

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

FORM 3

AMENDED REPORT
(highlight changes)

APPLICATION FOR PERMIT TO DRILL				5. MINERAL LEASE NO: ML-22792	6. SURFACE: State
1A. TYPE OF WORK: DRILL <input checked="" type="checkbox"/> REENTER <input type="checkbox"/> DEEPEN <input type="checkbox"/>				7. IF INDIAN, ALLOTTEE OR TRIBE NAME:	
B. TYPE OF WELL: OIL <input type="checkbox"/> GAS <input checked="" type="checkbox"/> OTHER _____ SINGLE ZONE <input type="checkbox"/> MULTIPLE ZONE <input checked="" type="checkbox"/>				8. UNIT or CA AGREEMENT NAME: UNIT #891008900A	
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE L.P.				9. WELL NAME and NUMBER: NBU 1021-19N	
3. ADDRESS OF OPERATOR: 1368 S 1200 E CITY VERNAL STATE UT ZIP 84078			PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES	
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 462'FSL, 1845'FWL <i>619899X 39.927188</i> AT PROPOSED PRODUCING ZONE: <i>4420408Y 109.596918</i>				11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E	
14. DISTANCE IN MILES AND DIRECTION FROM NEAREST TOWN OR POST OFFICE: 14.5 MILES SOUTH OF OURAY, UTAH				12. COUNTY: UINTAH	13. STATE: UTAH
15. DISTANCE TO NEAREST PROPERTY OR LEASE LINE (FEET) 462'		16. NUMBER OF ACRES IN LEASE: 643.5		17. NUMBER OF ACRES ASSIGNED TO THIS WELL: 40.00	
18. DISTANCE TO NEAREST WELL (DRILLING, COMPLETED, OR APPLIED FOR) ON THIS LEASE (FEET) REFER TO TOPO C		19. PROPOSED DEPTH: 9,510		20. BOND DESCRIPTION: RLB0005237	
21. ELEVATIONS (SHOW WHETHER DF, RT, GR, ETC.): 5212'GL		22. APPROXIMATE DATE WORK WILL START:		23. ESTIMATED DURATION:	

24. **PROPOSED CASING AND CEMENTING PROGRAM**

SIZE OF HOLE	CASING SIZE, GRADE, AND WEIGHT PER FOOT			SETTING DEPTH	CEMENT TYPE, QUANTITY, YIELD, AND SLURRY WEIGHT		
12 1/4"	9 5/8	H-40	32.3#	1,900	265 SX CLASS G	1.18 YIELD	15.6 PPG
7 7/8"	4 1/2	I-80	11.6#	9,510	2010 SX 50/50 POZ	1.31 YIELD	14.3 PPG

25. **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 checked="" type="checkbox"/> EVIDENCE OF DIVISION OF WATER RIGHTS APPROVAL FOR USE OF WATER	<input type="checkbox"/> FORM 5, IF OPERATOR IS PERSON OR COMPANY OTHER THAN THE LEASE OWNER

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST

SIGNATURE *[Signature]* DATE 1/23/2007

(This space for State use only)

API NUMBER ASSIGNED: 43-047-39008

Approved by the
Utah Division of
Oil, Gas and Mining

APPROVAL:
Date: 02-26-07
By: *[Signature]*

RECEIVED
FEB 02 2007

DIV. OF OIL, GAS & MINING

T10S, R21E, S.L.B.&M.

Kerr McGee Oil & Gas Onshore LP

Well location, NBU #1021-19N, located as shown in the SE 1/4 SW 1/4 of Section 19, T10S, R21E, S.L.B.&M. Uintah County, Utah.

BASIS OF ELEVATION

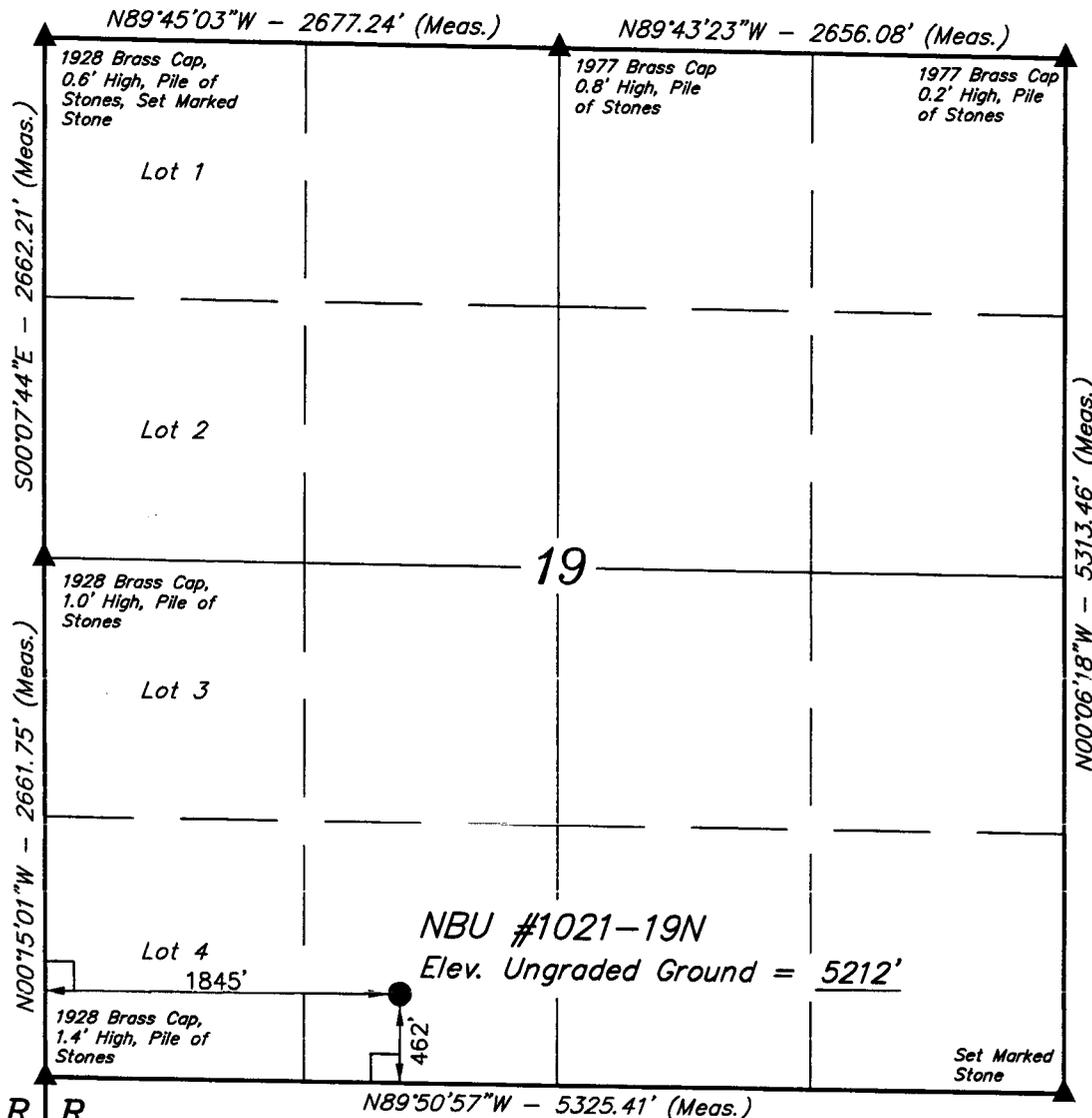
TWO WATER TRIANGULATION STATION LOCATED IN THE NW 1/4 OF SECTION 1, T10S, R21E, S.L.B.&M. TAKEN FROM THE BIG PACK MTN NE, QUADRANGLE, UTAH, UTAH COUNTY, 7.5 MINUTE QUAD. (TOPOGRAPHIC MAP) PUBLISHED BY THE UNITED STATES DEPARTMENT OF THE INTERIOR, GEOLOGICAL SURVEY. SAID ELEVATION IS MARKED AS BEING 5238 FEET.



SCALE

CERTIFICATE

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



R R
20 21
E E

BASIS OF BEARINGS

BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

(NAD 83)
 LATITUDE = 39°55'37.61" (39.927114)
 LONGITUDE = 109°35'51.38" (109.597606)
 (NAD 27)
 LATITUDE = 39°55'37.74" (39.927150)
 LONGITUDE = 109°35'48.90" (109.596917)

LEGEND:

- └─┘ = 90° SYMBOL
- = PROPOSED WELL HEAD.
- ▲ = SECTION CORNERS LOCATED.

UNTAH ENGINEERING & LAND SURVEYING

85 SOUTH 200 EAST - VERNAL, UTAH 84078

(435) 789-1017

SCALE 1" = 1000'	DATE SURVEYED: 11-06-06	DATE DRAWN: 11-06-06
PARTY D.K. T.H. S.L.	REFERENCES G.L.O. PLAT	
WEATHER COOL	FILE Kerr McGee Oil & Gas Onshore LP	

NBU 1021-19N
SE/SW SEC. 19, T10S, R21E
UINTAH COUNTY, UTAH
ML-22792

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. **Estimated Tops of Important Geologic Markers:**

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	1101'
Top of Birds Nest Water	1334'
Mahogany	1887'
Wasatch	4332'
Mesaverde	7318'
MVU2	8307'
MVL1	8846'
TD	9510'

2. **Estimated Depths of Anticipated Water, Oil, Gas, or Mineral Formations:**

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	1101'
	Top of Birds Nest Water	1334'
	Mahogany	1887'
Gas	Wasatch	4332'
Gas	Mesaverde	7318'
Gas	MVU2	8307'
Gas	MVL1	8846'
Water	N/A	
Other Minerals	N/A	

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 9510' TD, approximately equals 5896 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3804 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.

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP
DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 1900	32.30	H-40	STC	0.63*****	1.54	4.73
PRODUCTION	4-1/2"	0 to 9510	11.60	I-80	LTC	7780	6350	201000
						2.16	1.12	2.09

- 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 - (.22 psi/ft-partial evac gradient x TD)
 (Burst Assumptions: TD = 11.5 ppg) .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 3595 psi

***** Burst SF is low but csg is much stronger than formation at 2000'. EMW @ 2000' for 2270# is 21.8 ppg or 1.13 psi/ft

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
Option 1	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite +.25 pps Flocele + 3% salt BWOC	170	35%	11.00	3.82
Option 2	TAIL	500	Premium cmt + 2% CaCl + .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	3,830'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	420	60%	11.00	3.38
	TAIL	5,680'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1590	60%	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. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

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. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.
 Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____ **DATE:** _____
 Brad Laney
DRILLING SUPERINTENDENT: _____ **DATE:** _____
 Randy Bayne NBU1021-19N DHD.xls

**NBU 1021-19N
SE/SW SEC. 19, T10S, R21E
Uintah County, UT
ML-22792**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

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 0.2 +/- miles of new access road is proposed. Refer to Topo Map B for the location of the proposed access road.

A 30' of rights-of-way will be required for approximately 0.4 +/- miles of an existing 2-track road needs to be upgraded from Sec. 25, T10S, R20E (Lease #UTU-06774) then cross onto State Lands in Sec. 30, T10S, R21E, then into Sec. 19, T10S, R21E. Refer to 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 Carlsbad Canyon, standard color number 2.5Y 6/2.

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

Approximately 1095' +/- of 4" pipeline is proposed from the location to a tie-in point. Refer to Topo Map D.

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, Sec. 5, T9S, R22E, NBU #159, Sec. 35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E.

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 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 will be submitted when report becomes available.

This location is not within 460' from the boundary of the Natural Buttes Unit, nor is it within 460' of any non-committed tract lying within the boundaries of the Unit.

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

Sheila Upchego
Senior Land Admin Specialist
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East.
Vernal, UT 84078
(435) 781-7024

Randy Bayne
Drilling Manager
Kerr-McGee Oil & Gas Onshore LP
1368 South 1200 East
Vernal, UT 84078
(435)781-7018

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 #RLB0005237.

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 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 by the Operator, its contractors, and subcontractors in conformity with this plan and the terms and conditions under which it is approved.


Sheila Upchego

1/23/2007
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N

SECTION 19, T10S, R21E, S.L.B.&M.

PROCEED IN A WESTERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 14.0 MILES TO THE JUNCTION OF STATE HIGHWAY 88; TURN LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 13.9 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING TWO-TRACK ROAD TO THE NORTHEAST; TURN LEFT AND PROCEED IN A NORTHEASTERLY DIRECTION APPROXIMATELY 0.4 MILES TO THE BEGINNING OF THE PROPOSED ACCESS TO THE SOUTHEAST; FOLLOW ROAD FLAGS IN A SOUTHEASTELRY, THEN EASTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 45.5 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N

LOCATED IN UINTAH COUNTY, UTAH
SECTION 19, T10S, R21E, S.L.B.&M.

