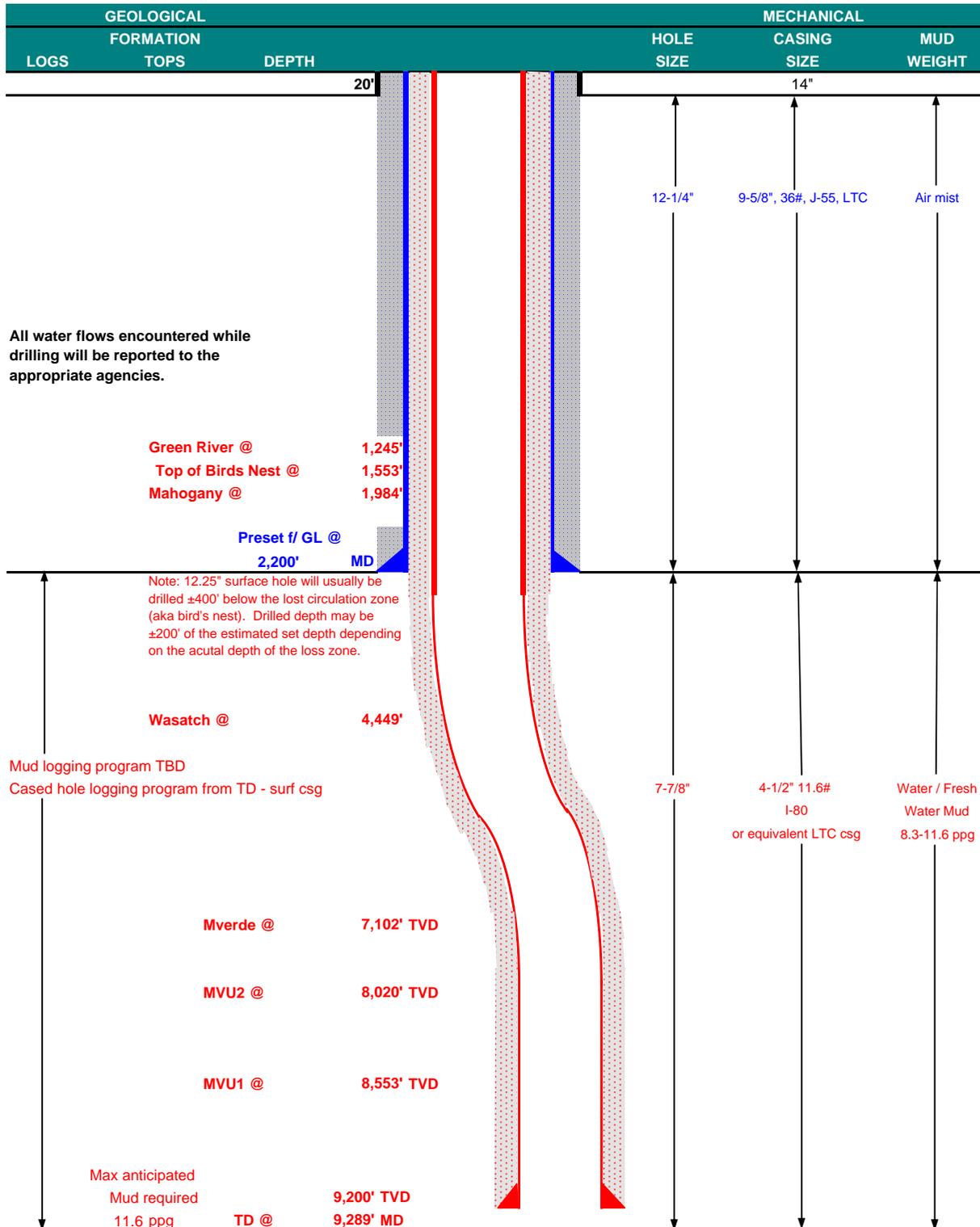
10. Other Information:

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	June 10, 2009	
WELL NAME	NBU 1021-13A3CS		TD	9,200' TVD	9,289' MD
FIELD	Natural Buttes	COUNTY	Uintah	STATE	Utah
				FINISHED ELEVATION	5,261'
SURFACE LOCATION	NE/4 NE/4	682' FNL	1,314' FEL	Sec 13 T 10S R 21E	KB 5,276'
	Latitude:	39.953767	Longitude:	-109.494363	NAD 27
BTM HOLE LOCATION	NE/4 NE/4	1,260' FNL	1,330' FEL	Sec 13 T 10S R 21E	
	Latitude:	39.952179	Longitude:	-109.494408	NAD 27
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: SITLA (Minerals), UDOGM (Surface), Tri-County Health Dept.				





KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				3,520	2,020	453,000
SURFACE	9-5/8"	0 to 2,200	36.00	J-55	LTC	0.99	1.96	7.28
						7,780	6,350	201,000
PRODUCTION	4-1/2"	0 to 9,289	11.60	I-80	LTC	2.21	1.14	2.14

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 = 11.6 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 3,421 psi

3) Maximum Anticipated Bottom Hole Pressure (MABHP) = Pore Pressure at TD
 (Burst Assumptions: TD = 11.6 ppg) 0.59 psi/ft = bottomhole gradient
 (Collapse Assumption: Fully Evacuated Casing, Max MW) (Tension Assumptions: Air Weight of Casing*Buoy.Fact. of water)
MABHP 5,498 psi

CEMENT PROGRAM

	FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE LEAD	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	215	60%	15.60	1.18
Option 1						
TOP OUT CMT (6 jobs)	1,200'	20 gals sodium silicate + Premium cmt + 2% CaCl + 0.25 pps flocele Premium cmt + 2% CaCl	380	0%	15.60	1.18
SURFACE	NOTE: If well will circulate water to surface, option 2 will be utilized					
Option 2						
LEAD	1,700'	65/35 Poz + 6% Gel + 10 pps gilsonite + 0.25 pps Flocele + 3% salt BWOW	400	35%	12.60	1.81
TAIL	500'	Premium cmt + 2% CaCl + 0.25 pps flocele	180	35%	15.60	1.18
TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION LEAD	3,949'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	380	40%	11.00	3.38
TAIL	5,340'	50/50 Poz/G + 10% salt + 2% gel + 0.1% R-3	1310	40%	14.30	1.31

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

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

FLOAT EQUIPMENT & CENTRALIZERS

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

ADDITIONAL INFORMATION

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

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

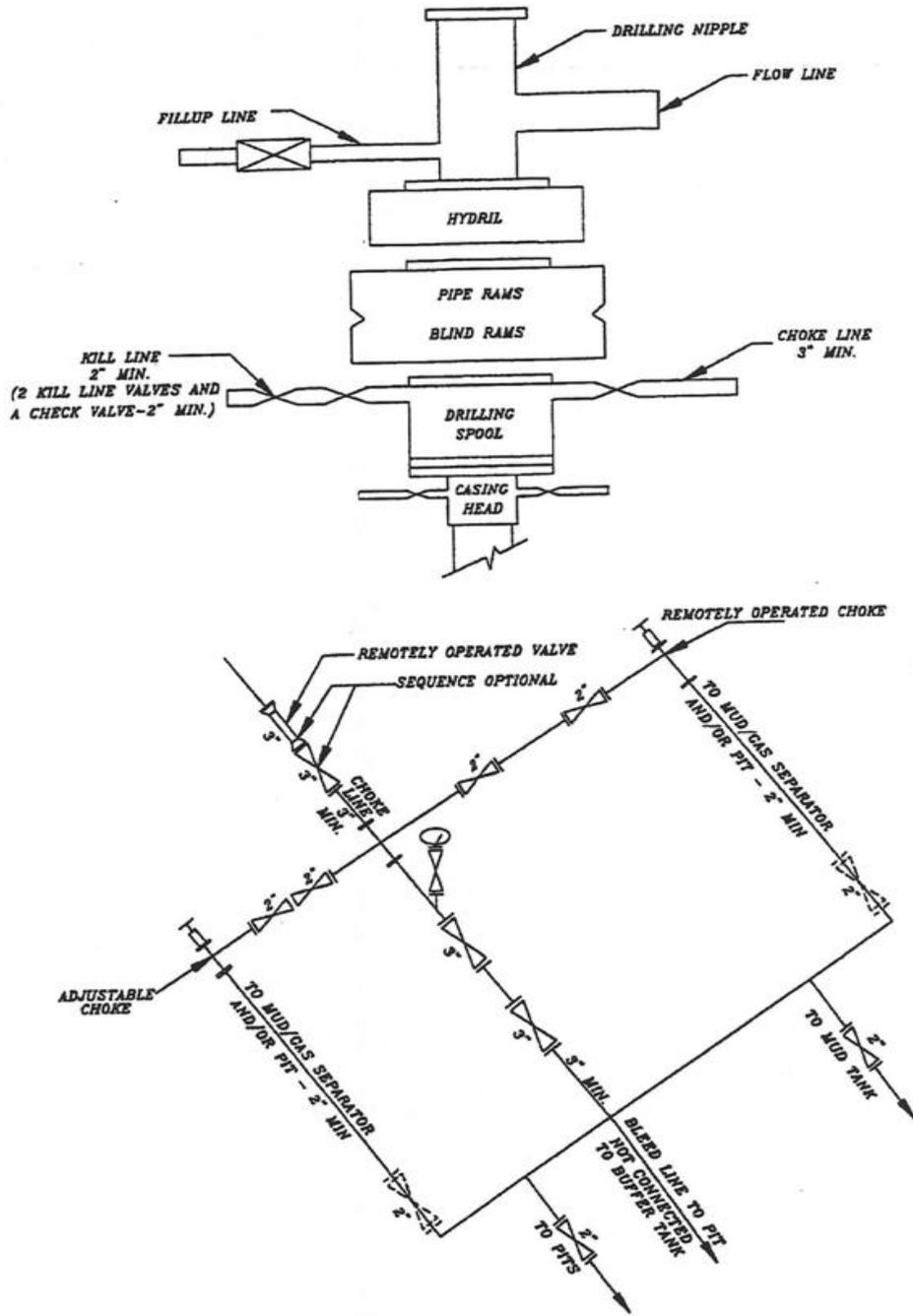
Surveys will be taken at 1,000' minimum intervals.

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

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

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

EXHIBIT A NBU 1021-13A3CS



SCHEMATIC DIAGRAM OF 5,000 PSI BOP STACK

WELL PAD INTERFERENCE PLAT

DIRECTIONAL PAD - NBU 1021-13A

LATITUDE & LONGITUDE Surface Position - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
1021-13B3CS	39°57'13.292" 39.953692°	109°29'42.349" 109.495097°
1021-13A3CS	39°57'13.436" 39.953732°	109°29'42.174" 109.495048°
1021-13H4CS	39°57'13.581" 39.953772°	109°29'41.999" 109.495000°
1021-13H4AS	39°57'13.725" 39.953812°	109°29'41.823" 109.494951°
Existing Well NBU 1021-13A	39°57'13.752" 39.953820°	109°29'42.143" 109.495040°

BOTTOM HOLE FOOTAGES

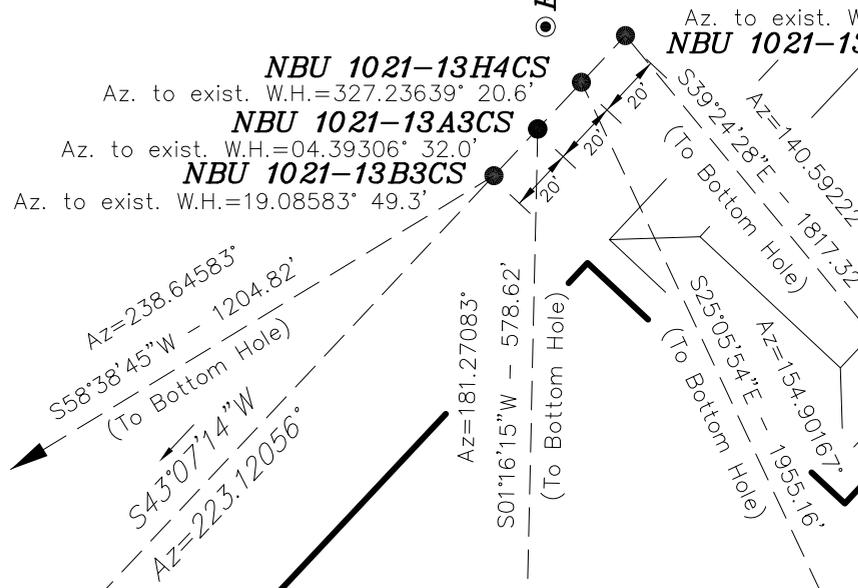
NBU 1021-13B3CS
1320' FNL, 2360' FEL

NBU 1021-13A3CS
1260' FNL, 1330' FEL

NBU 1021-13H4CS
2440' FNL, 480' FEL

NBU 1021-13H4AS
2060' FNL, 140' FEL

RELATIVE COORDINATES From Surface Position to Bottom Hole		
WELL	NORTH	EAST
1021-13B3CS	-627'	-1029'
1021-13A3CS	-578'	-13'
1021-13H4CS	-1771'	829'
1021-13H4AS	-1404'	1154'



BASIS OF BEARINGS IS THE WEST LINE OF THE NW 1/4 OF SECTION 18, T10S, R22E, S.L.B.&M. WHICH IS TAKEN FROM GLOBAL POSITIONING SATELLITE OBSERVATIONS TO BEAR N00°16'49"W.

LATITUDE & LONGITUDE Surface Position - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
1021-13B3CS	39°57'13.417" 39.953727°	109°29'39.882" 109.494412°
1021-13A3CS	39°57'13.561" 39.953767°	109°29'39.707" 109.494363°
1021-13H4CS	39°57'13.706" 39.953807°	109°29'39.532" 109.494315°
1021-13H4AS	39°57'13.850" 39.953847°	109°29'39.356" 109.494265°
Existing Well NBU 1021-13A	39°57'13.877" 39.953855°	109°29'39.676" 109.494354°

SURFACE POSITION FOOTAGES:

NBU 1021-13B3CS
696' FNL, 1328' FEL

NBU 1021-13A3CS
682' FNL, 1314' FEL

NBU 1021-13H4CS
667' FNL, 1301' FEL

NBU 1021-13H4AS
652' FNL, 1287' FEL

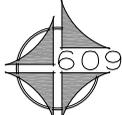
NBU 1021-13A (Existing Well Head)
650' FNL, 1312' FEL

LATITUDE & LONGITUDE Bottom Hole - (NAD 83)		
WELL	N. LATITUDE	W. LONGITUDE
1021-13B3CS	39°57'07.094" 39.951971°	109°29'55.555" 109.498765°
1021-13A3CS	39°57'07.721" 39.952145°	109°29'42.336" 109.495093°
1021-13H4CS	39°56'56.091" 39.948914°	109°29'31.345" 109.492040°
1021-13H4AS	39°56'59.856" 39.949960°	109°29'27.006" 109.490835°

LATITUDE & LONGITUDE Bottom Hole - (NAD 27)		
WELL	N. LATITUDE	W. LONGITUDE
1021-13B3CS	39°57'07.219" 39.952005°	109°29'53.087" 109.498080°
1021-13A3CS	39°57'07.846" 39.952179°	109°29'39.869" 109.494408°
1021-13H4CS	39°56'56.215" 39.948949°	109°29'28.879" 109.491355°
1021-13H4AS	39°56'59.981" 39.949995°	109°29'24.540" 109.490150°

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

NBU 1021-13B3CS, NBU 1021-13A3CS,
NBU 1021-13H4CS & NBU 1021-13H4AS
LOCATED IN SECTION 13, T10S, R21E,
S.L.B.&M. UINTAH COUNTY, UTAH.

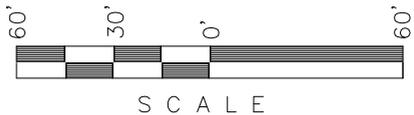


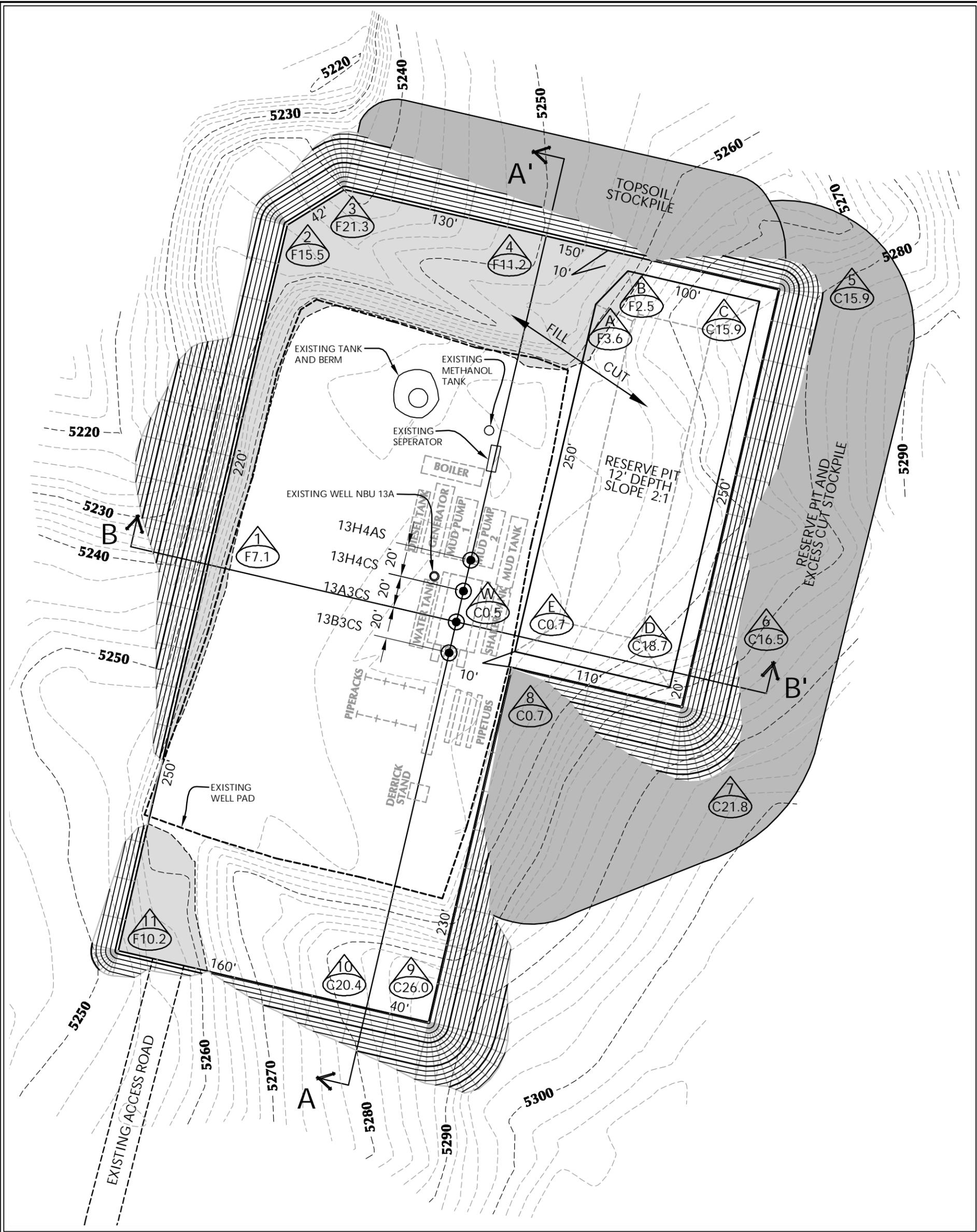
CONSULTING, LLC
371 Coffeen Avenue
Sheridan WY 82801
Phone 307-674-0609
Fax 307-674-0182

DATE SURVEYED: 12-01-08	SURVEYED BY: M.S.B.
DATE DRAWN: 12-19-08	DRAWN BY: E.M.S.
	REVISED: 01-28-09

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

SHEET
5
OF 13





WELL PAD NBU 13A QUANTITIES

EXISTING GRADE @ CENTER OF WELL PAD = 5,261.9'
 FINISHED GRADE ELEVATION = 5,261.4'
 CUT SLOPES = 1.5:1
 FILL SLOPES = 1.5:1

TOTAL CUT FOR WELL PAD = 17,310 C.Y.
 TOTAL FILL FOR WELL PAD = 13,743 C.Y.
 TOPSOIL @ 6" DEPTH = 1,951 C.Y.
 EXCESS MATERIAL = 3,567 C.Y.
 TOTAL DISTURBANCE = 3.88 ACRES
 SHRINKAGE FACTOR = 1.10
 SWELL FACTOR = 1.00
 RESERVE PIT CAPACITY (2' OF FREEBOARD)
 +/- 28,600 BARRELS
 RESERVE PIT VOLUME
 +/- 7,680 CY

WELL PAD LEGEND

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



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

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



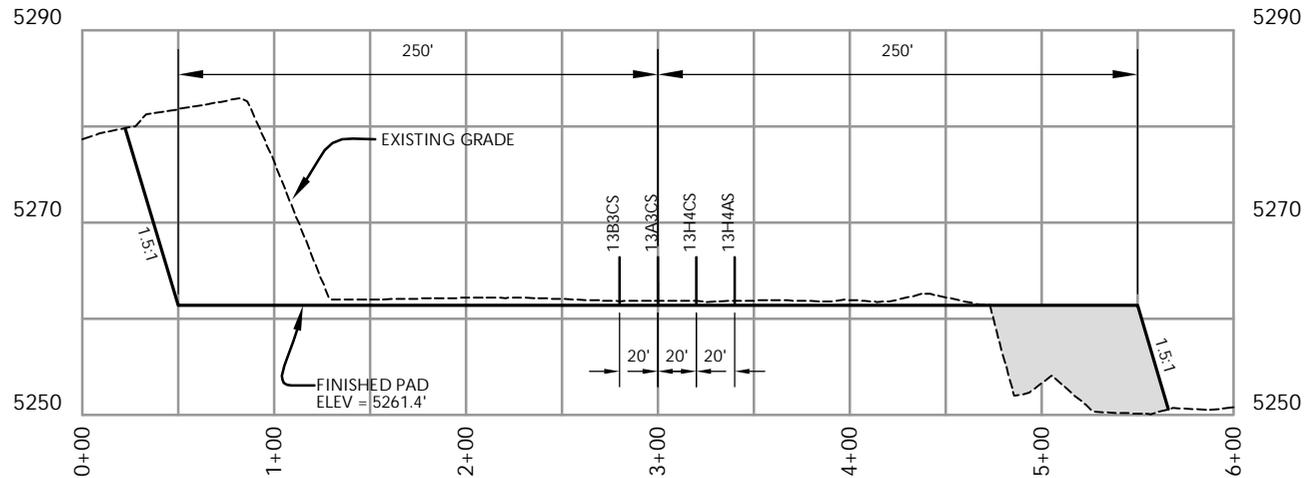
CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan WY 82801
 Phone 307-674-0609
 Fax 307-674-0182

WELL PAD - LOCATION LAYOUT
 NBU 1021-13B3CS, NBU 1021-13A3CS,
 NBU 1021-13H4CS, NBU 1021-13H4AS
 LOCATED IN SECTION 13, T.10S., R.21E.
 S.L.B.&M., UINTAH COUNTY, UTAH

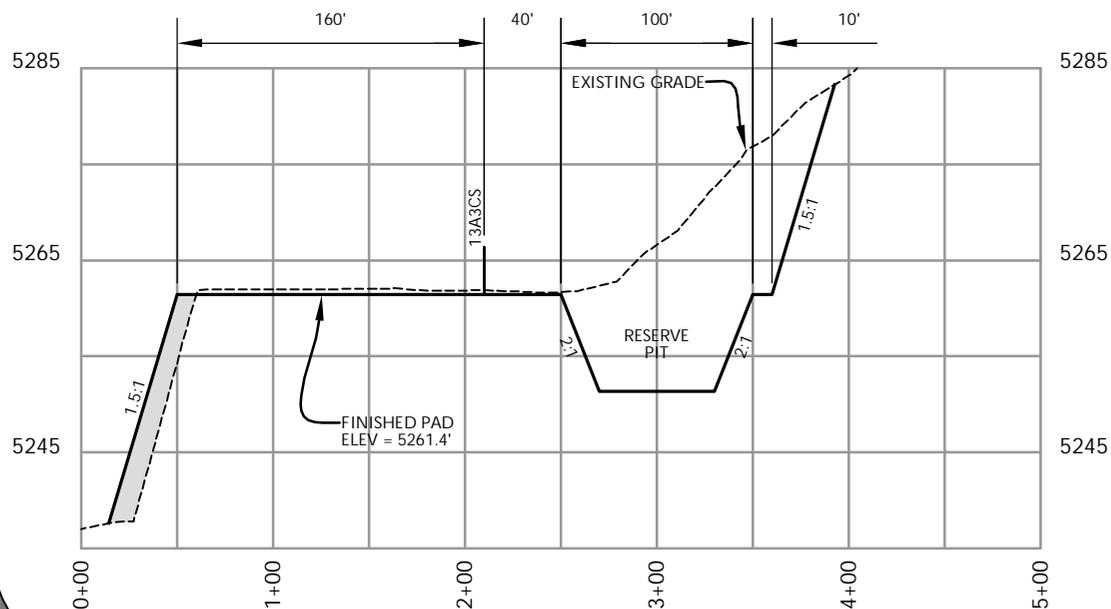
Scale: 1"=60'	Date: 2/6/09	SHEET NO:
REVISED:	BY DATE	6 6 OF 13

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

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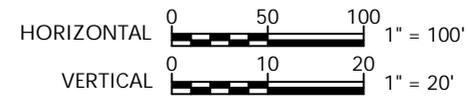


CROSS SECTION A-A'



CROSS SECTION B-B'

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



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



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

WELL PAD - CROSS SECTIONS
NBU 1021-13B3CS, NBU 1021-13A3CS,
NBU 1021-13H4CS, NBU 1021-13H4AS
LOCATED IN SECTION 13, T.10S., R.21E.
S.L.B.&M., Uintah County, Utah

