Form 3160-3
(August 1999)

FORM APPROVED
OMB No. 1004-0136
Expires November 30, 2000

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.: UT ST ML-3282

6. If Indian, Allottee or Tribe Name: TRIBAL SURFACE

7. If Unit or CA Agreement, Name and No.: UNIT #891008900A

8. Lease Name and Well No.: NBU 921-16HT

1a. Type of Work: [X] DRILL [ ] REENTER

b. Type of Well: [ ] Oil Well [X] Gas Well [ ] Other [ ] Single Zone [X] Multiple Zone

9. API Well No.: 43-047-39361

2. Name of Operator: KERR MCGEE OIL AND GAS ONSHORE LP

3A. Address: 1368 SOUTH 1200 EAST VERNAL, UT 84078

3b. Phone No. *(include area code)*: (435) 781-7024

10. Field and Pool, or Exploratory: NATURAL BUTTES

4. Location of Well *(Report location clearly and in accordance with any State requirements.*)*

At surface: SE/NE 1858'FNL, 1013'FEL 623688X 40.038247 4432799Y -109.550232

At proposed prod. Zone

11. Sec., T., R., M., or Blk, and Survey or Area: SEC. 16, T9S, R21E

12. County or Parish: UINTAH

13. State: UTAH

14. Distance in miles and direction from nearest town or post office*: 12.8 +/- MILES SOUTHEAST OF OURAY, UTAH

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drlg. unit line, if any): 1013'

16. No. of Acres in lease: 280.00

17. Spacing Unit dedicated to this well: 40.00

18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft.: REFER TO TOPO C

19. Proposed Depth: 10,320'

20. BLM/BIA Bond No. on file: RLB0005239

21. Elevations (Show whether DF, KDB, RT, GL, etc.): 4867'GL

22. Approximate date work will start*: UPON APPROVAL

23. Estimated duration: TO BE DETERMINED

24. Attachments

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

1. Well plat certified by a registered surveyor.
2. A Drilling Plan.
3. A Surface Use Plan (if the location is on National Forest System Lands, the SUPO shall be filed with the appropriate Forest Service Office.
4. Bond to cover the operations unless covered by an existing bond on file (see Item 20 above).
5. Operator certification.
6. Such other site specific information and/or plans as may be required by the authorized office.

25. Signature: Sheila Upchego — Name *(Printed/Typed)*: SHEILA UPCHEGO — Date: 6/4/2007

Title: SENIOR LAND ADMIN SPECIALIST

Approved by *(Signature)*: — Name *(Printed/Typed)*: BRADLEY G. HILL — Date: 11-08-07

Title — Office: ENVIRONMENTAL MANAGER

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon.

Conditions of approval, if any, are attached.

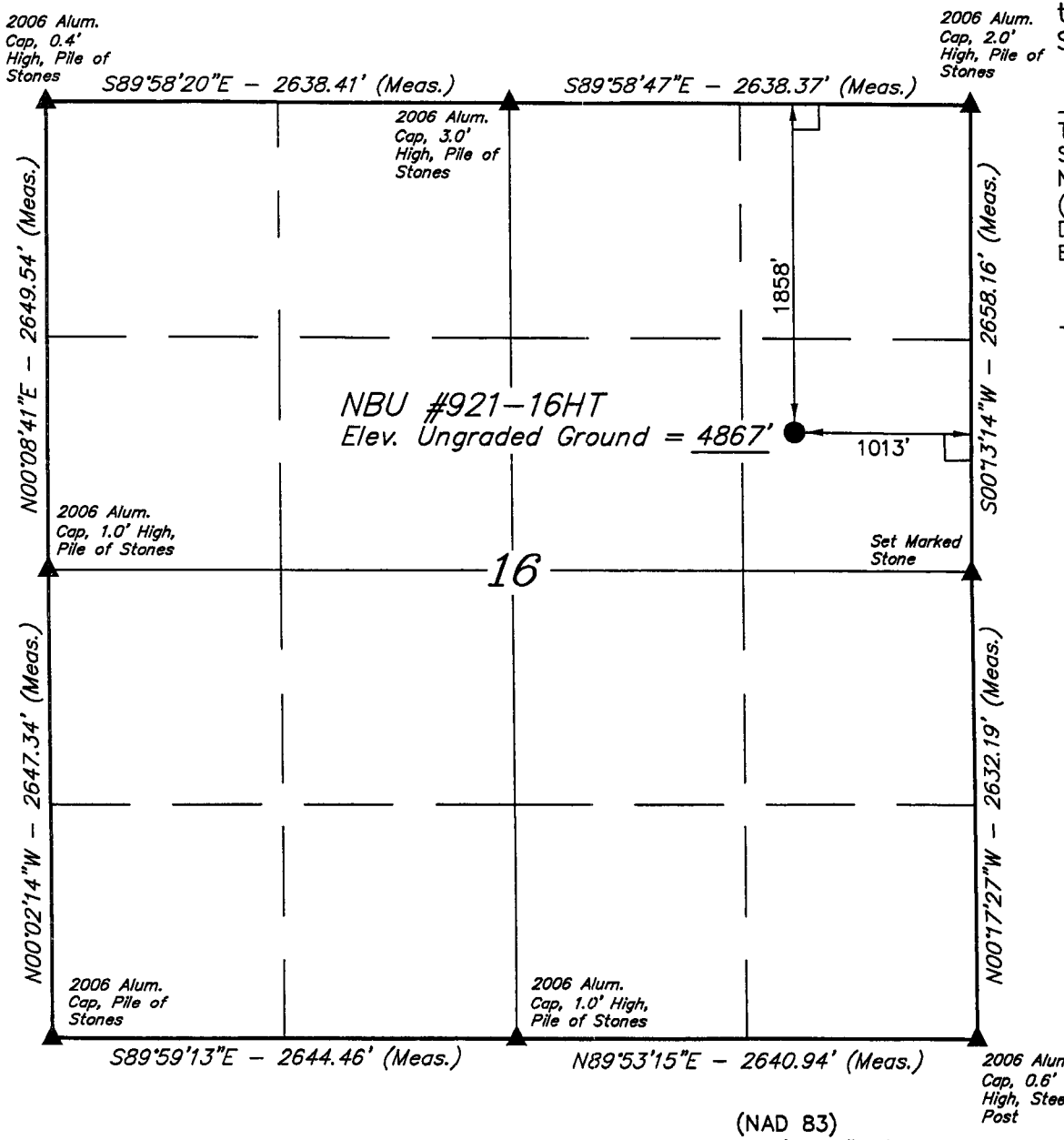
Title 18 U.S.C. Section 1001and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

**(Instructions on reverse)*

Federal Approval of this Action is Necessary

RECEIVED
JUN 11 2007
DIV. OF OIL, GAS & MINING

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



Kerr-McGee Oil & Gas Onshore LP

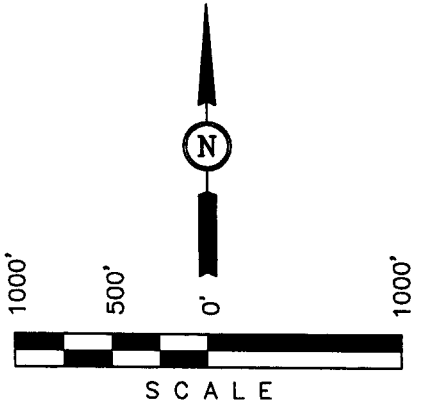
Well location, NBU #921-16HT, located as shown in the SE 1/4 NE 1/4 of Section 16, T9S, R21E, S.L.B.&M., Uintah County, Utah.

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, UINTAH 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.

BASIS OF BEARINGS

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



CERTIFICATE

THIS IS TO CERTIFY THAT THE ABOVE PLAT WAS PREPARED FROM FIELD NOTES OF ACTUAL SURVEYS MADE BY ME OR UNDER MY SUPERVISION AND THAT THE SAME ARE TRUE AND CORRECT TO THE BEST OF MY KNOWLEDGE AND BELIEF. NO. 161319

REGISTERED LAND SURVEYOR
REGISTRATION NO. 161319
STATE OF UTAH

(NAD 83)
LATITUDE = 40°02'17.79" (40.038275)
LONGITUDE = 109°33'03.48" (109.550967)

(NAD 27)
LATITUDE = 40°02'17.92" (40.038311)
LONGITUDE = 109°33'01.00" (109.550278)

LEGEND:

└ = 90° SYMBOL
● = PROPOSED WELL HEAD.
▲ = SECTION CORNERS LOCATED.

UINTAH ENGINEERING & LAND SURVEYING
85 SOUTH 200 EAST - VERNAL, UTAH 84078
(435) 789-1017

SCALE: 1" = 1000'	DATE SURVEYED: 03-28-07	DATE DRAWN: 04-03-07
PARTY: L.K. J.A. C.H.	REFERENCES: G.L.O. PLAT	
WEATHER: COOL	FILE: Kerr-McGee Oil & Gas Onshore LP	

NBU 921-16HT
SE/NE Sec. 16, T9S, R21E
UINTAH COUNTY, UTAH
UT ST ML-3282

ONSHORE ORDER NO. 1

DRILLING PROGRAM

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

Formation	Depth
Uinta	0- Surface
Green River	1767'
Top of Birds Nest Water	2090'
Mahogany	2476'
Wasatch	5192'
Mesaverde	8138'
MVU2	9105'
MVL1	9678'
TD	10,320'

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

Substance	Formation	Depth
	Green River	1767'
	Top of Birds Nest Water	2090'
	Mahogany	2476'
Gas	Wasatch	5192'
Gas	Mesaverde	8138'
Gas	MVU2	9105'
Gas	MVL1	9678'
Water	N/A	
Other Minerals	N/A	

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

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

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

Please see the Natural Buttes Unit SOP.