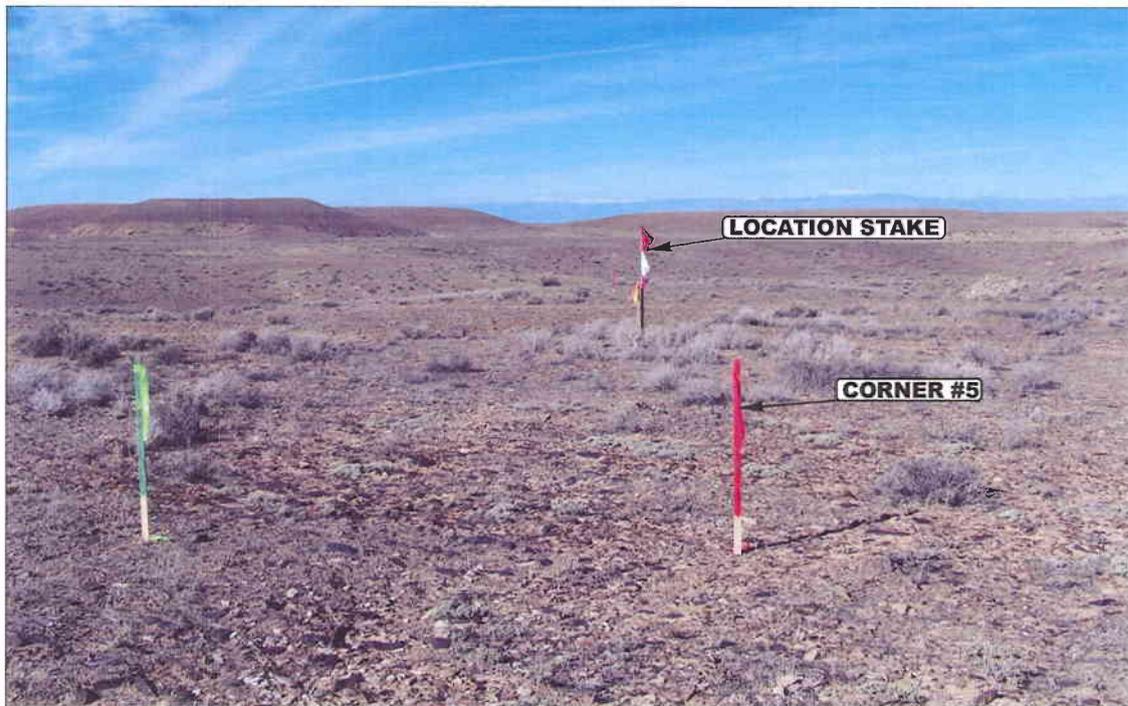


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: SOUTHEASTERLY



- Since 1964 -

Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS

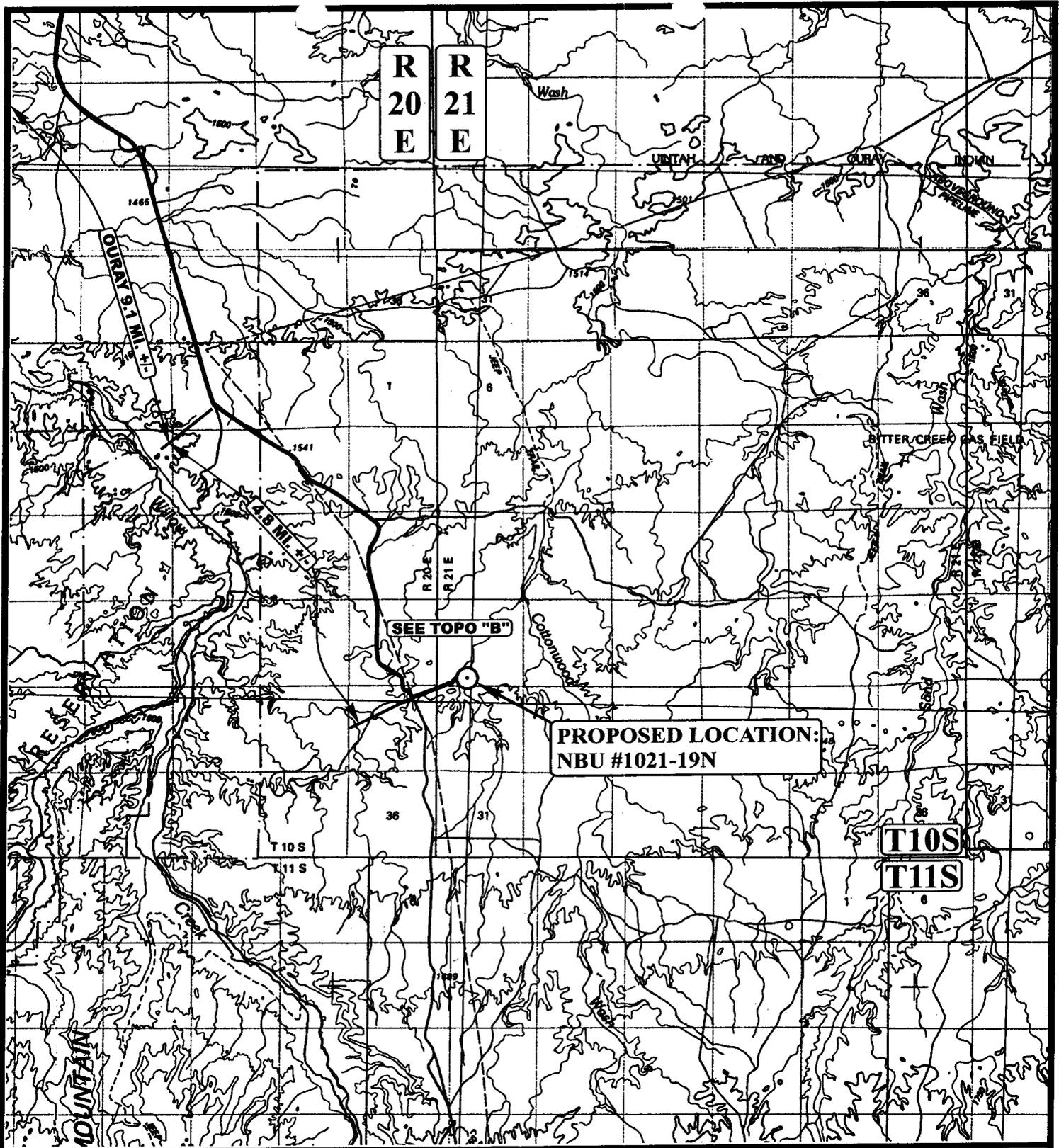
11 07 06
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: C.P.

REVISED: 00-00-00



LEGEND:

⊙ PROPOSED LOCATION



Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N

SECTION 19, T10S, R21E, S.L.B.&M.

462' FSL 1845' FWL



Utah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC
MAP

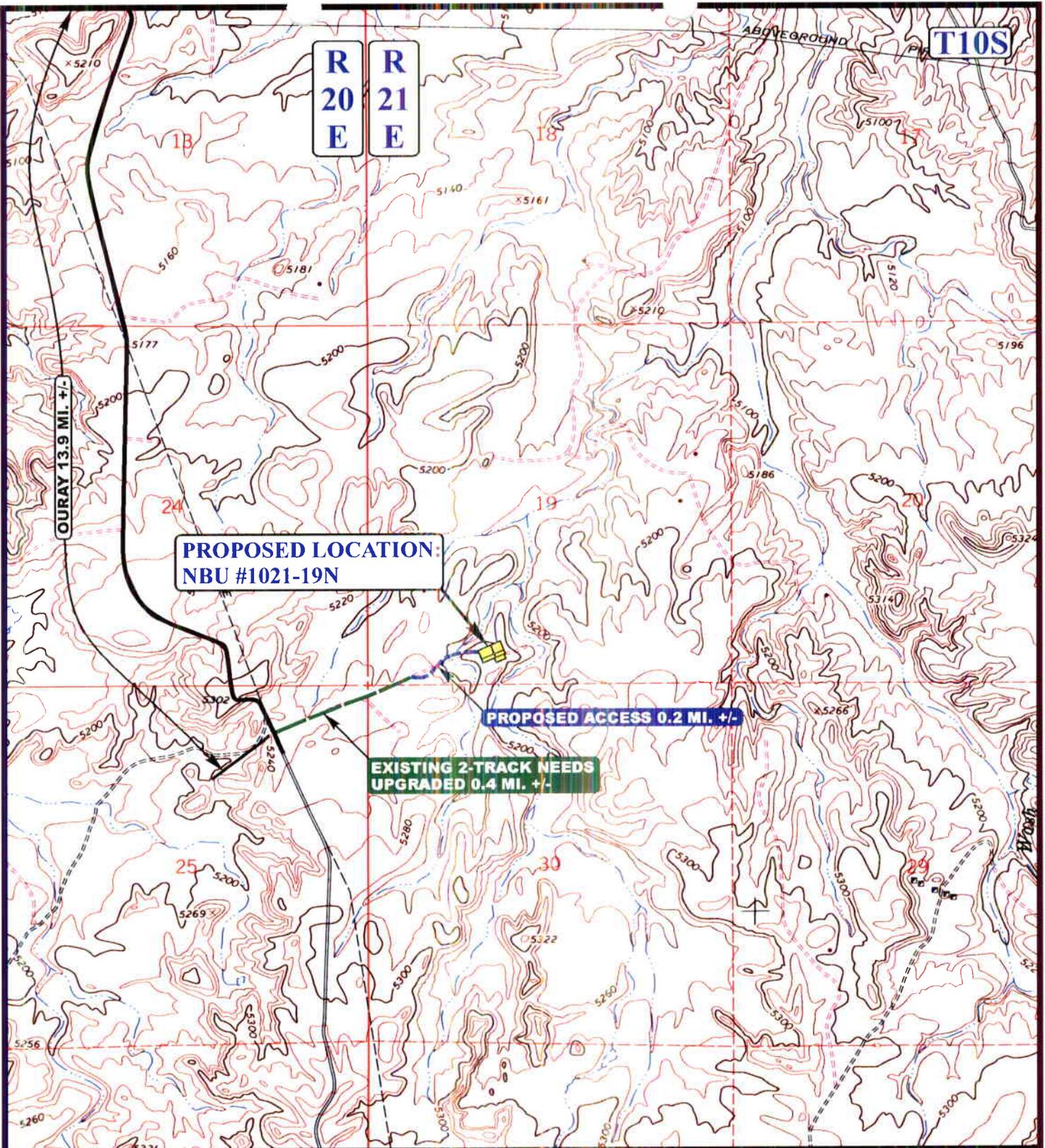
11 07 06
 MONTH DAY YEAR

SCALE: 1:100,000

DRAWN BY: C.P.

REVISED: 00-00-00





LEGEND:

-  EXISTING ROAD
-  PROPOSED ACCESS ROAD
-  EXISTING 2-TRACK NEEDS UPGRADED

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N
 SECTION 19, T10S, R21E, S.L.B.&M.
 462' FSL 1845' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
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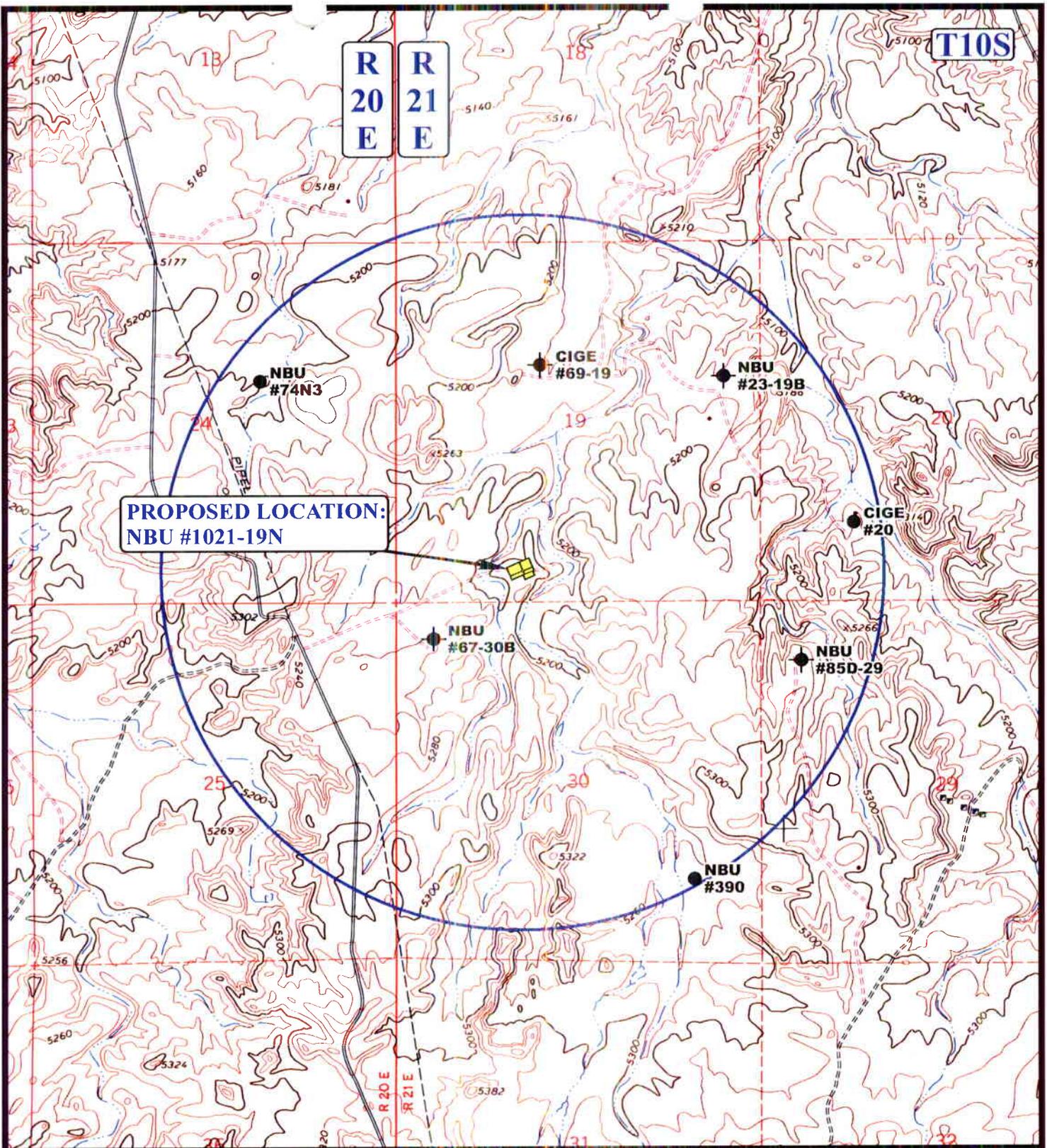


TOPOGRAPHIC
 MAP

11 07 06
 MONTH DAY YEAR

SCALE: 1" = 2000' DRAWN BY: C.P. REVISED: 00-00-00





**PROPOSED LOCATION:
NBU #1021-19N**

LEGEND:

- ⊗ DISPOSAL WELLS
- PRODUCING WELLS
- SHUT IN WELLS
- ⊗ WATER WELLS
- ABANDONED WELLS
- TEMPORARILY ABANDONED

Kerr-McGee Oil & Gas Onshore LP

**NBU #1021-19N
SECTION 19, T10S, R21E, S.L.B.&M.
462' FSL 1845' FWL**



Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813



**TOPOGRAPHIC
MAP**

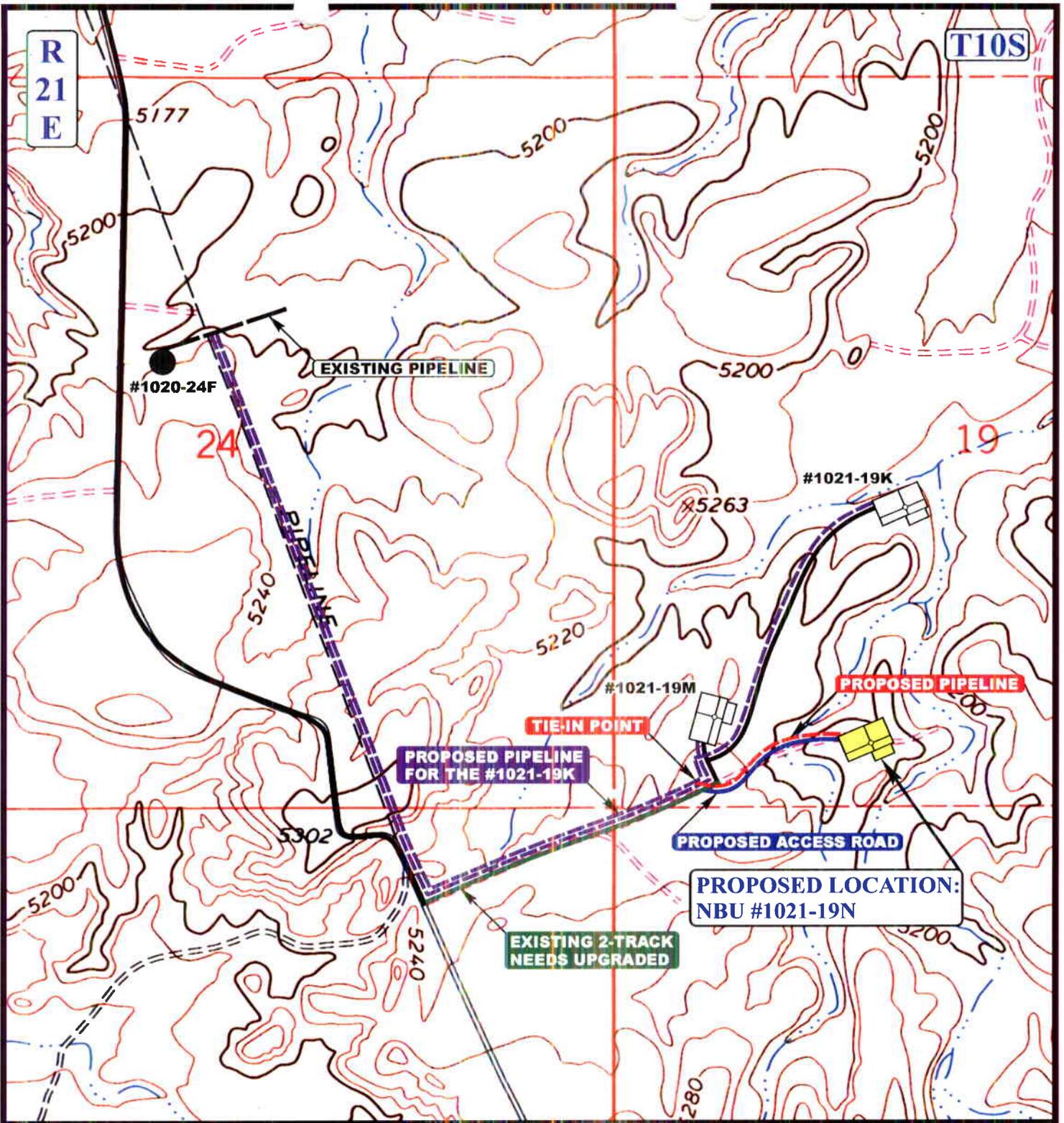
11 07 06
MONTH DAY YEAR

SCALE: 1" = 2000'

DRAWN BY: C.P.