Scale: 1"=100'	Date: 2/6/09	SHEET NO:
REVISED:	BY DATE	7 7 OF 13

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

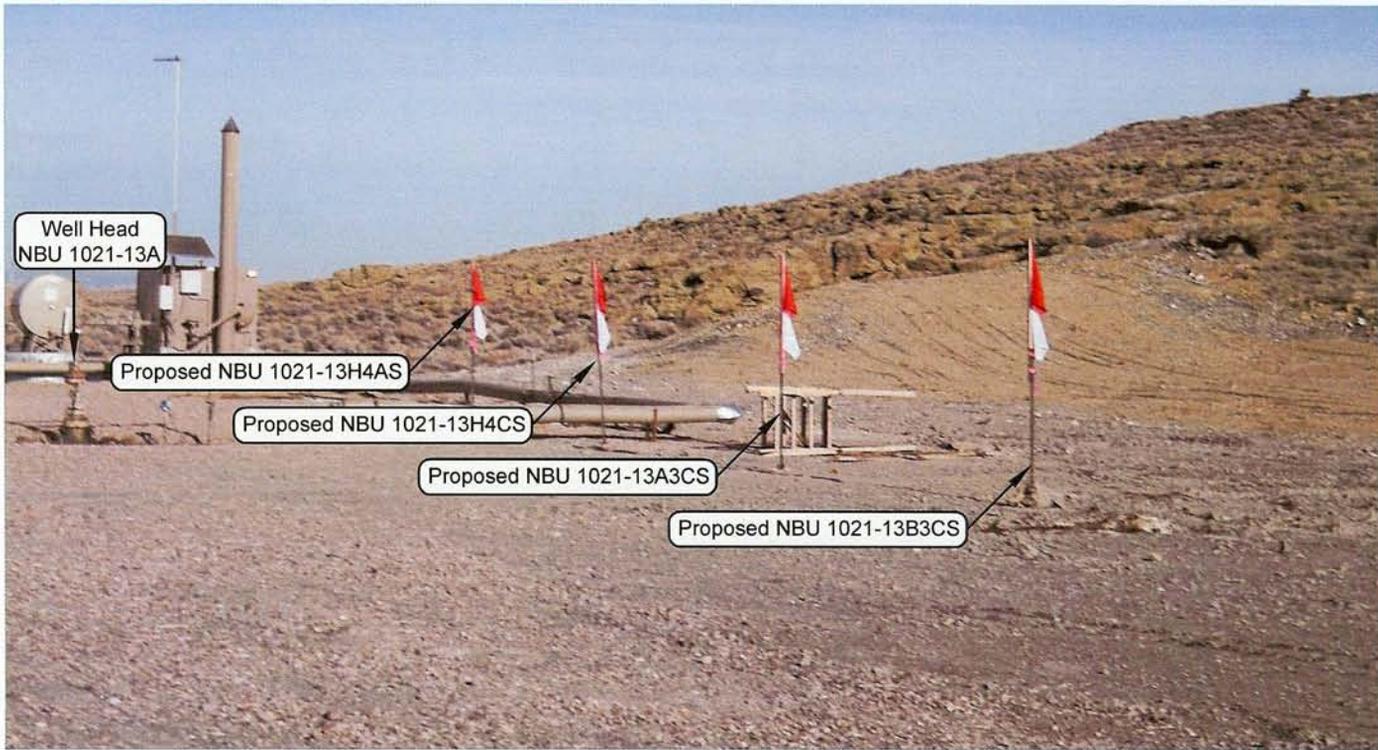


PHOTO VIEW: TO LOCATION STAKES

CAMERA ANGLE: NORTHEASTERLY

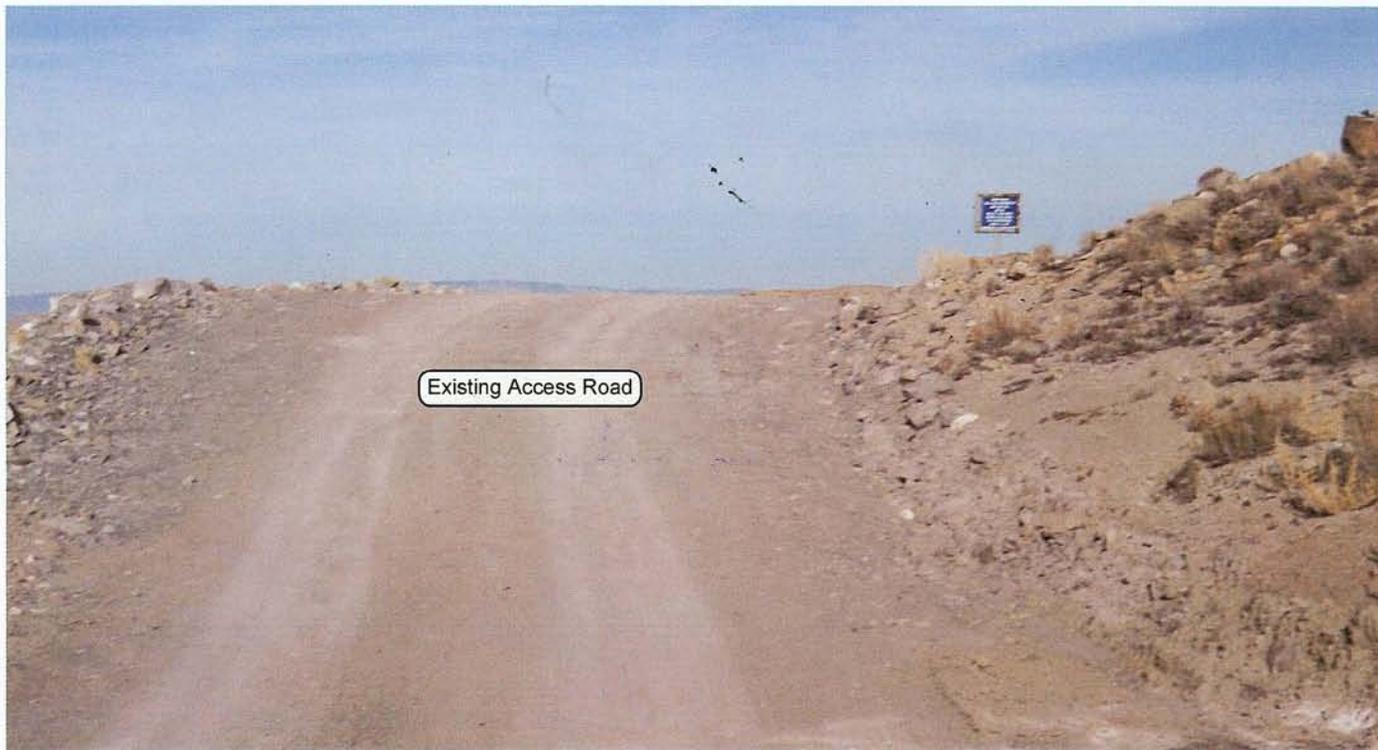


PHOTO VIEW: FROM EXISTING ROAD

CAMERA ANGLE: NORTHEASTERLY

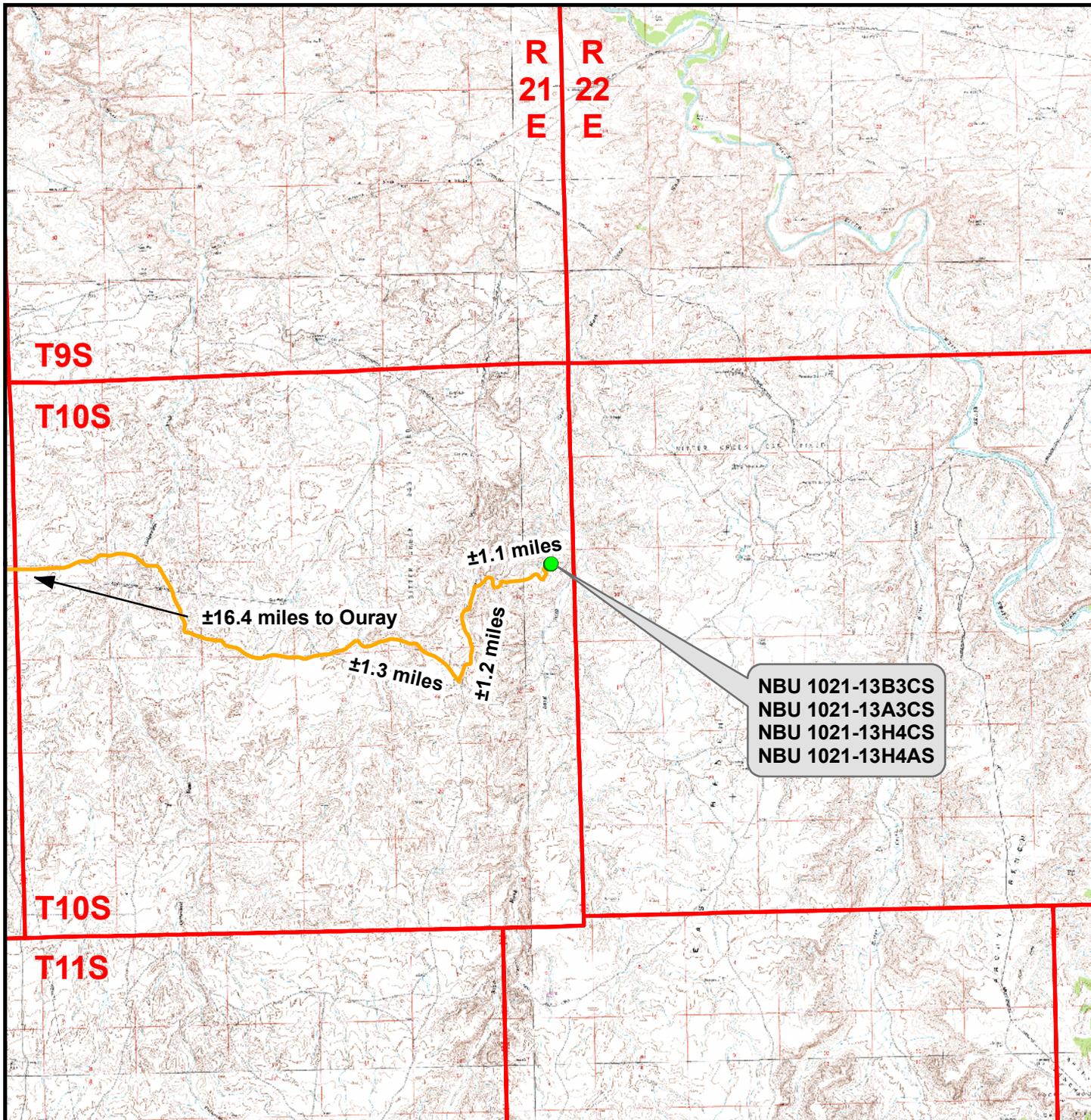
Kerr-McGee
Oil & Gas Onshore, LP
 1099 18th Street - Denver, Colorado 80202



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

NBU 1021-13B3CS, NBU 1021-13A3CS,
 NBU 1021-13H4CS & NBU 1021-13H4AS
 LOCATED IN SECTION 13, T10S, R21E,
 S.L.B.&M. UINTAH COUNTY, UTAH.

LOCATION PHOTOS		DATE TAKEN: 12-01-08
		DATE DRAWN: 12-19-08
TAKEN BY: M.S.B.	DRAWN BY: E.M.S.	REVISED: 01-28-09
Timberline Engineering & Land Surveying, Inc. 209 NORTH 300 WEST VERNAL, UTAH 84078		(435) 789-1365 SHEET 8 OF 13



Legend

- Proposed Well Location
- Access Route - Proposed

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

**NBU 1021-13B3CS, NBU 1021-13A3CS,
 NBU 1021-13H4CS & NBU 1021-13H4AS**

Topo A

**Located In Section 13, T10S, R21E
 S.L.B.&M., Uintah County, Utah**

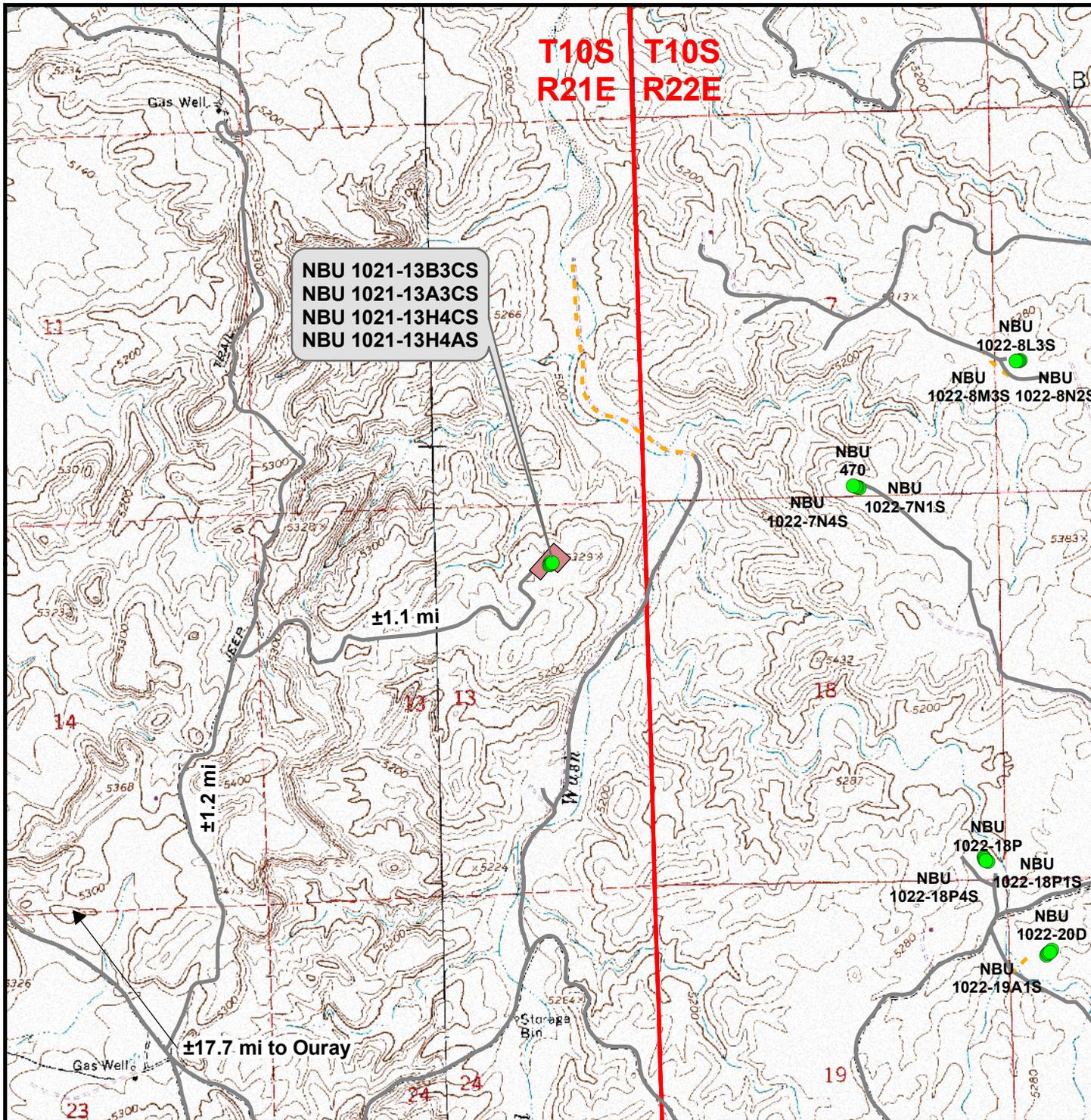


CONSULTING, LLC
 371 Coffeen Avenue
 Sheridan, WY 82801
 Phone (307) 674-0609
 Fax (307) 674-0182



Scale: 1:100,000	NAD83 USP Central
Drawn: JELO	Date: 6 Feb 2009
Revised:	Date:

Sheet No: 9	9 of 13
-----------------------	---------



Legend

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

Total Proposed Road Length: ±0ft

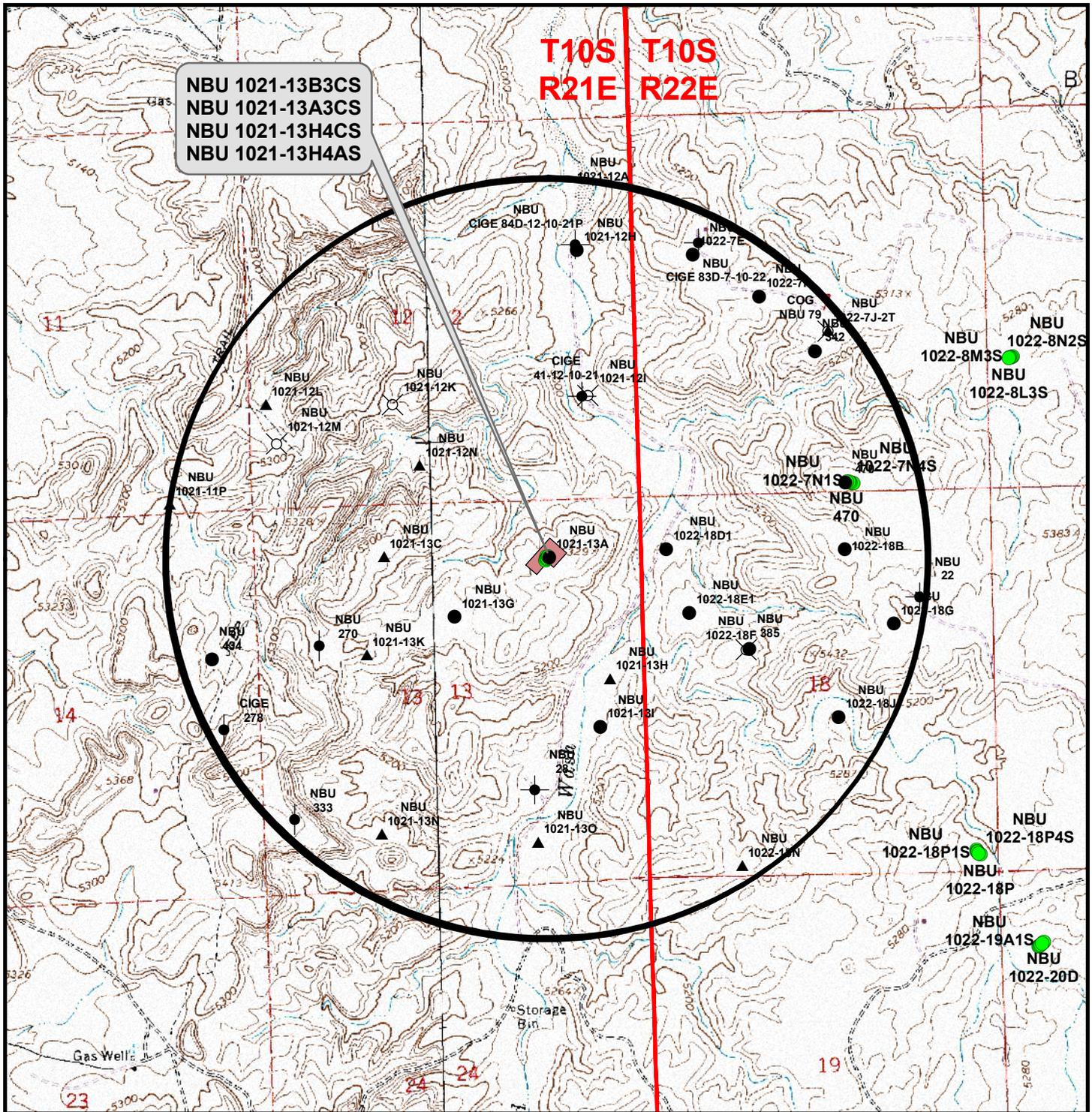
Kerr-McGee Oil & Gas Onshore, LP
 1099 18th Street, Denver, Colorado 80202

**NBU 1021-13B3CS, NBU 1021-13A3CS,
 NBU 1021-13H4CS & NBU 1021-13H4AS**
Topo B
 Located In Section 13, T10S, R21E
 S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: <b style="font-size: 2em;">10 10 of 13
Drawn: JELO	Date: 6 Feb 2009	
Revised:	Date:	



Legend

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

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

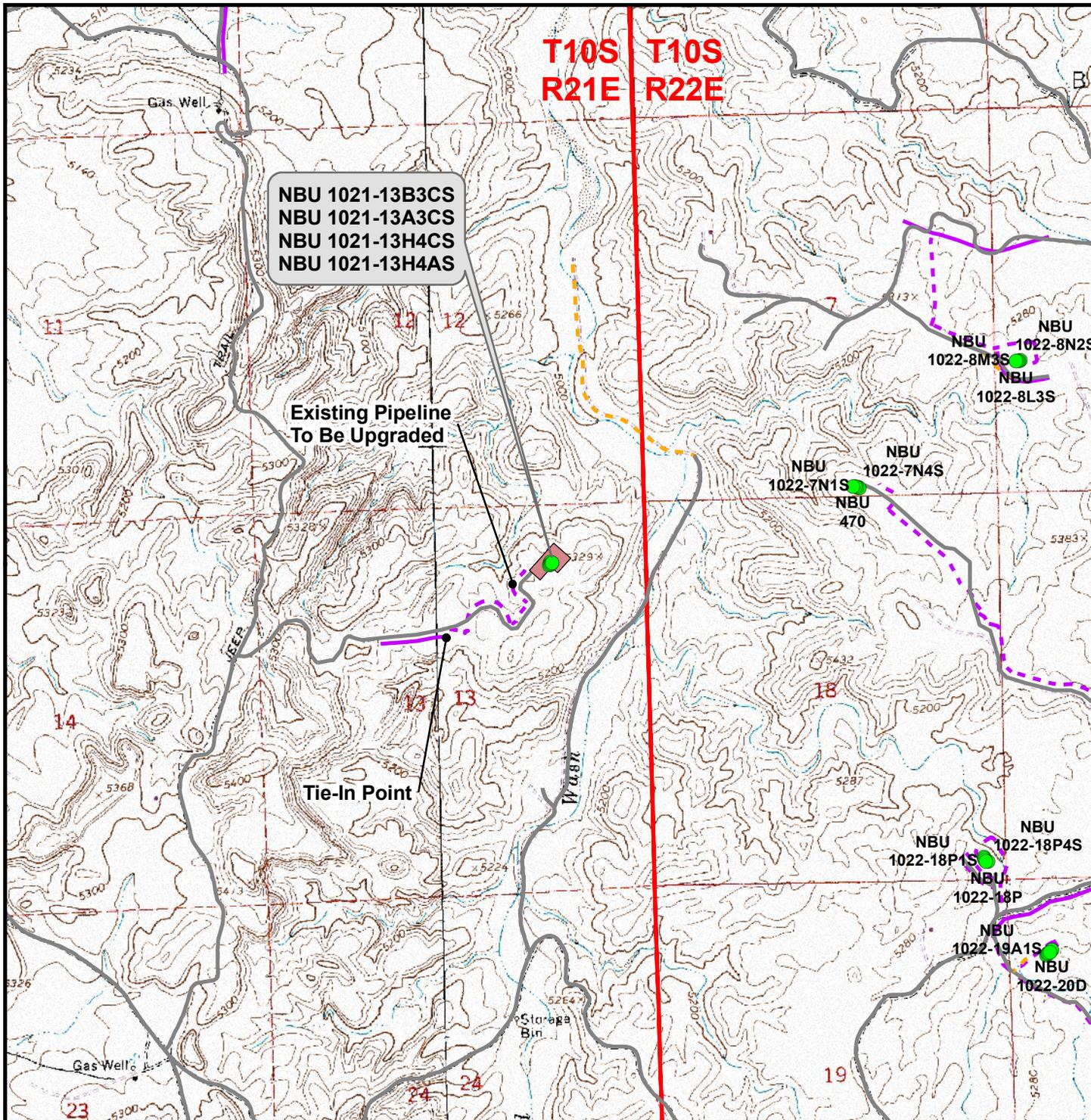
Kerr-McGee Oil & Gas Onshore, LP
1099 18th Street, Denver, Colorado 80202

**NBU 1021-13B3CS, NBU 1021-13A3CS,
NBU 1021-13H4CS & NBU 1021-13H4AS**
Topo C
Located In Section 13, T10S, R21E
S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 11 11 of 13
Drawn: JELO	Date: 6 Feb 2009	
Revised:	Date:	



Legend

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

Proposed Pipeline Length From Tie-In Point To Edge Of Pad: ±2,465ft
 Proposed Pipeline Length Around Pad: ±660ft

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

**NBU 1021-13B3CS, NBU 1021-13A3CS,
 NBU 1021-13H4CS & NBU 1021-13H4AS**
Topo D
Located In Section 13, T10S, R21E
S.L.B.&M., Uintah County, Utah

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



Scale: 1" = 2000ft	NAD83 USP Central	Sheet No: 12 12 of 13
Drawn: JELO	Date: 6 Feb 2009	
Revised:	Date:	

Kerr-McGee Oil & Gas Onshore, LP
NBU 1021-13B3CS, NBU 1021-13A3CS, NBU 1021-13H4CS
& NBU 1021-13H4AS
Section 13, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 13.9 MILES TO THE JUNCTION OF STATE HIGHWAY 88. EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION ALONG STATE HIGHWAY 88 APPROXIMATELY 16.8 MILES TO OURAY, UTAH. FROM OURAY, PROCEED IN A SOUTHERLY DIRECTION ALONG THE SEEP RIDGE ROAD (COUNTY B ROAD 2810) APPROXIMATELY 11.2 MILES TO THE INTERSECTION OF THE GLEN BENCH ROAD (COUNTY B ROAD 3260). EXIT LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION ALONG THE GLEN BENCH ROAD APPROXIMATELY 5.2 MILES TO THE INTERSECTION OF THE BITTER CREEK ROAD (COUNTY B ROAD 4120). EXIT RIGHT AND PROCEED IN A SOUTHEASTERLY DIRECTION ALONG THE BITTER CREEK ROAD APPROXIMATELY 1.3 MILES TO THE INTERSECTION OF THE WEST SAND WASH ROAD (COUNTY B ROAD 4110). EXIT LEFT AND PROCEED IN A NORTHERLY DIRECTION ALONG THE WEST SAND WASH ROAD APPROXIMATELY 1.2 MILES TO A SERVICE ROAD RUNNING EASTERLY. EXIT RIGHT AND PROCEED IN AN EAST BY NORTHEAST DIRECTION ALONG THE SERVICE ROAD APPROXIMATELY 1.1 MILES TO THE EXISTING WELL PAD.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 50.7 MILES IN A SOUTHERLY DIRECTION.