5. **Drilling Fluids Program:**

Please see the Natural Buttes Unit SOP.

6. **Evaluation Program:**

Please see the Natural Buttes Unit SOP.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 10,320' TD, approximately equals 6398 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 4128 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variances:**

Please see Natural Buttes Unit SOP.

10. **Other Information:**

Please see Natural Buttes Unit SOP.

KERR-McGEE OIL & GAS ONSHORE LP

DRILLING PROGRAM

COMPANY NAME	KERR-McGEE OIL & GAS ONSHORE LP		DATE	May 31, 2007	
WELL NAME	**NBU 921-16HT**		TD	10,320' MD/TVD	
FIELD	Natural Buttes	COUNTY Uintah	STATE Utah	ELEVATION 4,867' GL	KB 4,882'
SURFACE LOCATION	SENE, SEC 16-T9S-R21E, 1858' FNL 1013' FEL				BHL Straight Hole
	Latitude: 40.038275	Longitude: 109.550967			
OBJECTIVE ZONE(S)	Wasatch/Mesaverde				
ADDITIONAL INFO	Regulatory Agencies: TRIBAL SURF & BLM MINERALS, UDOGM, Tri-County Health Dept.				

GEOLOGICAL FORMATION			DRILLING CASING		
LOGS	TOP @	DEPTH	HOLE SIZE	CASING SIZE	MUD WEIGHT
		40'	14"		
			12-1/4"	9-5/8", 32.3#, H-40, STC	Air mist
				**For wells w/ surf csg set below 2200' app 10 jts of 36# J55 will be run on bottom	
Catch water sample, if possible, from 0 to 5,192'					
	Green River @	**1,767'**			
	Top of Birds Nest Water @	**2,090'**			
	Mahogany @	**2,476'**			
	Preset f/ GL @ 2,700' MD				
			7-7/8"	4-1/2",11.6#, I-80 or equivalent LTC casing	Water/Fresh Water Mud 8.3-11.8 ppg
Mud logging program TBD Open hole logging program f/ TD - surf csg					
	Wasatch @	**5,192'**			
	Mverde @	**8,138'**			
	MVU2 @	**9,105'**			
	MVL1 @	**9,678'**			
	TD @	**10,320'**			Max anticipated Mud required 11.8 ppg

Note: 12.25" surface hole will usually be drilled ±400' below the bottom of lost circulation zone. Drilled depth may be ±200' of the estimated set depth depending on the acutal depth of the loss zone.

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	2300	32.30	H-40	STC	0.56*******	1.27	3.33
								3520	2020	564000
	9-5/8"	2300	to	2700	36.00	J-55	STC	1.12*******	1.60	7.39
								7780	6350	201000
PRODUCTION	4-1/2"	0	to	10320	11.60	I-80	LTC	1.92	1.00	1.92

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 = 11.8 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 4062 psi

******** Burst SF is low but csg is stronger than formation at 2700 feet

******** EMW @ 2700 for 2270# is 16.2 ppg or 0.8 psi/ft

CEMENT PROGRAM

		FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE	LEAD	500	Premium cmt + 2% CaCl	215	60%	15.60	1.18
Option 1			+ 25 pps flocele				
	TOP OUT CMT (1)	250	20 gals sodium silicate + Premium cmt	100		15.60	1.18
			+ 2% CaCl + 25 pps flocele				
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE			**NOTE: If well will circulate water to surface, option 2 will be utilized**				
Option 2	LEAD	2000	Prem cmt + 16% Gel + 10 pps gilsonite	230	35%	11.00	3.82
			+.25 pps Flocele + 3% salt BWOC				
	TAIL	500	Premium cmt + 2% CaCl	180	35%	15.60	1.18
			+ 25 pps flocele				
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	4,690'	Premium Lite II + 3% KCl + 0.25 pps	510	60%	11.00	3.38
			celloflake + 5 pps gilsonite + 10% gel				
			+ 0.5% extender				
	TAIL	5,630'	50/50 Poz/G + 10% salt + 2% gel	1570	60%	14.30	1.31
			+ 1% R-3				

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

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

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. 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

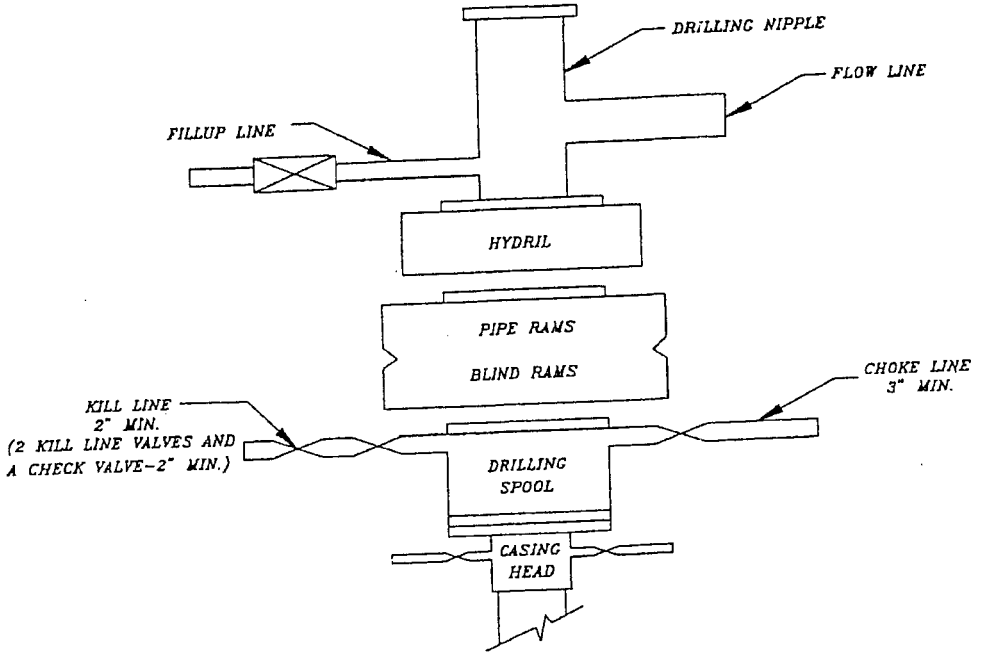
DRILLING ENGINEER: _____ **DATE:** _____

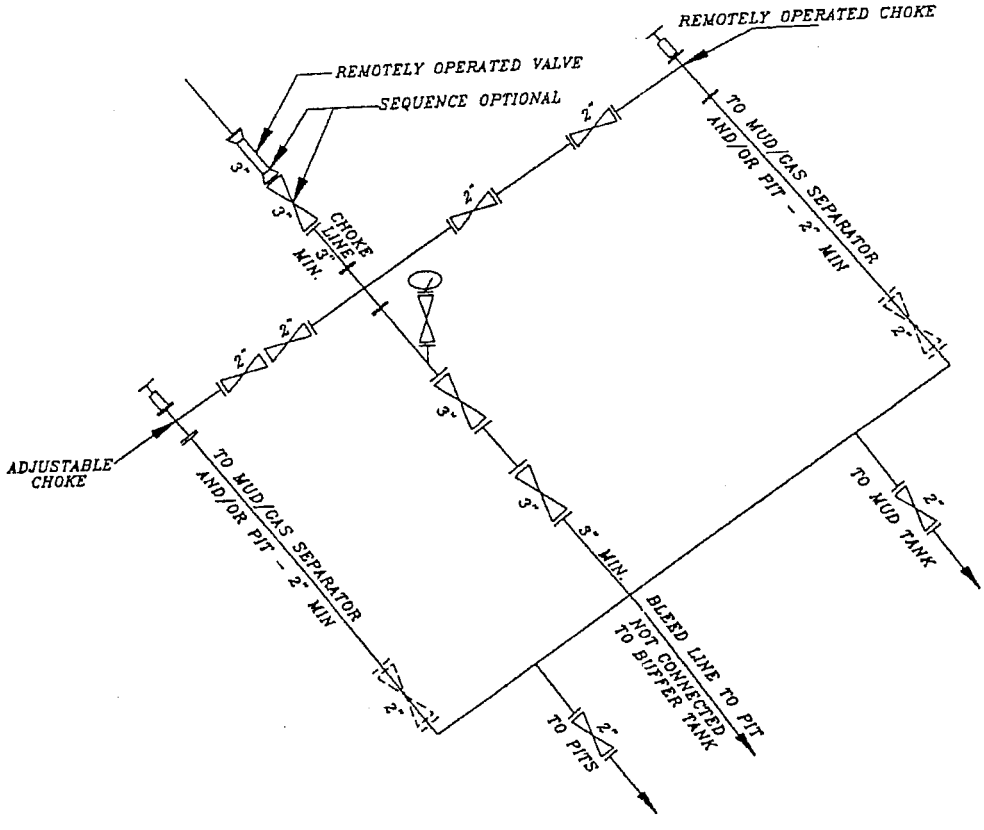
Brad Laney

DRILLING SUPERINTENDENT: _____ **DATE:** _____

Randy Bayne

5M BOP STACK and CHOKE MANIFOLD SYSTEM





NBU 921-16HT
SE/NE SEC. 16, T9S, R21E
UINTAH COUNTY, UTAH
UT ST ML-3282

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. **Existing Roads:**

Refer to the attached location directions.