REVISED: 00-00-00





APPROXIMATE TOTAL PIPELINE DISTANCE = 1,095' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING 2-TRACK NEEDS UPGRADED
- EXISTING PIPELINE
- - - - PROPOSED PIPELINE
- - - - PROPOSED PIPELINE (SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N
SECTION 19, T10S, R21E, S.L.B.&M.
462' FSL 1845' FWL



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 85 South 200 East Vernal, Utah 84078
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TOPOGRAPHIC MAP **11 07 06**
MONTH DAY YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00



Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH

SECTION 19, T10S, R21E, S.L.B.&M.

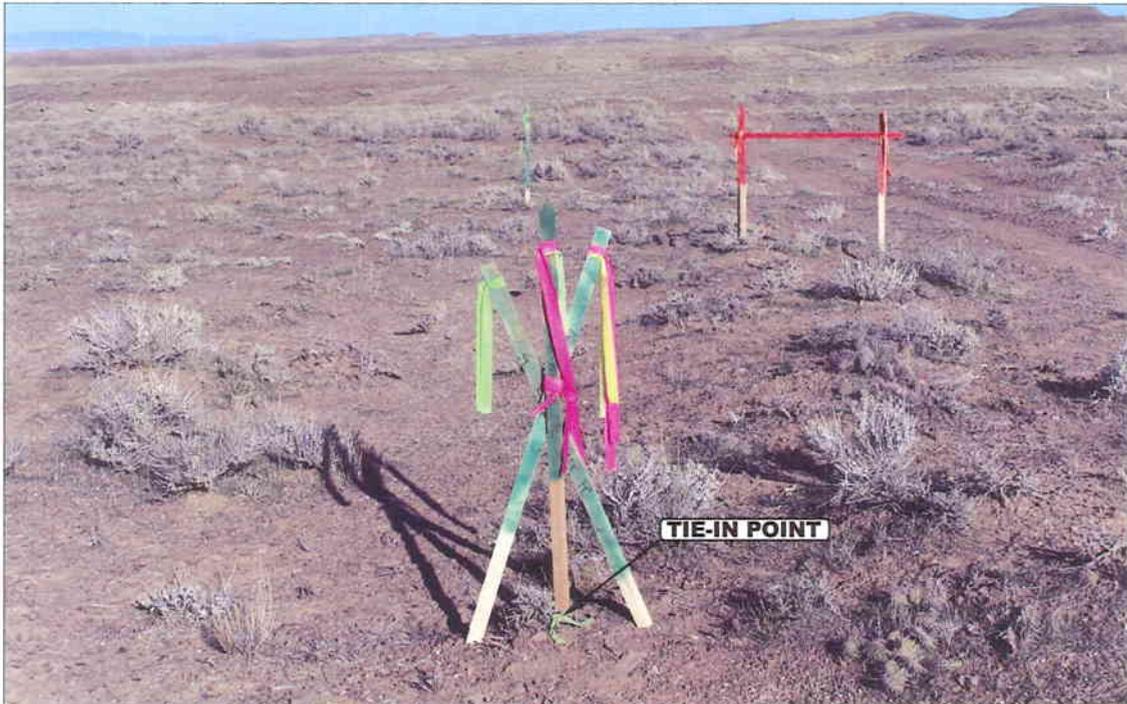


PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY



PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: NORTHEASTERLY



- Since 1964 -

UELS Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS

11 07 06
MONTH DAY YEAR

PHOTO

TAKEN BY: D.K.

DRAWN BY: C.P.

REVISED: 00-00-00

Kerr-McGee Oil & Gas Onshore LP

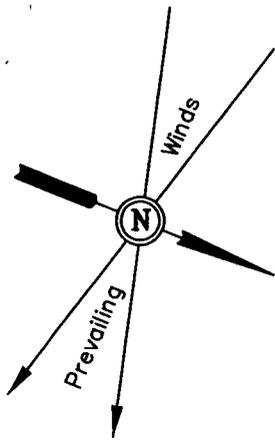
FIGURE #1

LOCATION LAYOUT FOR

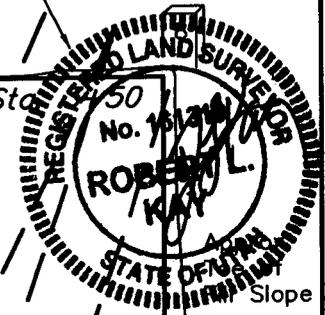
NBU #1021-19N
SECTION 19, T10S, R21E, S.L.B.&M.
462' FSL 1845' FWL

Proposed Access Road

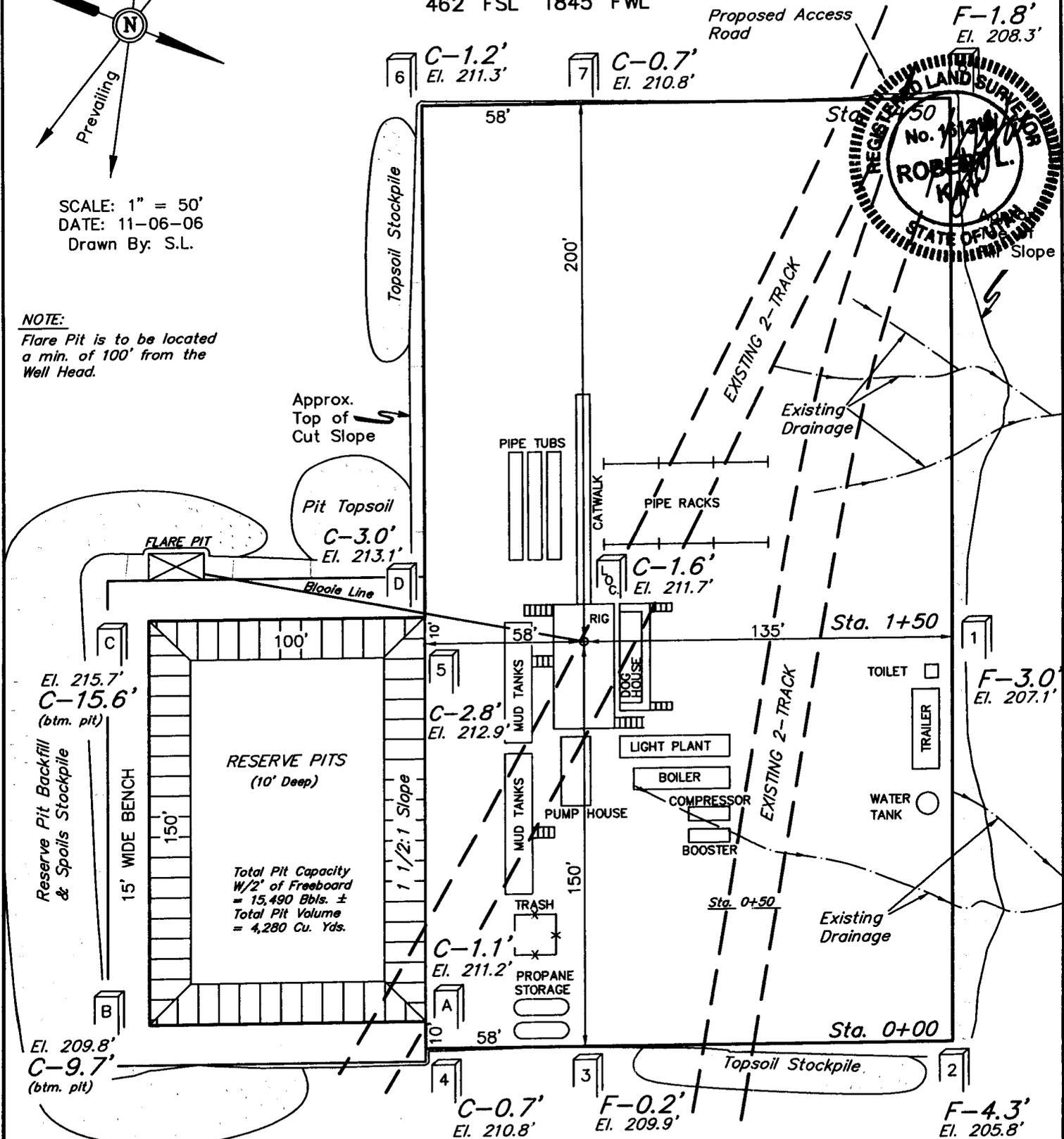
F-1.8'
El. 208.3'



SCALE: 1" = 50'
DATE: 11-06-06
Drawn By: S.L.



NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5211.7'
FINISHED GRADE ELEV. AT LOC. STAKE = 5210.1'

Kerr-McGee Oil & Gas Onshore LP

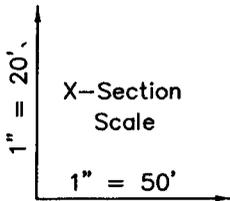
FIGURE #2

TYPICAL CROSS SECTIONS FOR

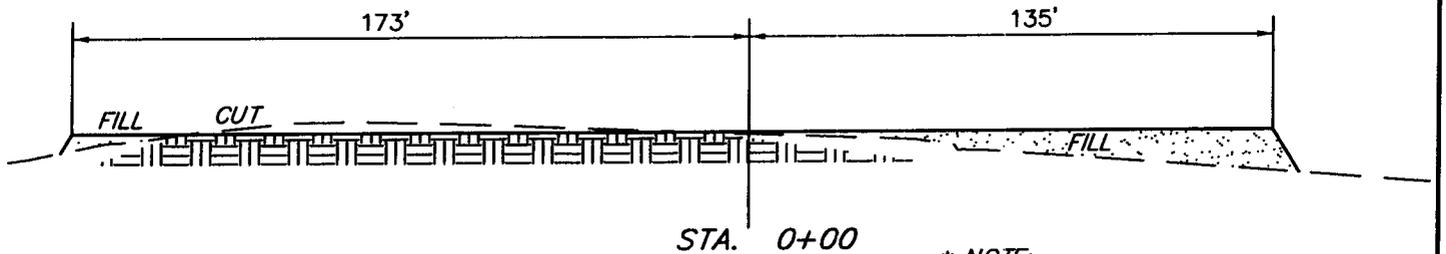
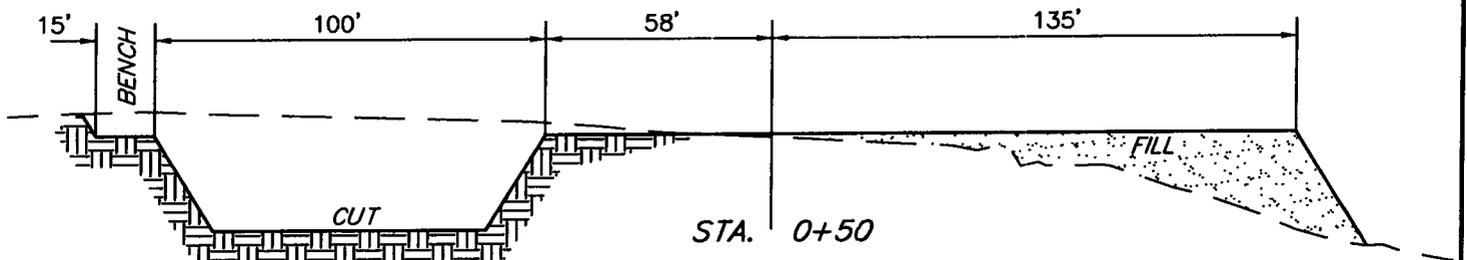
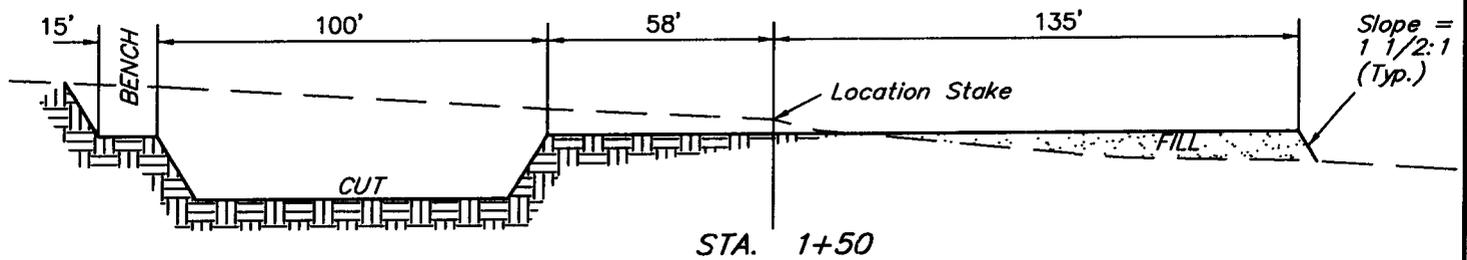
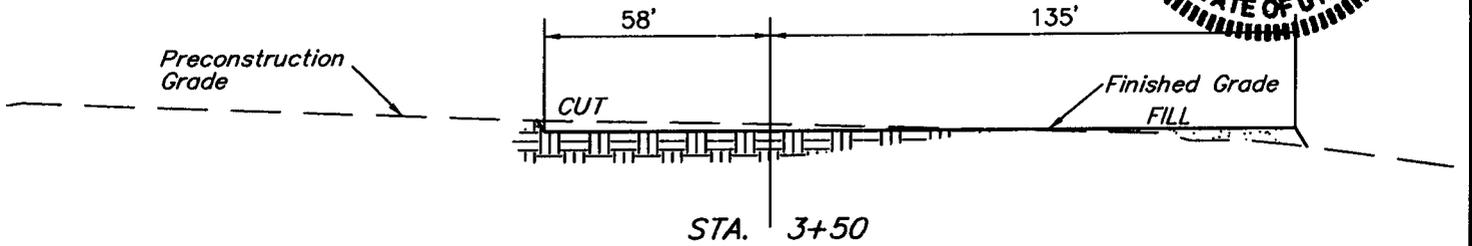
NBU #1021-19N

SECTION 19, T10S, R21E, S.L.B.&M.