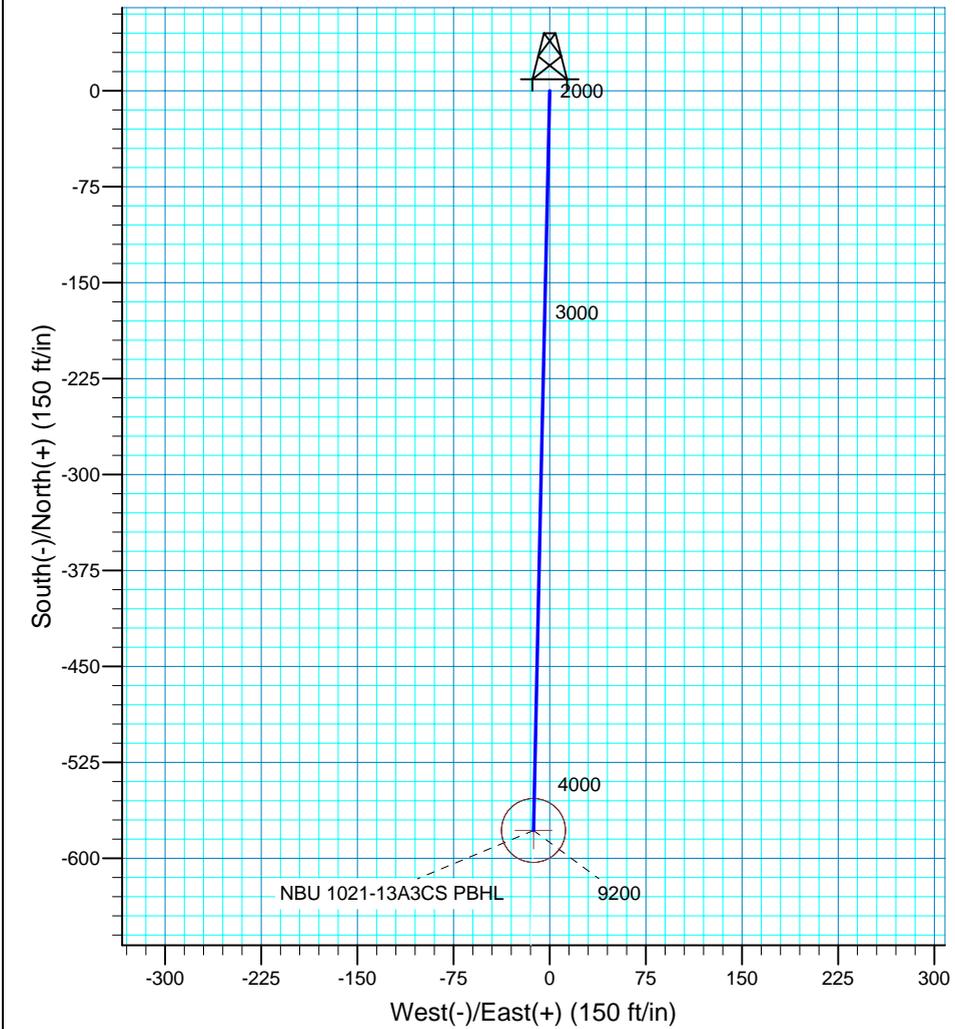
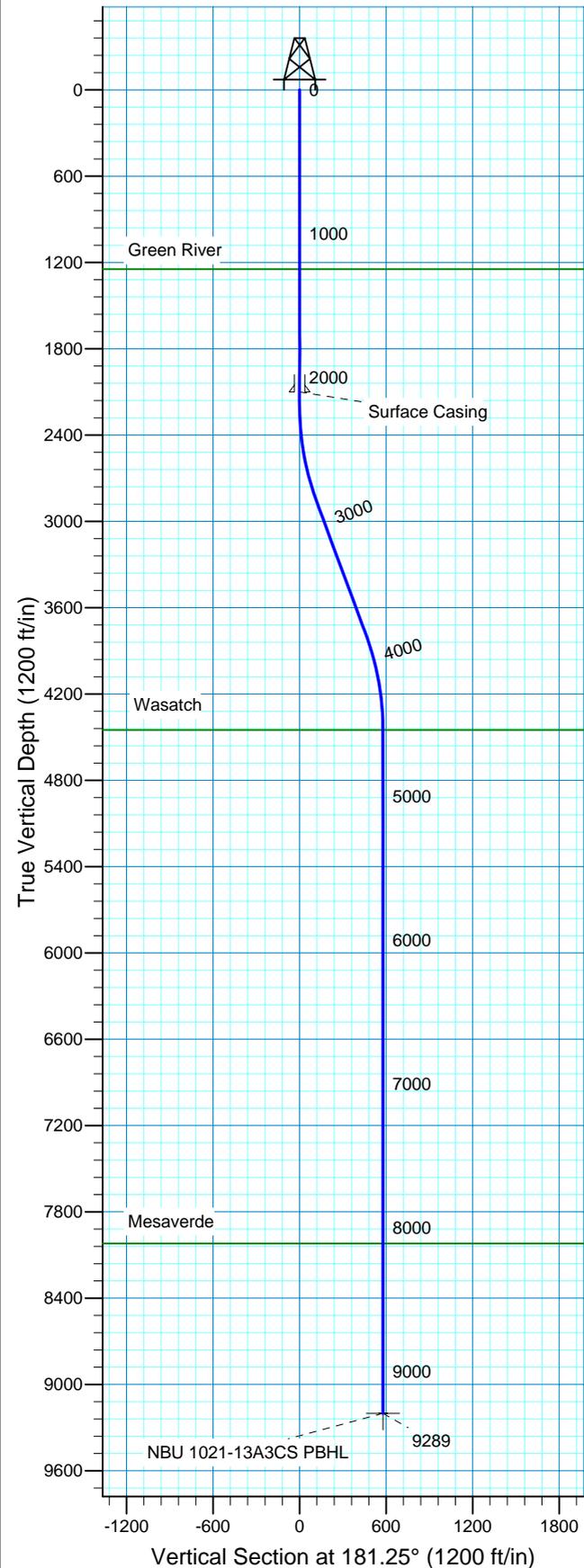


T M

 Azimuths to True North
 Magnetic North: 11.33°
 Magnetic Field
 Strength: 52550.1snT
 Dip Angle: 65.89°
 Date: 3/25/2009
 Model: IGRF200510

WELL DETAILS: NBU 1021-13A3CS

			GL 5261' & RKB 18' @ 5279.00ft	5261.00	
+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	596509.85	2562201.14	39° 57' 13.561 N	109° 29' 39.707 W



FORMATION TOP DETAILS		Plan: Plan #1 (NBU 1021-13A3CS/OH)	
TVDPath	MDPath	Formation	
1245.00	1245.00	Green River	
4449.00	4538.11	Wasatch	
8020.00	8109.11	Mesaverde	
		Created By: Laura Turner Date: 2009-03-25	
PROJECT DETAILS: Uintah County, UT NAD27			
Geodetic System: US State Plane 1927 (Exact solution)			
Datum: NAD 1927 (NADCON CONUS)			
Ellipsoid: Clarke 1866			
Zone: Utah Central 4302			
Location: Sec 1 T10S R21E			
System Datum: Mean Sea Level			
Local North: True			

SECTION DETAILS										
Sec	MD	Inc	Azi	TVD	+N/-S	+E/-W	DLeg	TFace	VSec	Target
	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
	2200.00	0.00	0.00	2200.00	0.00	0.00	0.00	0.00	0.00	
	2875.57	20.27	181.25	2861.57	-118.21	-2.58	3.00	181.25	118.24	
	3862.54	20.27	181.25	3787.43	-460.01	-10.04	0.00	0.00	460.12	
	4538.11	0.00	0.00	4449.00	-578.23	-12.62	3.00	180.00	578.37	
	9289.11	0.00	0.00	9200.00	-578.23	-12.62	0.00	0.00	578.37	NBU 1021-13A3CS PBHL

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 1021-13A Pad
NBU 1021-13A3CS
OH**

Plan: Plan #1

Standard Planning Report

25 March, 2009

Scientific Drilling Planning Report

Database: EDM2003.16 MultiuserDB	Local Co-ordinate Reference: Well NBU 1021-13A3CS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 5261' & RKB 18' @ 5279.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 5261' & RKB 18' @ 5279.00ft
Site: NBU 1021-13A Pad	North Reference: True
Well: NBU 1021-13A3CS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Project Uintah County, UT NAD27	
Map System: US State Plane 1927 (Exact solution)	System Datum: Mean Sea Level
Geo Datum: NAD 1927 (NADCON CONUS)	
Map Zone: Utah Central 4302	

Site NBU 1021-13A Pad, Sec 1 T10S R21E			
Site Position:	Northing: 596,539.70 ft	Latitude:	39° 57' 13.850 N
From: Lat/Long	Easting: 2,562,227.81 ft	Longitude:	109° 29' 39.356 W
Position Uncertainty: 0.00 ft	Slot Radius: in	Grid Convergence:	1.28 °

Well NBU 1021-13A3CS, 682' FNL 1314' FEL			
Well Position	+N/-S 0.00 ft	Northing: 596,509.85 ft	Latitude: 39° 57' 13.561 N
	+E/-W 0.00 ft	Easting: 2,562,201.14 ft	Longitude: 109° 29' 39.707 W
Position Uncertainty	0.00 ft	Wellhead Elevation: ft	Ground Level: 5,261.00 ft

Wellbore OH

Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	3/25/2009	11.33	65.89	52,550

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	181.25

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	
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00	
2,875.57	20.27	181.25	2,861.57	-118.21	-2.58	3.00	3.00	0.00	181.25	
3,862.54	20.27	181.25	3,787.43	-460.01	-10.04	0.00	0.00	0.00	0.00	
4,538.11	0.00	0.00	4,449.00	-578.23	-12.62	3.00	-3.00	0.00	180.00	
9,289.11	0.00	0.00	9,200.00	-578.23	-12.62	0.00	0.00	0.00	0.00	NBU 1021-13A3CS

Scientific Drilling Planning Report

Database:	EDM2003.16 MultiuserDB	Local Co-ordinate Reference:	Well NBU 1021-13A3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5261' & RKB 18' @ 5279.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5261' & RKB 18' @ 5279.00ft
Site:	NBU 1021-13A Pad	North Reference:	True
Well:	NBU 1021-13A3CS	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
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	0.00	0.00	800.00	0.00	0.00	0.00	0.00	0.00	0.00
900.00	0.00	0.00	900.00	0.00	0.00	0.00	0.00	0.00	0.00
1,000.00	0.00	0.00	1,000.00	0.00	0.00	0.00	0.00	0.00	0.00
1,100.00	0.00	0.00	1,100.00	0.00	0.00	0.00	0.00	0.00	0.00
1,200.00	0.00	0.00	1,200.00	0.00	0.00	0.00	0.00	0.00	0.00
1,245.00	0.00	0.00	1,245.00	0.00	0.00	0.00	0.00	0.00	0.00
Green River									
1,300.00	0.00	0.00	1,300.00	0.00	0.00	0.00	0.00	0.00	0.00
1,400.00	0.00	0.00	1,400.00	0.00	0.00	0.00	0.00	0.00	0.00
1,500.00	0.00	0.00	1,500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,600.00	0.00	0.00	1,600.00	0.00	0.00	0.00	0.00	0.00	0.00
1,700.00	0.00	0.00	1,700.00	0.00	0.00	0.00	0.00	0.00	0.00
1,800.00	0.00	0.00	1,800.00	0.00	0.00	0.00	0.00	0.00	0.00
1,900.00	0.00	0.00	1,900.00	0.00	0.00	0.00	0.00	0.00	0.00
2,000.00	0.00	0.00	2,000.00	0.00	0.00	0.00	0.00	0.00	0.00
2,100.00	0.00	0.00	2,100.00	0.00	0.00	0.00	0.00	0.00	0.00
Surface Casing									
2,200.00	0.00	0.00	2,200.00	0.00	0.00	0.00	0.00	0.00	0.00
Start Build 3.00									
2,300.00	3.00	181.25	2,299.95	-2.62	-0.06	2.62	3.00	3.00	0.00
2,400.00	6.00	181.25	2,399.63	-10.46	-0.23	10.46	3.00	3.00	0.00
2,500.00	9.00	181.25	2,498.77	-23.51	-0.51	23.51	3.00	3.00	0.00
2,600.00	12.00	181.25	2,597.08	-41.73	-0.91	41.74	3.00	3.00	0.00
2,700.00	15.00	181.25	2,694.31	-65.06	-1.42	65.08	3.00	3.00	0.00
2,800.00	18.00	181.25	2,790.18	-93.45	-2.04	93.48	3.00	3.00	0.00
2,872.25	20.17	181.25	2,858.45	-117.07	-2.55	117.10	3.00	3.00	0.00
Start 20.17° Hold At 2872.25' MD									
2,875.57	20.27	181.25	2,861.57	-118.21	-2.58	118.24	3.00	3.00	0.00
2,900.00	20.27	181.25	2,884.49	-126.68	-2.76	126.71	0.00	0.00	0.00
3,000.00	20.27	181.25	2,978.30	-161.31	-3.52	161.35	0.00	0.00	0.00
3,100.00	20.27	181.25	3,072.10	-195.94	-4.27	195.98	0.00	0.00	0.00
3,200.00	20.27	181.25	3,165.91	-230.57	-5.03	230.62	0.00	0.00	0.00
3,300.00	20.27	181.25	3,259.72	-265.20	-5.79	265.26	0.00	0.00	0.00
3,400.00	20.27	181.25	3,353.53	-299.83	-6.54	299.90	0.00	0.00	0.00
3,500.00	20.27	181.25	3,447.34	-334.46	-7.30	334.54	0.00	0.00	0.00
3,600.00	20.27	181.25	3,541.15	-369.09	-8.05	369.18	0.00	0.00	0.00
3,700.00	20.27	181.25	3,634.96	-403.73	-8.81	403.82	0.00	0.00	0.00
3,800.00	20.27	181.25	3,728.77	-438.36	-9.56	438.46	0.00	0.00	0.00
3,862.54	20.27	181.25	3,787.43	-460.01	-10.04	460.12	0.00	0.00	0.00
3,870.55	20.03	181.25	3,794.95	-462.77	-10.10	462.88	3.00	-3.00	0.00
Start Drop -3.00									
3,900.00	19.14	181.25	3,822.70	-472.64	-10.31	472.76	3.00	-3.00	0.00
4,000.00	16.14	181.25	3,917.99	-502.94	-10.97	503.06	3.00	-3.00	0.00
4,100.00	13.14	181.25	4,014.73	-528.21	-11.52	528.34	3.00	-3.00	0.00
4,200.00	10.14	181.25	4,112.66	-548.39	-11.96	548.52	3.00	-3.00	0.00

Scientific Drilling Planning Report

Database:	EDM2003.16 MultiuserDB	Local Co-ordinate Reference:	Well NBU 1021-13A3CS
Company:	Kerr McGee Oil and Gas Onshore LP	TVD Reference:	GL 5261' & RKB 18' @ 5279.00ft
Project:	Uintah County, UT NAD27	MD Reference:	GL 5261' & RKB 18' @ 5279.00ft
Site:	NBU 1021-13A Pad	North Reference:	True
Well:	NBU 1021-13A3CS	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	7.14	181.25	4,211.51	-563.41	-12.29	563.54	3.00	-3.00	0.00
4,400.00	4.14	181.25	4,311.02	-573.24	-12.51	573.38	3.00	-3.00	0.00
4,500.00	1.14	181.25	4,410.90	-577.85	-12.61	577.99	3.00	-3.00	0.00
4,538.11	0.00	0.00	4,449.00	-578.23	-12.62	578.37	3.00	-3.00	469.10
Wasatch									
4,542.80	0.00	0.00	4,453.69	-578.23	-12.62	578.37	0.00	0.00	0.00
Start 0.00° Hold At 4542.80' MD									
4,600.00	0.00	0.00	4,510.89	-578.23	-12.62	578.37	0.00	0.00	0.00
4,700.00	0.00	0.00	4,610.89	-578.23	-12.62	578.37	0.00	0.00	0.00
4,800.00	0.00	0.00	4,710.89	-578.23	-12.62	578.37	0.00	0.00	0.00
4,900.00	0.00	0.00	4,810.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,000.00	0.00	0.00	4,910.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,100.00	0.00	0.00	5,010.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,200.00	0.00	0.00	5,110.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,300.00	0.00	0.00	5,210.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,400.00	0.00	0.00	5,310.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,500.00	0.00	0.00	5,410.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,600.00	0.00	0.00	5,510.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,700.00	0.00	0.00	5,610.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,800.00	0.00	0.00	5,710.89	-578.23	-12.62	578.37	0.00	0.00	0.00
5,900.00	0.00	0.00	5,810.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,000.00	0.00	0.00	5,910.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,100.00	0.00	0.00	6,010.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,200.00	0.00	0.00	6,110.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,300.00	0.00	0.00	6,210.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,400.00	0.00	0.00	6,310.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,500.00	0.00	0.00	6,410.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,600.00	0.00	0.00	6,510.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,700.00	0.00	0.00	6,610.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,800.00	0.00	0.00	6,710.89	-578.23	-12.62	578.37	0.00	0.00	0.00
6,900.00	0.00	0.00	6,810.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,000.00	0.00	0.00	6,910.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,100.00	0.00	0.00	7,010.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,200.00	0.00	0.00	7,110.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,300.00	0.00	0.00	7,210.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,400.00	0.00	0.00	7,310.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,500.00	0.00	0.00	7,410.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,600.00	0.00	0.00	7,510.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,700.00	0.00	0.00	7,610.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,800.00	0.00	0.00	7,710.89	-578.23	-12.62	578.37	0.00	0.00	0.00
7,900.00	0.00	0.00	7,810.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,000.00	0.00	0.00	7,910.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,100.00	0.00	0.00	8,010.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,109.11	0.00	0.00	8,020.00	-578.23	-12.62	578.37	0.00	0.00	0.00
Mesaverde									
8,200.00	0.00	0.00	8,110.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,300.00	0.00	0.00	8,210.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,400.00	0.00	0.00	8,310.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,500.00	0.00	0.00	8,410.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,600.00	0.00	0.00	8,510.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,700.00	0.00	0.00	8,610.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,800.00	0.00	0.00	8,710.89	-578.23	-12.62	578.37	0.00	0.00	0.00
8,900.00	0.00	0.00	8,810.89	-578.23	-12.62	578.37	0.00	0.00	0.00

Scientific Drilling Planning Report

Database: EDM2003.16 MultiuserDB	Local Co-ordinate Reference: Well NBU 1021-13A3CS
Company: Kerr McGee Oil and Gas Onshore LP	TVD Reference: GL 5261' & RKB 18' @ 5279.00ft
Project: Uintah County, UT NAD27	MD Reference: GL 5261' & RKB 18' @ 5279.00ft
Site: NBU 1021-13A Pad	North Reference: True
Well: NBU 1021-13A3CS	Survey Calculation Method: Minimum Curvature
Wellbore: OH	
Design: Plan #1	

Planned Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
9,000.00	0.00	0.00	8,910.89	-578.23	-12.62	578.37	0.00	0.00	0.00	
9,100.00	0.00	0.00	9,010.89	-578.23	-12.62	578.37	0.00	0.00	0.00	
9,200.00	0.00	0.00	9,110.89	-578.23	-12.62	578.37	0.00	0.00	0.00	
9,288.80	0.00	0.00	9,199.69	-578.23	-12.62	578.37	0.00	0.00	0.00	
TD at 9288.80										
9,289.11	0.00	0.00	9,200.00	-578.23	-12.62	578.37	0.00	0.00	0.00	
NBU 1021-13A3CS PBHL										

Targets										
Target Name	Dip Angle (°)	Dip Dir. (°)	TVD (ft)	+N/-S (ft)	+E/-W (ft)	Northing (ft)	Easting (ft)	Latitude	Longitude	
NBU 1021-13A3CS P	0.00	0.00	9,200.00	-578.23	-12.62	595,931.49	2,562,201.49	39° 57' 7.846 N	109° 29' 39.869 W	
- hit/miss target										
- Shape										
- plan hits target center										
- Circle (radius 25.00)										

Casing Points						
Measured Depth (ft)	Vertical Depth (ft)	Name	Casing Diameter (in)	Hole Diameter (in)		
2,100.00	2,100.00	Surface Casing	9.625	13.500		

Formations						
Measured Depth (ft)	Vertical Depth (ft)	Name	Lithology	Dip (°)	Dip Direction (°)	
1,245.00	1,245.00	Green River		0.00		
4,538.11	4,449.00	Wasatch		0.00		
8,109.11	8,020.00	Mesaverde		0.00		

Plan Annotations					
Measured Depth (ft)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Comment	
2,200.00	2,200.00	0.00	0.00	Start Build 3.00	
2,872.25	2,858.45	-117.07	-2.55	Start 20.17° Hold At 2872.25' MD	
3,870.55	3,794.95	-462.77	-10.10	Start Drop -3.00	
4,542.80	4,453.69	-578.23	-12.62	Start 0.00° Hold At 4542.80' MD	
9,288.80	9,199.69	-578.23	-12.62	TD at 9288.80	

NBU 1021-13A3CS

Pad: NBU 1021-13A

Surface: 682' FNL, 1,314' FEL (NE/4NE/4)

BHL: 1,260' FNL 1,330' FEL (NE/4NE/4)

Sec. 13 T10S R21E

Uintah, Utah

Mineral Lease: ML 23608

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

Directional Drilling:

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

1. Existing Roads:

Refer to Topo Map A for directions to the location.

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

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

All existing roads will be maintained and kept in good repair during all drilling and completion operations associated with this well.

2. Planned Access Roads:

Approximately ± 0.0 mi. ($\pm 0'$) of new access road is proposed. Please refer to the attached Topo Map B.

The upgraded and new portions of the access road will be crowned and ditched with a running surface of 18 feet and a maximum disturbed width of 30 feet. Appropriate water control will be installed to control erosion.

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

The access road was centerline flagged during time of staking.

Surfacing material may be necessary, depending upon weather conditions.

Surface disturbance and vehicular traffic will be limited to the approved location and approved access route. Any additional area needed will be approved in advance.

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

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

The following guidelines will apply if the well is productive.

All production facilities will be located on the disturbed portion of the well pad and at a minimum of 25 feet from the toe of the back slope or the top of the fill slope.

A dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks, and/or heater/treater). These dikes will be constructed of compacted subsoil, be impervious, hold 100% of the capacity of the largest tank, and be independent of the back cut.

All permanent (on-site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a flat, non-reflective, earthtone color to match one of the standard environmental colors, as determined by the five state Rocky Mountain Inter-Agency Committee.

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The required color is Shadow Gray, a non-reflective earthtone.

Any necessary pits will be properly fenced to protect livestock and prevent wildlife entry.

5. Location and Type of Water Supply:

Water for drilling purposes will be obtained from Dalbo Inc.'s underground well located in Ouray, Utah, Sec. 32 T4S R3E, Water User Claim #43-8496, Application #53617.

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.

6. Source of Construction Materials:

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids, including salts and chemicals, will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be removed and disposed of at an approved waste disposal facility within 120 days after drilling is terminated.

The reserve pit will be constructed on the location and will not be located within natural drainage, where a flood hazard exists or surface runoff will destroy or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

A plastic reinforced liner and felt will be used; it will be a minimum of 20 mil thick, with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit. Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

A chemical porta-toilet will be furnished with the drilling rig.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. No trash will be burned on location.

All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig.

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling of this well. Furthermore, no extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will be used, produced, stored, transported, or disposed of in association with the drilling of this well.

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI in Sec. 5 T9S R22E, NBU #159 in Sec. 35 T9S R21E, Ace Oilfield in Sec. 2 T6S R20E, MC&MC in Sec. 12 T6S R19E, Pipeline Facility in Sec. 36 T9S R20E, Goat Pasture Evaporation Pond in SW/4 Sec. 16 T10S R22E, Bonanza Evaporation Pond in Sec. 2 T10S R23E.

8. Ancillary Facilities:

None are anticipated.

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

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills, and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram to describe rig orientation, parking areas, and access roads.

The reserve pit will be lined, and when the reserve pit is closed, the pit liner will be buried below plow depth.

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

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched, by using a stretching device, before it is attached to corner posts.

The reserve pit fencing will be on three sides during drilling operations, and on the fourth side when the rig moves off location. Pits will be fenced and maintained until cleanup.

Location size may change prior to the drilling of the well due to current rig availability. If the proposed location is not large enough to accommodate the drilling rig the location will be re-surveyed and a Form 9 shall be submitted.

10. Plans for Reclamation of the Surface:

Producing Location:

Immediately upon well completion, the location and surrounding area will be cleared of all unused tubing, materials, trash, and debris not required for production.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

A plastic, nylon reinforced liner will be used, it shall be torn and perforated before backfilling of the reserve pit.

Before any dirt work associated with location restoration takes place, the reserve pit shall be as dry as possible. All debris in it will be removed. Other waste and spoil materials will be disposed of immediately upon completion of operations.

The reserve pit and that portion of the location not needed for production facilities/operations will be recontoured to the approximate natural contours. The reserve pit will be reclaimed within 90 days from the date of well completion, weather permitting.

To prevent surface water(s) from standing (ponding) on the reclaimed reserve pit area, final reclamation of the reserve pit will consist of "mounding" the surface three feet above surrounding ground surface to allow the reclaimed pit area to drain effectively.

Upon completion of backfilling, leveling, and recontouring, the stockpiled topsoil will be spread evenly over the reclaimed area(s).

Dry Hole/Abandoned Location:

Abandoned well sites, roads, and other disturbed areas will be restored as near as practical to their original condition. Where applicable, these conditions include the re-establishment of irrigation systems, the re-establishment of appropriate soil conditions, and re-establishment of vegetation as specified.

All disturbed surfaces will be recontoured to the approximate natural contours, with reclamation of the well pad and access road to be performed as soon as practical after final abandonment. Reseeding operations will be performed after completion of other reclamation operations.

11. Surface/Mineral Ownership:

SITLA
675 East 500 South, Suite 500
Salt Lake City, UT 84102

12. Other Information:

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance.

The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

A Class III archaeological survey report is attached.

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

Kathy Schneebeck Dulnoan
Staff Regulatory Analyst
Kerr-McGee Oil & Gas Onshore LP
PO Box 173779
Denver, CO 80217-3779
(720) 929-6226

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

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

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

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

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by State Surety Bond 22013542.