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

2. **Planned Access Roads:**

Please see the Natural Buttes Unit Standard Operating Procedure (SOP).

The operator will utilize the existing access road. Please refer to the attached Topo Map B.

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

Please refer to Topo Map C.

4. **Location of Existing & Proposed Facilities:**

Please see the Natural Buttes Unit SOP.

Approximately 972' +/- of 4" steel low pressure pipeline and Approximately 2378' +/- of 4" high pressure pipeline and Approximately 2395' of 4" high pressure pipelines is proposed from the location to an existing pipeline. Refer to the attached Topo Map D.

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 requested color is Carlsbad Canyon Brown (2.5Y 6/2), a non-reflective earthtone.

5. **Location and Type of Water Supply:**

Please see the Natural Buttes SOP.

6. **Source of Construction Materials:**

Please see the Natural Buttes SOP.

7. **Methods of Handling Waste Materials:**

Please see the Natural Buttes SOP.

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 *(Request is in lieu of filing Form 3160-5, after initial production).*

8. **Ancillary Facilities:**

Please see the Natural Buttes SOP.

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.

Culverts will be installed where needed.

A run off diversion for drainage will be constructed where needed.

The reserve pit will be lined. When the reserve pit is closed the pit liner will be buried below plow depth.

Location size may change prior to the drilling of the well due to the 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 3160-5 will be submitted.

10. **Plans for Reclamation of the Surface:**

Please see the Natural Buttes SOP.

11. **Surface Ownership:**

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

Ute Indian Tribe
P.O. Box 70
Fort Duchesne, Utah 84026
(435) 722-5141

12. **Other Information:**

A Class III Archaeological Survey Report has been conducted for this location and submitted to the Ute Indian Tribe prior to the on-site inspection.

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 boundaries of the unit.

13. **Lessee's or Operator's Representative & Certification:**

Sheila Ucphego
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.

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 the terms and conditions of the lease for the operations conducted upon leased lands.

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.

Bond coverage pursuant to 43 CFR 3104 for lease activities is being provided by Bureau of Indian Affairs Nationwide Bond #RLB0005239, Bureau of Land Management Nationwide Bold #WYB000291 and State of Utah 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

6/4/2007
Date

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT
SECTION 16, T9S, 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 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 3.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY DIRECTION APPROXIMATELY 1.8 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY DIRECTION APPROXIMATELY 3.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN LEFT AND PROCEED IN A SOUTHEASTERLY, THEN EASTERLY, THEN NORTHEASTERLY DIRECTION APPROXIMATELY 1.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE NORTHWEST; TURN LEFT AND PROCEED IN A NORTHWESTERLY DIRECTION APPROXIMATELY 0.2 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE WEST; TURN LEFT AND PROCEED IN A WESTERLY, THEN SOUTHWESTERLY, THEN NORTHWESTERLY DIRECTION APPROXIMATELY 0.3 MILES TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 43.8 MILES.

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 16, T9S, R21E, S.L.B.&M.

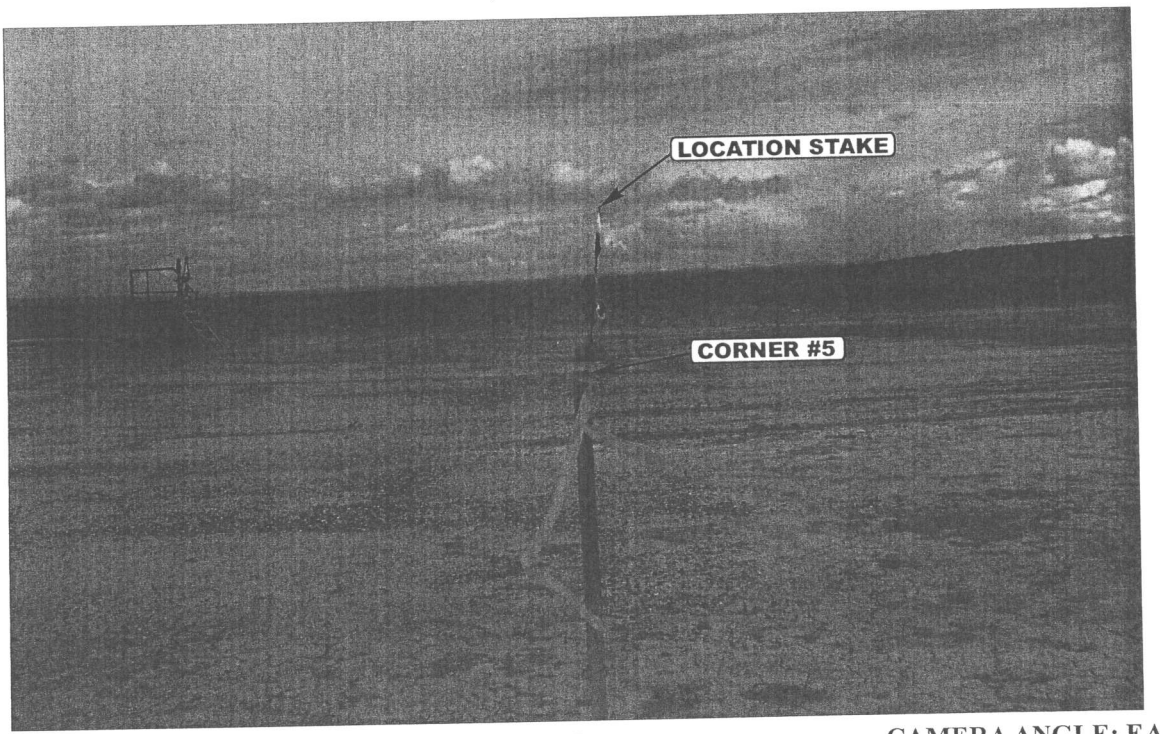


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: EASTERLY

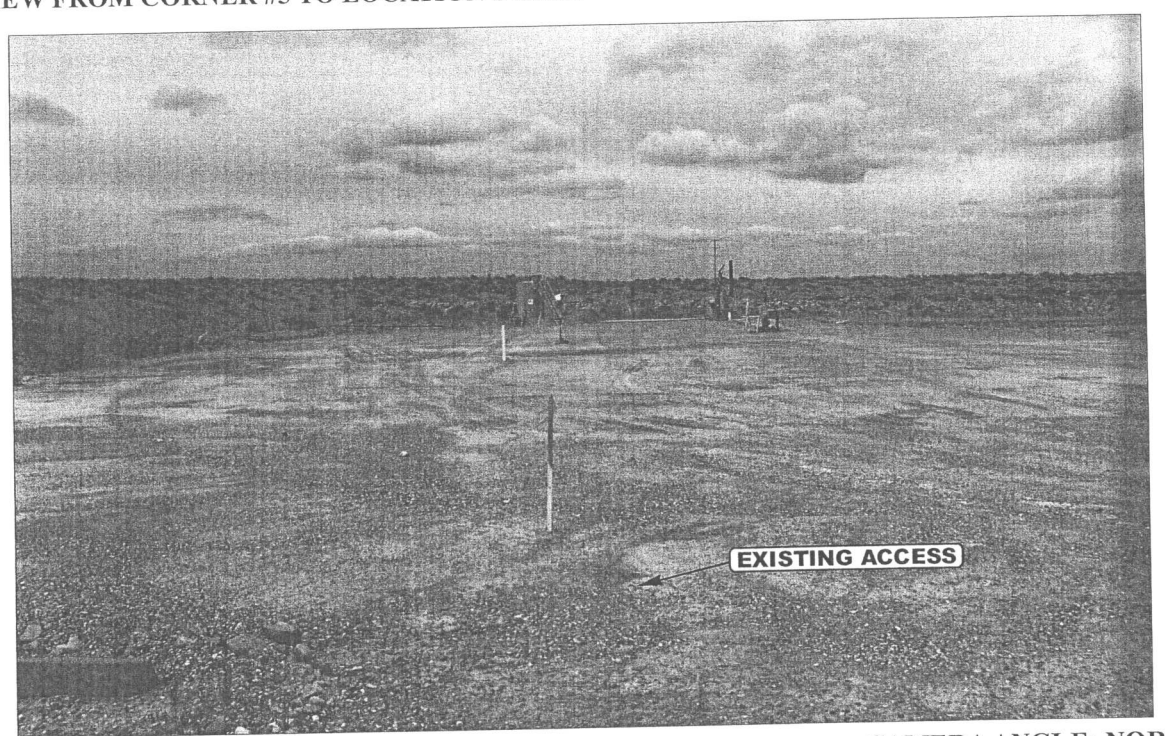
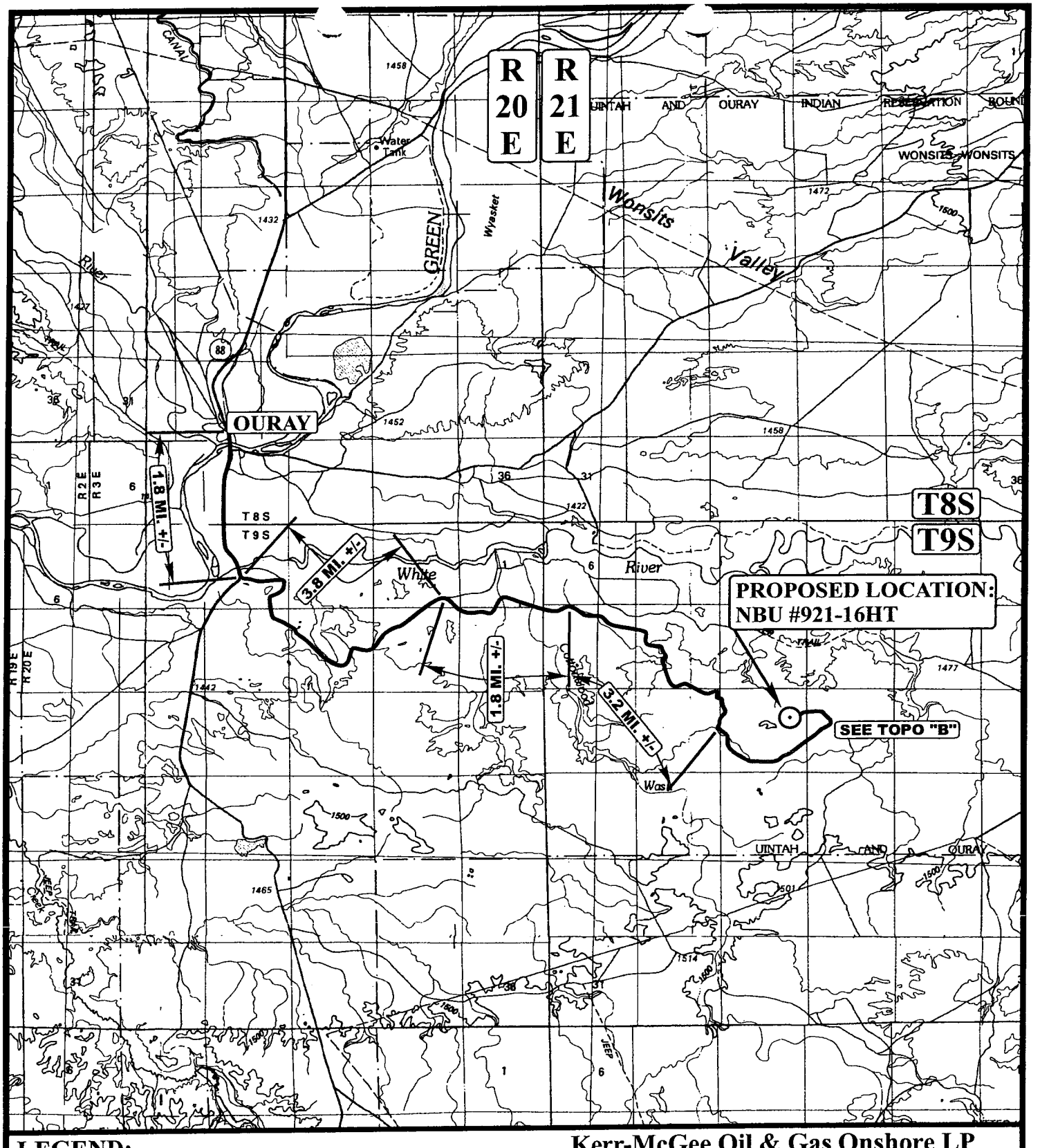