462' FSL 1845' FWL



DATE: 11-06-06
Drawn By: S.L.



* NOTE:
FILL QUANTITY INCLUDES
5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,810 Cu. Yds.
Remaining Location	= 7,000 Cu. Yds.
TOTAL CUT	= 8,810 CU.YDS.
FILL	= 4,860 CU.YDS.

EXCESS MATERIAL	= 3,950 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,950 Cu. Yds.
EXCESS UNBALANCE (After Interim Rehabilitation)	= 0 Cu. Yds.

UINTAH ENGINEERING & LAND SURVEYING
85 So. 200 East * Vernal, Utah 84078 * (435) 789-1017

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 02/02/2007

API NO. ASSIGNED: 43-047-39008

WELL NAME: NBU 1021-19N
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

SESW 19 100S 210E
 SURFACE: 0462 FSL 1845 FWL
 BOTTOM: 0462 FSL 1845 FWL
 COUNTY: UINTAH
 LATITUDE: 39.92719 LONGITUDE: -109.5969
 UTM SURF EASTINGS: 619899 NORTHINGS: 4420408
 FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering	DWD	2/27/07
Geology		
Surface		

LEASE TYPE: 3 - State
 LEASE NUMBER: ML-22792
 SURFACE OWNER: 3 - State

PROPOSED FORMATION: WSMVD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[] Ind[] Sta[] Fee[]
(No. 22013542)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

LOCATION AND SITING:

- R649-2-3.
- Unit: NATURAL BUTTES
- R649-3-2. General
Siting: 460' From Qtr/Qtr & 920' Between Wells
- R649-3-3. Exception
- Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-1999
Siting: 460' fr ubdr of 9' unconv. m. mool
- R649-3-11. Directional Drill

COMMENTS:

Needs Permit (02-13-07)

STIPULATIONS:

- 1- STATEMENT OF BASIS
- 2- OIL SHALE
- 3- Surface Esg Cont Strip

Application for Permit to Drill

Statement of Basis

Utah Division of Oil, Gas and Mining

2/21/2007

Page 1

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
234	43-047-39008-00-00		GW	S	No
Operator	KERR-MCGEE OIL & GAS ONSHORE, LP		Surface Owner-APD		
Well Name	NBU 1021-19N		Unit		
Field	UNDESIGNATED		Type of Work		
Location	SESW 19 10S 21E S 0 FL 0 FL GPS Coord (UTM) 619899E 4420408N				

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 5,200'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 19. 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

2/13/2007
Date / Time

Surface Statement of Basis

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

This location is approximately 15 miles southeast of Ouray, Ut. and is accessed by the Seep Ridge Road then by existing or planned oil field development roads to within 0.6 miles of the site, which will require up-grading and new construction.

The proposed location is on a flat topped ridge which breaks off into three 3 draws which will all be filled with pad construction. A deep draw is located to the east of the location, which joins with a draw to the west and runs to the northeast.

Both the surface and minerals are owned by SITLA. Jim Davis represented SITLA at the pre-site investigation. Mr. Davis had no concerns pertaining to this location. The selected location appears to be the best site for drilling and operating a well in the immediate area.

Floyd Bartlett
Onsite Evaluator

2/13/2007
Date / Time

Conditions of Approval / Application for Permit to Drill

Category	Condition
Pits	A synthetic liner with a minimum thickness of 20 mils with a felt subliner shall be properly installed and maintained in the reserve pit.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 1021-19N
API Number 43-047-39008-0 **APD No** 234 **Field/Unit** UNDESIGNATED
Location: 1/4,1/4 SESW **Sec** 19 **Tw** 10S **Rng** 21E 0 FL 0 FL
GPS Coord (UTM) 619903 4420402 **Surface Owner**

Participants

Floyd Bartlett and David Hackford (DOGM), Jim Davis (SITLA), Carroll Estes, Tony Kznick, and Clay Einerson (Kerr McGee), David Kay (Uintah Engineering and Land Surveying), and Ben Williams (UDWR)

Regional/Local Setting & Topography

The general area is within the Cottonwood Wash Drainage. The area is characterized by rolling hills and benches, which are frequently intersected by somewhat gentle draws, which flow into Cottonwood Wash. The draws are occasionally rimmed with steep side hills, which have exposed sand stone bedrock cliffs along the rims. Cottonwood Wash is an ephemeral drainage, which drains northerly approximately 11 miles to the White River. No seeps, springs or streams exist in the area.

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Surface Use Plan

Current Surface Use

Grazing
Recreational
Wildlife Habitat

New Road

Miles	Well Pad	Src Const Material	Surface Formation
0.6	Width 308 Length 350	Onsite	UNTA

Ancillary Facilities N

Waste Management Plan Adequate? N

Environmental Parameters

Affected Floodplains and/or Wetland N

Flora / Fauna

Snow covered the vegetation on the area. Identifiable vegetation consisted of shadscale, greasewood, and broom snakeweed. Vegetation is sparse.

Antelope, cattle, rabbits, coyotes, and small mammals, birds and raptors.

Soil Type and Characteristics
moderately deep gravelly loam.

Erosion Issues N

Sedimentation Issues N

Site Stability Issues N

Drainage Diversion Required N

Berm Required? N

Erosion Sedimentation Control Required? N

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

Reserve Pit

Site-Specific Factors		Site Ranking
Distance to Groundwater (feet)	>200	0
Distance to Surface Water (feet)	>1000	0
Dist. Nearest Municipal Well (ft)	>5280	0
Distance to Other Wells (feet)	300 to 1320	10
Native Soil Type	Mod permeability	10
Fluid Type	Fresh Water	5
Drill Cuttings	Normal Rock	0
Annual Precipitation (inches)	<10	0
Affected Populations	<10	0
Presence Nearby Utility Conduits	Not Present	0
	Final Score	25
		1 Sensitivity Level

Characteristics / Requirements

The proposed reserve pit is 70' x 150' x 10' deep located in a cut on the south east corner of the location. A 20 mil liner with a felt sub-liner is planned by Kerr McGee.

Closed Loop Mud Required? N **Liner Required?** Y **Liner Thickness** 20 **Pit Underlayment Required?** Y

Other Observations / Comments

Ben Williams representing the UDWR stated the area is classified as yearlong critical habitat for antelope. He stated that the lack of water not forage is the limiting factor affecting the herd in the area. He recommended no restrictions for antelope. No other wildlife is expected to be significantly affected. He gave Jim Davis of SITLA and Carroll Estes of Kerr McGee a copy of his wildlife evaluation and a UDWR recommended seed mix to be used when revegetating the location.

The area was covered with snow. ATV's were used to access the site.

Floyd Bartlett
Evaluator

2/13/2007
Date / Time

Casing Schematic

Surface

1281
281

Uinta

BHP $0.052(9510)11.5 = 5687 \text{ psi}$
anticipate - 5896 psi

Gas $.12(9510) = 1141$
 $5687 - 1141 = 4546 \text{ psi, MASP}$

BOPE SM ✓

9-5/8"
MW 8.4
Frac 19.3

Burst 2270
7070 1589

Max P @ surf. slac
 $.22(7610) = 1674$
 $5687 - 1674 = 4013 \text{ psi}$

test to 1589 psi ✓

Slip surf. cont. ✓

✓ Adequate QWD
2/27/07

4-1/2"
MW 11.5

Production
9510. MD

TOC @ 0.
901' TOC w/0% w/o
1101' Green River
1334' Birds Nest Water
TOC @ 1407.
Option 1 shown - tap out
1887' Mahogany ✓ o.k.
Surface
1900. MD

4332' Wasatch

5200 ± BMSW

✓

7318' Mesaverde

8307' MVU2

8846' MVL1

Well name:

2007-02 Kerr McGee NBU 1021-19N

Operator: **Kerr McGee Oil & Gas Onshore L.P.**

String type: **Surface**

Project ID:
43-047-39008

Location: **Uintah County, Utah**

Design parameters:

Collapse

Mud weight: 8.400 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: 75 °F
Bottom hole temperature: 102 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: 1,407 ft

Burst

Max anticipated surface pressure: 1,672 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 1,900 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: 1.50 (B)

Tension is based on buoyed weight.
Neutral point: 1,666 ft

Non-directional string.

Re subsequent strings:

Next setting depth: 9,510 ft
Next mud weight: 11,500 ppg
Next setting BHP: 5,681 psi
Fracture mud wt: 19,250 ppg
Fracture depth: 1,900 ft
Injection pressure: 1,900 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)	Internal Capacity (ft³)
1	1900	9.625	32.30	H-40	ST&C	1900	1900	8.876	839.5
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	829	1370	1.653	1900	2270	1.19	54	254	4.72 J

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

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

Date: February 22, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 1900 ft, a mud weight of 8.4 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.

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

Well name:	2007-02 Kerr McGee NBU 1021-19N	
Operator:	Kerr McGee Oil & Gas Onshore L.P.	
String type:	Production	Project ID: 43-047-39008
Location:	Uintah County, Utah	

Design parameters:

Collapse

Mud weight: 11.500 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: 75 °F
Bottom hole temperature: 208 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,500 ft

Cement top: Surface

Burst

Max anticipated surface pressure: 3,589 psi
Internal gradient: 0.220 psi/ft
Calculated BHP 5,681 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: 1.50 (B)

Non-directional string.

Tension is based on buoyed weight.
Neutral point: 7,875 ft

Run Seq	Segment Length (ft)	Size (in)	Nominal Weight (lbs/ft)	Grade	End Finish	True Vert Depth (ft)	Measured Depth (ft)	Drift Diameter (in)	Internal Capacity (ft³)
1	9510	4.5	11.60	I-80	LT&C	9510	9510	3.875	829.9
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	5681	6360	1.119	5681	7780	1.37	91	212	2.32 J

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

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

Date: February 22, 2007
Salt Lake City, Utah

Remarks:

Collapse is based on a vertical depth of 9510 ft, a mud weight of 11.5 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.

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

From: Ed Bonner
To: Mason, Diana
Date: 2/27/2007 8:48 AM
Subject: Well Clearance

CC: Davis, Jim; Garrison, LaVonne; Hill, Brad; Hunt, Gil
The following wells have been given cultural resources clearance by the Trust Lands Cultural Resources Group:

Kerr McGee Oil & Gas Onshore LP
NBU 1021-19C (API 43 047 39004)
NBU 1021-19D (API 43 047 39005)
NBU 1021-19E (API 43 047 39006)
NBU 1021-19K (API 43 047 39007)
NBU 1021-19N (API 43 047 39008)
NBU 1022-18A (API 43 047 39030)

If you have any questions regarding this matter please give me a call.

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)

February 7, 2007

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2007 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 2007 within the Natural Buttes Unit, Uintah County, Utah.

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

(Proposed PZ Wasatch/MesaVerde)

43-047-39004	NBU 1021-19C	Sec. 19 T. 10S R. 21E 0620 FNL 1904 FWL
43-047-39005	NBU 1021-19D	Sec. 19 T. 10S R. 21E 0637 FNL 0755 FWL
43-047-39006	NBU 1021-19E	Sec. 19 T. 10S R. 21E 2146 FNL 0879 FWL
43-047-39007	NBU 1021-19K	Sec. 19 T. 10S R. 21E 2181 FSL 2092 FWL
43-047-39008	NBU 1021-19N	Sec. 19 T. 10S R. 21E 0462 FSL 1845 FWL
43-047-39009	NBU 1021-29L	Sec. 29 T. 10S R. 21E 1398 FSL 0190 FWL
43-047-39010	NBU 1021-29O	Sec. 29 T. 10S R. 21E 0615 FSL 2115 FEL
43-047-39011	NBU 1021-29N	Sec. 29 T. 10S R. 21E 0250 FSL 1764 FWL
43-047-39012	NBU 1021-29J	Sec. 29 T. 10S R. 21E 1532 FSL 2192 FEL
43-047-39013	NBU 1021-29K	Sec. 29 T. 10S R. 21E 1804 FSL 2143 FWL
43-047-39014	NBU 1021-29I	Sec. 29 T. 10S R. 21E 2060 FSL 0962 FEL
43-047-39015	NBU 1021-29G	Sec. 29 T. 10S R. 21E 2090 FNL 1960 FEL
43-047-39016	NBU 1021-29F	Sec. 29 T. 10S R. 21E 1718 FNL 1529 FWL
43-047-39017	NBU 1021-29E	Sec. 29 T. 10S R. 21E 2635 FNL 1010 FWL
43-047-39018	NBU 1021-29C	Sec. 29 T. 10S R. 21E 0476 FNL 2501 FWL
43-047-39019	NBU 1021-29A	Sec. 29 T. 10S R. 21E 0170 FNL 0627 FEL
43-047-39020	NBU 1021-30I	Sec. 30 T. 10S R. 21E 2131 FSL 0387 FEL
43-047-39021	NBU 1021-30J	Sec. 30 T. 10S R. 21E 1901 FSL 1827 FEL
43-047-39022	NBU 1021-30K	Sec. 30 T. 10S R. 21E 1398 FSL 2686 FWL
43-047-39023	NBU 1021-30L	Sec. 30 T. 10S R. 21E 1602 FSL 0980 FWL
43-047-39024	NBU 1021-30M	Sec. 30 T. 10S R. 21E 0612 FSL 0462 FWL

Page 2

43-047-39025 NBU 1021-30N Sec. 30 T. 10S R. 21E 0942 FSL 1876 FWL
43-047-39026 NBU 1021-32A Sec. 32 T. 10S R. 21E 0646 FNL 0955 FEL
43-047-39027 NBU 1021-32B Sec. 32 T. 10S R. 21E 0837 FNL 2117 FEL
43-047-39028 NBU 1021-32C Sec. 32 T. 10S R. 21E 0664 FNL 1840 FWL
43-047-39029 NBU 1021-32F Sec. 32 T. 10S R. 21E 1909 FNL 2165 FWL
43-047-39001 NBU 1021-01G Sec. 01 T. 10S R. 21E 2660 FSL 1765 FEL
43-047-39002 NBU 1021-01O Sec. 01 T. 10S R. 21E 0245 FSL 2619 FEL
43-047-39003 NBU 1021-01P Sec. 01 T. 10S R. 21E 0888 FSL 1309 FEL
43-047-39030 NBU 1022-18A Sec. 18 T. 10S R. 22E 1007 FNL 0512 FEL
43-047-39031 NBU 1022-24I Sec. 24 T. 10S R. 22E 2045 FSL 1166 FEL
43-047-39032 NBU 1022-25B Sec. 25 T. 10S R. 22E 0403 FNL 1971 FEL
43-047-39033 NBU 1022-25H Sec. 25 T. 10S R. 22E 2604 FNL 0825 FEL

Our records indicate the NBU 1022-25H is closer than 460 feet from the Natural Buttes Unit boundary (approximately 36 feet).