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

Kathy Schneebeck Dulnoan
Kathy Schneebeck Dulnoan

April 2, 2009
Date

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S FIVE PROPOSED WELL LOCATIONS
IN TOWNSHIP 10S, RANGE 21E, SECTION 13
UINTAH COUNTY, UTAH

CLASS I REVIEW OF KERR-MCGEE OIL & GAS
ONSHORE LP'S FIVE PROPOSED WELL LOCATIONS
IN TOWNSHIP 10S, RANGE 21E, SECTION 13
UINTAH COUNTY, UTAH

By:

Jacki A. Montgomery

Prepared For:

State of Utah
School & Institutional Trust Lands Administration

Prepared Under Contract With:

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

Prepared By:

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

MOAC Report No. 09-001

February 26, 2009

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

Public Lands Policy Coordination Office
Archaeological Survey Permit No. 117

INTRODUCTION

A Class I literature review was completed by Montgomery Archaeological Consultants Inc. (MOAC) in February 2009 of Kerr-McGee Oil & Gas Onshore LP's five proposed well locations with associated pipeline corridor in Township 10S, Range 21E, Section 13. The project area is situated south of the White River, south of the town of Vernal, Uintah County, Utah. The well locations are designated NBU #13A (NBU #1021-13A) Directional Pad, NBU #1021-13B3CS, NBU #1021-13A3CS, NBU #1021-13H4AS, and NBU #1021-13H4CS. This document was implemented at the request of Ms. Raleen White, Kerr-McGee Oil & Gas Onshore LP, Denver, Colorado. Land status is state lands administered by the State of Utah School & Institutional Trust Lands Administration (SITLA).

The purpose of this Class I review is to identify, classify, and evaluate the previously conducted cultural resource inventories and archaeological sites in the project area in order to comply with Section 106 of 36 CFR 800, the National Historic Preservation Act of 1966 (as amended). Also, the inventory was implemented to attain compliance with a number of federal and state mandates, including the National Environmental Policy Act of 1969, the Archaeological and Historic Conservation Act of 1972, the Archaeological Resources Protection Act of 1979, the American Indian Religious Freedom Act of 1978, and the Utah State Antiquities Act of 1973 (amended 1990).

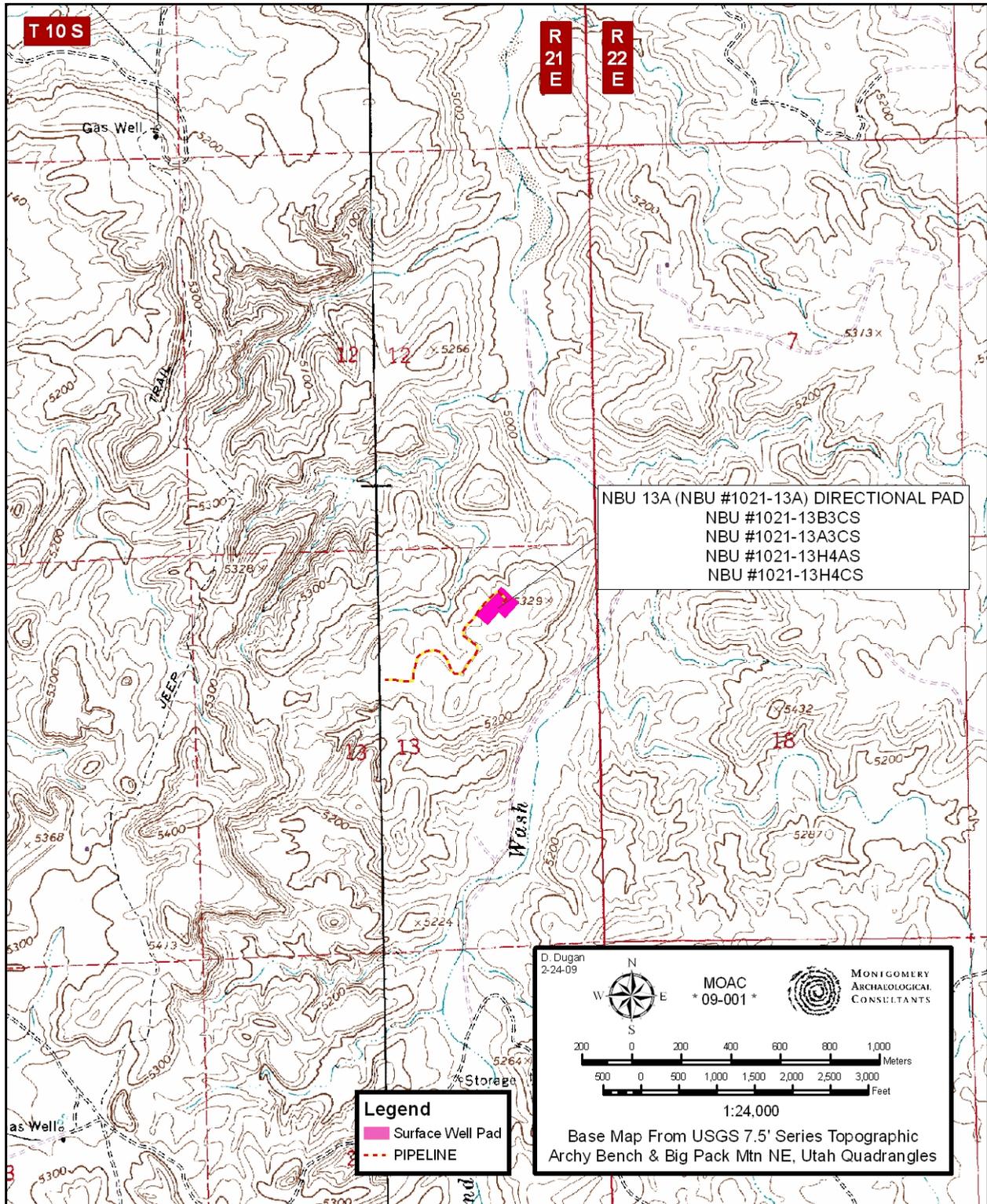
The project area was previously inventoried in 2005 by MOAC for Westport Oil and Gas Company's six well locations near Sand Wash (Jendresen and Montgomery 2005). A file search was completed by consulting MOAC's Class I existing data review of 459 square miles (293,805 acres) covering the Greater NBU study area between Bonanza and Ouray in Uintah County, northeastern Utah (Patterson et al. 2008). Record searches were performed for this Class I project by Marty Thomas at the Utah State Historic Preservation Office (SHPO) on various dates between June 14, 2006 and January 27, 2007. The results of this Class I data review and Class III inventory indicated that no previous archaeological sites occurs near the current project area.

DESCRIPTION OF THE PROJECT AREA

The project area is situated west of Sand Wash and south of the White River in the Uinta Basin. The legal description is Township 10 South, Range 21 East, Section 13 (Table 1; Figure 1).

Table 1. Kerr-McGee Onshore's Five Proposed Well Locations.

Well Designation	Legal Description	Access/Pipeline Corridor	Cultural Resources
NBU #13A (NBU #1021-13A) Directional Pad NBU #1021-13B3CS NBU #1021-13A3CS NBU #1021-13H4AS NBU #1021-13H4CS	NE/NE Sec. 13, T10S, R21E	Pipeline: 2400 ft	None



The study area lies within the Uinta Basin physiographic unit, a distinctly bowl-shaped geologic structure (Stokes 1986:231). The Uinta Basin ecosystem is within the Green River drainage, considered to be the northernmost extension of the Colorado Plateau. The geology is comprised of Tertiary age deposits, which include Paleocene age deposits and Eocene age fluvial and lacustrine sedimentary rocks. The Uinta Formation, which is predominate in the project area, occurs as eroded outcrops (formed by fluvial deposited, stream laid interbedded sandstone and mudstone), and is known for its prolific paleontological localities. Specifically, the inventory area is situated adjacent to the White River and Bitter Creek. Elevation averages 5240 ft asl. The project occurs within the Upper Sonoran Desert Shrub Association which includes; sagebrush, shadscale, greasewood, mat saltbush, snakeweed, rabbitbrush, and prickly pear cactus. Modern disturbances include livestock grazing, roads, and oil/gas development.

CLASS I RESULTS AND RECOMMENDATIONS

The Class I literature review of Kerr-McGee Oil & Gas Onshore LP's five proposed well locations with pipeline corridor resulted in no previously documented cultural resources. Therefore, archaeological clearance is recommended for this undertaking.

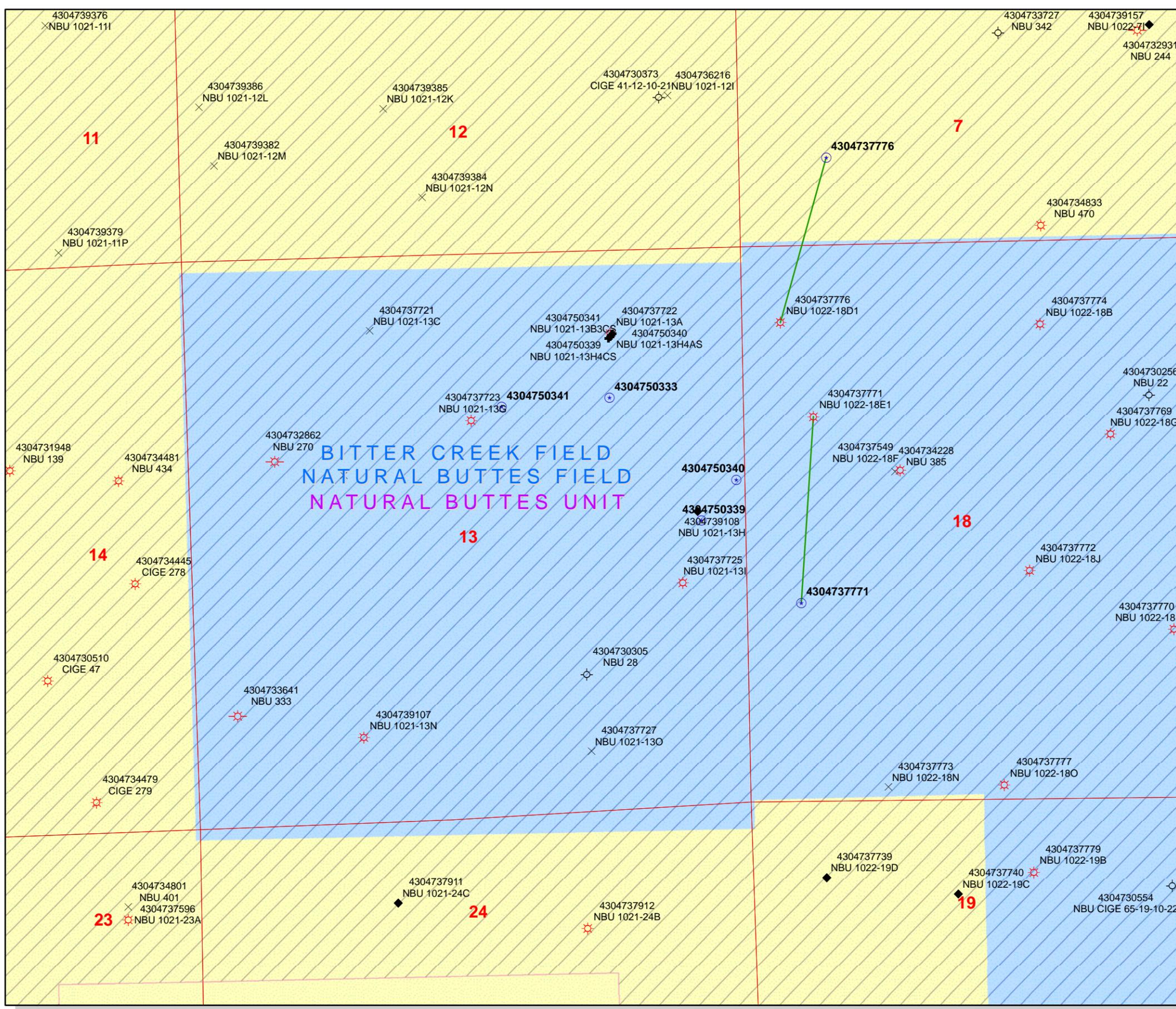
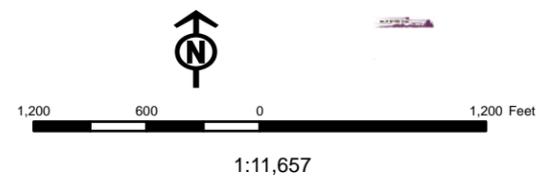
REFERENCES CITED

- Jendresen, A., and K.R. Montgomery
2005 Cultural Resource Inventory of Westport Oil and Gas Company's Six Proposed Well Locations near Sand Wash: NBU Wells 1021-13A, C, G, I, K, and O in T10S, R21E, Sec. 13, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah. Report U-05-MQ-1143.
- Patterson, J. J., J. Fritz, K. Lower-Eskelson, R. Stash and A. Thomas
2008 NBU Class I Existing Data Review for Kerr-McGee Oil & Gas Onshore LP, Uintah County, Utah. Montgomery Archaeological Consultants, Moab, Utah.
- Stokes, W. L.
1986 *Geology of Utah*. Utah Museum of Natural History and Utah Geological and Mineral Survey, Salt Lake City.

API Number: 4304750333
Well Name: NBU 1021-13A3CS
Township 10.0 S Range 21.0 E Section 13
Meridian: SLBM
 Operator: KERR-MCGEE OIL & GAS ONSHORE, L.P.

Map Prepared:
 Map Produced by Diana Mason

Units	Wells Query Events
STATUS	✕ <all other values>
ACTIVE	GIS_STAT_TYPE
EXPLORATORY	◼ <Null>
GAS STORAGE	◆ APD
NF PP OIL	◊ DRL
NF SECONDARY	⊙ GI
PI OIL	⊙ GS
PP GAS	⊙ LA
PP GEOTHERML	⊙ NEW
PP OIL	⊙ OPS
SECONDARY	⊙ PA
TERMINATED	⊙ PGW
Fields	⊙ POW
STATUS	⊙ RET
ACTIVE	⊙ SGW
COMBINED	⊙ SOW
Sections	⊙ TA
	⊙ TW
	⊙ WD
	⊙ WI
	⊙ WS



United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO:
3160
(UT-922)

April 9, 2009

Memorandum

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

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

API #	WELL NAME	LOCATION
(Proposed PZ WASATCH-MESA VERDE)		
43-047-50333	NBU 1021-13A3CS Sec 13	T10S R21E 0682 FNL 1314 FEL BHL Sec 13 T10S R21E 1260 FNL 1330 FEL
43-047-50339	NBU 1021-13H4CS Sec 13	T10S R21E 0667 FNL 1301 FEL BHL Sec 13 T10S R21E 2440 FNL 0480 FEL
43-047-50340	NBU 1021-13H4AS Sec 13	T10S R21E 0652 FNL 1287 FEL BHL Sec 13 T10S R21E 2060 FNL 0140 FEL
43-047-50341	NBU 1021-13B3CS Sec 13	T10S R21E 0696 FNL 1328 FEL BHL Sec 13 T10S R21E 1320 FNL 2360 FEL

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

/s/ Michael L. Coulthard

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

MCoulthard:mc:4-9-09

From: Jim Davis
To: Mason, Diana
Date: 4/20/2009 4:48 PM
Subject: The following APDs on a multi-well pad are approved by SITLA including arch and paleo clearance. Paleo clearance granted with the condition explained below.

The following APDs on a multi-well pad are approved by SITLA including arch and paleo clearance. Paleo clearance granted with the condition explained below.

NBU 1021-13B3CS (4304750341)
NBU 1021-13A3CS (4304750333)
NBU 1021-13H4CS (4304750340) and
NBU 1021-13H4AS (4304750339).
-Jim

This e-mail went to Kerr McGee/ Anadarko this afternoon.
Raleen,

As recommended in the report from Intermountain Paleo-Consulting (IPC 09-58), SITLA is requiring that a permitted paleontologist be present during the beginning of construction of the multi-well pad, roads and pipelines for the NBU 1021-13B3CS, A3CS, H4CS and H4AS and then spot paleo monitoring thereafter as necessary. I'll be sending SITLA's approval of this well to DOGM later today- this requirement will be noted there as a condition of our approval. Call me if you have any questions.

-Jim

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



Kerr-McGee Oil & Gas Onshore LP

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

April 22, 2009

Mrs. 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 1021-13A3CS
T10S-R21E
Section 13: NENE
Surface: 682' FNL, 1314' FEL
Bottom Hole: 1260' FNL, 1330' FEL
Uintah County, Utah

Dear Mrs. Mason:

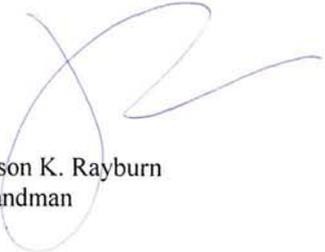
Pursuant to the filing of Kerr-McGee Oil & Gas Onshore LP's (Kerr-McGee) Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649-3-11 pertaining to the Exception to Location and Siting of Wells.

- Kerr-McGee's NBU 1021-13A3CS 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



Jason K. Rayburn
Landman

Well Name	KERR-MCGEE OIL & GAS ONSHORE, L.P. NBU 1021-13A3CS 430475033		
String	Surf	Prod	
Casing Size(")	9.625	4.500	
Setting Depth (TVD)	2200	9200	
Previous Shoe Setting Depth (TVD)	40	2200	
Max Mud Weight (ppg)	8.3	11.6	
BOPE Proposed (psi)	500	5000	
Casing Internal Yield (psi)	3520	7780	
Operators Max Anticipated Pressure (psi)	5305	11.1	

Calculations	Surf String	9.625	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	950	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	686	NO OK
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	466	YES
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	475	NO Reasonable depth in area
Required Casing/BOPE Test Pressure=		2200	psi
*Max Pressure Allowed @ Previous Casing Shoe=		40	psi *Assumes 1psi/ft frac gradient

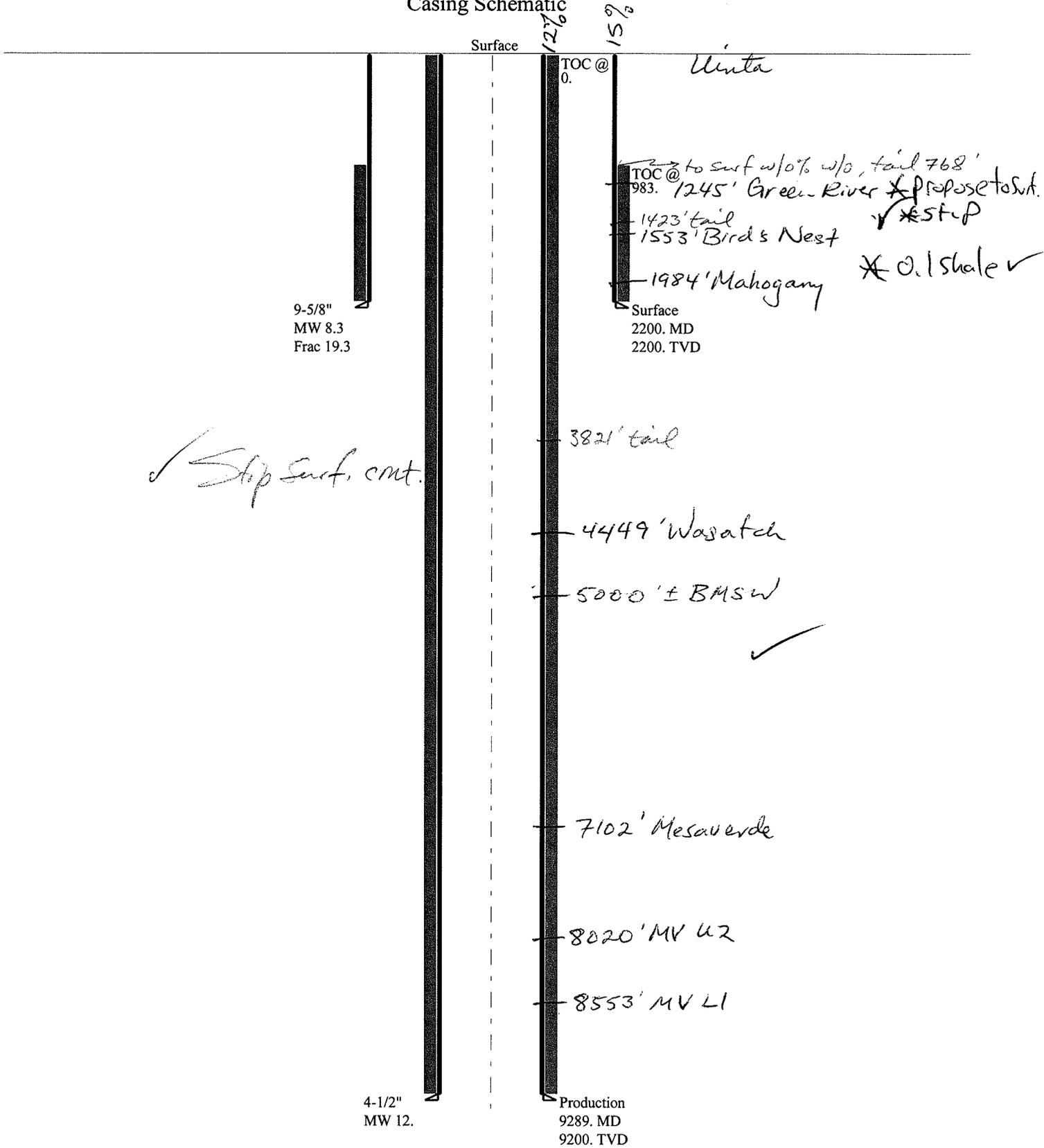
Calculations	Prod String	4.500	"
Max BPH (psi)	$.052 * \text{Setting Depth} * \text{MW} =$	5549	
			BOPE Adequate For Drilling And Setting Casing at Depth?
MASP (Gas) (psi)	$\text{Max BHP} - (0.12 * \text{Setting Depth}) =$	4445	YES
MASP (Gas/Mud) (psi)	$\text{Max BHP} - (0.22 * \text{Setting Depth}) =$	3525	YES OK
			*Can Full Expected Pressure Be Held At Previous Shoe?
Pressure At Previous Shoe	$\text{Max BHP} - .22 * (\text{Setting Depth} - \text{Previous Shoe Depth}) =$	4009	NO Reasonable in area
Required Casing/BOPE Test Pressure=		5000	psi
*Max Pressure Allowed @ Previous Casing Shoe=		2200	psi *Assumes 1psi/ft frac gradient

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

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

43047503330000 NBU 1021-13A3CS

Casing Schematic



Well name:	43047503330000 NBU 1021-13A3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Surface	Project ID:	43-047-50333
Location:	UINTAH COUNTY		

Design parameters:

Collapse

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

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

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: 983 ft

Burst

Max anticipated surface pressure: 1,936 psi
 Internal gradient: 0.120 psi/ft
 Calculated BHP 2,200 psi

No backup mud specified.

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: 1,929 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,200 ft
 Next mud weight: 11,600 ppg
 Next setting BHP: 5,544 psi
 Fracture mud wt: 19,250 ppg
 Fracture depth: 2,200 ft
 Injection pressure: 2,200 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	2200	9.625	36.00	J-55	LT&C	2200	2200	8.796	17989

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	952	2020	2.122	2200	3520	1.60	79.2	453	5.72 J

Prepared by: Steven Schiess
 Div of Oil, Gas & Mining

Phone: 801 538-7462
 FAX: 801-359-3940

Date: June 10, 2009
 Salt Lake City, Utah

Remarks:
 Collapse is based on a vertical depth of 2200 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.

Well name:	43047503330000 NBU 1021-13A3CS		
Operator:	KERR-MCGEE OIL & GAS ONSHORE, L.P.		
String type:	Production	Project ID:	43-047-50333
Location:	UINTAH COUNTY		

Design parameters:

Collapse

Mud weight: 12.000 ppg
 Internal fluid density: 1.000 ppg

Minimum design factors:

Collapse:

Design factor 1.125

Burst:

Design factor 1.00

Environment:

H2S considered? No
 Surface temperature: 74 °F
 Bottom hole temperature: 203 °F
 Temperature gradient: 1.40 °F/100ft
 Minimum section length: 100 ft
 Cement top: Surface

Burst

Max anticipated surface pressure: 3,711 psi
 Internal gradient: 0.220 psi/ft
 Calculated BHP 5,735 psi

No backup mud specified.

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)

Directional Info - Build & Drop

Kick-off point 2200 ft
 Departure at shoe: 578 ft
 Maximum dogleg: 3 °/100ft
 Inclination at shoe: 0 °

Tension is based on air weight.
 Neutral point: 7,639 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Est. Cost (\$)
1	9289	4.5	11.60	I-80	LT&C	9200	9289	3.875	122615

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	5257	6360	1.210	5735	7780	1.36	106.7	212	1.99 J

Prepared by: Steven Schiess
 Div of Oil, Gas & Mining

Phone: 801 538-7462
 FAX: 801-359-3940

Date: June 10, 2009
 Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9200 ft, a mud weight of 12 ppg. An internal gradient of .052 psi/ft was used for collapse from TD to TD. Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, L.P.
Well Name NBU 1021-13A3CS
API Number 43047503330000 **APD No** 1383 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 NENE **Sec** 13 **Tw** 10.0S **Rng** 21.0E 682 FNL 1314 FEL
GPS Coord (UTM) 628623 4423507 **Surface Owner**

Participants

Floyd Bartlett (DOGM), Ed Bonner (SITLA), Ramie Hoopes, Clay Einerson, Griz Oleen, Tony Kzneck, Charles Chase (Kerr McGee), Ben Williams (UDWR) and Kolby Kay (Timberline Engineering and Land Surveying).

Regional/Local Setting & Topography

This location is in a tributary of the Sand Wash drainage of the Natural Buttes Unit approximately 50.7 road miles south of Vernal, Ut.. The Seep Ridge Road, Uintah County roads and existing oil field development roads access the site. Sand Wash, the major drainage in the area, drains northerly to the White River a distance of approximately 3-1/2 miles. The area is characterized by narrow ridges and steep sided hills, which are frequently divided by narrow to wide valley bottoms. Sand Wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. Washes are sometimes rimed with exposed sand stone bedrock cliffs.