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: NORTHERLY

- Since 1964 -
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

LOCATION PHOTOS	03 MONTH	29 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: L.K.	REVISED: 00-00-00		



LEGEND:

⊙ PROPOSED LOCATION

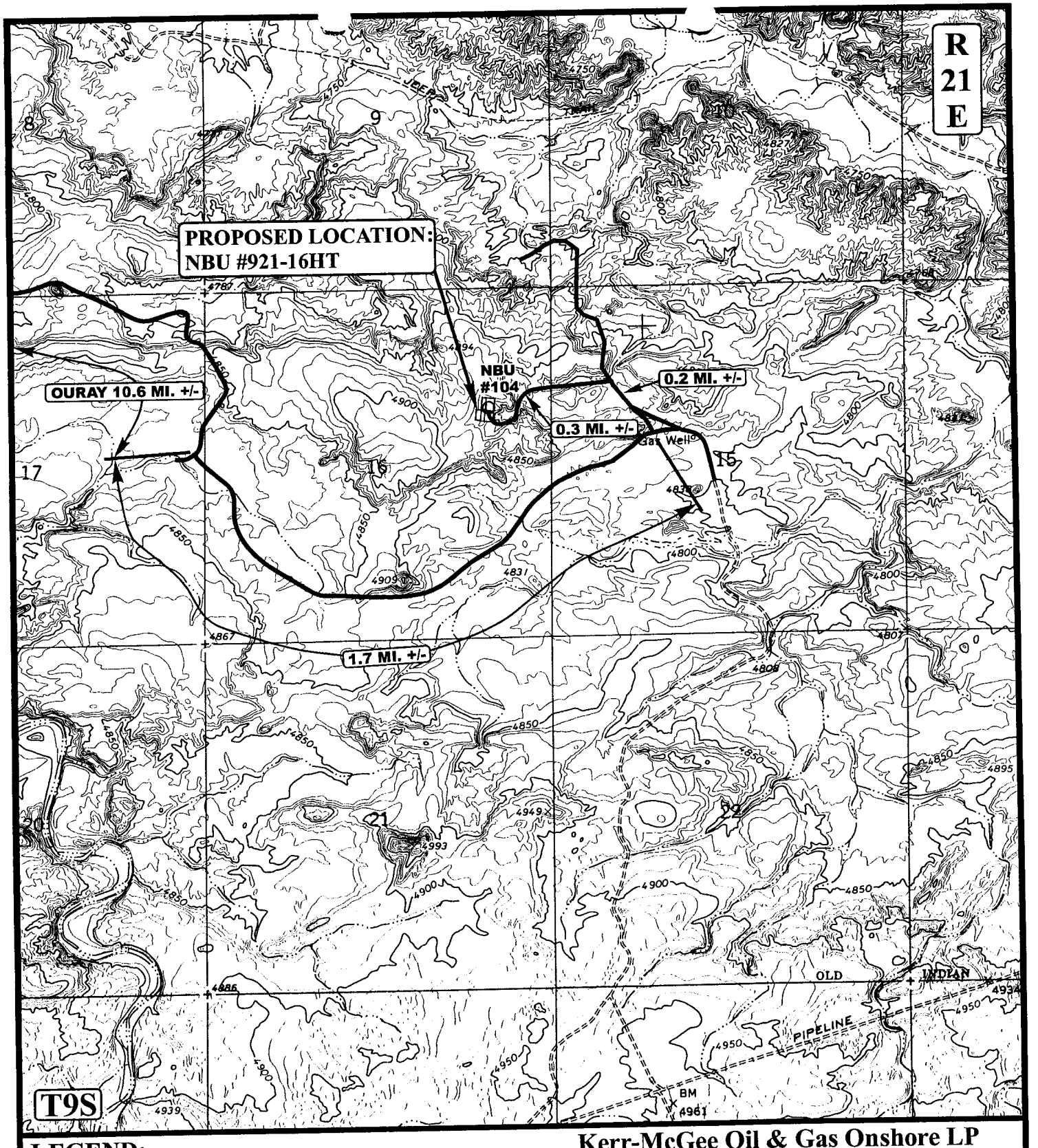
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT
SECTION 16, T9S, R21E, S.L.B.&M.
1858' FNL 1013' FEL

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

TOPOGRAPHIC MAP	03 MONTH	29 DAY	07 YEAR
SCALE: 1:100,000	DRAWN BY: L.K.	REVISED: 00-00-00	A TOPO



LEGEND:

EXISTING ROAD

PROPOSED ACCESS ROAD

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT

SECTION 16, T9S, R21E, S.L.B.&M.