We have no objections to permitting the wells so long as the unit operator receives an exception to the locating and siting requirements of the State of Utah (R649-3-2).

/s/ Michael L. Coulthard

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

MCoulthard:mc:2-7-07



State of Utah

**Department of
Natural Resources**

MICHAEL R. STYLER
Executive Director

**Division of
Oil, Gas & Mining**

JOHN R. BAZA
Division Director

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

February 28, 2007

Kerr-McGee Oil & Gas Onshore LP
1368 S 1200 E
Vernal, UT 84078

Re: Natural Buttes Unit 1021-19N Well, 462' FSL, 1845' FWL, SE SW, Sec. 19,
T. 10 South, R. 21 East, Uintah County, Utah

Gentlemen:

Pursuant to the provisions and requirements of Utah Code Ann. § 40-6-1 *et seq.*, Utah Administrative Code R649-3-1 *et seq.*, and the attached Conditions of Approval, approval to drill the referenced well is granted.

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. The API identification number assigned to this well is 43-047-39008.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor (via e-mail)
SITLA
Bureau of Land Management, Vernal District Office

Operator: Kerr-McGee Oil & Gas Onshore LP
Well Name & Number Natural Buttes Unit 1021-19N
API Number: 43-047-39008
Lease: ML-22792

Location: SE SW **Sec.** 19 **T.** 10 South **R.** 21 East

Conditions of Approval

1. 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.

2. 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) 733-0983 home
- Carol Daniels at: (801) 538-5284 office
- Dustin Doucet at: (801) 538-5281 office
 (801) 733-0983 home

3. 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.

4. Compliance with the State of Utah Antiquities Act forbids disturbance of archeological, historical, or paleontological remains. Should archeological, historical or paleontological remains be encountered during your operations, you are required to immediately suspend all operations and immediately inform the Trust Lands Administration and the Division of State History of the discovery of such remains.
5. Compliance with the Conditions of Approval/Application for Permit to Drill outlined in the Statement of Basis. (Copy Attached)
6. In accordance with Order in Cause No. 190-5(b) dated October 28, 1982, the Operator shall comply with requirements of Rules R649-3-31 and R649-3-27 pertaining to Designated Oil Shale Areas. Additionally, the operator shall ensure that the surface and/or production casing is properly cemented over the entire oil shale interval as defined by Rule R649-3-31. The Operator shall report the actual depth the oil shale is encountered to the Division.
7. Surface casing shall be cemented to the surface.

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-22792
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 OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> OTHER _____		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1021-19N
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078		9. API NUMBER: 43-042-39008
4. LOCATION OF WELL FOOTAGES AT SURFACE: 462'FSL, 1845'FWL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		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 (Submit in Duplicate) Approximate date work will start: _____ <input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

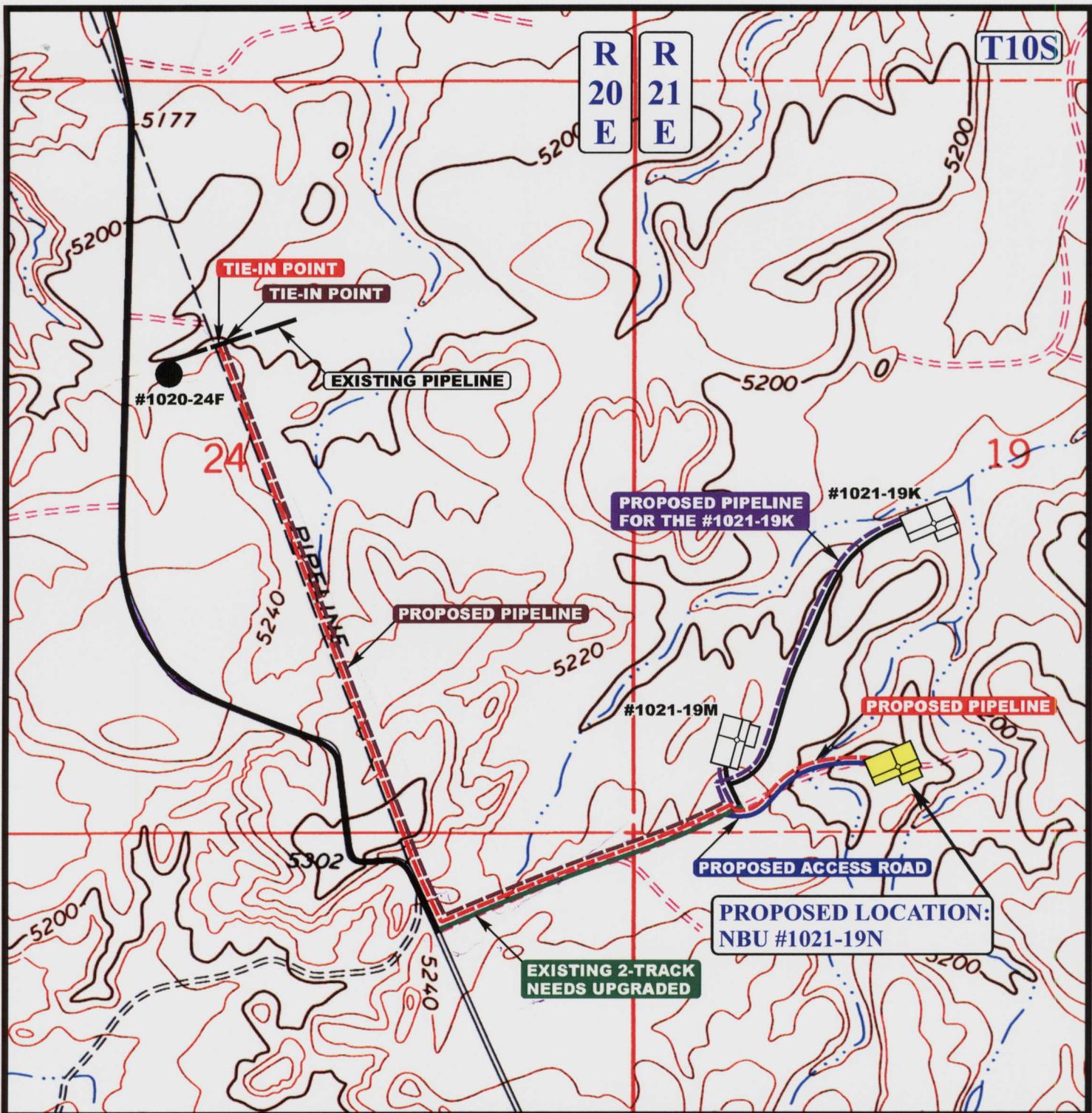
AN ON-SITE INSPECTION WAS CONDUCTED ON 02/13/2007 WITH UDOGM AND SITLA REPRESENTATIVES. IT WAS DECIDED AT THE ON-SITE INSPECTION TO CHANGE THE PIPELINE WAS CHANGED FROM 1095' +/- OF 4" STEEL PIPELINE TO 6400' +/- OF 4" STEEL PIPELINE AND APPROXIMATELY 7750' +/- OF 4" STEEL PIPELINE.

PLEASE REFER TO THE ATTACHED REVISED TOPO MAP D.

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>3/14/2007</u>

(This space for State use only)

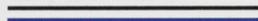
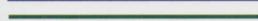
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MAR 21 2007
DIV. OF OIL, GAS & MINING



APPROXIMATE TOTAL PIPELINE DISTANCE = 6,400' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 7,750' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING 2-TRACK NEEDS UPGRADED
-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED PIPELINE (SERVICING OTHER WELLS)

Kerr-McGee Oil & Gas Onshore LP

NBU #1021-19N
SECTION 19, T10S, R21E, S.L.B.&M.
462' FSL 1845' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813



TOPOGRAPHIC
MAP

11	07	06
MONTH	DAY	YEAR

SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 02-19-07



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

FORM 9

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2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1021-19N
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST CITY: VERNAL STATE: UT ZIP: 84078		9. API NUMBER: 43-047-39008
4. LOCATION OF WELL FOOTAGES AT SURFACE: 462'FSL, 1845'FWL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		COUNTY: UINTAH
		STATE: UTAH

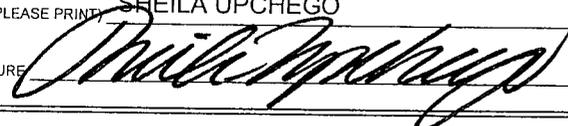
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	<input checked="" type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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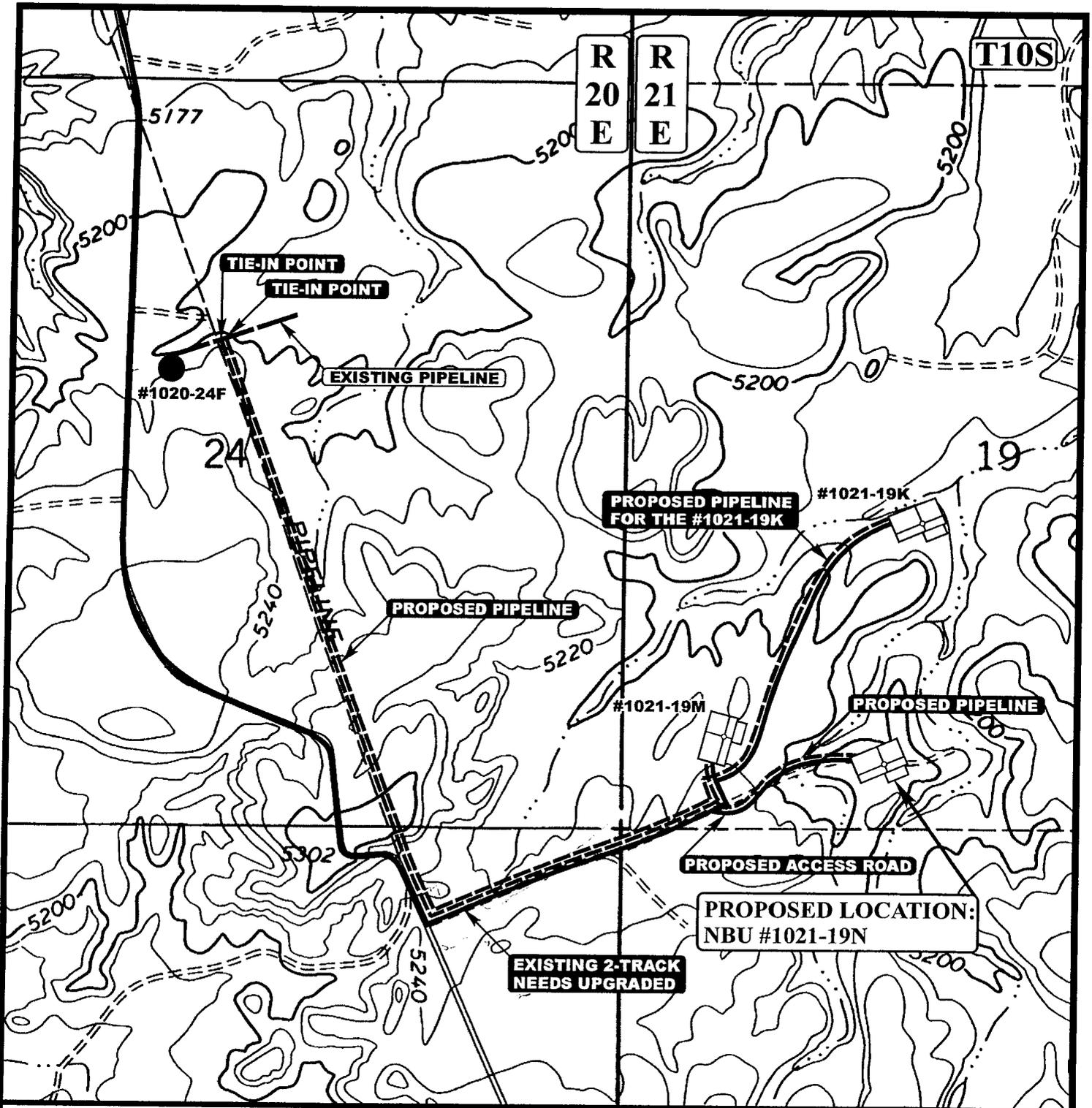
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PLEASE REFER TO THE ATTACHED REVISED TOPO MAP D.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE 	DATE 3/14/2007

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MAR 21 2007



APPROXIMATE TOTAL PIPELINE DISTANCE = 6,400' +/-

APPROXIMATE TOTAL PIPELINE DISTANCE = 7,750' +/-

LEGEND:

-  PROPOSED ACCESS ROAD
-  EXISTING 2-TRACK NEEDS UPGRADED
-  EXISTING PIPELINE
-  PROPOSED PIPELINE
-  PROPOSED PIPELINE (SERVICING OTHER WELLS)



Kerr-McGee Oil & Gas Onshore LP
 NBU #1021-19N
 SECTION 19, T10S, R21E, S.L.B.&M.
 462' FSL 1845' FWL



Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP
 11 07 06
 MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 02-19-07



DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

Name of Company: **Kerr-McGee Oil & Gas Onshore, LP**

Well Name: **NBU 1021-19N**

API No: **43-047-39008** Lease Type: **State**

Section **19** Township **10S** Range **21E** County **Uintah**

Drilling Contractor **Pete Martin** Rig # **Bucket**

SPUDDED:

Date **6-26-07**

Time **9:00 AM**

How **Dry**

Drilling will Commence: _____

Reported by **Lou Weldon**

Telephone # **435-828-7035**

Date **6-28-07** Signed **RM**

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

FORM 6

ENTITY ACTION FORM

Operator: KERR MCGEE OIL & GAS ONSHORE LP
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078

Operator Account Number: N 2995

Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739008	NBU 1021-19N		SES	19	10S	21E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
<u>B</u>	99999	<u>2900</u>	6/26/2007		<u>6/28/07</u>		
Comments: MIRU PETE MARTIN BUCKET RIG. <u>WSTMVD</u> SPUD WELL LOCATION ON 06/26/2007 AT 0900 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304738066	NBU 1022-21E		SWNW	21	10S	22E	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
	99999		6/26/2007				
Comments: MIRU ROCKY MTN BUCKET RIG. SPUD WELL LOCATION ON 06/26/2007 AT 0800 HRS.							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
Comments:							

ACTION CODES:

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

SHEILA UPCHEGO

Name (Please Print)
Sheila Upchego
Signature
SENIOR LAND SPECIALIST 6/27/2007
Title

RECEIVED

JUN 27 2007

DIV. OF OIL, GAS & MINING

To: EARLENE Russell From: Sheila Upchego
Co./Dept: WDOGm Co: KMB
Phone # (801) 588-5330 Phone # (435) 781-7024
Fax # (801) 359-3940 Fax # (435) 781-7094

(5/2000)

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-22792
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		7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
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2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		9. API NUMBER: 4304739008
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078	PHONE NUMBER: (435) 781-7024	10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
4. LOCATION OF WELL FOOTAGES AT SURFACE: 462'FSL, 1845'FWL		COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		STATE: UTAH

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	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
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	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: <u>WELL SPUD</u>
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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 06/26/2007 AT 0900 HRS

RECEIVED
JUL 02 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) <u>SHEILA UPCHEGO</u>	TITLE <u>SENIOR LAND ADMIN SPECIALIST</u>
SIGNATURE	DATE <u>6/27/2007</u>

(This space for State use only)

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

FORM 9

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2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		8. WELL NAME and NUMBER: NBU 1021-19N
3. ADDRESS OF OPERATOR: 1368 SOUTH 1200 EAST VERNAL UT 84078		9. API NUMBER: 4304739008
4. LOCATION OF WELL FOOTAGES AT SURFACE: 462'FSL, 1845'FWL		10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		COUNTY: UINTAH
		STATE: UTAH

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

MIRU BILL MARTIN AIR RIG ON 06/27/2007. DRILLED 12 1/4" SURFACE HOLE TO 2060'. RAN 9 5/8" 32.3# H-40 SURFACE CSG. LEAD CMT W/180 SX HIFILL CLASS G @11.0 PPG 3.82 YIELD. TAILED CMT W/200 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD RETURNS TO PIT 6 +/- BBL LEAD CMT TO PIT. RAN 200' OF 1" PIPE. CMT W/120 SX PREM CLASS G @15.8 PPG 1.15 YIELD. GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/70 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

RECEIVED
JUL 17 2007

DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 7/3/2007

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

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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		COUNTY: UINTAH
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	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input checked="" type="checkbox"/> OTHER: FINAL DRILLING OPERATIONS
	<input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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FINISHED DRILLING FROM 2060' TO 9530' ON 07/29/2007. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/355 SX PREM LITE II @11.4 PPG 2.91 YIELD. TAILED CMT W/1191 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/147 BBLS FRESH WATER MAGNACIDE CLAY TREAT BUMP PLUG W/3300 PSI OVER FLOATS OK HAD GOOD CIRC W/20 BBLS LEAD CMT TO PIT FLUSH STACK TRY TO LAND CSG UNABLE TO SEAT CSG HANGER PU AND HANG BOP STACK SET CSG SLIPS W. 65,000# CUT OFF CSG. CLEAN MUD PITS.