Four additional gas wells are proposed on an enlarged pad that currently contains the NBU 13A producing gas well. Continued operation of this well is planned. The additional wells are the NBU 1021-13B3CS, 13A3CS, 13H4CS and 13H4AS. Steep rocky topography limits the size that the pad can be enlarged. The location is on a side ridge trending in a southeast to northwest direction. The pad will be extended on both ends with the reserve pit cut an additional distance into the adjacent side hill. A v shaped draw beyond Corners 2 and 3 should not be filled. Stakes at this location are numbered wrong and a new Location Layout drawing will be submitted. No drainages intersect the location and no diversions are required. Sand Wash is about 1/8 mile to the east. The selected location appears to be suitable for enlargement of the pad and drilling and operating the proposed additional wells. It is the only suitable site in the area.

Both the surface and minerals are owned by SITLA.

Surface Use Plan

Current Surface Use

- Grazing
- Recreational
- Wildlife Habitat
- Existing Well Pad

New Road Miles	Well Pad	Src Const Material	Surface Formation
0	Width 310 Length 470	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetlands N

Flora / Fauna

Vegetation in the non-disturbed area includes halogeton, black sagebrush, shadscale and annuals.

Sheep, antelope and small mammals and birds.

Soil Type and Characteristics

Soils are a ledgy rocky sandy loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diverson Required? N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors

Site Ranking

Distance to Groundwater (feet)	100 to 200	5	
Distance to Surface Water (feet)	>1000	0	
Dist. Nearest Municipal Well (ft)	>5280	0	
Distance to Other Wells (feet)		20	
Native Soil Type	Mod permeability	10	
Fluid Type	Fresh Water	5	
Drill Cuttings	Normal Rock	0	
Annual Precipitation (inches)		0	
Affected Populations			
Presence Nearby Utility Conduits	Not Present	0	
	Final Score	40	1 Sensitivity Level

Characteristics / Requirements

The reserve pit is planned in an area of cut in the southwest corner of the location. Dimensions are 110' x 250' x 12' deep with 2' of freeboard. Rounding between Corners C and D is planned. A liner with a minimum thickness of 30 mils. and a felt sub-liner are required.

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

Other Observations / Comments

Floyd Bartlett
Evaluator

4/28/2009
Date / Time

Application for Permit to Drill Statement of Basis

6/17/2009

Utah Division of Oil, Gas and Mining

Page 1

APD No	API WellNo	Status	Well Type	Surf Owner	CBM
1383	43047503330000	LOCKED	GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, L.P.		Surface Owner-APD		
Well Name	NBU 1021-13A3CS	Unit		NATURAL BUTTES	
Field	NATURAL BUTTES	Type of Work		DRILL	
Location	NENE 13 10S 21E S 682 FNL 1314 FEL	GPS Coord (UTM)	628626E	4423500N	

Geologic Statement of Basis

Kerr McGee proposes to set 1,900' 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 5,000'. A search of Division of Water Rights records shows one water well within a 10,000 foot radius of the center of Section 13. The well is located .75 miles southwest of the proposed location. The well is owned by Target Trucking and is used for oil well drilling fluid. No depth is listed. 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. Production casing cement should be brought up above the base of the moderately saline ground water to isolate it from fresher waters uphole.

Brad Hill
APD Evaluator

4/30/2009
Date / Time

Surface Statement of Basis

This location is in a tributary of the Sand Wash drainage of the Natural Buttes Unit approximately 50.7 road miles south of Vernal, Ut.. The Seep Ridge Road, Uintah County roads and existing oil field development roads access the site. Sand Wash, the major drainage in the area, drains northerly to the White River a distance of approximately 3-1/2 miles. The area is characterized by narrow ridges and steep sided hills, which are frequently divided by narrow to wide valley bottoms. Sand Wash is an ephemeral drainage. No springs, seeps or streams exist in the area. An occasional pond constructed to supply water for cattle and antelope exists. Washes are sometimes rimed with exposed sand stone bedrock cliffs.

Four additional gas wells are proposed on an enlarged pad that currently contains the NBU 13A producing gas well. Continued operation of this well is planned. The additional wells are the NBU 1021-13B3CS, 13A3CS, 13H4CS and 13H4AS. Steep rocky topography limits the size that the pad can be enlarged. The location is on a side ridge trending in a southeast to northwest direction. The pad will be extended on both ends with the reserve pit cut an additional distance into the adjacent side hill. A v shaped draw beyond Corners 2 and 3 should not be filled. Stakes at this location are numbered wrong and a new Location Layout drawing will be submitted. No drainages intersect the location and no diversions are required. Sand Wash is about 1/8 mile to the east. The selected location appears to be suitable for enlargement of the pad and drilling and operating the proposed additional wells. It is the only suitable site in the area.

Both the surface and minerals are owned by SITLA. Ed Bonner of SITLA reviewed the site and had no concerns regarding the proposal except as covered above.

Ben Williams of the Utah Division of Wildlife Resources also attended the pre-site. Mr. Williams stated no wildlife values would be significantly affected by drilling and operating the wells at this location. He provided Ed Bonner of SITLA and Ramie Hoopes of Kerr McGee a written wildlife evaluation and a copy of a recommended seed mix to be used for re-vegetating the disturbed area.

Application for Permit to Drill Statement of Basis

6/17/2009

Utah Division of Oil, Gas and Mining

Page 2

Floyd Bartlett
Onsite Evaluator

4/28/2009
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 30 mils with a 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: 4/2/2009

API NO. ASSIGNED: 43047503330000

WELL NAME: NBU 1021-13A3CS

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

PHONE NUMBER: 720 929-6007

CONTACT: Kathy Schneebeck-Dulnoan

PROPOSED LOCATION: NENE 13 100S 210E

Permit Tech Review:

SURFACE: 0682 FNL 1314 FEL

Engineering Review:

BOTTOM: 1260 FNL 1330 FEL

Geology Review:

COUNTY: UINTAH

LATITUDE: 39.95375

LONGITUDE: -109.49422

UTM SURF EASTINGS: 628626.00

NORTHINGS: 4423500.00

FIELD NAME: NATURAL BUTTES

LEASE TYPE: 3 - State

LEASE NUMBER: ML 23608

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: 460' fr u bdry & uncomm. tract
- 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



JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: NBU 1021-13A3CS
API Well Number: 43047503330000
Lease Number: ML 23608
Surface Owner: STATE
Approval Date: 6/17/2009

Issued to:

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

Authority:

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

Duration:

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

Commingle:

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

General:

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

Conditions of Approval:

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.

Notification Requirements:

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

- 24 hours prior to cementing or testing casing - contact Dan Jarvis
- 24 hours prior to testing blowout prevention equipment - contact Dan Jarvis
- 24 hours prior to spudding the well - contact Carol Daniels
- Within 24 hours of any emergency changes made to the approved drilling program - contact

Dustin Doucet

- Prior to commencing operations to plug and abandon the well - contact Dan Jarvis

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

- Plugging and abandonment or significant plug back of this well - contact Dustin Doucet
- Any changes to the approved drilling plan - contact Dustin Doucet

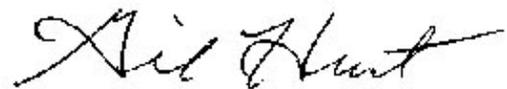
The following are Division of Oil, Gas and Mining contacts and their telephone numbers (please leave a voice mail message if the person is not available to take the call):

- Dan Jarvis at: (801) 538-5338 office
(801) 942-0871 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office
(801) 733-0983 home

Reporting Requirements:

All required reports, forms and submittals will be promptly filed with the Division, including but not limited to the Entity Action Form (Form 6), Report of Water Encountered During Drilling (Form 7), Weekly Progress Reports for drilling and completion operations, and Sundry Notices and Reports on Wells requesting approval of change of plans or other operational actions.

Approved By:



Gil Hunt
Associate Director, Oil & Gas

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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 1021-13A3CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503330000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0682 FNL 1314 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 13 Township: 10.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 9/14/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: Frac Factory Pit Refurb

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

Kerr-McGee Oil & Gas Onshore, LP is requesting to refurb the existing pit on this pad for completion operations. The refurb pit will be relined per the requirements in the COA of the APD. Upon completion of the wells on this pad KMG is also requesting to utilize this pit as a staging pit to be utilized for other completion operations in the area. There will be 2 - 400 bbl upright skim tanks placed on location. The trucks will unload water into these tank before the water is placed into the refurbished pit. The purpose of the skim tanks is to collect any hydro-carbons that may have been associated with the other completion operations before releasing into the pit. We plan to keep this pit open for 1 year. During this time the attached well location completion fluids will be recycled in this pit and utilized for other frac jobs in the area.

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

Date: September 22, 2009

By: 

NAME (PLEASE PRINT) Raleen White	PHONE NUMBER 720 929-6666	TITLE Sr. Regulatory Analyst
SIGNATURE N/A	DATE 9/14/2009	



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 43047503330000

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

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

Date: September 22, 2009

By: 

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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 1021-13A3CS
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503330000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0682 FNL 1314 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 13 Township: 10.0S Range: 21.0E Meridian: S	9. FIELD and POOL or WILDCAT: NATURAL BUTTES COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input checked="" type="checkbox"/> SPUD REPORT Date of Spud: 11/2/2009	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU PETE MARTIN BUCKET RIG. DRILLED 20" CONDUCTOR HOLE TO 40'.
 RAN 14" 36.7# SCHEDULE 10 PIPE. CMT W/28 SX READY MIX. SPUD WELL LOCATION ON 11/2/2009 AT 13:00 HRS.

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/9/2009	

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP Operator Account Number: N 2995
 Address: P.O. Box 173779
city DENVER
state CO zip 80217 Phone Number: (720) 929-6100

Well 1

NENE

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750340	NBU 1021-13H4AS		SENE	13	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	11/2/2009			<i>11/10/09</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/2/2009 AT 8:00 HRS. <i>BHL=SENE</i>							

Well 2

NENE

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750339	NBU 1021-13H4CS		SENE	13	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	11/2/2009			<i>11/10/09</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/2/2009 AT 11:00 HRS. <i>BHL=SENE</i>							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304750333	NBU 1021-13A3CS		NENE	13	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date			Entity Assignment Effective Date	
<i>B</i>	99999	<i>2900</i>	11/2/2009			<i>11/10/09</i>	
Comments: MIRU PETE MARTIN BUCKET RIG. <i>WSMVD</i> SPUD WELL LOCATION ON 11/2/2009 AT 13:00 HRS. <i>BHL=NENE</i>							

ACTION CODES:

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

ANDY LYTLE

Name (Please Print)

[Signature]
Signature

REGULATORY ANALYST

Title

11/9/2009

Date

RECEIVED
NOV 09 2009

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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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 1021-13A3CS
------------------------------------	--

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503330000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 0682 FNL 1314 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 13 Township: 10.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 11/14/2009	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

MIRU PROPETRO AIR RIG ON 11/12/2009. DRILLED 12-1/4" SURFACE HOLE TO 2256'. RAN 9-5/8" 36# J-55 SURFACE CSG. PUMPED 160 BBLS WATER AHEAD. 20 BBLS GEL. PUMPED 300 SX CLASS G PREM TAIL @ 15.8 PPG, 1.1 YIELD. DISPLACE W/168 BBL WATER. BUMPED PLUG W/500 PSI OVER, FLOATS HELD. NO RETURN. PUMP 150 SX CLASS G PREM TOP OUT #1 @ 15.8 PPG, 1.15 YIELD. PUMP TOP OUT #2 W/100 SX SAME CMT. PUMP TOP OUT #3 W/100 SX SAME CMT. TOTAL AMOUNT OF CMT WAS 650 SX. WORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
November 16, 2009

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 11/16/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 2/9/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 2256' TO 9276' ON 02/04/2010. RAN 4 1/2 11.6 I-80 PRODUCTION CSG. LEAD CMT W/635 SX CLASS G ECONOCEM @12.4 PPG, 2.03 YIELD. TAILED CMT W/1460 SX CLASS G 50/50 POZ MIX @ 14.2 PPG, 1.22 YEILD. DISPLACED W/144 BBLS WATER & BUMP PLUG W/ 500 OVER FINAL CIRC PRESSURE OF 2800 & GOT BACK 40 BBLS WATER. CEMENT TO PIT. NIPPLE DOWN B.O.P'S AND WASH AND CLEAN PITS. RELEASED ENSIGN 139 RIG ON 2/6/2010 @ 01:30 HOURS.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 February 10, 2010

NAME (PLEASE PRINT) Laura Gianakos	PHONE NUMBER 307 752-1169	TITLE Regulatory Affairs Supervisor
SIGNATURE N/A	DATE 2/9/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 6/17/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON JUNE 17, 2010 AT 12:00 P.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 6/21/2010	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
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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
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1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: NBU 1021-13A3CS
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2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047503330000
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3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6007 Ext	9. FIELD and POOL or WILDCAT: NATURAL BUTTES
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4. LOCATION OF WELL FOOTAGES AT SURFACE: 0682 FNL 1314 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 13 Township: 10.0S Range: 21.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
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<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/13/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
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	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

The Sundry Notice dated 2/9/2010 detailing the production csg, cement and rig release for this well reported an incorrect total depth. The correct TD for this well is 9335'. All other information reported was correct.

Accepted by the
 Utah Division of
 Oil, Gas and Mining
FOR RECORD ONLY
 July 20, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 7/13/2010	

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

AMENDED REPORT FORM 8
(highlight changes)

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML 23608

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

7. UNIT or CA AGREEMENT NAME
UTU63047A

8. WELL NAME and NUMBER:
NBU 1021-13A3CS

9. API NUMBER:
4304750333

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
NENE 13 10S 21E S

12. COUNTY
UINTAH

13. STATE
UTAH

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

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

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

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

3. ADDRESS OF OPERATOR: P.O.BOX 173779 CITY DENVER STATE CO ZIP 80217 PHONE NUMBER: (720) 929-6100

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **NENE 682 FNL & 1314 FEL S13,T10S,R21E**
AT TOP PRODUCING INTERVAL REPORTED BELOW: **NENE 1247 FNL & 1338 FEL S13,T10S,R21E**
AT TOTAL DEPTH: **NENE 1275 FNL & 1320 FEL S13,T10S,R21E**

BHL reviewed by HSM

14. DATE SPURRED: 11/2/2009 15. DATE T.D. REACHED: 2/4/2010 16. DATE COMPLETED: 6/17/2010
ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5262 GL

18. TOTAL DEPTH: MD 9,335 TVD 9,276
19. PLUG BACK T.D.: MD 9,275 TVD 9,216

20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE MD PLUG SET: TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
BHV-SD/DSN/ACTR-GR/CBL

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			
12 1/4"	9 5/8" J-55	36#		2,241		650			
7 7/8"	4 1/2" I-80	11.6#		9,319		2,095			

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"	8,593							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	6,921	7,030		
(B) MESAVERDE	7,341	9,189		
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6,921 7,030	0.36	40	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
7,341 9,189	0.36	200	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6921-7030	PUMP 850 BBLS SLICK H2O & 27,011 LBS 30/50 SAND
7341-9189	PUMP 6180 BBLS SLICK H2O & 226,269 LBS 30/50 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:

RECEIVED BROD
JUL 20 2010

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 6/17/2010		TEST DATE: 6/23/2010		HOURS TESTED: 24		TEST PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,304	WATER – BBL: 696	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 971	CSG. PRESS. 2,350	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 1,304	WATER – BBL: 696	INTERVAL STATUS: PROD

INTERVAL B (As shown in item #26)

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

INTERVAL C (As shown in item #26)

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

INTERVAL D (As shown in item #26)

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

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

33. SUMMARY OF POROUS ZONES (Include Aquifers):

Show all important zones of porosity and contents thereof. Cored intervals and all drill-stem tests, including depth interval tested, cushion used, time tool open, flowing and shut-in pressures and recoveries.

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
GREEN RIVER	1,172				
BIRD'S NEST	1,546				
MAHOGANY	2,023				
WASATCH	4,521	7,184			
MESAVERDE	7,184	9,335	TD		

34. FORMATION (Log) MARKERS:

35. ADDITIONAL REMARKS (Include plugging procedure)

ATTACHED IS THE CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

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 7/15/2010

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1021-13A3CS BLUE Spud Conductor: 11/2/2009 Spud Date: 11/12/2009
 Project: UTAH-UINTAH Site: NBU 1021-13A PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 11/11/2009 End Date: 2/6/2010
 Active Datum: RKB @5,276.01ft (above Mean Sea Level) UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
11/12/2009	13:00 - 13:30	0.50	MIRU	01	A	P		MOVE RIG
	13:30 - 15:30	2.00	MIRU	08	A	Z		DID RIG SERVICE ON RIG , CHANGE OIL, FILTER, FULE, FILTERS,
	15:30 - 19:00	3.50	MIRU	01	B	P		RIG UP TO SPUD
	19:00 - 20:30	1.50	DRLSUR	02	A	P		P/U AIR HAMMER DRILL TO 150'
	20:30 - 21:00	0.50	DRLSUR	06	A	P		TOH L/D AIR TOOLS
	21:00 - 23:00	2.00	DRLSUR	06	A	P		P/U MWD TOOLS SCRIBE TOOLS
	23:00 - 0:00	1.00	DRLSUR	08	B	Z		WAIT ON PIT PIUMP
11/13/2009	0:00 - 20:30	20.50	DRLSUR	02	D	P		DRLG. SLIDE F/ 150 TO 2256 WT 18-20K RPM 40-45 MM RPM 104 650 GPM, PUMP PSI ON BOTTOM 1600 PSI OFF 1350 PSI ROP 102.7
	20:30 - 21:30	1.00	DRLSUR	05	A	P		CIRC HOLE CLEAN
	21:30 - 0:00	2.50	DRLSUR	06	A	P		TOH TO L/D MWD TOOL
11/14/2009	0:00 - 0:30	0.50	DRLSUR	06	A	P		TOH , L/ D MWD TOOLS
	0:30 - 1:30	1.00	DRLSUR	08	B	Z		WAIT ON TONG DIE FOR PETALL TONGS
	1:30 - 2:30	1.00	DRLSUR	06	A	P		FINSH TRIP OUTL/D MWD TOOLS
	2:30 - 5:30	3.00	DRLSUR	12	A	P		R/U HSM RUN 51 JTS 9 5/8 CSG.# 36 J-55 LT&C SHOE @ 2227 BAF @ 2181
	5:30 - 12:30	7.00	DRLSUR	12	E	P		R/P CEMENT CREW HSM TEST LINE TO 2000 PSI, PUMPED 160 BBLS WATER AHEAD,20 BBLS GEL,TAIL CMT. 300 SX G PREMIUM CMT 15.8 Y 1.15 2% CAL.25LBSX FLOW SEAL,DISPLACE W/ 168.7 BBLS BUMPED PLUG 500 PSI OVER, FLOATS HELD NO RETRUN TOP OUT # 1 150 SX CMT 15.8 Y 1.15 4% CAL2 .25LBSX FLOW SEALTOP 2& 3 100SX CMT EACH 15.8 YD 1.15 20 BBLS EACH, TOTAL SX 650 CMT.
1/28/2010	6:00 - 10:30	4.50	MIRU	01	C	P		SKID ON,
	10:30 - 13:00	2.50	PRPSPD	14	A	P		NUBOP,CLEANOUT CEMENT & INSTALL FLOW,FLARE ,MUD LINES,TEST EQUIPMENT
	13:00 - 15:00	2.00	PRPSPD	09	A	P		CUT & SLIP 96' DRLG LINE,RESET CROWN&FLOOR SAVORS
	15:00 - 22:00	7.00	PRPSPD	15	A	P		TEST RAMS,CHOKE&MANIFOLD,KILLLINE,5K,ANNULAR 2.5K,CSG 1.5K W/250 LOWS,METHANOL MANIFOLD,,INSTALL WEARRING
	22:00 - 22:30	0.50	PRPSPD	07	A	P		CHANGE SAVOR SUB,SERVICE TOPDRIVE
	22:30 - 0:00	1.50	PRPSPD	06	A	P		P/U BIT#1,SCRIBE DIR TOOLS,TIH
	0:00 - 4:00	4.00	PRPSPD	06	A	P		TIH TO 2121' ,DW KICKING OUT REGULARLY
1/29/2010	4:00 - 4:30	0.50	PRPSPD	06	A	P		INSTALL ROTATING RUBBER,BREAK CIRC
	4:30 - 17:00	12.50	PRPSPD	08	B	Z		REPAIR VFD ON DRAWTOOL
	17:00 - 18:00	1.00	DRLPRO	02	F	P		DRILLCEMENT & FE 2150 TO 2266'
	18:00 - 0:00	6.00	DRLPRO	02	D	P		DIR DRILL F/2266' TO 2900',AVG 105,SURVEY EVERY 90',WOB 12-15,116 STKS,PSI 1400,DIFF300,TORQ 5K,
1/30/2010	0:00 - 12:30	12.50	DRLPRO	02	D	P		DIR DRILL F/2900' TO 4300 ,AVG 112,SURVEY EVERY 90',WOB15-18,116 STKS,PSI 1600,DIFF300,TORQ 7K,RPM60,
	12:30 - 13:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	13:00 - 0:00	11.00	DRLPRO	02	D	P		DIR DRILL F/4300 TO5120 ,AVG 112,SURVEY EVERY 90',WOB-18K,116 STKS,PSI 1600,DIFF300,TORQ 7K,RPM60

US ROCKIES REGION
Operation Summary Report

Well: NBU 1021-13A3CS BLUE Spud Conductor: 11/2/2009 Spud Date: 11/12/2009
 Project: UTAH-UINTAH Site: NBU 1021-13A PAD Rig Name No: ENSIGN 139/139, PROPETRO/
 Event: DRILLING Start Date: 11/11/2009 End Date: 2/6/2010
 Active Datum: RKB @5,276.01ft (above Mean Sea Leve) UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
1/31/2010	0:00 - 12:00	12.00	DRLPRO	02	D	P		DIR DRILL F/5120 TO 6293 ,AVG 98,SURVEY EVERY 90',WOB-18K,116 STKS,PSI 2050,DIFF300,TORQ 8-9K,RPM60,480GPM,ST-WT 165-140-130
	12:00 - 12:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	12:30 - 0:00	11.50	DRLPRO	02	D	P		DIR DRILL F/ 6293 TO 6875 ,AVG 51,SURVEY EVERY 90',WOB-18-20K,116 STKS,PSI 2050,DIFF300,TORQ 8-9K,RPM55,480GPM,ST-WT 190-160-140,MD WT 9.8/41
2/1/2010	0:00 - 9:30	9.50	DRLPRO	02	D	P		DIR DRILL F/6875 TO 7163,AVG 30,,WOB-18K,116 STKS,PSI 2150,DIFF300,TORQ 9.5K,RPM50,480GPM,ST-WT 210-170-145,MUD WT 9.9/40
	9:30 - 10:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	10:00 - 15:00	5.00	DRLPRO	02	D	P		DIR DRILL F/7163 TO 7559,AVG ,,WOB-18K,108 STKS,PSI 2000,DIFF250,TORQ 10.5K,RPM50,440GPM,ST-WT 220-170-140,MUD WT 10.2/39,MUDMTR STALLING OUT,25 STKS 1500+PSI
2/2/2010	15:00 - 23:00	8.00	DRLPRO	22	O	Z		POOH F/MUD MTR FAILURE,STARTED LOSING MUD DOWNHOLE@5950'
	23:00 - 0:00	1.00	DRLPRO	06	A	Z		P/U BIT #2,1.15BENT .16RPG MTR,SCRIBE,TIH
	0:00 - 8:00	8.00	DRLPRO	06	A	P		TIH & BREAK CIRC @2200 & 6100' TIH TO BTM
2/2/2010	8:00 - 14:00	6.00	DRLPRO	02	D	P		DIR DRILL F/7559 TO7745,AVG 31,,WOB-18K,116 STKS,PSI 2200,DIFF250,TORQ 9.5K,RPM50,480GPM,ST-WT 210-170-145,MUD WT 10.7/40 5%LCM
	14:00 - 14:30	0.50	DRLPRO	07	A	P		RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	D	P		DIR DRILL F/7745 TO8255 ,AVG 53,,WOB-18K,116 STKS,PSI 2350,DIFF250,TORQ 9.5K,RPM50,480GPM,ST-WT 210-170-145,MUD WT /10.9/40 5%LCM
2/3/2010	0:00 - 15:00	15.00	DRLPRO	02	D	P		DIR DRILL F/8255 TO 8829- 574' @ 38.2 FPH ,,WOB-18K,116 STKS,PSI 2550,DIFF250,TORQ 10K,RPM50,480GPM,ST-WT 240-185-155,MUD WT /11.7/40 5%LCM
	15:00 - 15:30	0.50	DRLPRO	07	A	P		SER RIG
	15:30 - 0:00	8.50	DRLPRO	02	D	P		DIR DRILL F/ 8829 TO 9060 - 231' @ 27.1 FPH WOB 18/20 - RPM 45 - MRPM 70 - TQ 8/11 - GPM 438 - MUD WT 11.9 /44 - 6% LCM
2/4/2010	0:00 - 9:30	9.50	DRLPRO	02	D	P		DRILL F/ 9060 TO 9335 - 275' @ 28.9 FPH W/ 12.0 PPG MUD WT - VIS 44 - 6% LCM - RPM 45 - MRPM 69 - WOB 20/23 - TQ - 12/10 - GPM 437
	9:30 - 10:30	1.00	DRLPRO	05	A	P		CIRC BTM UP
	10:30 - 20:30	10.00	DRLPRO	06	E	P		SHORT TO CSG SHOE - & PUMP 2 STANDS OFF BTM & PUMP DRY JOB & CONT T.O.H - MAX OVER PULL 75 K OVER STRING WT OF 195 K .
2/5/2010	20:30 - 21:00	0.50	DRLPRO	03	E	P		WASH TO BTM F/ 9285 TO 9335 -10' FILL
	21:00 - 22:30	1.50	DRLPRO	05	A	P		CIRC BTM UP
	22:30 - 0:00	1.50	DRLPRO	06	B	P		T.O.H PULLED STANDS W/ PUMP & PUMP DRY JOB & CONT. T.O.H MAX OVER PULL 70K.
2/5/2010	0:00 - 4:00	4.00	DRLPRO	06	B	P		T.O.H F/ LOGS & L/D DIR TOOLS
	4:00 - 4:30	0.50	DRLPRO	14	B	P		PULL WEAR BUSHING
	4:30 - 10:00	5.50	DRLPRO	11	D	P		HELD S/M & R/U HALLIBURTON & RUN TRIPLE COMBO LOGGERS DEPTH @ 9326 & R/D
2/5/2010	10:00 - 17:00	7.00	DRLPRO	12	C	P		HELD S/M & R/U KINZEY CSG & RUN PROD STRING RUN 220 JTS PLUS MARKER JT & L/D JT - SHOE SET @ 9319 MD TVD 9259 - FLOAT COLLAR @ 9276 MD TVD 9216.