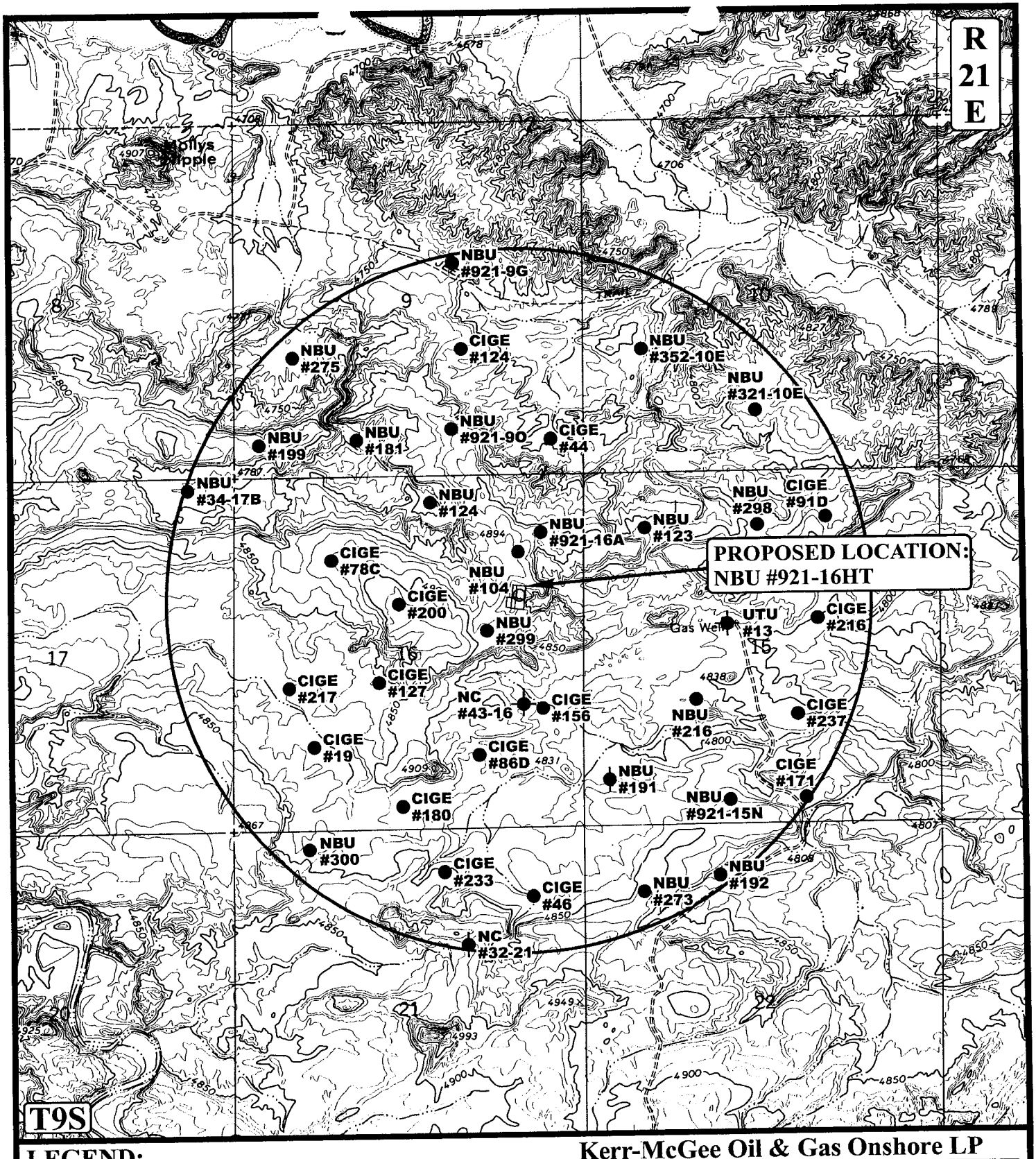
1858' FNL 1013' FEL

Uintah Engineering & Land Surveying

85 South 200 East Vernal, Utah 84078

(435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC MAP	03 MONTH	29 DAY	07 YEAR	B TOPO
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 00-00-00		



LEGEND:

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

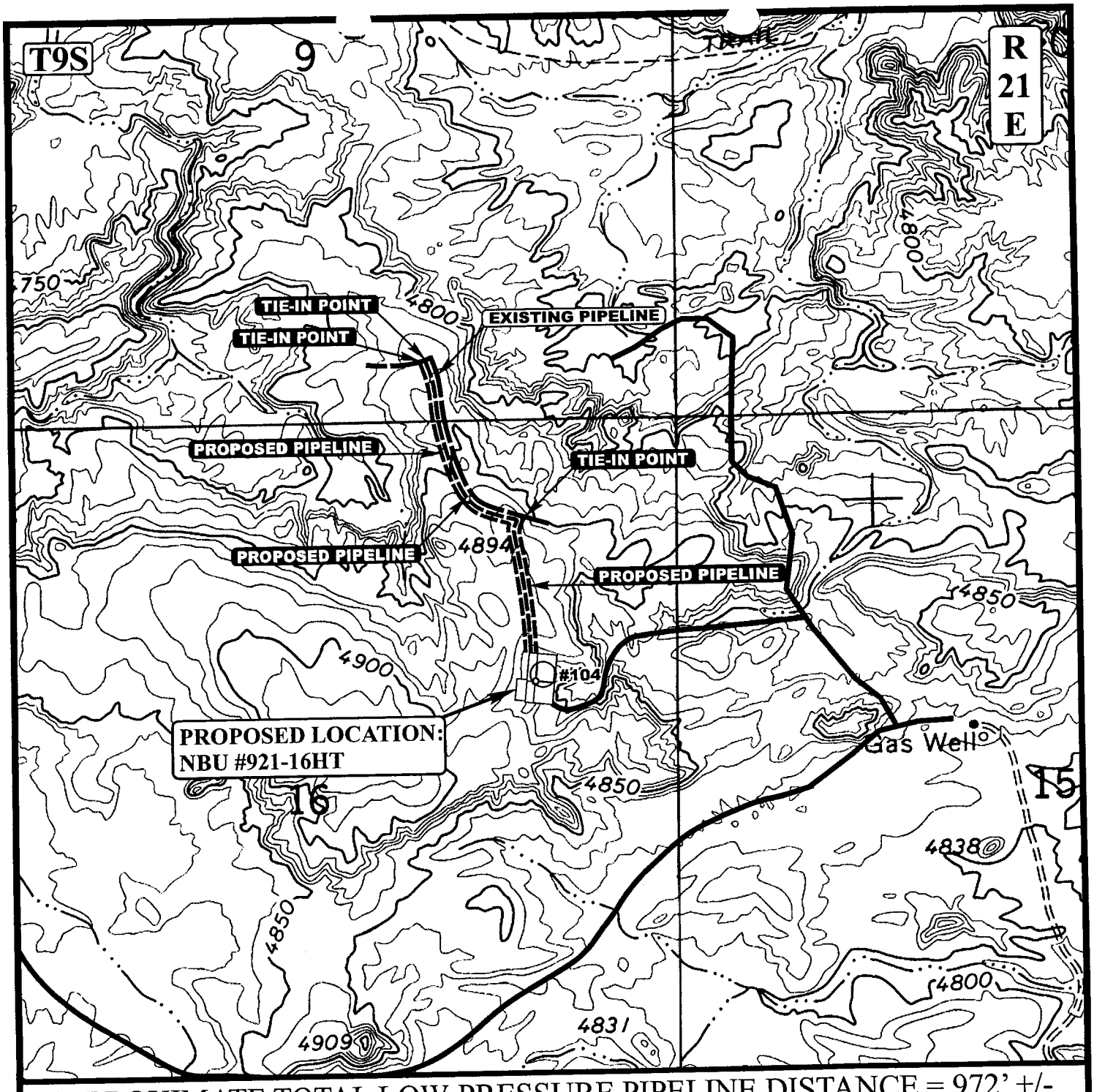
N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT
SECTION 16, T9S, R21E, S.L.B.&M.
1858' FNL 1013' FEL

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

TOPOGRAPHIC MAP	03 MONTH	29 DAY	07 YEAR
SCALE: 1" = 2000'	DRAWN BY: L.K.	REVISED: 00-00-00	C TOPO



APPROXIMATE TOTAL LOW-PRESSURE PIPELINE DISTANCE = 972' +/-

APPROXIMATE TOTAL HIGH-PRESSURE PIPELINE DISTANCE = 2,378' +/-

APPROXIMATE TOTAL HIGH-PRESSURE PIPELINE DISTANCE = 2,395' +/-

LEGEND:

PROPOSED ACCESS ROAD
EXISTING PIPELINE
PROPOSED PIPELINE
PROPOSED PIPELINE (SERVICING OTHER WELLS)

N

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT
SECTION 16, T9S, R21E, S.L.B.&M.
1858' FNL 1013' FEL

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

TOPOGRAPHIC MAP	03 MONTH	29 DAY	07 YEAR	D TOPO
SCALE: 1" = 1000'	DRAWN BY: L.K.	REVISED: 04-24-07C.P.		

Kerr-McGee Oil & Gas Onshore LP

NBU #921-16HT

PIPELINE ALIGNMENT

LOCATED IN UINTAH COUNTY, UTAH
SECTION 16, T9S, R21E, S.L.B.&M.