RELEASED PIONEER RIG 41 ON 07/31/2007 AT 2200 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 8/1/2007

(This space for State use only)

RECEIVED
AUG 06 2007
DIV. OF OIL, GAS & MINING

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

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QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		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 (Submit in Duplicate) Approximate date work will start: _____ <input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> ALTER CASING <input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> CONVERT WELL TYPE	<input type="checkbox"/> DEEPEN <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> PLUG BACK <input type="checkbox"/> PRODUCTION (START/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"/> TEMPORARILY ABANDON <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> WATER SHUT-OFF <input checked="" type="checkbox"/> OTHER: PRODUCTION START-UP

12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc.
THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 08/25/2007 AT 9:30 AM.
PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

RECEIVED
SEP 04 2007
DIV. OF OIL, GAS & MINING

NAME (PLEASE PRINT) SHEILA UPCHEGO	TITLE SENIOR LAND ADMIN SPECIALIST
SIGNATURE	DATE 8/27/2007

(This space for State use only)



Anadarko Petroleum Corporation
1368 S. 1200 East
Vernal, UT 84078

CHRONOLOGICAL WELL HISTORY

NBU 1021-19N

SESW, SEC. 19, T10S, R21E
UINTAH COUNTY, UT

DATE	ACTIVITY	STATUS
06/07/07	LOCATION STARTED PIONEER 41?	
06/25/07	LOCATION COMPLETE	P/L IN, WOBR
06/26/07	SET CONDUCTOR	WOAR
06/27/07	SET AIR RIG	DRLG
07/05/07	9 5/8" @2049'	WORT
07/17/07	TD: 2078' Csg. 9 5/8" @ 2049' MW: 8.4 Move to NBU 1021-19N. Spot rig and RURT.	SD: 7/XX/07 DSS: 0
07/18/07	TD: 2078' Csg. 9 5/8" @ 2049' MW: 8.4 RURT. NU and test BOPE. PU drill string and tag cement @ 1953'. Run survey @ report time.	SD: 7/XX/07 DSS: 0
07/19/07	TD: 3040' Csg. 9 5/8" @ 2049' MW: 8.4 Drill cmt and FE. Rotary spud @ 1000 hrs on 7/18/07. Drill f/ 2078'-3040'. DA @ report time.	SD: 7/18/07 DSS: 1
07/20/07	TD: 4200' Csg. 9 5/8" @ 2049' MW: 9.3 Drill f/ 3040'-4200'. DA @ report time.	SD: 7/18/07 DSS: 2
07/23/07	TD: 6630' Csg. 9 5/8" @ 2049' MW: 10.0 Drill 4200'-6630' DA @ report time.	SD: 7/18/07 DSS: 5
07/24/07	TD: 6946' Csg. 9 5/8" @ 2049' MW: 10.0 Drill 6630'-6946'. Pump slug. TFNB. @ report time.	SD: 7/18/07 DSS: 6
07/25/07	TD: 7545' Csg. 9 5/8" @ 2049' MW: 10.2 FIH. Drill f/ 6946'-7545'. DA @ report time.	SD: 7/18/07 DSS: 7
07/26/07	TD: 8200' Csg. 9 5/8" @ 2049' MW: 11.0 Drill f/ 7545'-8200'. DA @ report time.	SD: 7/18/07 DSS: 8
07/27/07	TD: 8464' Csg. 9 5/8" @ 2049' MW: 11.2 Drill f/ 8200'-8464'. TFNB. TIH @ report time.	SD: 7/18/07 DSS: 9
07/30/07	TD: 9500' Csg. 9 5/8" @ 2049' MW: 11.4 Drill from 8464'-8902'. TFNB and lay down MM. Drill to 9500' TD. Short trip and CCH for logs. TOOH @ report time.	SD: 7/18/07 DSS: 12

07/31/07 TD: 9530' Csg. 9 5/8" @ 2049' MW: 12.0 SD: 7/18/07 DSS: 13
 TOOHO for logs. Run Triple Combo. TIH and CCH for casing. Lay down drill string. Run 4 1/2"
 Production Casing @ report time.

08/01/07 TD: 9530' Csg. 9 5/8" @ 2049' MW: 12.0 SD: 7/18/07 DSS: 14
 Run and cement 4 1/2" Production Casing. Set slips and release rig @ 2200 hrs 7/31/07. RDRT.

08/20/07 **MIRU**
 Days On Completion: 1
 Remarks: DAY #1 7:00 HSM ROAD RIG FROM NBU1021-21J TO NBU 1021-19N, MIRU SPOT
 EQUIP, N/D WELL HEAD, N/U BOPE, R/U TBG EQUIP, P/U 3-7/8 MILL, TALLEY & P/U 274
 JNTS 2-3/8 N-80 TBG, EOT @ 8508', POOH W/ 274 JNTS, N/D BOPE, N/U FRAC VALVES,
 READY TO LOG IN A.M

8/21/07 **FRAC**
 Days On Completion: 2
 Remarks: DAY #2] 7:00 MIRU CUTTERS WIRE LINE RIH W/ CBL TOOLS & LOG FROM 9441'
 TO SURFACE, CEMENT TOP 300', MIRU B&C QUICK TEST, PRESSURE TEST FRAC
 VALVES & CSG TO 500# LOW TEST & 7500# HIGH TEST [GOOD TEST] R/D B&C TESTERS,
 P/U RIH W/ 3-3/8 PERF GUNS, PERF MESAVERDE 9152'-9149' 4 SPF, 120* PH, 23 GM, 12
 HOLES, 9082'-9079' 4 SPF, 120*, 23 GM, 12 HOLES, 9014'-9011' 3 SPF, 90* PH, 23 GM, 9
 HOLES, 8908'-8905' 4 SPF, 120* PH 23 GM, 12 HOLES. WHP=0#, BRK DN PERS @ 3682,
 INJT RT=53.1, INJT PSI=5000#, ISIP=3357, F.G=.81, PUMP'D 1432.7 BBLS SLK/WTR &
 42915# 30/50 MESH SD, ISIP=3389, F.G=.82, AR=53.2, AP=4855, MR=53.6, MP=6830, NPI=32,
 100% PERFS OPEN 45/45 W/ 5000# RESIN COAT SD @ TAIL.
 STG #2] DEFIT RIH W/ BKR 8K CBP & 3-3/8 PERF GUNS, SET CBP @ 7827' PERF
 MESAVERDE @ 7721'-7725' FOR DFIT.4 SPF 120* PH, 23 GM, MIRU DELSCO, P/U
 HALIBURTON DEFIT TOOLS RIH ON SLICK LINE & SET @ 7711' , WHP=0, BRK DN PERFS
 @ 3905, @ 5 BPM @ 2690#, FG=.80, ISIP=2797, PUMP'D 27 BBLS, 5 MIN SIP=2491, 10 MIN
 SIP=2349, 15 MIN SIP=2225, SWIFN 6:30

8/22/07 **FRAC**
 Days On Completion: 3
 Remarks: DAY#3 STG #2: 6:30 SICP=900#, POOH W/ HALIBURTON DEFIT TOOLS, P/U RIH
 W/ 3-3/8 PERF GUNS PERF MESAVERDE 7794'-7797', 7604'-7607' 4 SPF, 120* PH, 23 GM,
 FRAC STG #2= WHP=900#, INJT RT=50.6, INJT PSI=6120, PUMP'D 1582 BBLS SKL/WTR W/
 55064# 30/50 MEH SD, ISIP=2961, FG=.82, AR=50.9, AP=4311, MR=51.2, MP=6397, NPI=164,
 88% PERFS OPEN 35/40 PUMP'D 5000# RESIN COAT IN TAIL.
 STG #3: DEFIT, P/U RIH W/ BKR 8K CBP & 3-3/8 PERF GUNS, SET CBP @ 7447', PERF
 MESAVERDE @ 7408'-7417' 4 SPF, 120* PH, 23 GM, 36 HOLES. [DELSKO] P/U RIH W/
 HALIBURTON DEFIT TOOLS @ LET SET @ 7398' [TIME 10:05] BRK DN PERFS @ 4665#,
 FG=.80, ISIP=2333, PUMP'D 27 BBLS SLK/WTR @ 5.1 BPM, 5 MIN=1958, 10 MIN=1830, 15
 MIN=1727, SWI [10:17] 4:40 WHP=1000#, PUMP'D 686 BBLS SLK/WTR W/ 25281# 30/50
 MESH SD, ISIP=3212, FG=.87, AR=51.4, AP=4729, MR=51.7, MP=6440, NPI=879, 70% PERFS
 OPEN PUMP'D 5000# RESIN NCOAT IN TAIL.

08/23/07 **DRILL CBP'S**
 Days On Completion: 4
 Remarks: DAY #4] 7:00 HSM - SICP=0#, N/D FRAC VALVES, N/U BOPE, R/U TBG EQUIP.
 P/U 3-7/8 BIT W/ POBS [W/ BIG "R" PROFILE 1.875] RIH W/ 2-3/8 L-80 TBG TAG KILL PLUG
 @ 7358 W/ NO FILL ON TOP, R/U CIRC EQUIP, P/U PWR SWVL.
 STG #1: DRL THROUGH 1ST CBP IN 6 MIN 300# INCREASE
 STG#2: CONTINUE TO RIH TAG SD @ 7417' C/O TO BKR 8K CBP & DRL THROUGH IN 6
 MIN, 200# INCREASE.
 STG #3: CONTINUE TO RIH TAG SD @ 7800', C/O TO BKR 8K CBP & DRL THROUGH IN 6
 MIN, 200# INCREASE

CONTINUE TO RIH & C/O TO 9283' CIRC HOLE, POOH L/D 34 JNT TBG ON FLOAT, P/U LUBRICATE HANGER IN HOLE & LAND W/ 265 JNTS 2-3/8 L-80 TBG,EOT @ 8237.01 R/D PWR SWVL, & TBG EQUIP, N/D BOPE, DROP BALL, N/U WELL HEAD, PUMP OFF BIT W/ 20 BBLs KCL, TURN WELL OVER TO FLOW BACK CREW.

08/25/07 **FLOWBACK:** CP 1550#, TP 675#, CK 20/64", 25 BWPH, LOAD REC'D 2315 BBLs, LLTR 655 BBLs

WELL WENT ON SALES: @ 9:30 AM, 570 MCF, 625 TBG, 1400 CSG, 20/64 CK, 25 BBWH

08/26/07 **ON SALES:** CP 1150#, TP 450#, CK 20/64", 15 BWPH, LOAD REC'D 2750 BBLs, LLTR 220 BBLs

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

AMENDED REPORT FORM 8
(highlight changes)

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

1a. TYPE OF WELL: OIL WELL <input type="checkbox"/> GAS WELL <input checked="" type="checkbox"/> DRY <input type="checkbox"/> OTHER _____		5. LEASE DESIGNATION AND SERIAL NUMBER: ML-22792
b. TYPE OF WORK: NEW WELL <input checked="" type="checkbox"/> HORIZ. LATS. <input type="checkbox"/> DEEP-EN <input type="checkbox"/> RE-ENTRY <input type="checkbox"/> DIFF. RESVR. <input type="checkbox"/> OTHER _____		6. IF INDIAN, ALLOTTEE OR TRIBE NAME
2. NAME OF OPERATOR: KERR MCGEE OIL & GAS ONSHORE LP		7. UNIT or CA AGREEMENT NAME UNIT #891008900A
3. ADDRESS OF OPERATOR: 1368 S 1200 E VERNAL UT ZIP 84078		8. WELL NAME and NUMBER: NBU 1021-19N
4. LOCATION OF WELL (FOOTAGES) AT SURFACE: 462'FSL, 1845'FWL AT TOP PRODUCING INTERVAL REPORTED BELOW: AT TOTAL DEPTH:		9. API NUMBER: 4304739008
PHONE NUMBER: (435) 781-7024		10. FIELD AND POOL, OR WILDCAT NATURAL BUTTES
11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E		12. COUNTY UINTAH
13. STATE UTAH		

14. DATE SPURRED: 6/26/2007	15. DATE T.D. REACHED: 7/19/2007	16. DATE COMPLETED: 8/25/2007	ABANDONED <input type="checkbox"/> READY TO PRODUCE <input checked="" type="checkbox"/>	17. ELEVATIONS (DF, RKB, RT, GL): 5212'GL
---------------------------------------	--	---	---	---

18. TOTAL DEPTH: MD 9,530 TVD	19. PLUG BACK T.D.: MD 9,283 TVD	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) CBL-CCL-GR, SD, DSN, ACTR,	23. WAS WELL CORED? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit analysis) WAS DST RUN? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (Submit report) DIRECTIONAL SURVEY? NO <input checked="" type="checkbox"/> YES <input type="checkbox"/> (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 H-40	32.3#		2,060		570			
7 7/8"	4 1/2 I-80	11.6#		9,530		1546			

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"	8.237								

26. PRODUCING INTERVALS WSMVD -					27. PERFORATION RECORD				
FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)	INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS	
(A) MESAVERDE	7,408	9,152			7,408 9,152	0.36	125	Open <input checked="" type="checkbox"/>	Squeezed <input type="checkbox"/>
(B)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(C)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>
(D)								Open <input type="checkbox"/>	Squeezed <input type="checkbox"/>

28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC.	
DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
7408'-9152'	PMP 3754 BBLS SLICK H2O & 123,260# 30/50 MESH SD

29. ENCLOSED ATTACHMENTS: <input type="checkbox"/> ELECTRICAL/MECHANICAL LOGS <input type="checkbox"/> SUNDRY NOTICE FOR PLUGGING AND CEMENT VERIFICATION	<input type="checkbox"/> GEOLOGIC REPORT <input type="checkbox"/> CORE ANALYSIS	<input type="checkbox"/> DST REPORT <input type="checkbox"/> OTHER: _____	<input type="checkbox"/> DIRECTIONAL SURVEY	30. WELL STATUS: PROD
---	--	--	---	---------------------------------

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SEP 25 2007

31. INITIAL PRODUCTION

INTERVAL A (As shown in Item #26)

DATE FIRST PRODUCED: 8/25/2007		TEST DATE: 8/27/2007		HOURS TESTED: 24		TEST PRODUCTION RATES: →		OIL – BBL: 0	GAS – MCF: 482	WATER – BBL: 10	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 400	CSG. PRESS. 1,000	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL: 0	GAS – MCF: 482	WATER – BBL: 10	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.)