US ROCKIES REGION
Operation Summary Report

Well: NBU 1021-13A3CS BLUE	Spud Conductor: 11/2/2009	Spud Date: 11/12/2009
Project: UTAH-UINTAH	Site: NBU 1021-13A PAD	Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING	Start Date: 11/11/2009	End Date: 2/6/2010
Active Datum: RKB @5,276.01ft (above Mean Sea Level) UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	17:00 - 19:00	2.00	DRLPRO	05	A	P		R/U HALLIBUTON HEAD & CIRC BTM UP
	19:00 - 21:30	2.50	DRLPRO	12	E	P		HELD S/M W/ HALLIBURTON & TEST LINES 5000 PSI & CEMENT W/ 40 BBLS WATER AHEAD & 635 SKS LEAD @ 12.4 PPG W/ YIELD 2.03 - F/ TAIL 1460 SKS @ 14.2 PPG W/ YIELD 1.22 & DISPLACED W/ 144 BBLS WATER & BUMP PLUG W/ 500 OVER FINAL CIRC PRESSURE OF 2800 & GOT BACK 40 BBLS WATER NO CEMENT TO PIT.
	21:30 - 22:30	1.00	DRLPRO	12	B	P		LAND CSG W/ 95K STRING WT & L/D LANDING JT & P/U PACK OFF SEALS & INSTALL
	22:30 - 0:00	1.50	DRLPRO	14	A	P		NIPPLE DOWN B.O.P'S & WASH & CLEAN PIT & 750 BBL MUD TO STORAGE
2/6/2010	0:00 - 1:30	1.50	DRLPRO	14	A	P		NIPPLE DOWN & WASH & CLEAN PITS & RELEASED RIG @ 01:30 AM ON 02/06/2010

**US ROCKIES REGION
Operation Summary Report**

Well: NBU 1021-13A3CS BLUE		Spud Conductor: 11/2/2009		Spud Date: 11/12/2009	
Project: UTAH-UINTAH			Site: NBU 1021-13A PAD		Rig Name No: ENSIGN 139/139, PROPETRO/
Event: DRILLING			Start Date: 11/11/2009		End Date: 2/6/2010
Active Datum: RKB @5,276.01ft (above Mean Sea Leve) UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0					

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
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1:30 - 1:30 0.00 DRLPRO

NOTES: 1. All depths entered are to be from KB of the rig doing the work
2. Copy and paste the below information into the last daily operations report in the time summary following all daily information. Enter a new row with the "from/to" time the same as the previous "to" time so no additional time is added to the time.

CONDUCTOR CASING:
Cond. Depth set: 40
Cement sx used:

SPUD DATE/TIME: 11/12/2009 19:00

SURFACE HOLE:
Surface From depth:10
Surface To depth: 2,266
Total SURFACE hours: 22.00
Surface Casing size:9 5/8
of casing joints ran: 51
Casing set MD:2,241.0
sx of cement:550
Cement blend (ppg):15.8
Cement yield (ft3/sk): 1.15
of bbls to surface: 1
Describe cement issues: 2 TOPOUTS
Describe hole issues:

PRODUCTION:
Rig Move/Skid start date/time: 1/28/2010 6:00
Rig Move/Skid finish date/time:1/28/2010 10:30
Total MOVE hours: 4.5
Prod Rig Spud date/time: 1/29/2010 17:00
Rig Release date/time: 2/6/2010 1:30
Total SPUD to RR hours: 176.5
Planned depth MD 9,324
Planned depth TVD 9,264
Actual MD: 9,335
Actual TVD: 9,275
Open Wells \$: \$777,273
AFE \$: \$783,578
Open wells \$/ft:\$83.26

PRODUCTION HOLE:
Prod. From depth: 2,266
Prod. To depth:9,335
Total PROD hours: 116
Production Casing size: 4 1/2
of casing joints ran: 222
Casing set MD:9,319.0
sx of cement:2,095
Cement blend (ppg):LEAD 12.4 - 5% TAIL 14.3 - 10%
Cement yield (ft3/sk): 2.03 1.22
Est. TOC (Lead & Tail) or 2 Stage : TOP TAIL @ 3900
Describe cement issues: NO CEMENT TO SURFACE
Describe hole issues: MUD MTR FAILURE@7559,PLUGGED BIT,LOSTCIRC ON POOH,300/BBLs

DIRECTIONAL INFO:

US ROCKIES REGION
Operation Summary Report

Well: NBU 1021-13A3CS BLUE		Spud Conductor: 11/2/2009		Spud Date: 11/12/2009				
Project: UTAH-UINTAH		Site: NBU 1021-13A PAD		Rig Name No: ENSIGN 139/139, PROPETRO/				
Event: DRILLING		Start Date: 11/11/2009		End Date: 2/6/2010				
Active Datum: RKB @5,276.01ft (above Mean Sea Leve		UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0						
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
								KOP: 2,260 Max angle: 17.85 @2976' Departure: 588.00 Max dogleg MD: 4427@3.92

US ROCKIES REGION

: NBU 1021-13A3CS BLUE		Spud Conductor: 11/2/2009		: 11/12/2009	
: UTAH-UINTAH		: NBU 1021-13A PAD		: GWS 1/1	
: COMPLETION		: 6/4/2010		: 6/17/2010	
: RKB @5,276.01ft (above Mean Sea Level)		: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0			

Date	Time	Activity	Depth	Pressure	Temp	Notes
6/4/2010	7:00 - 7:30	COMP	48			HSM. FRACING & PERFORATING ON A PAD WELL
	8:30 - 9:45	COMP	37	B	P	STG 1) PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. PERF 9,183'-89' 4SPF, THEN BRK DWN PERFS @ 4,831 PSI @ 2.9 BPM. ISIP 2,650 PSI, FG .73. PERF 9,078'-82' 4SPF, 40 HOLES. SWI SDFWE.
6/7/2010	6:30 - 7:00	COMP	48			HSM. FRACING & PERFORATING ON A PAD WELL
	9:17 - 9:47	COMP				STG1) WHP 518 PSI, START STEP DOWN TEST PUMP 43.6 BPM @ 4,640 PSI, 31.3 BPM @ 3,800 PSI, 25.5 BPM @ 3,4712 PSI, 10.3 BPM @ 2,970 PSI ISIP 2,759 FG .74. 100% HOLES OPEN MP 6,482 PSI, MR 51.9 BPM, AP 4,365 PSI, AR 51 BPM, ISIP 2,776 PSI, FG .74, NPI 17 PSI. PMP 903 BBLs OF SW & 18,593 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 23,593 LBS.
	11:35 - 12:24	COMP	36	B	P	STG 2) PU 4 1/2" HALL CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 8,849' & PERF 8,816'-19' 4SPF, THEN BRK DWN PERFS @ 4,500 PSI @ 1.3 BPM. ISIP 2,580 PSI, FG .73. PERF 8,772'-74' 4SPF, 8,755'-56' 4SPF, 8,740'-42' 4SPF, 8,610'-12' 4SPF, 40 HOLES. RA TRACERS WERE PUMPED ON THIS STAGE. SB-124, SC-46, IR-192. WHP 1,718 PSI, START STEP DOWN TEST PUMP 51.4 BPM @ 5,525 PSI, 43.3 BPM @ 4,690 PSI, 28.8 BPM @ 3,800 PSI, 13.9 BPM @ 3,100 PSI, ISIP 2,794 FG .75. MP 6,394 PSI, MR 55.1 BPM, AP 5,060 PSI, AR 52.2 BPM. ISIP 2,760 PSI, FG .75, NPI -34 PSI. PMP 2,200 BBLs OF SW & 81,667 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 86,667 LBS.
13:55 - 14:28	COMP	36	B	P	STG 3) PU 4 1/2" HALL CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 8,232' & PERF 8,200'-02' 4SPF, THEN BRK DWN PERFS @ 5,575 PSI @ 2.3 BPM. ISIP 2,400 PSI, FG .73. PERF 8,138'-40' 4SPF, 8,002'-04' 4SPF, 7,980'-82' 4SPF, 7,944'-46' 4SPF, 40 HOLES. RA TRACERS WERE PUMPED ON THIS STAGE. SB-124, SC-46, IR-192. 75% HOLES OPEN. WHP 1,425 PSI, START STEP DOWN TEST PUMP 45.8 BPM @ 5,270 PSI, 33.5 BPM @ 4,070 PSI, 15.8 BPM @ 2,725 PSI, 7.0 BPM @ 2,360 PSI, ISIP 2,188 FG .70. MP 5,971 PSI, MR 52.3 BPM, AP 4,400 PSI, AR 52.1 BPM. ISIP 2,376 PSI, FG .73, NPI 188 PSI. PMP 1,370 BBLs OF SW & 50,775 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 55,775 LBS.	

US ROCKIES REGION

: NBU 1021-13A3CS BLUE		Spud Conductor: 11/2/2009	: 11/12/2009
: UTAH-UINTAH	: NBU 1021-13A PAD	: GWS 1/1	
: COMPLETION	: 6/4/2010	: 6/17/2010	
: RKB @5,276.01ft (above Mean Sea Level)		: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0	

	16:23 - 16:47	COMP	36	B	P	STG 4) PU 4 1/2" HALL CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 7,801' & PERF 7,766'-71' 4SPF, THEN BRK DWN PERFS @ 5,575 PSI @ 2.3 BPM. ISIP 2,400 PSI, FG .73. PERF 7,653'-56' 4SPF, 7,582'-84' 4SPF, 40 HOLES. WHP 528 PSI, START STEP DOWN TEST PUMP 49.6 BPM @ 5,090 PSI, 45 BPM @ 4,660 PSI, 27.2 BPM @ 3,450 PSI, 8.0 BPM @ 2,525 PSI, ISIP 2,224 FG .73. 65% OPEN. MP 5,700 PSI, MR 52.8 BPM, AP 4,700 PSI, AR 51.4 BPM. ISIP 2,347 PSI, FG .74, NPI 123 PSI. PMP 850 BBLs OF SW & 22,946 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 27,946 LBS. SWI SDFN.
6/8/2010	6:30 - 7:00	COMP	48		P	HSM. FRACING & PERFORATING ON A PAD WELL.
	7:46 - 8:07	COMP	36	B	P	STG 5) PU 4 1/2" HALL CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 7,506' & PERF 7,472'-76' 4SPF, THEN BRK DWN PERFS @ 3,320 PSI @ 2.0 BPM. ISIP 1,455 PSI, FG .63. PERF 7,396'-97' 4SPF, 7,384'-86' 4SPF, 7,341'-44' 4SPF, 40 HOLES. WHP 644 PSI, START STEP DOWN TEST PUMP 50.6 BPM @ 4,093 PSI, 44.2 BPM @ 3,768 PSI, 27.6 BPM @ 2,876 PSI, 6.7 BPM @ 2,280 PSI, ISIP 2,107 FG .72. 100% OPEN. MP 5,155 PSI, MR 51.8 BPM, AP 3,760 PSI, AR 50.3 BPM. ISIP 2,297 PSI, FG .75, NPI 190 PSI. PMP 857 BBLs OF SW & 27,288 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 32,288 LBS.
	11:22 - 11:44	COMP	36	B	P	STG 6) PU 4 1/2" HALL CBP & 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING & RIH. SET CBP @ 7,060' & PERF 7,024'-30' 4SPF, THEN BRK DWN PERFS @ 2,026 PSI @ 1.6 BPM. ISIP 1,185 PSI, FG .61. PERF 6,921'-25' 4SPF, 40 HOLES. WHP 245 PSI, START STEP DOWN TEST PUMP 50 BPM @ 4,850 PSI, 45.5 BPM @ 4,571 PSI, 28.3 BPM @ 3,502 PSI, 5.8 BPM @ 2,752 PSI, ISIP 2,941 FG .86. 100% OPEN. MP 4,860 PSI, MR 55.3 BPM, AP 4,664 PSI, AR 52.9 BPM. ISIP 2,687 PSI, FG .82, NPI -254 PSI. PMP 850 BBLs OF SW & 22,011 LBS OF 30/50 SAND & 5,000 LBS OF 20/40 RESIN SAND. TOTAL PROP 27,011 LBS.
	11:44 - 11:54	COMP	34	I	P	TOTAL WATER PUMPED 6,161 BBLs TOTAL PROP PUMPED 253,280 LBS. KILL PLG) PU 4 1/2" HALLIBURTON CBP RIH SET CBP @ 6,871'. RDMO CASED HOLE SOLUTIONS & FRAC TECH.
6/17/2010	6:00 - 6:15	COMP	48		P	SWI SDFN. HSM. PU PIPE & DRL EQUIP.

US ROCKIES REGION

: NBU 1021-13A3CS BLUE	Spud Conductor: 11/2/2009	: 11/12/2009
: UTAH-UINTAH	: NBU 1021-13A PAD	: GWS 1/1
: COMPLETION	: 6/4/2010	: 6/17/2010
: RKB @5,276.01ft (above Mean Sea Level)	: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0	

6:15 - 18:00	COMP	44	C	P	<p>RD RIG. MOVE OVER T/ THIS WELL. RU RIG. OPEN WELL 0#. ND WH. NU BOP. RU RIG FLOOR & TBG EQUIP. PREP & TALLY NEW 2 3/8 L-80 TBG. PU 3 7/8 BIT + X-DART + POBS + XN- NIPPLE. RIH W/ TBG TAG SAND @ 6846'. RU DRL EQUIP. BRK CONV CIRC. BEG DRL OUT. CBP #1) TAG SAND @ 6846' = 25' SAND. CO SAND. DRL OUT HAL CBP @ 6871' IN 6 MIN. 100 PSI INCR. CONT RIH. CBP #2) TAG SAND @ 7035' = 25' SAND. CO SAND. DRL OUT HAL CBP @ 7060' IN 5 MIN. 250 PSI INCR. CONT RIH. CBP #3) TAG SAND @ 7491' = 15' SAND. CO SAND. DRL OUT HAL CBP @ 7506' IN 4 MIN. 500 PSI INCR. CONT RIH. CBP #4) TAG SAND @ 7771' = 30' SAND. CO SAND. DRL OUT HAL CBP @ 7801' IN 5 MIN. 300 PSI INCR. CONT RIH. CBP #5) TAG SAND @ 8202' = 30' SAND. CO SAND. DRL OUT HAL CBP @ 8232' IN 3 MIN. 600 PSI INCR. CONT RIH. CBP #6) TAG SAND @ 8819' = 30' SAND. CO SAND. DRL OUT HAL CBP @ 8849' IN 6 MIN. 500 PSI INCR. CONT RIH. TAG SAND @ 9189'. CO SAND T/ PBTD @ 9273'. CIRC WELL. RD DRL EQUIP. POOH LD EXESS TBG. PU 7 1/16 WEATHERFORD TBG HNGR & LAND TBG W/</p> <table border="0"> <tr> <td>KB</td> <td>13.00</td> </tr> <tr> <td>TBG HNGR</td> <td>1.00</td> </tr> <tr> <td>272 JTS 2 3/8 L-80 TBG</td> <td>8576.90</td> </tr> <tr> <td>XN-NIPPLE 1.875</td> <td>2.20</td> </tr> <tr> <td colspan="2"><hr/></td> </tr> <tr> <td>EOT @</td> <td>8593.10</td> </tr> </table> <p>NDBOP. NUWH. DROP BALL. PUMP BIT OFF W/ 20 BBLS T-MAC. SWI FOR 30 MIN T/ LET BIT FALL T/ PBTD. OPEN WELL T/ PIT ON 42/42 CHOKE T/ UNLOAD TBG. FTP 50 PSI. SICP 1500 PSI. TURN WELL OVER T/ FBC. RACK OUT RIG EQUIP. SDFN.</p> <p>TOTAL LOAD 6930 BBLS RIG RECOVERD 1300 BBLS LEFT T/ RECOVER 5630 BBLS</p> <p>C-TAP PIPE (ALL JTS 2 3/8 L-80 TBG) TOTAL JTS ON TRAILER 315 JTS TOTAL JTS IN WELL 272 JTS TOTAL JTS RETURNED 43 JTS 7 AM FLBK REPORT: CP 1550#, TP 1425#, 20/64" CK, 50 BWPH, med SAND, - GAS TTL BBLS RECOVERED: 1993 BBLS LEFT TO RECOVER: 4937 WELL TURNED TO SALES @ 1200 ON 6/17/2010 - 900 MCFD, 1200 BWPD, CP 2200@, FTP 890#, CK 20/64"</p>	KB	13.00	TBG HNGR	1.00	272 JTS 2 3/8 L-80 TBG	8576.90	XN-NIPPLE 1.875	2.20	<hr/>		EOT @	8593.10
KB	13.00																
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<hr/>																	
EOT @	8593.10																
6/18/2010	7:00 -	PROD	33	A													
	12:00 -	PROD	50														

US ROCKIES REGION

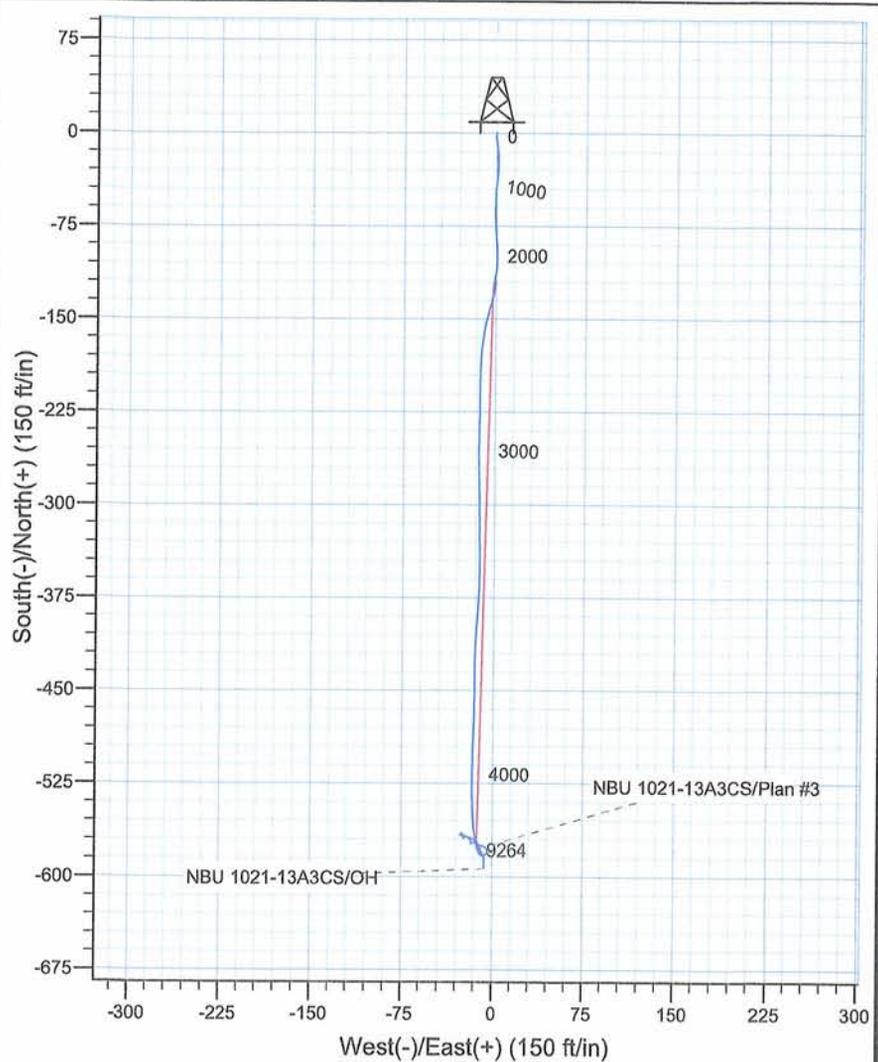
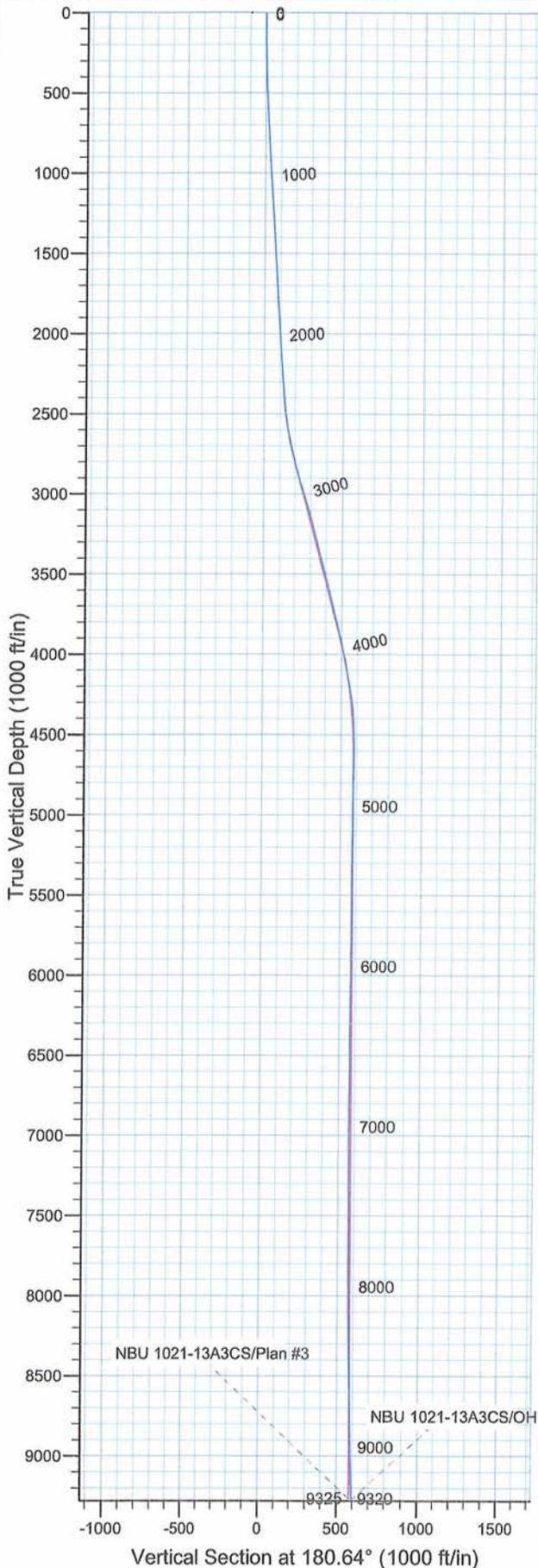
: NBU 1021-13A3CS BLUE		Spud Conductor: 11/2/2009		: 11/12/2009	
: UTAH-UINTAH		: NBU 1021-13A PAD		: GWS 1/1	
: COMPLETION		: 6/4/2010		: 6/17/2010	
: RKB @5,276.01ft (above Mean Sea Level)		: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0			
6/19/2010	7:00 -	33	A	7 AM FLBK REPORT: CP 2000#, TP 1450#, 20/64" CK, 40 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3065 BBLS LEFT TO RECOVER: 3865	
6/20/2010	7:00 -	33	A	7 AM FLBK REPORT: CP 2350#, TP 1325#, 20/64" CK, 28 BWPH, light SAND, - GAS TTL BBLS RECOVERED: 3847 BBLS LEFT TO RECOVER: 3083	
6/21/2010	7:00 -	33	A	7 AM FLBK REPORT: CP 2100#, TP 1200#, 20/64" CK, 18 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 4361 BBLS LEFT TO RECOVER: 2569	



Scientific Drilling
Rocky Mountain Operations

Project: Uintah County, UT NAD27
Site: NBU 1021-13A Pad
Well: NBU 1021-13A3CS
Wellbore: OH
Design: OH

Kerr McGee Oil and Gas Onshore LP



WELL DETAILS: NBU 1021-13A3CS

Ground Level: 5261' & RKB 14' @ 5275.00ft (Ensign 145)

+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
0.00	0.00	596508.65	2562196.02	39° 57' 13.561 N	109° 29' 39.707 W

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well NBU 1021-13A3CS, True North
 Vertical (TVD) Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 Section (VS) Reference: Slot - (0.00N, 0.00E)
 Measured Depth Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 Calculation Method: Minimum Curvature
 Local North: True
 Location: Sec 1 T10S R21E

PROJECT DETAILS: Uintah County, UT NAD27

Geodetic System: US State Plane 1927 (Exact solution)
 Datum: NAD 1927 (NADCON CONUS)
 Ellipsoid: Clarke 1866
 Zone: Utah Central 4302

Design: OH (NBU 1021-13A3CS/OH)

Created By: Rex Hall Date: 2010-02-17



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT NAD27
NBU 1021-13A Pad
NBU 1021-13A3CS
OH

Design: OH

Standard Survey Report

17 February, 2010

Anadarko 
Petroleum Corporation



Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 1021-13A Pad
Well: NBU 1021-13A3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	NBU 1021-13A Pad, Sec 1 T10S R21E				
Site Position:		Northing:	596,538.51 ft	Latitude:	39° 57' 13.850 N
From:	Lat/Long	Easting:	2,562,222.69 ft	Longitude:	109° 29' 39.356 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.28 °

Well	NBU 1021-13A3CS, 682' FNL 1314' FEL					
Well Position	+N/-S	0.00 ft	Northing:	596,508.65 ft	Latitude:	39° 57' 13.561 N
	+E/-W	0.00 ft	Easting:	2,562,196.02 ft	Longitude:	109° 29' 39.707 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,261.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/6/2009	11.25	65.88	52,491

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	10.00	0.00	0.00	180.64	

Survey Program	Date 2/17/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
158.00	2,208.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,343.00	7,505.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	
7,598.00	9,335.00	Survey #3 - Production MWD Only (OH)	MWD SDI	MWD - Standard ver 1.0.1	

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)
10.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00
158.00	0.29	220.30	158.00	-0.29	-0.24	0.29	0.20	0.20	0.00
248.00	1.19	183.47	247.99	-1.39	-0.45	1.40	1.08	1.00	-40.92
338.00	1.52	177.95	337.97	-3.52	-0.46	3.52	0.39	0.37	-6.13
428.00	2.20	165.08	427.92	-6.38	0.03	6.38	0.88	0.76	-14.30
518.00	3.04	176.04	517.82	-10.43	0.64	10.42	1.08	0.93	12.18
608.00	3.40	171.04	607.68	-15.45	1.22	15.43	0.51	0.40	-5.56
698.00	3.31	184.52	697.53	-20.67	1.43	20.66	0.88	-0.10	14.98
788.00	3.23	177.10	787.38	-25.80	1.35	25.78	0.48	-0.09	-8.24
878.00	3.55	178.91	877.23	-31.11	1.53	31.10	0.37	0.36	2.01
968.00	3.68	188.74	967.05	-36.75	1.15	36.74	0.70	0.14	10.92