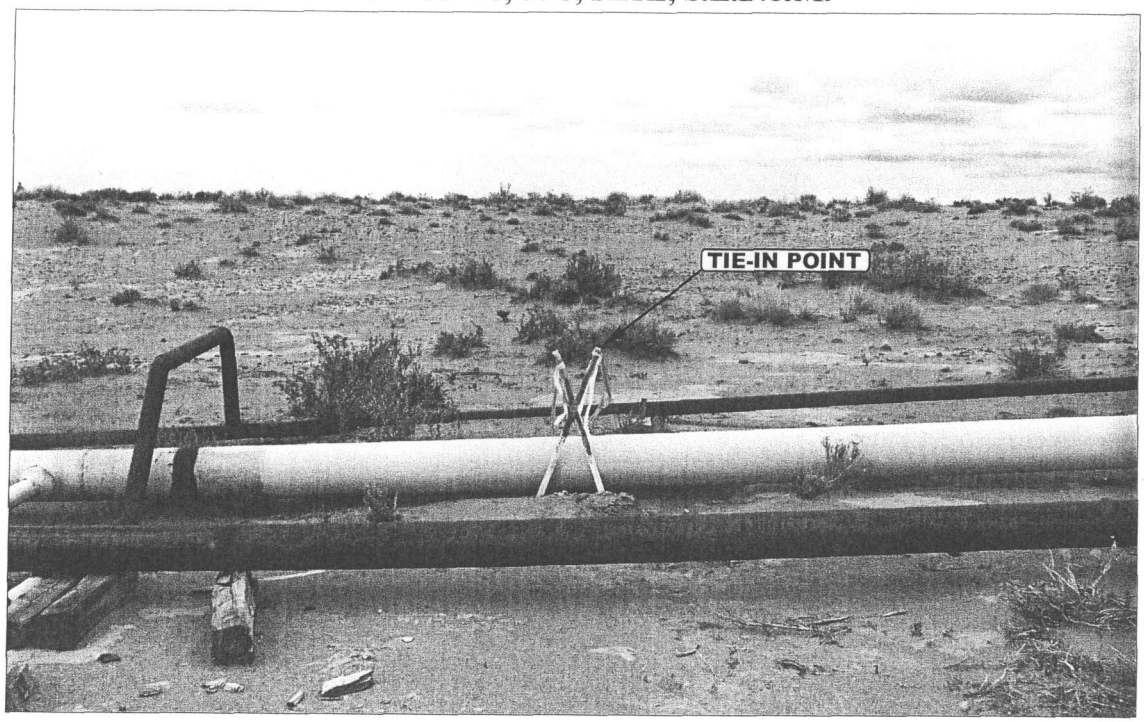


PHOTO: VIEW FROM TIE-IN POINT **CAMERA ANGLE: SOUTHEASTERLY**

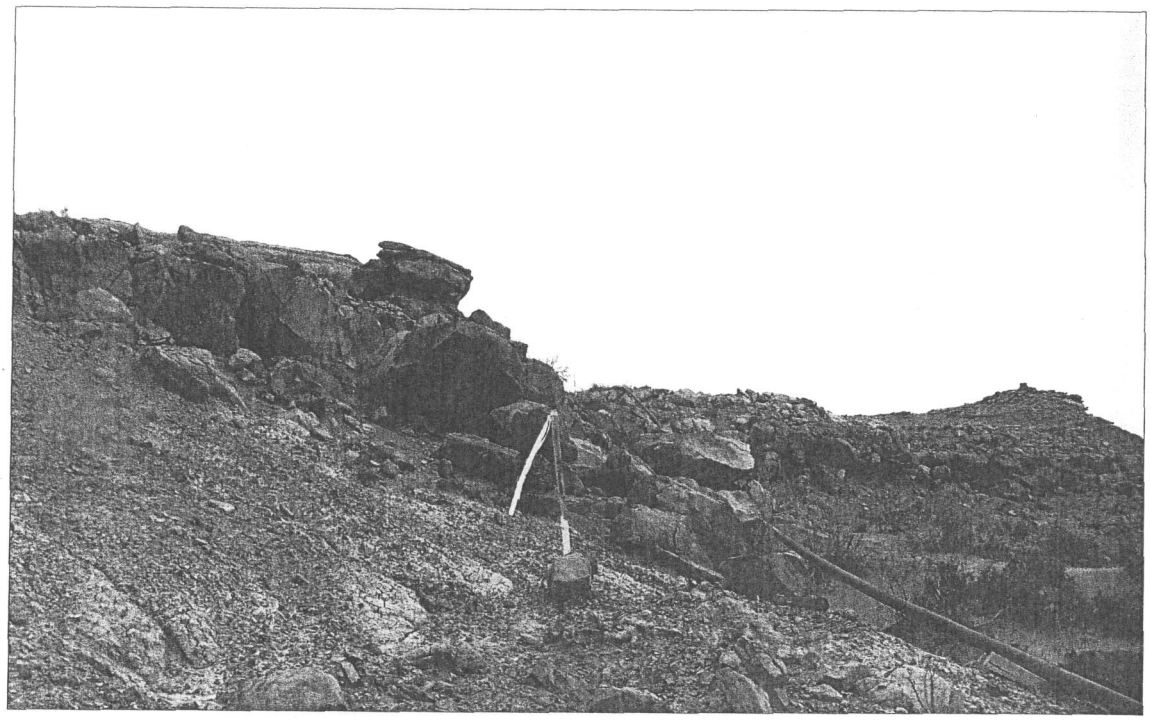


PHOTO: VIEW OF PIPELINE ALIGNMENT **CAMERA ANGLE: SOUTHEASTERLY**

- Since 1964 -

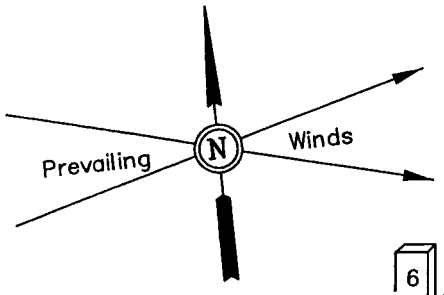
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	03 MONTH	29 DAY	07 YEAR	PHOTO
TAKEN BY: L.K.	DRAWN BY: L.K.	REVISED: 00-00-00		

Kerr-McGee Oil & Gas Onshore LP

LOCATION LAYOUT FOR

NBU #921-16HT
SECTION 16, T9S, R21E, S.L.B.&M.
1858' FNL 1013' FEL



SCALE: 1" = 50'
DATE: 04-03-07
Drawn By: C.H.

Existing Drainage
Approx. Toe of Fill Slope
F-3.1'
El. 63.5'
F-1.2'
El. 65.4'
F-0.6'
El. 66.0'
Sta. 3+50
58'
Tank Berm
180'
Existing Separator
Existing Pad
Existing Pit
Topsoil Stockpile
PIPE TUBS
CATWALK
PIPE RACKS
NBU #104
NOTE:
Flare Pit is to be located a min. of 100' from the Well Head.
FLARE PIT
Pit Topsoil
El. 75.2'
C-18.6'
(btm. pit)
Blooie Line
F-0.1'
El. 66.5'
GRADE
El. 66.6'
135'
RIG
10'
58'
70'
Sta. 1+50
TOILET
C-0.4'
El. 67.0'
F-0.2'
El. 66.4'
MUD TANKS
DOG HOUSE
TRAILER
LIGHT PLANT
BOILER
WATER TANK
PUMP HOUSE
MUD TANKS
RESERVE PITS
(10' Deep)
Total Pit Capacity W/2' of Freeboard = 9,850 Bbls. ±
Total Pit Volume = 2,780 Cu. Yds.
SLOPE 1 1/2 : 1
15' WIDE BENCH
150'
Reserve Pit Backfill & Spoils Stockpile
Sta. 0+50
TRASH
170'
C-3.1'
El. 69.7'
PROPANE STORAGE
Existing Drainage
Round Corners as Needed
Sta. 0+00
15' WIDE BENCH
30'
El. 72.8'
C-16.2'
(btm. pit)
C-0.6'
El. 67.2'
F-6.2'
El. 60.4'
Approx. Top of Cut Slope
C-8.0'
El. 74.6'

REGISTERED LAND SURVEYOR
No. 161319
RANDALL L. MAY
STATE OF UTAH

NOTES:

Elev. Ungraded Ground At Loc. Stake = 4866.6'
FINISHED GRADE ELEV. AT LOC. STAKE = 4866.6'

FIGURE #1

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

Kerr-McGee Oil & Gas Onshore LP

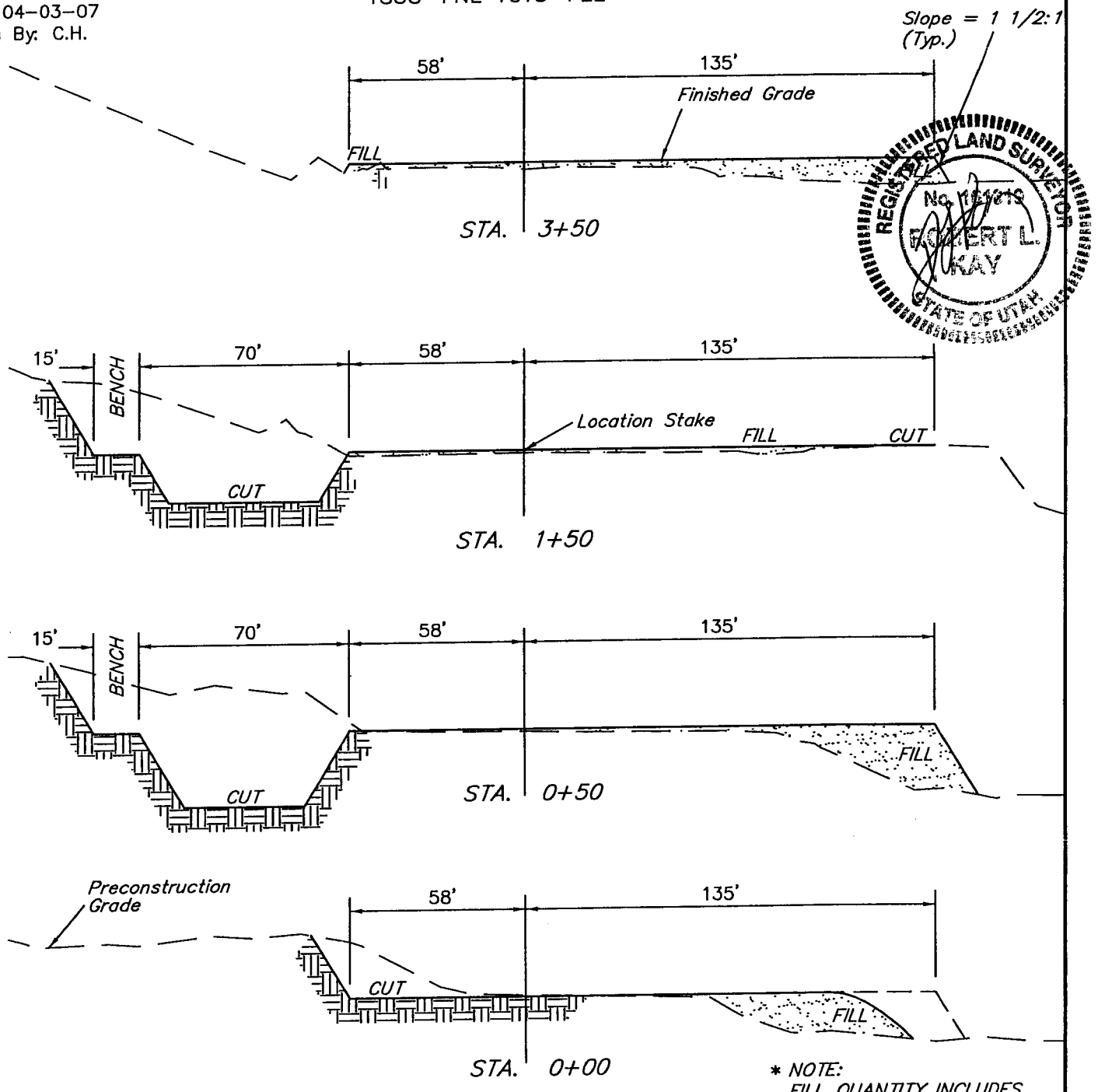
FIGURE #2

TYPICAL CROSS SECTIONS FOR

NBU #921-16HT
SECTION 16, T9S, R21E, S.L.B.&M.
1858' FNL 1013' FEL

1" = 20'
X-Section Scale
1" = 50'

DATE: 04-03-07
Drawn By: C.H.