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
WASATCH MESAVERDE	4,357 7,363	7,363			

35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE SENIOR LAND ADMIN SPECIALIST
 SIGNATURE  DATE 9/17/2007

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 Phone: 801-538-5340
 1594 West North Temple, Suite 1210
 Box 145801 Fax: 801-359-3940
 Salt Lake City, Utah 84114-5801

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

FORM 9

5. LEASE DESIGNATION AND SERIAL NUMBER:
ML-22792

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

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.

7. UNIT or CA AGREEMENT NAME:
UNIT #891008900A

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

8. WELL NAME and NUMBER:
NBU 1021-19N

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

9. API NUMBER:
4304739008

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: **462'FSL, 1845'FWL**

COUNTY: **UINTAH**

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: **SESW 19 10S 21E**

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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
<input type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

THE OPERATOR REQUESTS AUTHORIZATION TO RECOMPLETE THE SUBJECT WELL LOCATION. THE OPERATOR PROPOSES TO COMPLETE THE WASATCH FORMATION. THE OPERATOR WILL COMMINGLE THE NEWLY WASATCH FORMATIONS ALONG WITH THE EXISTING MESAVERDE FORMATIONS.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

COPY SENT TO OPERATOR

Date: 2.5.2009

Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE *[Handwritten Signature]*

DATE 1/23/2009

(This space for State use only)

**APPROVED BY THE STATE
OF UTAH DIVISION OF
OIL, GAS, AND MINING**

DATE: 2/3/09

BY: *[Handwritten Signature]* (See Instructions on Reverse Side)

* Cause 173-14

**RECEIVED
JAN 26 2009**

DIV. OF OIL, GAS & MINING

Name: NBU 1021-19N
Location: SESW-Section 19-T10S-R21E
Uintah County, UT
Date: 01/21/2009

ELEVATIONS: 5212' GL 5230' KB

TOTAL DEPTH: 9529' **PBTD:** 9484'
SURFACE CASING: 9 5/8", 32.3# H-40 ST&C @ 2050'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 9529'
 Marker Joint 4324'-4340''

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES	
				(bbl/ft)	(gal/ft)
2 3/8" 4.7# N-80 tbg	11,200	11,780	1.901"	0.00387	0.1624
4 1/2" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 1/2" Annulus				0.0101	0.4227

TOPS:

1103' Green River
 1237' Birds Nest
 1791' Mahogany
 4357' Wasatch
 7428' Mesaverde
 Estimated T.O.C. from CBL @ (ratty above 2900')

GENERAL:

- A minimum of **14** tanks (cleaned lined 500 bbl) of recycled water will be required. Note: Use biocide in tanks and the water needs to be at least 45°F at pump time.
- All perforation depths are from Halliburtons Induction-Density-Neutron log dated 7/30/2007
- **5** fracturing stages required for coverage.
- Procedure calls for 5 CBP's (**8000** psi) and 1 Flow Through Plug
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and 1/2 the ramp) and 10 gals/1000 gals in all flushes except the final stage. Remember to pre-load the casing with scale inhibitor for the very first stage with 10 gpt.
- 30/50 mesh Ottawa sand, **Slickwater frac.**
- Maximum surface pressure **6200** psi.
- Flush volumes are the sum of slick water and acid used during displacement (include scale inhibitor as mentioned above). **DO NOT OVERDISPLACE.** Stage acid and scale inhibitor if necessary to cover the next perforated interval.
- Service companies need to provide surface/production annulus pop-offs to be set for 1500 psi for each frac.

- Pump 20/40mesh **resin coated sand** last 5,000# of all frac stages
- Tubing Currently Landed @~8237'
- Originally completed on 8/23/07

Existing Perforations:

Zone	Stage	Top Perf	Btm Perf
MesaVerde	3	7408	7417
MesaVerde	2	7604	7607
MesaVerde	2	7721	7725
MesaVerde	2	7794	7797
MesaVerde	1	8905	8908
MesaVerde	1	9011	9014
MesaVerde	1	9079	9082
MesaVerde	1	9149	9152

PROCEDURE:

1. MIRU. Control well with 2% KCL and biocide as required. ND WH, NU BOP's and test.
2. TOOH with 2-3/8", 4.7#, N-80 tubing (currently landed at ~8237'). Visually inspect for scale and consider replacing if needed.
3. If tbg looks ok consider running a gauge ring to 7272 (50' below proposed CBP). Otherwise P/U a mill and C/O to 7272 (50' below proposed CBP).
4. Set 8000 psi Flow Through Plug at ~ 7232'. Pressure test BOP and casing to 6000 psi. .
5. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7150	7154	3	12
WASATCH	7214	7222	4	32
6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gals of 15% HCL and let soak 5-10 min. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~7128' and trickle 250gal 15%HCL w/ scale inhibitor in flush . NOTE TIGHT SPACING
7. Set 8000 psi CBP at ~7118'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	7002	7004	3	6
WASATCH	7030	7034	3	12
WASATCH	7052	7054	4	8
WASATCH	7076	7078	4	8
WASATCH	7086	7088	4	8
8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~6952' and trickle 250gal 15%HCL w/ scale inhibitor in flush. Note: Stage has tight spacing.

9. Set 8000 psi CBP at ~6798'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6660	6662	3	6
WASATCH	6686	6688	3	6
WASATCH	6722	6724	4	8
WASATCH	6734	6736	4	8
WASATCH	6764	6768	4	16

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~6610' trickle 250gal 15%HCL w/ scale inhibitor in flush.

11. Set 8000 psi CBP at ~6364'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6298	6306	4	32
WASATCH	6332	6334	4	8

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~6248' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~6186'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6052	6054	4	8
WASATCH	6058	6064	3	18
WASATCH	6100	6102	4	8
WASATCH	6154	6156	4	8

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~6002' and flush only with recycled water.

15. Set 8000 psi CBP at ~6002'.

16. TIH with 3 7/8" mill, sliding sleeve, SN and tubing.

17. Mill plugs (DO NOT DRILL FLOW THROUGH PLUG @ 7232') and clean out to 7232. Land tubing at ±6972' and open sleeve unless indicated otherwise by the well's behavior. This well will be commingled at this time.

18. RDMO

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

20. MIRU

21. Mill flow through plug and commingle well. Land tubing at ~8875'

22. RDMO

**For design questions, please call
David Cocciolone, Denver, CO
(832)-453-2043 (Cell)
(720)-929-6716 (Office)**

**For field implementation questions, please call
Robert Miller, Vernal, UT
4350781 7041 (Office)**

NOTES:

The original recommendation was to have 7400-7700 be a refrac but this was not approved in committee..

Estimated IP of 500 MCFD.

**NBU 1021-19N Recompletion
Perforation and CBP Summary**

Stage	Zones	Perforations		SPF	Holes	Fracture Coverage		
		Top, ft	Bottom, ft					
1	WASATCH	7150	7154	3	12	7183	to	7184
	WASATCH	7214	7222	4	32	7215	to	7223
	WASATCH		No Perfs			7236	to	7237
	WASATCH		No Perfs			7269	to	7270
	# of Perfs/stage				44	CBP DEPTH	7118	
2	WASATCH	7002	7004	3	6	6972	to	6973
	WASATCH	7030	7034	3	12	6995	to	6997
	WASATCH	7052	7054	4	8	7028	to	7029
	WASATCH	7076	7078	4	8	7054	to	7054
	WASATCH	7086	7088	4	8	7059	to	7060
	WASATCH		No Perfs			7076	to	7076
	WASATCH		No Perfs			7081	to	7082
	# of Perfs/stage				42	CBP DEPTH	6798	
3	WASATCH	6660	6662	3	6	6624	to	6624
	WASATCH	6686	6688	3	6	6732	to	6732
	WASATCH	6722	6724	4	8	6768	to	6769
	WASATCH	6734	6736	4	8	6786	to	6786
	WASATCH	6764	6768	4	16	6802	to	6803
	# of Perfs/stage				44	CBP DEPTH	6364	
4	WASATCH	6298	6306	4	32	6299	to	6302
	WASATCH	6332	6334	4	8	6302	to	6303
	WASATCH		No Perfs			6304	to	6306
	WASATCH		No Perfs			6331	to	6332
	WASATCH		No Perfs			6409	to	6409
	WASATCH		No Perfs			6426	to	6427
	# of Perfs/stage				40	CBP DEPTH	6186	
5	WASATCH	6052	6054	4	8	6042	to	6043
	WASATCH	6058	6064	3	18	6052	to	6055
	WASATCH	6100	6102	4	8	6058	to	6063
	WASATCH	6154	6156	4	8	6099	to	6100
	WASATCH		No Perfs			6154	to	6157
	WASATCH		No Perfs			6221	to	6222
	# of Perfs/stage				42	CBP DEPTH	6002	
Totals					212			

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-22792

6. IF INDIAN, ALLOTTEE OR TRIBE NAME:

7. UNIT or CA AGREEMENT NAME:
UNIT #891008900A

8. WELL NAME and NUMBER:
NBU 1021-19N

9. API NUMBER:
4304739008

1. TYPE OF WELL OIL WELL GAS WELL OTHER _____

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

3. ADDRESS OF OPERATOR:
1368 SOUTH 1200 EAST CITY VERNAL STATE UT ZIP 84078

PHONE NUMBER:
(435) 781-7024

10. FIELD AND POOL, OR WILDCAT:
NATURAL BUTTES

4. LOCATION OF WELL
FOOTAGES AT SURFACE: 462'FSL, 1845'FWL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SESW 19 10S 21E

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 (Submit in Duplicate) Approximate date work will start: _____	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> REPERFORATE CURRENT FORMATION
	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> SIDETRACK TO REPAIR WELL
	<input type="checkbox"/> CASING REPAIR	<input type="checkbox"/> NEW CONSTRUCTION	<input type="checkbox"/> TEMPORARILY ABANDON
	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> TUBING REPAIR
	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> VENT OR FLARE
<input checked="" type="checkbox"/> SUBSEQUENT REPORT (Submit Original Form Only) Date of work completion: _____	<input type="checkbox"/> CHANGE WELL NAME	<input type="checkbox"/> PLUG BACK	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> PRODUCTION (START/RESUME)	<input type="checkbox"/> WATER SHUT-OFF
	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> OTHER: _____
	<input type="checkbox"/> CONVERT WELL TYPE	<input checked="" type="checkbox"/> RECOMPLETE - DIFFERENT FORMATION	

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

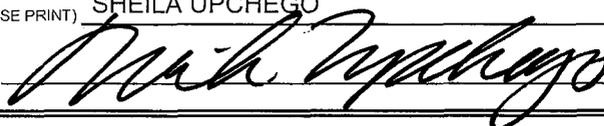
THE OPERATOR HAS PERFORMED THE RECOMPLETION ON THE SUBJECT WELL LOCATION. THE OPERATOR HAS COMPLETED THE WASATCH FORMATION, AND HAD COMMINGLED THE NEWLY WASATCH FORMATIONS ALONG WITH THE EXISTING MESAVERDE FORMATIONS. THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 03/24/2009 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE



DATE 4/15/2009

(This space for State use only)

RECEIVED

APR 20 2009

DIV. OF OIL, GAS & MINING

ROCKIES
Operation Summary Report

Well: NBU 1021-19N

Spud Date: 7/18/2007

Project: UTAH

Site: UINTAH

Rig Name No: LEED 698/698

Event: RECOMPLETION

Start Date: 2/26/2009

End Date: 3/3/2009

Active Datum: RKB @5,229.99ft (above Mean Sea Level)

UWI: NBU 1021-19N

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
2/25/2009	7:00 - 7:30	0.50	COMP	48		P		JSA#1
	7:30 - 17:00	9.50	COMP	30	A	P		7AM [DAY 1] MIRU, SPOT EQUIPMENT. FCP=175#. BLEW WELL DN. KILL TBG W/ 20 BBLs. NDWH, NUBOP. RU FLOOR & TBG EQUIPMENT. POOH STDG BACK 2-3/8" J-55 YELL BND TBG. [SLM] TBG LOOKED GOOD. LD 57 JTS ON FLOAT. LD BHA. RD FLOOR & TBG EQUIPMENT. NDBOP, NU FRAC VALVES. RU FLOOR. 5 PM LEAVE WELL OPEN TO SALES.
2/26/2009	7:00 - 7:30	0.50	COMP	48		P		JSA#2
	7:30 - 15:00	7.50	COMP	34	H	P		7AM [DAY 2] JSA#2 FCP=175#. MIRU S.J WIRELINE. RIH W/ BAKER 8K FLOW THRU CBP & SET @ 7232'. POOH & LD WIRELINE TOOLS. MIRU DBL JACK. P.T. CSG & FRAC VALVES TO 6000#. RDMO DBL JACK. [STG#1] RIH W/ PERF GUNS & PERF THE WASATCH @ 7150'-7154', 3 SPF, 120* PHS, & 7214'-7222', 4 SPF, 90* PHS USING 3-3/8" EXP GUNS, 23 GM, 0.36, [44 HLS] WHP=0#. POOH & LD WIRELINE TOOLS. SWI-SDFN. DAY 3
2/27/2009	-	-	-	-	-	-	-	STD-BY PREP TO FRAC W/ BJ ON 3/2/09 [DAY 4] MIRU BJ. HLD BJ JSA.
3/2/2009	5:00 - 5:30	0.50	COMP	48		P		