Scientific Drilling International

Survey Report



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 Project: Uintah County, UT NAD27
 Site: NBU 1021-13A Pad
 Well: NBU 1021-13A3CS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
 TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Multi-User Db

Survey										
Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
1,058.00	3.34	191.93	1,056.88	-42.17	0.17	42.17	0.44	-0.38	3.54	
1,148.00	3.31	185.51	1,146.73	-47.33	-0.62	47.33	0.41	-0.03	-7.13	
1,238.00	3.35	175.12	1,236.58	-52.53	-0.65	52.54	0.67	0.04	-11.54	
1,328.00	3.32	184.44	1,326.42	-57.75	-0.63	57.75	0.60	-0.03	10.36	
1,418.00	3.29	182.58	1,416.27	-62.93	-0.95	62.94	0.12	-0.03	-2.07	
1,508.00	3.68	177.52	1,506.11	-68.39	-0.94	68.40	0.55	0.43	-5.62	
1,598.00	3.62	172.71	1,595.93	-74.10	-0.45	74.10	0.35	-0.07	-5.34	
1,688.00	3.21	175.28	1,685.77	-79.43	0.12	79.42	0.49	-0.46	2.86	
1,778.00	3.35	179.29	1,775.62	-84.57	0.36	84.56	0.30	0.16	4.46	
1,868.00	3.86	173.55	1,865.44	-90.21	0.73	90.19	0.69	0.57	-6.38	
1,958.00	3.65	180.91	1,955.25	-96.08	1.02	96.07	0.58	-0.23	8.18	
2,048.00	3.71	177.38	2,045.06	-101.86	1.11	101.84	0.26	0.07	-3.92	
2,138.00	4.09	185.89	2,134.85	-107.96	0.91	107.94	0.77	0.42	9.46	
2,208.00	4.24	191.92	2,204.67	-112.97	0.12	112.96	0.66	0.21	8.61	
Last Survey in 11" Hole										
2,343.00	4.40	178.59	2,339.29	-123.03	-0.78	123.03	0.75	0.12	-9.87	
First SDI Production DD-MWD Survey										
2,434.00	5.54	192.82	2,429.95	-130.81	-1.67	130.82	1.84	1.25	15.64	
2,525.00	7.56	197.39	2,520.35	-140.80	-4.43	140.84	2.29	2.22	5.02	
2,615.00	10.29	192.91	2,609.25	-154.29	-8.00	154.37	3.13	3.03	-4.98	
2,706.00	12.13	185.27	2,698.52	-171.74	-10.69	171.84	2.59	2.02	-8.40	
2,796.00	14.86	182.10	2,786.03	-192.69	-11.98	192.81	3.14	3.03	-3.52	
2,887.00	17.06	179.64	2,873.52	-217.70	-12.33	217.83	2.53	2.42	-2.70	
2,977.00	17.85	181.49	2,959.37	-244.69	-12.60	244.82	1.07	0.88	2.06	
3,068.00	17.15	178.76	3,046.16	-272.05	-12.68	272.17	1.19	-0.77	-3.00	
3,159.00	15.56	179.64	3,133.48	-297.67	-12.31	297.79	1.77	-1.75	0.97	
3,249.00	15.04	178.50	3,220.29	-321.41	-11.93	321.53	0.67	-0.58	-1.27	
3,340.00	14.77	179.64	3,308.22	-344.82	-11.55	344.92	0.44	-0.30	1.25	
3,430.00	14.68	182.19	3,395.27	-367.68	-11.91	367.79	0.73	-0.10	2.83	
3,521.00	13.89	184.47	3,483.46	-390.10	-13.20	390.22	1.07	-0.87	2.51	
3,611.00	14.86	183.16	3,570.64	-412.39	-14.68	412.53	1.14	1.08	-1.46	
3,702.00	13.63	179.90	3,658.84	-434.76	-15.30	434.91	1.61	-1.35	-3.58	
3,792.00	12.66	180.08	3,746.48	-455.23	-15.30	455.37	1.08	-1.08	0.20	
3,883.00	13.54	182.37	3,835.11	-475.85	-15.75	475.99	1.12	0.97	2.52	
3,973.00	13.72	181.49	3,922.58	-497.04	-16.47	497.20	0.31	0.20	-0.98	
4,064.00	12.13	179.46	4,011.27	-517.39	-16.66	517.55	1.82	-1.75	-2.23	
4,154.00	10.20	178.94	4,099.56	-534.82	-16.42	534.97	2.15	-2.14	-0.58	
4,245.00	9.67	177.88	4,189.20	-550.51	-15.99	550.66	0.62	-0.58	-1.16	
4,336.00	8.44	171.12	4,279.06	-564.75	-14.68	564.88	1.78	-1.35	-7.43	
4,426.00	4.92	165.05	4,368.44	-575.01	-12.66	575.11	3.98	-3.91	-6.74	
4,517.00	2.90	151.69	4,459.22	-580.80	-10.56	580.89	2.42	-2.22	-14.68	
4,607.00	2.20	90.34	4,549.15	-582.82	-7.75	582.87	2.97	-0.78	-68.17	
4,698.00	1.67	46.93	4,640.10	-581.92	-5.04	581.94	1.66	-0.58	-47.70	
4,788.00	1.06	349.80	4,730.08	-580.21	-4.23	580.22	1.57	-0.68	-63.48	
4,879.00	0.70	17.39	4,821.07	-578.85	-4.21	578.86	0.60	-0.40	30.32	
4,969.00	1.14	320.27	4,911.06	-577.64	-4.62	577.65	1.07	0.49	-63.47	
5,060.00	0.88	311.83	5,002.04	-576.47	-5.72	576.50	0.33	-0.29	-9.27	
5,150.00	0.88	296.71	5,092.03	-575.70	-6.85	575.74	0.26	0.00	-16.80	
5,241.00	0.88	288.54	5,183.02	-575.17	-8.14	575.22	0.14	0.00	-8.98	
5,331.00	0.62	252.33	5,273.02	-575.09	-9.26	575.16	0.59	-0.29	-40.23	
5,422.00	1.32	311.65	5,364.00	-574.55	-10.51	574.63	1.25	0.77	65.19	
5,512.00	0.97	305.85	5,453.99	-573.41	-11.90	573.51	0.41	-0.39	-6.44	
5,603.00	0.97	274.39	5,544.97	-572.90	-13.29	573.01	0.58	0.00	-34.57	
5,694.00	0.79	267.88	5,635.96	-572.87	-14.69	572.99	0.23	-0.20	-7.15	



Scientific Drilling International

Survey Report



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 Project: Uintah County, UT NAD27
 Site: NBU 1021-13A Pad
 Well: NBU 1021-13A3CS
 Wellbore: OH
 Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
 TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
 North Reference: True
 Survey Calculation Method: Minimum Curvature
 Database: EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
5,784.00	0.79	257.07	5,725.95	-573.03	-15.91	573.17	0.17	0.00	-12.01
5,875.00	0.70	254.87	5,816.95	-573.31	-17.06	573.47	0.10	-0.10	-2.42
5,965.00	0.35	3.33	5,906.94	-573.18	-17.58	573.34	0.97	-0.39	120.51
6,056.00	0.26	68.28	5,997.94	-572.83	-17.37	572.99	0.37	-0.10	71.37
6,146.00	1.41	331.52	6,087.93	-571.78	-17.71	571.94	1.63	1.28	-107.51
6,237.00	1.23	327.38	6,178.91	-569.97	-18.77	570.15	0.22	-0.20	-4.55
6,327.00	0.79	330.02	6,268.90	-568.62	-19.60	568.81	0.49	-0.49	2.93
6,418.00	0.53	295.39	6,359.89	-567.90	-20.29	568.09	0.51	-0.29	-38.05
6,508.00	0.62	251.97	6,449.89	-567.87	-21.13	568.07	0.48	0.10	-48.24
6,599.00	0.88	226.75	6,540.88	-568.50	-22.11	568.71	0.46	0.29	-27.71
6,690.00	0.79	257.16	6,631.87	-569.12	-23.23	569.34	0.49	-0.10	33.42
6,780.00	1.32	348.48	6,721.86	-568.24	-24.04	568.47	1.73	0.59	101.47
6,871.00	0.62	356.92	6,812.84	-566.72	-24.28	566.96	0.78	-0.77	9.27
6,961.00	0.53	1.05	6,902.84	-565.82	-24.29	566.06	0.11	-0.10	4.59
7,052.00	0.26	290.56	6,993.84	-565.33	-24.48	565.57	0.56	-0.30	-77.46
7,143.00	0.26	264.72	7,084.84	-565.27	-24.88	565.52	0.13	0.00	-28.40
7,233.00	0.35	214.71	7,174.84	-565.52	-25.24	565.76	0.30	0.10	-55.57
7,324.00	1.06	224.11	7,265.83	-566.35	-25.98	566.81	0.79	0.78	10.33
7,415.00	0.53	87.62	7,356.82	-566.94	-26.15	567.19	1.64	-0.58	-149.99
7,505.00	0.70	85.51	7,446.82	-566.88	-25.18	567.12	0.19	0.19	-2.34
Last SDI Production DD-MWD Survey									
7,598.00	0.88	103.79	7,539.81	-567.00	-23.92	567.24	0.33	0.19	19.66
First SDI Production MWD Survey									
7,688.00	1.06	111.79	7,629.80	-567.48	-22.48	567.69	0.25	0.20	8.89
7,778.00	0.88	98.52	7,719.78	-567.89	-21.02	568.09	0.32	-0.20	-14.74
7,869.00	1.06	103.88	7,810.77	-568.19	-19.51	568.38	0.22	0.20	5.89
7,958.00	0.70	122.42	7,899.76	-568.68	-18.26	568.85	0.51	-0.40	20.83
8,049.00	0.88	123.83	7,990.75	-569.37	-17.21	569.53	0.20	0.20	1.55
8,138.00	0.97	123.13	8,079.74	-570.16	-16.01	570.31	0.10	0.10	-0.79
8,230.00	1.06	126.82	8,171.73	-571.10	-14.68	571.23	0.12	0.10	4.01
8,320.00	1.14	134.46	8,261.71	-572.22	-13.37	572.34	0.19	0.09	8.49
8,411.00	1.41	144.92	8,352.69	-573.77	-12.08	573.87	0.39	0.30	11.49
8,502.00	1.58	153.54	8,443.66	-575.81	-10.88	575.90	0.31	0.19	9.47
8,592.00	1.49	153.71	8,533.62	-577.97	-9.81	578.05	0.10	-0.10	0.19
8,682.00	1.06	152.66	8,623.60	-579.76	-8.91	579.83	0.48	-0.48	-1.17
8,772.00	1.06	152.83	8,713.59	-581.24	-8.14	581.30	0.00	0.00	0.19
8,861.00	1.06	155.21	8,802.57	-582.72	-7.42	582.77	0.05	0.00	2.67
8,951.00	1.06	159.78	8,892.56	-584.26	-6.79	584.30	0.09	0.00	5.08
9,045.00	1.23	173.58	8,986.54	-586.08	-6.37	586.11	0.34	0.18	14.68
9,135.00	1.49	183.95	9,076.51	-588.20	-6.34	588.24	0.40	0.29	11.52
9,279.00	1.41	182.63	9,220.47	-591.84	-6.56	591.88	0.06	-0.06	-0.92
Last SDI Production MWD Survey									
9,335.00	1.41	182.63	9,276.45	-593.22	-6.62	593.26	0.00	0.00	0.00
Projection To TD									



Scientific Drilling International

Survey Report



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 1021-13A Pad
Well: NBU 1021-13A3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Targets									
Target Name	Dip Angle	Dip Dir.	TVD	+N/-S	+E/-W	Northing	Easting	Latitude	Longitude
- hit/miss target	(°)	(°)	(ft)	(ft)	(ft)	(ft)	(ft)		
- Shape									
NBU 1021-13A3CS PBI-	0.00	0.00	9,264.00	-578.22	-12.62	595,930.29	2,562,196.37	39° 57' 7.846 N	109° 29' 39.869 W
- actual wellpath misses target center by 15.87ft at 9322.19ft MD (9263.65 TVD, -592.90 N, -6.60 E)									
- Circle (radius 25.00)									

Checked By: _____ Approved By: _____ Date: _____



Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT NAD27
NBU 1021-13A Pad
NBU 1021-13A3CS
OH**

Design: OH

Survey Report - Geographic

17 February, 2010





Scientific Drilling International

Survey Report - Geographic



Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 1021-13A Pad
Well: NBU 1021-13A3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
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North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Project	Uintah County, UT NAD27		
Map System:	US State Plane 1927 (Exact solution)	System Datum:	Mean Sea Level
Geo Datum:	NAD 1927 (NADCON CONUS)		
Map Zone:	Utah Central 4302		

Site	NBU 1021-13A Pad, Sec 1 T10S R21E				
Site Position:		Northing:	596,538.51 ft	Latitude:	39° 57' 13.850 N
From:	Lat/Long	Easting:	2,562,222.69 ft	Longitude:	109° 29' 39.356 W
Position Uncertainty:	0.00 ft	Slot Radius:	in	Grid Convergence:	1.28 °

Well	NBU 1021-13A3CS, 682' FNL 1314' FEL					
Well Position	+N/-S	0.00 ft	Northing:	596,508.65 ft	Latitude:	39° 57' 13.561 N
	+E/-W	0.00 ft	Easting:	2,562,196.02 ft	Longitude:	109° 29' 39.707 W
Position Uncertainty		0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,261.00 ft

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF200510	11/6/2009	11.25	65.88	52,491

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	10.00
Vertical Section:		Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)
		10.00	0.00	0.00	180.64

Survey Program	Date 2/17/2010				
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
158.00	2,208.00	Survey #1 - Surface (OH)	MWD SDI	MWD - Standard ver 1.0.1	
2,343.00	7,505.00	Survey #2 - Production (OH)	MWD SDI	MWD - Standard ver 1.0.1	
7,598.00	9,335.00	Survey #3 - Production MWD Only (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT NAD27
Site: NBU 1021-13A Pad
Well: NBU 1021-13A3CS
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well NBU 1021-13A3CS
TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
10.00	0.00	0.00	10.00	0.00	0.00	596,508.65	2,562,196.02	39° 57' 13.561 N	109° 29' 39.707 W
158.00	0.29	220.30	158.00	-0.29	-0.24	596,508.36	2,562,195.78	39° 57' 13.558 N	109° 29' 39.710 W
248.00	1.19	183.47	247.99	-1.39	-0.45	596,507.25	2,562,195.60	39° 57' 13.547 N	109° 29' 39.713 W
338.00	1.52	177.95	337.97	-3.52	-0.46	596,505.12	2,562,195.63	39° 57' 13.526 N	109° 29' 39.713 W
428.00	2.20	165.08	427.92	-6.38	0.03	596,502.27	2,562,196.19	39° 57' 13.498 N	109° 29' 39.707 W
518.00	3.04	176.04	517.82	-10.43	0.64	596,498.24	2,562,196.89	39° 57' 13.458 N	109° 29' 39.699 W
608.00	3.40	171.04	607.68	-15.45	1.22	596,493.23	2,562,197.58	39° 57' 13.408 N	109° 29' 39.691 W
698.00	3.31	184.52	697.53	-20.67	1.43	596,488.01	2,562,197.91	39° 57' 13.356 N	109° 29' 39.689 W
788.00	3.23	177.10	787.38	-25.80	1.35	596,482.89	2,562,197.95	39° 57' 13.306 N	109° 29' 39.690 W
878.00	3.55	178.91	877.23	-31.11	1.53	596,477.58	2,562,198.25	39° 57' 13.253 N	109° 29' 39.687 W
968.00	3.68	188.74	967.05	-36.75	1.15	596,471.93	2,562,197.99	39° 57' 13.198 N	109° 29' 39.692 W
1,058.00	3.34	191.93	1,056.88	-42.17	0.17	596,466.49	2,562,197.13	39° 57' 13.144 N	109° 29' 39.705 W
1,148.00	3.31	185.51	1,146.73	-47.33	-0.62	596,461.32	2,562,196.45	39° 57' 13.093 N	109° 29' 39.715 W
1,238.00	3.35	175.12	1,236.58	-52.53	-0.65	596,456.12	2,562,196.54	39° 57' 13.042 N	109° 29' 39.715 W
1,328.00	3.32	184.44	1,326.42	-57.75	-0.63	596,450.90	2,562,196.68	39° 57' 12.990 N	109° 29' 39.715 W
1,418.00	3.29	182.58	1,416.27	-62.93	-0.95	596,445.72	2,562,196.48	39° 57' 12.939 N	109° 29' 39.719 W
1,508.00	3.68	177.52	1,506.11	-68.39	-0.94	596,440.25	2,562,196.61	39° 57' 12.885 N	109° 29' 39.719 W
1,598.00	3.62	172.71	1,595.93	-74.10	-0.45	596,434.56	2,562,197.22	39° 57' 12.828 N	109° 29' 39.713 W
1,688.00	3.21	175.28	1,685.77	-79.43	0.12	596,429.25	2,562,197.91	39° 57' 12.776 N	109° 29' 39.706 W
1,778.00	3.35	179.29	1,775.62	-84.57	0.36	596,424.11	2,562,198.27	39° 57' 12.725 N	109° 29' 39.702 W
1,868.00	3.86	173.55	1,865.44	-90.21	0.73	596,418.48	2,562,198.77	39° 57' 12.669 N	109° 29' 39.698 W
1,958.00	3.65	180.91	1,955.25	-96.08	1.02	596,412.61	2,562,199.19	39° 57' 12.611 N	109° 29' 39.694 W
2,048.00	3.71	177.38	2,045.06	-101.86	1.11	596,406.85	2,562,199.41	39° 57' 12.554 N	109° 29' 39.693 W
2,138.00	4.09	185.89	2,134.85	-107.96	0.91	596,400.74	2,562,199.35	39° 57' 12.494 N	109° 29' 39.695 W
2,208.00	4.24	191.92	2,204.67	-112.97	0.12	596,395.71	2,562,198.67	39° 57' 12.444 N	109° 29' 39.705 W
Last Survey in 11" Hole									
2,343.00	4.40	178.59	2,339.29	-123.03	-0.78	596,385.63	2,562,197.99	39° 57' 12.345 N	109° 29' 39.717 W
First SDI Production DD-MWD Survey									
2,434.00	5.54	192.82	2,429.95	-130.81	-1.67	596,377.84	2,562,197.28	39° 57' 12.268 N	109° 29' 39.728 W
2,525.00	7.56	197.39	2,520.35	-140.80	-4.43	596,367.78	2,562,194.74	39° 57' 12.169 N	109° 29' 39.764 W
2,615.00	10.29	192.91	2,609.25	-154.29	-8.00	596,354.22	2,562,191.48	39° 57' 12.036 N	109° 29' 39.810 W
2,706.00	12.13	185.27	2,698.52	-171.74	-10.69	596,336.72	2,562,189.18	39° 57' 11.863 N	109° 29' 39.844 W
2,796.00	14.86	182.10	2,786.03	-192.69	-11.98	596,315.74	2,562,188.35	39° 57' 11.656 N	109° 29' 39.861 W
2,887.00	17.06	179.64	2,873.52	-217.70	-12.33	596,290.73	2,562,188.57	39° 57' 11.409 N	109° 29' 39.865 W
2,977.00	17.85	181.49	2,959.37	-244.69	-12.60	596,263.74	2,562,188.90	39° 57' 11.142 N	109° 29' 39.869 W
3,068.00	17.15	178.76	3,046.16	-272.05	-12.68	596,236.39	2,562,189.44	39° 57' 10.872 N	109° 29' 39.870 W
3,159.00	15.56	179.64	3,133.48	-297.67	-12.31	596,210.78	2,562,190.38	39° 57' 10.619 N	109° 29' 39.865 W
3,249.00	15.04	178.50	3,220.29	-321.41	-11.93	596,187.05	2,562,191.30	39° 57' 10.384 N	109° 29' 39.860 W
3,340.00	14.77	179.64	3,308.22	-344.82	-11.55	596,163.66	2,562,192.20	39° 57' 10.153 N	109° 29' 39.855 W
3,430.00	14.68	182.19	3,395.27	-367.68	-11.91	596,140.79	2,562,192.35	39° 57' 9.927 N	109° 29' 39.860 W
3,521.00	13.89	184.47	3,483.46	-390.10	-13.20	596,118.36	2,562,191.56	39° 57' 9.705 N	109° 29' 39.877 W
3,611.00	14.86	183.16	3,570.64	-412.39	-14.68	596,096.04	2,562,190.59	39° 57' 9.485 N	109° 29' 39.896 W
3,702.00	13.63	179.90	3,658.84	-434.76	-15.30	596,073.65	2,562,190.46	39° 57' 9.264 N	109° 29' 39.904 W
3,792.00	12.66	180.08	3,746.48	-455.23	-15.30	596,053.19	2,562,190.93	39° 57' 9.062 N	109° 29' 39.903 W
3,883.00	13.54	182.37	3,835.11	-475.85	-15.75	596,032.57	2,562,190.93	39° 57' 8.858 N	109° 29' 39.909 W
3,973.00	13.72	181.49	3,922.58	-497.04	-16.47	596,011.36	2,562,190.70	39° 57' 8.648 N	109° 29' 39.918 W
4,064.00	12.13	179.46	4,011.27	-517.39	-16.66	595,991.01	2,562,190.96	39° 57' 8.447 N	109° 29' 39.921 W
4,154.00	10.20	178.94	4,099.56	-534.82	-16.42	595,973.60	2,562,191.59	39° 57' 8.275 N	109° 29' 39.918 W
4,245.00	9.67	177.88	4,189.20	-550.51	-15.99	595,957.92	2,562,192.37	39° 57' 8.120 N	109° 29' 39.912 W
4,336.00	8.44	171.12	4,279.06	-564.75	-14.68	595,943.72	2,562,194.01	39° 57' 7.979 N	109° 29' 39.895 W
4,426.00	4.92	165.05	4,368.44	-575.01	-12.66	595,933.51	2,562,196.25	39° 57' 7.878 N	109° 29' 39.870 W
4,517.00	2.90	151.69	4,459.22	-580.80	-10.56	595,927.76	2,562,198.48	39° 57' 7.820 N	109° 29' 39.843 W
4,607.00	2.20	90.34	4,549.15	-582.82	-7.75	595,925.81	2,562,201.33	39° 57' 7.801 N	109° 29' 39.807 W
4,698.00	1.67	46.93	4,640.10	-581.92	-5.04	595,926.76	2,562,204.03	39° 57' 7.809 N	109° 29' 39.772 W
4,788.00	1.06	349.80	4,730.08	-580.21	-4.23	595,928.49	2,562,204.80	39° 57' 7.826 N	109° 29' 39.761 W

Company: Kerr McGee Oil and Gas Onshore LP
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Design: OH

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TVD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
MD Reference: GL 5261' & RKB 14' @ 5275.00ft (Ensign 145)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: EDM 2003.16 Multi-User Db