REGISTERED LAND SURVEYOR
No. 161319
ROBERT L. KAY
STATE OF UTAH

* NOTE:
FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT
(6") Topsoil Stripping New Construction Only = 1,440 Cu. Yds.
Remaining Location = 6,330 Cu. Yds.

TOTAL CUT = 7,770 CU.YDS.
FILL = 5,120 CU.YDS.

EXCESS MATERIAL = 2,650 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.) = 2,830 Cu. Yds.
DEFICIT UNBALANCE (After Interim Rehabilitation) = <180> Cu. Yds.

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

WORKSHEET
APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 06/11/2007

API NO. ASSIGNED: 43-047-39361

WELL NAME: NBU 921-16HT
OPERATOR: KERR-MCGEE OIL & GAS (N2995)
CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:
SENE 16 090S 210E
SURFACE: 1858 FNL 1013 FEL
BOTTOM: 1858 FNL 1013 FEL
COUNTY: UINTAH
LATITUDE: 40.03825 LONGITUDE: -109.5502
UTM SURF EASTINGS: 623688 NORTHINGS: 4432799
FIELD NAME: NATURAL BUTTES (630)

INSPECT LOCATN BY: / /

Tech Review	Initials	Date
Engineering	DRD	11/8/07
Geology		
Surface		

LEASE TYPE: 3 - State
LEASE NUMBER: ML-3282
SURFACE OWNER: 2 - Indian

PROPOSED FORMATION: WSMVD
COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

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

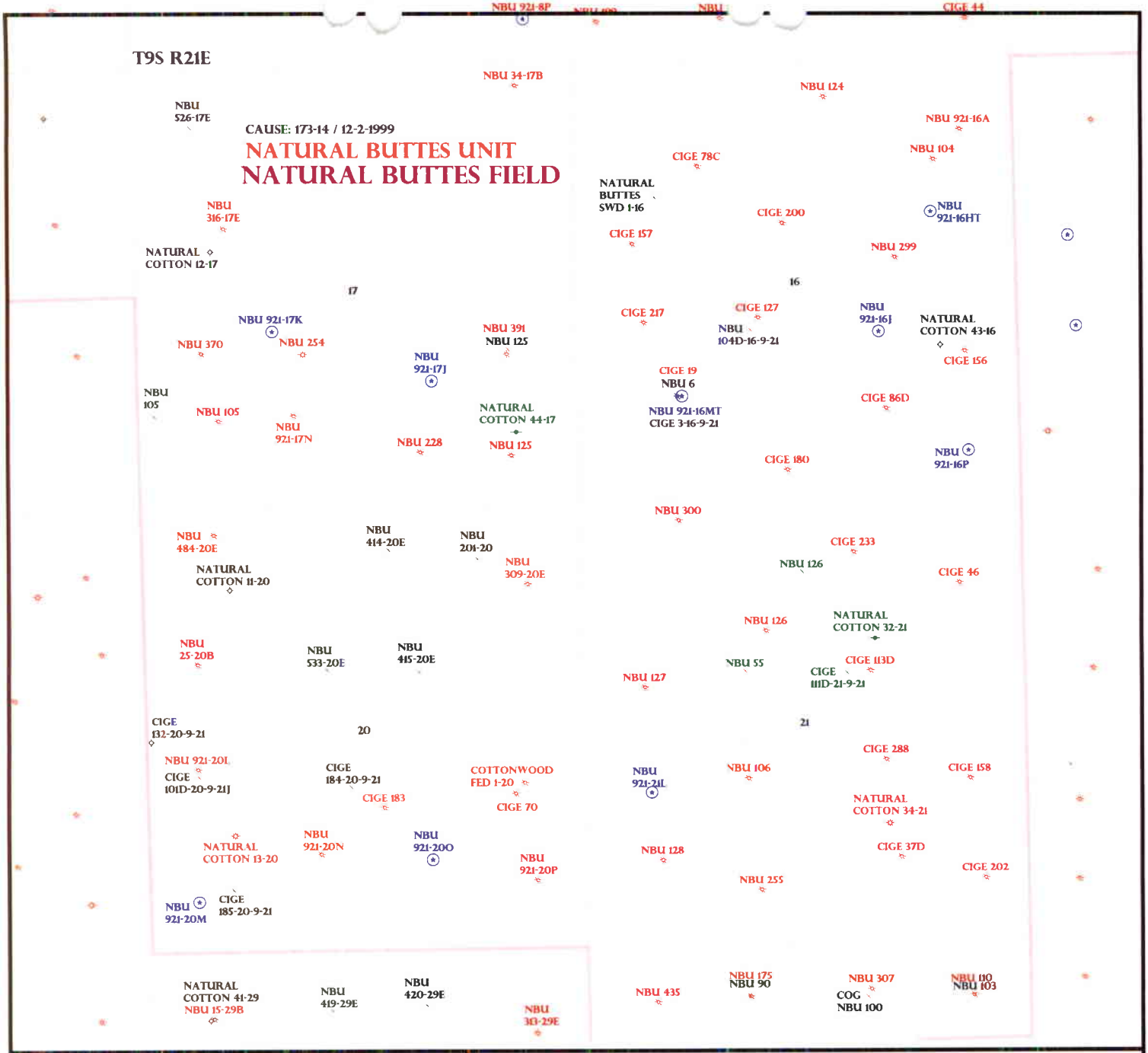
___ R649-3-3. Exception

✓ Drilling Unit
Board Cause No: 173-14
Eff Date: 12-2-99
Siting: 460' fr uldry & Uncomm. Tracts

___ R649-3-11. Directional Drill

COMMENTS: SOP, Separate File

STIPULATIONS:
1- Federal Approval
2- Oil Shale
3- Statement of Basis
4- Surface Csg Cmt Stip



OPERATOR: KERR MCGEE O&G (N9550)

SEC: 16,17,20 T.9S R. 21E

FIELD: NATURAL BUTTES (630)

COUNTY: UINTAH

CAUSE: 173-14 / 12-2-1999

Field Status
- ABANDONED
- ACTIVE
- COMBINED
- INACTIVE
- PROPOSED
- STORAGE
- TERMINATED

Unit Status
- EXPLORATORY
- GAS STORAGE
- NF PP OIL
- NF SECONDARY
- PENDING
- PI OIL
- PP GAS
- PP GEOTHERML
- PP OIL
- SECONDARY
- TERMINATED

Wells Status
- GAS INJECTION
- GAS STORAGE
- LOCATION ABANDONED
- NEW LOCATION
- PLUGGED & ABANDONED
- PRODUCING GAS
- PRODUCING OIL
- SHUT-IN GAS
- SHUT-IN OIL
- TEMP. ABANDONED
- TEST WELL
- WATER INJECTION
- WATER SUPPLY
- WATER DISPOSAL
- DRILLING

Utah Oil Gas and Mining

N
W E
S

PREPARED BY: DIANA MASON

DATE: 14-JUNE-2007

Application for Permit to Drill
Statement of Basis

APD No	API WellNo	Status	Well Type	Surf Ownr	CBM
499	43-047-39361-00-00		GW	I	No

Operator	KERR-MCGEE OIL & GAS ONSHORE, LP	**Surface Owner-APD**	
Well Name	NBU 921-16HT	**Unit**	NATURAL BUTTES
Field	NATURAL BUTTES	**Type of Work**	
Location	SENE 16 9S 21E S 1858 FNL 1013 FEL	GPS Coord (UTM)	623688E 4432799N

Geologic Statement of Basis

Kerr McGee proposes to set 2,700' 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 400'. A search of Division of Water Rights records shows no water wells within a 10,000 foot radius of the center of Section 16. The surface formation at this site is the Uinta Formation. The Uinta Formation is made up of interbedded shales and sandstones. The sandstones are mostly lenticular and discontinuous and should not be a significant source of useable ground water. The proposed surface casing and cement should adequately protect ground water in this area.

Brad Hill	8/9/2007
APD Evaluator	**Date / Time**

Surface Statement of Basis

The surface rights at the proposed location are owned by the Ute Indian Tribe. The operator is responsible for obtaining all required permits and rights-of-way prior to making any surface disturbance or drilling the well.