ROCKIES

Operation Summary Report

Well: NBU 1021-19N

Spud Date: 7/18/2007

Project: UTAH

Site: UINTAH

Rig Name No: LEED 698/698

Event: RECOMPLETION

Start Date: 2/26/2009

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UWI: NBU 1021-19N

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	5:30 - 17:30	12.00	COMP	36	E	P		<p>[STG#1] P.T. SURFACE LINES TO 8500#. WE-SICP=380#. BRK DN PERFS @ 3410# @ 5 BPM. ISIP=2140, FG=.74. BULLHEAD 3 BBLS 15% HCL. CALC 16/44 PERFS OPEN. PMP'D 2242 BBLS SLK WTR & 79,235# 30/50 SAND W/ 5000# RC SAND @ TAIL. ISIP=3849, FG=98, NPI=1709, MP=5464, MR=45, AP=5100, AR=45 BPM.</p> <p>[STG#2] RIH W/ BAKER 8K CBP & PERF GUNS. SET CBP @ 7108'. PERF THE WASATCH @ 7002'-7004', 7030'-7034', 3 SPF, 120* PHS, 7052'-7054', 7076'-7078' & 7086' - 7088' , 4 spf, 90* PHS USING 3-3/8" EXP GUNS, 23 GM, 0.36, [42 HLS] WHP=1720#. BRK DN PERFS @ 4055# @ 4 BPM. ISIP=3707, FG=.97, CALC 24/42 PERFS OPEN. PMP'D 709 BBLS SLK WTR & 25,956# 30/50 SAND W/ 5000# RC SAND @ TAIL. ISIP=3464, FG=.93, NPI=-243, MP=5346, MR=39, AP=5155, AR=38 BPM.</p> <p>[STG#3] RIH W/ BAKER 8K CBP & PERF GUNS. SET CBP @ 6798'. PERF THE WASATCH @ 6660'-6662', 6686'-6688', 3 SPF, 120* PHS, 6722'-6724', 6734'-6736' & 6764'-6768', 4 SPF, 90* PHS USING 3-3/8" EXP GUNS, 23 GM, 0.36, [44 HLS] WHP=2820#. BRK DN PERFS @ 3073# @ 5 BPM. ISIP=2943, FG=.88. CALC 24/44 PERFS OPEN. PMP'D 654 BBLS SLK WTR & 23,083# 30/50 SAND W/ 5000# RC SAND @ TAIL. ISIP=3096, FG=.90, NPI=153, MP=5381, MR=48, AP=4951, AR=47 BPM.</p> <p>[STG#4] RIH W/ BAKER 8K CBP & PERF GUNS. SET CBP @ 6364'. PERF THE WASATCH @ 6298'-6306' & 6332'-6334' USING 3-3/8" EXP GUNS, 23 GM, 0.36, 90* PHS, 4 SPF, [40 HLS] WHP=975#. BRK DN PERFS @ 2417# @ 5 BPM. ISIP=2291, FG=.80, CALC 25/40 PERFS OPEN. PMP'D 1118 BBLS SLK WTR & 43,453# 30/50 SAND W/ 5000# RC SAND @ TAIL. ISIP=2516, FG=.84, NPI=225, MP=5037, MR=57, AP=4892, AR=55 BPM.</p> <p>[STG#5] RIH W/ BAKER 8K CBP & PERF GUNS. SET CBP @ 6176'. PERF THE WASATCH @ 6052'-6054', 4 SPF, 90* PHS, 6058'-6064', 3 SPF, 120* PHS, 6100'-6102' & 6154'-6156', 4 SPF, 90* PHS USING 3-3/8" EXP GUNS, 23 GM, 0.36, [42 HLS] WHP=875#. BRK DN PERFS @ 2794# @ 5 BPM. ISIP=2055, FG=.78. CALC 33/42 PERFS OPEN. PMP'D 1607 BBLS SLK WTR & 67,711# 30/50 SAND W/ 5000# RC SAND @ TAIL. ISIP=2328, FG=.82, NPI=273,MP=4767, MR=62,AP=4598,AR=61 BPM.</p> <p>[KILL PLUG] RIH W/ BAKER 8K CBP & SET @ 6002'. POOH, LD WIRELINE TOOLS. RDMO BJ & S.J. WIRELINE. GRND TOTAL 30/50 & RC SAND=239,438# & TOTAL FLUID=6330 BBLS. ND FRAC VALVES, NUBOP. RU FLOOR & TBG EQUIPMENT. PU 3-7/8" BIT, PUMP OPEN SUB W/ XN NIPPLE & RIH OUT OF DERRICK ON 2-3/8" TBG. TAG SAND @ 5990'. RU SWVL, RIG PMP & WTRFD FOAM UNIT.</p>

ROCKIES

Operation Summary Report

Well: NBU 1021-19N

Spud Date: 7/18/2007

Project: UTAH

Site: UINTAH

Rig Name No: LEED 698/698

Event: RECOMPLETION

Start Date: 2/26/2009

End Date: 3/3/2009

Active Datum: RKB @5,229.99ft (above Mean Sea Level)

UWI: NBU 1021-19N

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
								5:30 PM SWI-SDFN PREP TO D/O 5 CBP'S IN AM
3/3/2009	17:00 - 17:00	0.00	COMP					
	7:00 - 7:30	0.50	COMP	48		P		JSA#5
	7:30 - 16:30	9.00	COMP	44	C	P		7AM [DAY 5]
								EOT @ 5990'. ESTABLISH CIRCULATION W/ RIG PMP. P.T. BOP TO 3000#. C/O 12' SD TO CBP#1 @ 6002'.
								[DRLG CBP#1] @ 6002'. D/O BAKER 8K CBP IN 5 MIN. 500# INC. RIH, TAG SAND @ 6146'. C/O 30' SAND. FCP=300#.
								[DRLG CBP#2] @ 6176'. D/O BAKER 8K CBP IN 5 MIN. 150# INC. RIH, TAG SAND @ 6334'. C/O 30' SAND. FCP=200#.
								[DRLG CBP#3] @ 6364'. D/O BAKER 8K CBP IN 5 MIN. 150# INC. RIH, TAG SAND @ 6758'. C/O 40' SAND. FCP=250#.
								[DRLG CBP#4] @ 6798'. D/O BAKER 8K CBP IN 6 MIN. 100# INC. RIH, TAG SAND @ 7068'. C/O 40' SAND. FCP=250#.
								[DRLG CBP#5] @ 7108'. D/O BAKER 8K CBP IN 6 MIN. 150# INC. RIH, TAG SAND @ 7192'. C/O 40' SAND TO FLOW THRU PLUG @ 7232'. CIRCULATE WELL CLN. RD SWVL. POOH & LD 9 JTS ON FLOAT. LAND TBG ON HANGER W/ 224 JTS 2-3/8" J-55 YELL BND TBG. EOT @ 6983.29' & PMP OPEN SUB W/ XN @ 6979.64'. AVG 5.5 MIN PLUG & C/O 192' SAND. RD FLOOR & TBG EQUIPMENT. NDBOP, NUWH. DROP BALL DN TBG & PMP OPEN THE SUB @ 1850#. OPEN WELL TO FBT ON OPEN CHOKE. FTP=50#, SICP=550#.
								3 PM TURN WELL OVER TO FBC. LTR @ 3 PM=4835 BBLS. DRAIN PMP & LINES. RACK EQUIPMENT.
3/4/2009	7:00 -			33	A			4PM SDFN 7 AM FLBK REPORT: CP 625#, TP 50#, OPEN/64" CK, 35 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 2221 BBLS LEFT TO RECOVER: 4109
3/5/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1850#, TP 25#, OPEN/64" CK, 15 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 2766 BBLS LEFT TO RECOVER: 3564
3/6/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 1400#, TP 500#, 22/64" CK, 18 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 3152 BBLS LEFT TO RECOVER: 3178
3/7/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 550#, TP 50#, OPEN/64" CK, 8 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 3452 BBLS LEFT TO RECOVER: 2878
3/8/2009	7:00 -		PROD	33	A	P		7 AM FLBK REPORT: CP 500#, TP 25#, OPEN/64" CK, 5 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 3600 BBLS LEFT TO RECOVER: 2730

ROCKIES

Operation Summary Report

Well: NBU 1021-19N

Spud Date: 7/18/2007

Project: UTAH

Site: UINTAH

Rig Name No: LEED 698/698

Event: RECOMPLETION

Start Date: 2/26/2009

End Date: 3/3/2009

Active Datum: RKB @5,229.99ft (above Mean Sea Level)

UWI: NBU 1021-19N

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
3/10/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 500#, TP 50#, OPEN64" CK, - BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 3678 BBLS LEFT TO RECOVER: 2652
3/11/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 500#, TP 50#, OPEN64" CK, 5 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 3776 BBLS LEFT TO RECOVER: 2554
3/12/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 400#, TP 50#, OPEN64" CK, 4 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 3852 BBLS LEFT TO RECOVER: 2478

ROCKIES
Operation Summary Report

Well: NBU 1021-19N

Spud Date: 7/18/2007

Project: UTAH

Site: UINTAH

Rig Name No: MILES 2/2

Event: WORKOVER / REPAIR

Start Date: 3/23/2009

End Date: 3/26/2009

Active Datum: RKB @5,229.99ft (above Mean Sea Level)

UWI: NBU 1021-19N

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
3/23/2009	7:00 - 7:30	0.50	WO/REP	48		P		HSM, RIGGING DWN
	7:30 - 15:00	7.50	WO/REP	30	A	P		LOWER RODS ON NBU 1021-19D, WIND BLOWING TO HARD TO RIG DWN. MOVE EQUIP TO LOCATION SDFD.
3/24/2009	7:00 - 7:30	0.50	WO/REP	48		P		HSM, RIGGING DWM, ROADING RIG, RIGGING UP.
	7:30 - 10:30	3.00	WO/REP	30	A	P		PUMPING UNIT WAS DWN ON NBU 1021-19D, WAIT FOR PUMPER TO GET RUNNING EVERY THING WAS OK, RDMOL, MIRU,CHECK TBG AND CSG FOR H2S NONE.
	10:30 - 17:00	6.50	WO/REP	31	I	P		ROD EQUIP RU TBG EQUIP. RU KILL TBG W/ 28 BBLS 2%. ND WH, NU BOPS. INSTALLED TBG SUB TEST BOPS TO 3,000# OK, UNLAND TBG L/D HANGER. POOH W/ 224 JTS 23/8 L-80 S.L.M. AND CHECKING W/ BROACH. L/D 37/8 BIT, PUMP OPEN BIT SUB, 1.875 X/N. PU RIH W/ 37/8 MILL, BIT SUB 1.875 X/N. AND 44 JTS SWI SDFN.
3/25/2009	7:00 - 7:30	0.50	WO/REP	48		P		HSM, PICKING UP TBG OFF FLOAT AND WORKING W/ FOAM UNIT.
	7:30 - 17:00	9.50	WO/REP	31	I	P		SICP 650 PSI, SITP 675 PSI. OPEN CSG TO FB TNK, KILL TBG W/ 30 BBLS 2%. RIH W/ REM 180 JTS 23/8 OUT OF DRK, TOTAL 224 JTS IN. PU 8 JTS OFF FLOAT ATG UP @ 7209' RU SWIVEL INSATLL TSF, BROKE CIRC W/ AIR/FOAM IN 1/2 HR. C/O 23' SAND DWN TO 7232' DRL UP CBP IN 1/2HR HAD 200# INCREASE. RIH TO 7288' HANG SWIVEL POOH 3 JTS KILL TBG W/ 20 BBLS 2% REM TSF, RIH 3 JTS. PU 63 JTS OFF TRAILOR TO 9310' PBTD @ 9485' NOTHING TAGGED. RU BREAK CIRC W/ AIR FAOM, IN 1HR CIRC WELL CLEAN. KILL TBG W/ 20 BBLS 2%, L/D 68 JTS 23/8 L-80. POOH W/ 100 JTS IN DRK EOT @ 4710' SWI SDFN.
3/26/2009	7:00 - 7:30	0.50	WO/REP	48		P		HSM, TRIPPING TBG
	7:30 - 16:00	8.50	WO/REP	31	I	P		SICP PSI 1050, SITP PSI 1400, OPEN CSG TO FB TNK, KILL TBG W 30 BBLS 2% KCL,POOH W/ REM 2 3/8 TBG, LD MILL, PU 1.875 XN, RIH W/ TBG, BROACHING EVERY 30 STDS, TOTAL 250 JTS LANDED, ALL TBG BROACHED GOOD. KILL TBG W/ 20 BBLS 2% LAND TBG RD FLOOR, ND BOPS, NU WH SWI.SDFN WIND BLOWING TO HARD TO RIG DWN.
								KB 18' 41/2 HANGER .83' 250 JTS 23/8 L-80, 7780.41' 1.875 X/N NOTCHED 1.05' X/N @ 7799.24' EOT @ 7800.29'
								30 TWTR.

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-22792

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

6. IF INDIAN, ALLOTTEE OR TRIBE NAME

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

7. UNIT or CA AGREEMENT NAME
UNIT #891008900A

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

8. WELL NAME and NUMBER:
NBU 1021-19N

2. NAME OF OPERATOR:
KERR MCGEE OIL & GAS ONSHORE LP

9. API NUMBER:
4304739008

3. ADDRESS OF OPERATOR: **1368 S 1200 E** CITY **VERNAL** STATE **UT** ZIP **84078** PHONE NUMBER: **(435) 781-7024**

10. FIELD AND POOL, OR WILDCAT
NATURAL BUTTES

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: **462'FSL, 1845'FWL**

AT TOP PRODUCING INTERVAL REPORTED BELOW:

AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN:
SESW 19 10S 21E

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

14. DATE SPUDED: **6/26/2007** 15. DATE T.D. REACHED: **7/19/2007** 16. DATE COMPLETED: **3/24/2009** ABANDONED READY TO PRODUCE

17. ELEVATIONS (DF, RKB, RT, GL):
5212'GL

18. TOTAL DEPTH: MD **9,530** TVD _____ 19. PLUG BACK T.D.: MD **9,485** TVD _____ 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)
N/A

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 H-40	32.3#		2,060		570			
7 7/8"	4 1/2 I-80	11.6#		9,530		1546			

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"	7,800							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	6,052	7,222		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
6,052 7,222	0.36	212	Open <input checked="" type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>
			Open <input type="checkbox"/> Squeezed <input type="checkbox"/>

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6052'-7222'	PMP 6330 BBLs SLICK H2O & 239,438# 30/50 SD

29. ENCLOSED ATTACHMENTS:

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

30. WELL STATUS:

PROD

RECEIVED

MAY 18 2009

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED: 3/24/2009	TEST DATE: 3/28/2009	HOURS TESTED: 24	TEST PRODUCTION RATES: →	OIL - BBL: 0	GAS - MCF: 432	WATER - BBL: 350	PROD. METHOD: FLOWING
CHOKE SIZE: 20/64	TBG. PRESS. 292	CSG. PRESS. 507	API GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	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: →	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: →	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: →	INTERVAL STATUS:

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

SOLD

33. SUMMARY OF POROUS ZONES (Include Aquifers):

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

34. FORMATION (Log) MARKERS:

Formation	Top (MD)	Bottom (MD)	Descriptions, Contents, etc.	Name	Top (Measured Depth)
BIRDS NEST	1,237				
GREEN RIVER	1,103				
MAHOGANY	1,791				
WASATCH	4,357	4,690			
MESAVERDE	7,363	9,152			

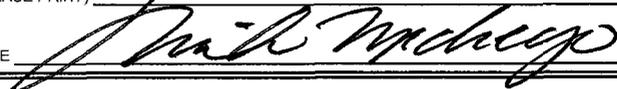
35. ADDITIONAL REMARKS (Include plugging procedure)

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

NAME (PLEASE PRINT) SHEILA UPCHEGO

TITLE REGULATORY ANALYST

SIGNATURE



DATE 5/8/2009

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
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