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N-S (ft)	+E-W (ft)	Map Northing (ft)	Map Easting (ft)	Latitude	Longitude
4,879.00	0.70	17.39	4,821.07	-578.85	-4.21	595,929.85	2,562,204.78	39° 57' 7.840 N	109° 29' 39.761 W
4,969.00	1.14	320.27	4,911.06	-577.64	-4.62	595,931.06	2,562,204.35	39° 57' 7.852 N	109° 29' 39.766 W
5,060.00	0.88	311.83	5,002.04	-576.47	-5.72	595,932.19	2,562,203.22	39° 57' 7.863 N	109° 29' 39.780 W
5,150.00	0.88	296.71	5,092.03	-575.70	-6.85	595,932.94	2,562,202.08	39° 57' 7.871 N	109° 29' 39.795 W
5,241.00	0.88	288.54	5,183.02	-575.17	-8.14	595,933.45	2,562,200.78	39° 57' 7.876 N	109° 29' 39.811 W
5,331.00	0.62	252.33	5,273.02	-575.09	-9.26	595,933.49	2,562,199.66	39° 57' 7.877 N	109° 29' 39.826 W
5,422.00	1.32	311.65	5,364.00	-574.55	-10.51	595,934.01	2,562,198.39	39° 57' 7.882 N	109° 29' 39.842 W
5,512.00	0.97	305.85	5,453.99	-573.41	-11.90	595,935.12	2,562,196.97	39° 57' 7.893 N	109° 29' 39.860 W
5,603.00	0.97	274.39	5,544.97	-572.90	-13.29	595,935.60	2,562,195.57	39° 57' 7.899 N	109° 29' 39.878 W
5,694.00	0.79	267.88	5,635.96	-572.87	-14.69	595,935.60	2,562,194.18	39° 57' 7.899 N	109° 29' 39.896 W
5,784.00	0.79	257.07	5,725.95	-573.03	-15.91	595,935.41	2,562,192.96	39° 57' 7.897 N	109° 29' 39.911 W
5,875.00	0.70	254.87	5,816.95	-573.31	-17.06	595,935.10	2,562,191.81	39° 57' 7.894 N	109° 29' 39.926 W
5,965.00	0.35	3.33	5,906.94	-573.18	-17.58	595,935.22	2,562,191.30	39° 57' 7.896 N	109° 29' 39.933 W
6,056.00	0.26	68.28	5,997.94	-572.83	-17.37	595,935.58	2,562,191.50	39° 57' 7.899 N	109° 29' 39.930 W
6,146.00	1.41	331.52	6,087.93	-571.78	-17.71	595,936.62	2,562,191.13	39° 57' 7.910 N	109° 29' 39.934 W
6,237.00	1.23	327.38	6,178.91	-569.97	-18.77	595,938.40	2,562,190.03	39° 57' 7.927 N	109° 29' 39.948 W
6,327.00	0.79	330.02	6,268.90	-568.62	-19.60	595,939.73	2,562,189.17	39° 57' 7.941 N	109° 29' 39.959 W
6,418.00	0.53	295.39	6,359.89	-567.90	-20.29	595,940.44	2,562,188.46	39° 57' 7.948 N	109° 29' 39.968 W
6,508.00	0.62	251.97	6,449.89	-567.87	-21.13	595,940.45	2,562,187.62	39° 57' 7.948 N	109° 29' 39.978 W
6,599.00	0.88	226.75	6,540.88	-568.50	-22.11	595,939.80	2,562,186.66	39° 57' 7.942 N	109° 29' 39.991 W
6,690.00	0.79	257.16	6,631.87	-569.12	-23.23	595,939.15	2,562,185.55	39° 57' 7.936 N	109° 29' 40.005 W
6,780.00	1.32	348.48	6,721.86	-568.24	-24.04	595,940.01	2,562,184.72	39° 57' 7.945 N	109° 29' 40.016 W
6,871.00	0.62	356.92	6,812.84	-566.72	-24.28	595,941.53	2,562,184.45	39° 57' 7.960 N	109° 29' 40.019 W
6,961.00	0.53	1.05	6,902.84	-565.82	-24.29	595,942.43	2,562,184.41	39° 57' 7.969 N	109° 29' 40.019 W
7,052.00	0.26	290.56	6,993.84	-565.33	-24.48	595,942.92	2,562,184.22	39° 57' 7.973 N	109° 29' 40.021 W
7,143.00	0.26	264.72	7,084.84	-565.27	-24.88	595,942.96	2,562,183.82	39° 57' 7.974 N	109° 29' 40.026 W
7,233.00	0.35	214.71	7,174.84	-565.52	-25.24	595,942.71	2,562,183.46	39° 57' 7.971 N	109° 29' 40.031 W
7,324.00	1.06	224.11	7,265.83	-566.35	-25.98	595,941.86	2,562,182.74	39° 57' 7.983 N	109° 29' 40.041 W
7,415.00	0.53	87.62	7,356.82	-566.94	-26.15	595,941.27	2,562,182.59	39° 57' 7.957 N	109° 29' 40.043 W
7,505.00	0.70	85.51	7,446.82	-566.88	-25.18	595,941.35	2,562,183.55	39° 57' 7.958 N	109° 29' 40.030 W
Last SDI Production DD-MWD Survey									
7,598.00	0.88	103.79	7,539.81	-567.00	-23.92	595,941.25	2,562,184.81	39° 57' 7.957 N	109° 29' 40.014 W
First SDI Production MWD Survey									
7,688.00	1.06	111.79	7,629.80	-567.48	-22.48	595,940.81	2,562,186.27	39° 57' 7.952 N	109° 29' 39.996 W
7,778.00	0.88	98.52	7,719.78	-567.89	-21.02	595,940.43	2,562,187.73	39° 57' 7.948 N	109° 29' 39.977 W
7,869.00	1.06	103.88	7,810.77	-568.19	-19.51	595,940.16	2,562,189.25	39° 57' 7.945 N	109° 29' 39.958 W
7,958.00	0.70	122.42	7,899.76	-568.88	-18.26	595,939.70	2,562,190.51	39° 57' 7.940 N	109° 29' 39.941 W
8,049.00	0.88	123.83	7,990.75	-569.37	-17.21	595,939.04	2,562,191.58	39° 57' 7.933 N	109° 29' 39.928 W
8,138.00	0.97	123.13	8,079.74	-570.16	-16.01	595,938.27	2,562,192.80	39° 57' 7.926 N	109° 29' 39.913 W
8,230.00	1.06	126.82	8,171.73	-571.10	-14.68	595,937.37	2,562,194.15	39° 57' 7.916 N	109° 29' 39.895 W
8,320.00	1.14	134.46	8,261.71	-572.22	-13.37	595,936.27	2,562,195.48	39° 57' 7.905 N	109° 29' 39.879 W
8,411.00	1.41	144.92	8,352.69	-573.77	-12.08	595,934.75	2,562,196.80	39° 57' 7.890 N	109° 29' 39.862 W
8,502.00	1.58	153.54	8,443.66	-575.81	-10.88	595,932.74	2,562,198.05	39° 57' 7.870 N	109° 29' 39.847 W
8,592.00	1.49	153.71	8,533.62	-577.97	-9.81	595,930.60	2,562,199.17	39° 57' 7.848 N	109° 29' 39.833 W
8,682.00	1.06	152.66	8,623.60	-579.76	-8.91	595,928.84	2,562,200.11	39° 57' 7.831 N	109° 29' 39.821 W
8,772.00	1.06	152.83	8,713.59	-581.24	-8.14	595,927.37	2,562,200.91	39° 57' 7.816 N	109° 29' 39.812 W
8,861.00	1.06	155.21	8,802.57	-582.72	-7.42	595,925.91	2,562,201.66	39° 57' 7.801 N	109° 29' 39.802 W
8,951.00	1.06	159.78	8,892.56	-584.26	-6.79	595,924.39	2,562,202.33	39° 57' 7.786 N	109° 29' 39.794 W
9,045.00	1.23	173.58	8,986.54	-586.08	-6.37	595,922.58	2,562,202.79	39° 57' 7.768 N	109° 29' 39.789 W
9,135.00	1.49	183.95	9,076.51	-588.20	-6.34	595,920.45	2,562,202.86	39° 57' 7.747 N	109° 29' 39.788 W
9,279.00	1.41	182.63	9,220.47	-591.84	-6.56	595,916.81	2,562,202.73	39° 57' 7.711 N	109° 29' 39.791 W
Last SDI Production MWD Survey									
9,335.00	1.41	182.63	9,276.45	-593.22	-6.62	595,915.43	2,562,202.70	39° 57' 7.698 N	109° 29' 39.792 W
Projection To TD									

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9
SUNDRY NOTICES AND REPORTS ON WELLS		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608
Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
1. TYPE OF WELL Gas Well		7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 1021-13A3CS
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047503330000
4. LOCATION OF WELL FOOTAGES AT SURFACE: 0682 FNL 1314 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NENE Section: 13 Township: 10.0S Range: 21.0E Meridian: S		9. FIELD and POOL or WILDCAT: NATURAL BUTTES
		COUNTY: UINTAH
		STATE: UTAH
11. CHECK APPROPRIATE BOXES TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA		
TYPE OF SUBMISSION	TYPE OF ACTION	
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 4/11/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> WILDCAT WELL DETERMINATION <input checked="" type="checkbox"/> OTHER	
		<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 50px;" type="text" value="WELLHEAD"/>
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.		
The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.		
		Approved by the Utah Division of Oil, Gas and Mining Date: <u>04/13/2011</u> By: <u><i>Derek Duff</i></u>
NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 4/11/2011

WORKORDER # 88119378

Name: NBU 1021-13A3CS - 1021-13A PAD 3/30/11
 Surface Location: NENE Sec. 13, T10S, R21E
 Uintah County, UT

API: 4304750333 LEASE#: ML-23608

ELEVATIONS: 5262' GL 5275' KB

TOTAL DEPTH: 9335' PBD: 9275'

SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2241'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9319'
 T.O.C.@ Surface per CBL

PERFORATIONS: Wasatch 6921' - 7030'
 Mesaverde 7341' - 9189'

Tubular/Borehole	Drift inches	Collapse psi	Burst psi	Capacities		
				Gal./ft.	Cuft/ft.	Bbl./ft.
2.375" 4.7# J-55 tbg.	1.901	8100	7700	0.1624	0.02171	0.00387
4.5" 11.6# I-80	3.875	6350	7780	0.6528	0.0872	0.0155
9.625" 36# J-55	8.921	2020	3520	3.247	0.434	0.0773
Annular Capacities						
2.375" tbg. X 4 1/2" 11.6# csg				0.4227	0.0565	0.01

GEOLOGICAL TOPS:

1172' Green River
 1546' Bird's Nest
 2023' Mahogany
 4521' Wasatch
 7184' Mesaverde

NBU 1021-13A3CS – WELLHEAD REPLACEMENT PROCEDURE -

PREP-WORK PRIOR TO MIRU:

1. Dig out down to the 2" surface casing valve or to the valve on the riser off the surface casing.
2. Install a tee with 2 valves, with a pressure gauge and sensor on one valve.
3. Open casing valve and record pressures.
4. Install nipple and steel hose on the other valve, the relief valve,. Do not use hammer unions. No impact equipment or tools to be used for any of this installation. Extend hose and hard piping to a downwind location at least 100' from the wellhead. Consider installing a manifold so that vent area could be in two locations approx. 90 degrees apart from the wellhead.
5. Open the relief valve and blow well down to the atmosphere.
6. Make a determination of amount of gas flow, either by installation of a choke nipple, bucket test or other.
7. Shut well in. Observe for rate of build-up by utilizing sensor data. Do not build-up for more than 24 hours. Vent gas through the vent line and leave open to the atmosphere.

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~6871'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOOH.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6821'. Clean out to PBTD (9275').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

1. PU internal casing cutters and RIH. Cut casing at +/- 6' from surface.
2. POOH, LD cutters and casing.
3. PU 4 1/2" overshoot. RIH, latch fish. Pick string weight to neutral.
4. MIRU casing crew and wireline services. RIH and shoot string shot at casing collar @ ± 46'.
5. Back-off casing, POOH.

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 7,000# / 9,000# psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~6821'. Clean out to PBTD (9275').
11. POOH, land tbg and pump off POBS.
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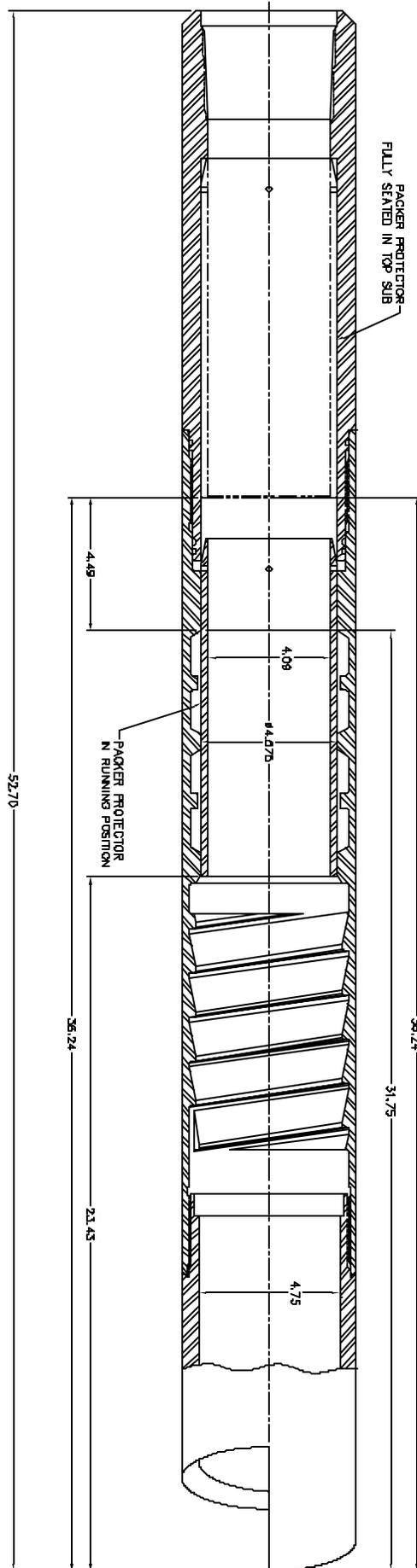


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

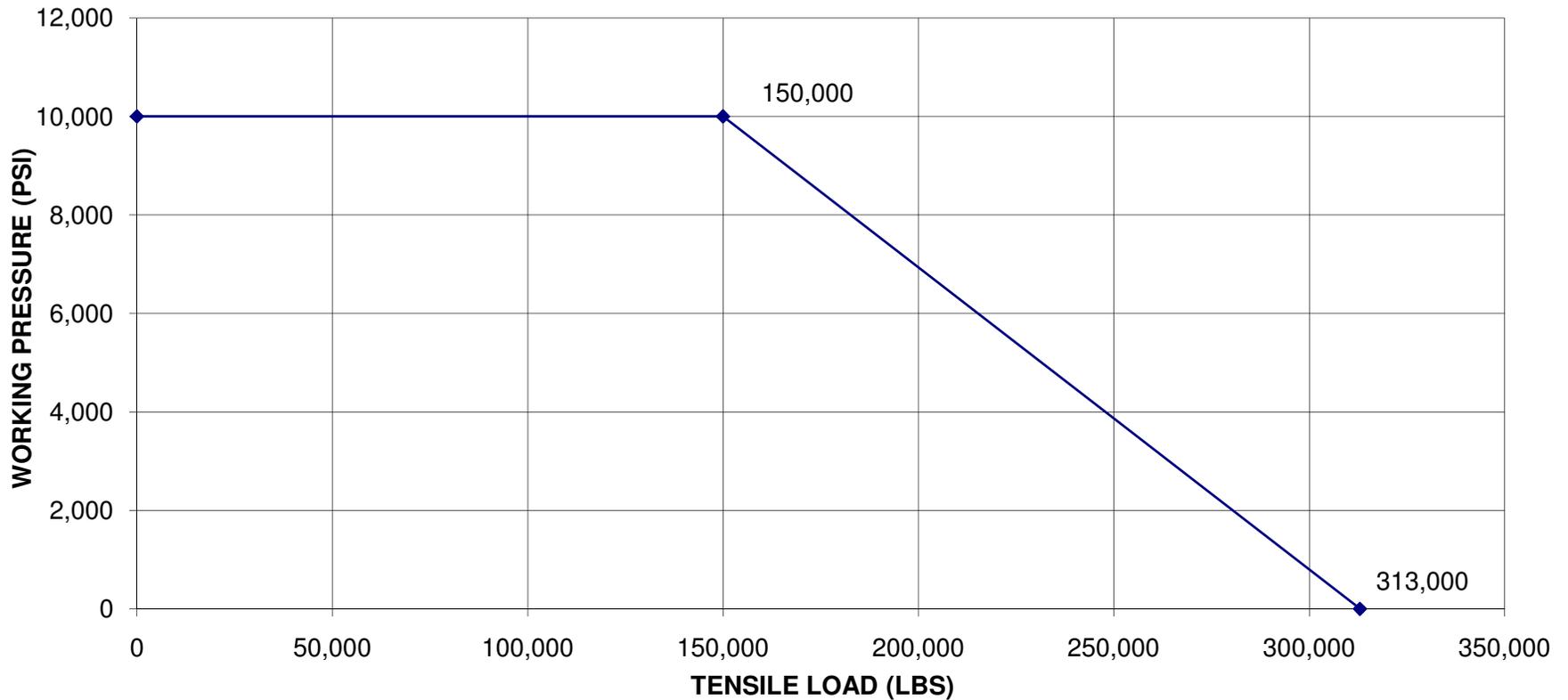
1. Install all four Logan Type "L" Packers in the spaces provided in the Casing Patch Bowl. Refer to diagram provided for proper installation.
2. Install Packer Protector from the Basket Grapple end of the Bowl. The beveled end of the Packer Protector goes in first. Carefully push the Packer Protector through the four Type "L" Packers.
3. Align Shear Pin Holes in Packer Protector so that the holes have just passed into the counter bore at the Top Sub end, refer to diagram. The Packer Protector is provided with four Shear Pin Holes. Use only two holes, 180 degrees apart and install the pins.
4. Screw the Basket Grapple in from the lower end of the Bowl, using left-hand rotation. The Tang Slot in the Basket Grapple must land in line with the slot in the Bowl.
5. Insert the Basket Grapple Control into the end of the Bowl. Align Tang on the Basket Grapple Control with the Tang Slot of the Bowl and Basket Grapple. This secures the Bowl and the Basket Grapple together.
6. Install the Cutlipped Guide into the lower end of the Bowl.
7. Install O-Rings on the two five-foot long Extensions. Screw the first Extension into the top end of the Bowl. Screw the second Extension into the top end of the first Extension.
8. Install O-Ring on Top Sub. Screw Top Sub into top end of second Extension.

Follow recommended Make-Up Torque as provided in chart.



510L-005-001 4-1/2" LOGAN HP CASING PATCH

**STRENGTH DATA FOR LOGAN 5.88" OD "L" TYPE CSG PATCH
4-1/2 CASING, 10K PSI MAX WP 125K YIELD MAT'L
LOGAN ASSEMBLY NO. 510L-005 -000**



COLLAPSE PRESSURE:
11,222 PSI @ 0 TENSILE
8,634 PSI @ 220K TENSILE

Tensile Strength @ Yield:
Tensile Strength w/ 0 Int. Press.= 472,791lbs.
Tensile Strength w/ 10K Int. Press.= 313,748lbs.

DATA BY SLS 11/16/2009

RECEIVED Apr. 11, 2011

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING		FORM 9																														
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.		5. LEASE DESIGNATION AND SERIAL NUMBER: ML 23608																														
1. TYPE OF WELL Gas Well		6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME: NATURAL BUTTES																														
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.		8. WELL NAME and NUMBER: NBU 1021-13A3CS																														
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779		9. API NUMBER: 43047503330000																														
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TYPE OF SUBMISSION	TYPE OF ACTION																															
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start: <input checked="" type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: 6/7/2011 <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<table style="width: 100%; border: none;"> <tr> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ACIDIZE</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input type="checkbox"/> ALTER CASING</td> <td style="width: 33%; vertical-align: top; padding: 2px;"><input checked="" type="checkbox"/> CASING REPAIR</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TO PREVIOUS PLANS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE TUBING</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL NAME</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CHANGE WELL STATUS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> CONVERT WELL TYPE</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> DEEPEN</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> FRACTURE TREAT</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> NEW CONSTRUCTION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> OPERATOR CHANGE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG AND ABANDON</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PLUG BACK</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> PRODUCTION START OR RESUME</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECLAMATION OF WELL SITE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> REPERFORATE CURRENT FORMATION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SIDETRACK TO REPAIR WELL</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TEMPORARY ABANDON</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> TUBING REPAIR</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> VENT OR FLARE</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER DISPOSAL</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WATER SHUTOFF</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> SI TA STATUS EXTENSION</td> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> APD EXTENSION</td> </tr> <tr> <td style="vertical-align: top; padding: 2px;"><input type="checkbox"/> WILDCAT WELL DETERMINATION</td> <td style="vertical-align: top; padding: 2px;"><input checked="" type="checkbox"/> OTHER</td> <td style="vertical-align: top; padding: 2px;">OTHER: <input style="width: 100px;" type="text" value="Wellhead Repair"/></td> </tr> </table>		<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input checked="" type="checkbox"/> CASING REPAIR	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Wellhead Repair"/>
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<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION																														
<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input checked="" type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text" value="Wellhead Repair"/>																														
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. THE OPERATOR HAS CONCLUDED WELLHEAD/CASING REPAIRS ON THE SUBJECT WELL LOCATION. PLEASE SEE THE ATTACHED CHRONOLOGICAL HISTORY FOR DETAILS OF THE OPERATIONS.																																
Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY																																
NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II																														
SIGNATURE N/A	DATE 6/7/2011																															

US ROCKIES REGION
Operation Summary Report

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Operation Summary Report								
Well: NBU 1021-13A3CS BLUE			Spud Conductor: 11/2/2009			Spud Date: 11/12/2009		
Project: UTAH-UINTAH			Site: NBU 1021-13A PAD			Rig Name No: LEED 698/698		
Event: WELL WORK EXPENSE			Start Date: 5/24/2011			End Date: 5/27/2011		
Active Datum: DFE @0.00ft (above Mean Sea Level)			UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0					
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
5/24/2011	12:00 - 12:15	0.25	ALL	30	A	P		MOVE RIG F/ NBU 1021-13H4AS TO NBU 1021-13A3CS.
	12:15 - 12:30	0.25	ALL	48		P		HSM, REVIEW PINCH POINTS IN SCANNING TBG.
	12:30 - 13:00	0.50	ALL	30	A	P		MIRU.
	13:00 - 13:45	0.75	ALL	47	A	P		FCP. 130 PSI. FTP. 130 PSI. BLEW TBG DWN , TBG PLUGGED, ND WH. NU BOP'S, RU FLOOR & TBG EQUIPMENT, UNLAND TBG HANGER.
	13:45 - 18:00	4.25	ALL	45	A	P		RU SCAN TECH, POOH SCANNING 272 JTS. 2-3/8 L-80 TBG, FOUND 2 JTS. W/ BAD PINS, FOUND BUMPER SPRING & PLUNGER STUCK W/ SCALE IN JNT 272 @ 8577', RD SCAN TECH, PUT WELL ON SALES, SDFN.
5/25/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW SET CBP W/ WIRELINE.
	7:30 - 8:00	0.50	ALL	34	I	P		FCP. 130 PSI. BLEW CSG DWN, CONTROL CSG W/ 20 BBLS, RU CUTTERS WIRELINE SERVICES, RIH W/ 4-1/2 BAKER 10K CBP & SET @ 6871', POOH TOOLS,
	8:00 - 9:30	1.50	ALL	34	D	P		RU CMT BAILER, RIH & DUMP 4 SX CLASS "G" CMT ON TOP OF PLUG, POOH BAILER, RD CUTTERS WIRELINE SERVICES.
	9:30 - 9:45	0.25	ALL	33	D	P		FILL CSG & P.T. CBP TO 3000 PSI. HELD
	9:45 - 10:30	0.75	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S W/ CSG BOWL, RU PWR SWVL.
	10:30 - 11:00	0.50	ALL	31	B	P		PU INTERNAL CSG CUTTER & RIH CUT 4-1/2 CSG 3' F/ SURFACE, POOH, LD CUTTER CSG W/ MANDREL, LD PWR SWVL.
	11:00 - 14:00	3.00	ALL	31	B	P		PU 4-1/2 OVERSHOT, RIH LATCH FISH, MIRU CSG CREW & WIRELINE SERVICES & STRING SHOT CSG COLLAR @ 4', BACK-OFF 4' PUP, RD CUTTERS WIRELINE SERVICES POOH, RIH NEW 10' PUP JNT, TAG CSG TOP, THREAD INTO CSG & TORQUE CSG TO 7000 FT-LBS W/ 25 ROTATION, RD CSG CREW, RU PWR SWVL, PU INTERNAL CUTTER & RIH CUT 4-1/2 CSG @ 35', POOH LD CUTTER & CSG, RD PWR SWVL, PU & RIH W/ 4-1/2 10K EXTERNAL LOGAN CSG PATCH ON 4-1/2 P-110 CSG, LATCH FISH, PU 100,000# TENSION.
	14:00 - 15:10	1.17	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI FOR 30 MINS, LOST 50 PSI. IN 30 MINS, RD B&C QUICK TEST
	15:10 - 16:10	1.00	ALL	47	C	P		INSTALL C-21 SLIPS, LAND 4-1/2 CSG W/ 90,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG STUB, INSTALL FLANGE & CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS.
	16:10 - 17:00	0.83	ALL	30	F	P		NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT, SWI, SDFN.
5/26/2011	7:00 - 7:30	0.50	ALL	48		P		HSM, REVIEW D/O CMT & CBP.
	7:30 - 10:00	2.50	ALL	31	I	P		PU 3-7/8 MILL, BIT SUB, & RIH 215 JTS. 2-3/8 L-80 TBG, TAG CMT @ 6777'.
	10:00 - 10:15	0.25	ALL	47	A	P		NU PWR SWVL, INSTALL TSF.
	10:15 - 10:40	0.42	ALL	31	H	P		RU TECH FOAM, BROKE CIRC IN 25 MINS.
	10:40 - 11:30	0.83	ALL	44	A	P		D/O CMT F/ 6777' TO 6871 IN 12 MINS. D/O CBP @ 6871' IN 4 MINS, HAD 100 PSI. INCREASE, LD PWR SWVL, POOH TBG TO REMOVE TSF,

US ROCKIES REGION
Operation Summary Report

Well: NBU 1021-13A3CS BLUE	Spud Conductor: 11/2/2009	Spud Date: 11/12/2009
Project: UTAH-UINTAH	Site: NBU 1021-13A PAD	Rig Name No: LEED 698/698
Event: WELL WORK EXPENSE	Start Date: 5/24/2011	End Date: 5/27/2011
Active Datum: DFE @0.00ft (above Mean Sea Level) UWI: NE/NE/0/10/S/21/E/13/0/0/26/PM/N/682.00/E/0/1,314.00/0/0		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	11:30 - 18:00	6.50	ALL	31	I	P		RIH TBG TAG SCALE 6874', INSTALL TSF, RU PWR SWVL, BROKE CIRC IN 15 MINS, D/O F/ 6874 TO 6876' FELL THROUGH, LD PWR SWVL, POOH TBG TO REMOVE TSF, KILL TBG, RIH TBG TAG SCALE @ 7850', INSTALL TSF, RU PWR SWVL, BROKE CIRC IN 15 MINS, D/O SCALE F/ 7850' TO 7855' FELL THROUGH, RD PWR SWVL, POOH TBG TO REMOVE TSF, KILL TBG, RIH W/ 294 JTS. TBG TAG @ 9265' PBD, CIRC HOLE CLEAN, POOH LD 22 JTS. 2-3/8 L-80 TBG ON TRAILER, POOH S/B 272 JTS. 2-3/8 L-80 TBG, SWI, SDFN.
5/27/2011	8:00 - 8:30	0.50	ALL	48		P		HSM, REVIEW GERONIMO LINE.
	8:30 - 8:45	0.25	ALL	30	E	P		BLEW CSG DWN, CONTROL CSG 30 BBLS.
	8:45 - 9:40	0.92	ALL	31	I	P		PU HALF POBS, 1.875 XN RIH 128 JTS. 2-3/8 L-80 TBG EOT 4036'.
	9:40 - 10:35	0.92	ALL	47	C	P		CONTROL WELL W/ 10 BBLS, RU SWAB EQUIPMENT, RIH 1.9 BROACH TO 4036', POOH & LD SWAB EQUIPMENT,
	10:35 - 13:00	2.42	ALL	31	I	P		CONTINUE RIH 144 JTS. 2-3/8 L-80 TBG, LAND TBG, RU SWAB EQUIPMENT, RIH 1.9 BROACH TO 4540', POOH LD SWAB EQUIPMENT, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RDMO, MOVE RIG TO NBU 1021-13B3CS.
(TBG DETAIL)								
KB-----13' HANGER-----1.0' 272 JTS. 2-3/8 L-80 TBG @-----8576.90' HALF POBS W/ 1.875 XN-----2.20' EOT @-----8593.10' WLTR. 100 BBLS. TOP PERF @ 6921' BTM PERF @ 9189' PBD @ 9265' API # 43047503330000 PERFORMED CSG PATCH.								