Brad Hill	8/9/2007
Onsite Evaluator	**Date / Time**

Conditions of Approval / Application for Permit to Drill

Category	Condition
	None.

ON-SITE PREDRILL EVALUATION

Utah Division of Oil, Gas and Mining

Operator KERR-MCGEE OIL & GAS ONSHORE, LP
Well Name NBU 921-16HT
API Number 43-047-39361-0 **APD No** 499 **Field/Unit** NATURAL BUTTES
Location: 1/4,1/4 SENE **Sec** 16 **Tw** 9S **Rng** 21E 1858 FNL 1013 FEL
GPS Coord (UTM) **Surface Owner**

Participants

Regional/Local Setting & Topography

Surface Use Plan

Current Surface Use

New Road Miles	Well Pad Width	Well Pad Length	Src Const Material	Surface Formation

Ancillary Facilities

Waste Management Plan Adequate?

Environmental Parameters

Affected Floodplains and/or Wetland

Flora / Fauna

Soil Type and Characteristics

Erosion Issues

Sedimentation Issues

Site Stability Issues

Drainage Diverson Required

Berm Required?

Erosion Sedimentation Control Required?

Paleo Survey Run? **Paleo Potental Observed?** **Cultural Survey Run?** **Cultural Resources?**

Reserve Pit

Site-Specific Factors	Site Ranking
Distance to Groundwater (feet)	
Distance to Surface Water (feet)	
Dist. Nearest Municipal Well (ft)	
Distance to Other Wells (feet)	
Native Soil Type	
Fluid Type	
Drill Cuttings	
Annual Precipitation (inches)	
Affected Populations	
Presence Nearby Utility Conduits	

Final Score **Sensitivity Level**

Characteristics / Requirements

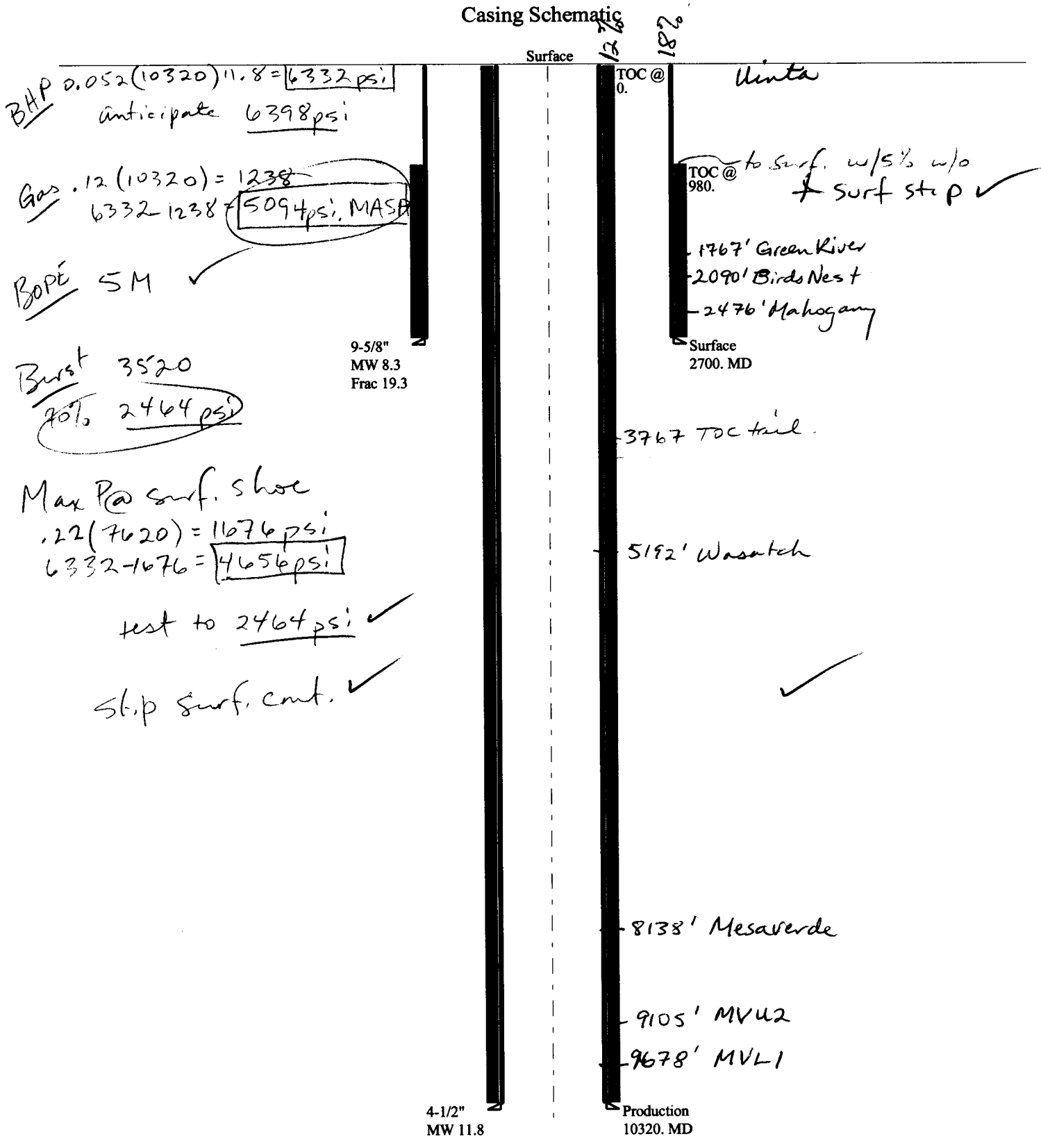
Closed Loop Mud Required?	Liner Required?	Liner Thickness	Pit Underlayment Required?

Other Observations / Comments

Brad Hill	8/9/2007
Evaluator	**Date / Time**

2007-06 Kerr McGee NBU 921-16HT

Casing Schematic



Well name:	**2007-06 Kerr McGee NBU 921-16HT**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Surface
Project ID:	43-047-39361
Location:	Uintah County, Utah

Design parameters:

Collapse
Mud weight: 8.300 ppg
Design is based on evacuated pipe.

Burst
Max anticipated surface pressure: 2,376 psi
Internal gradient: 0.120 psi/ft
Calculated BHP 2,700 psi

No backup mud specified.

Minimum design factors:

Collapse:
Design factor 1.125

Burst:
Design factor 1.00

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

Tension is based on buoyed weight.
Neutral point: 2,368 ft

Environment:
H2S considered? No
Surface temperature: 75 °F
Bottom hole temperature: 113 °F
Temperature gradient: 1.40 °F/100ft
Minimum section length: 1,400 ft

Cement top: 980 ft

Non-directional string.

Re subsequent strings:
Next setting depth: 10,320 ft
Next mud weight: 11.800 ppg
Next setting BHP: 6,326 psi
Fracture mud wt: 19.250 ppg
Fracture depth: 2,700 ft
Injection pressure: 2,700 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 (ft^3)
1	2700	9.625	36.00	J-55	ST&C	2700	2700	8.796	1172

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	1164	2020	1.735	2700	3520	1.30	85	394	4.62 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: June 29,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 2700 ft, a mud weight of 8.3 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:	**2007-06 Kerr McGee NBU 921-16HT**
Operator:	**Kerr McGee Oil & Gas Onshore L.P.**
String type:	Production
Project ID:	43-047-39361
Location:	Uintah County, Utah

Design parameters:

Collapse

Mud weight:	11.800 ppg
Internal fluid density:	2.300 ppg

Burst

Max anticipated surface pressure:	4,056 psi
Internal gradient:	0.220 psi/ft
Calculated BHP	6,326 psi

No backup mud specified.

Minimum design factors:

Collapse:

Design factor	1.125

Burst:

Design factor	1.00

Tension:

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

Tension is based on buoyed weight.
Neutral point: 8,500 ft

Environment:

H2S considered?	No
Surface temperature:	75 °F
Bottom hole temperature:	219 °F
Temperature gradient:	1.40 °F/100ft
Minimum section length:	1,500 ft
Cement top:	Surface

Non-directional string.

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 (ft^3)
1	10320	4.5	11.60	I-80	LT&C	10320	10320	3.875	900.6

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	5093	6360	1.249	6326	7780	1.23	99	212	2.15 J

Prepared by: Helen Sadik-Macdonald
Div of Oil,Gas & Minerals
Phone: (801) 538-5357
FAX: (801) 359-3940
Date: August 29,2007
Salt Lake City, Utah

Remarks:
Collapse is based on a vertical depth of 10320 ft, a mud weight of 11.8 ppg An internal gradient of .119 psi/ft was used for collapse from TD
Collapse strength is based on the Westcott, Dunlop & Kemler method of biaxial correction for tension.

Burst strength is not adjusted for tension.

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

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)

June 18, 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)

43-047-39375 NBU 1021-05MT Sec 05 T10S R21E 0745 FSL 0529 FWL
43-047-39376 NBU 1021-11I Sec 11 T10S R21E 2387 FSL 1247 FEL
43-047-39377 NBU 1021-11O Sec 11 T10S R21E 1192 FSL 2437 FEL
43-047-39378 NBU 1021-11N Sec 11 T10S R21E 1258 FSL 1861 FWL
43-047-39379 NBU 1021-11P Sec 11 T10S R21E 0232 FSL 1170 FEL
43-047-39380 NBU 1021-11M Sec 11 T10S R21E 0425 FSL 1318 FWL
43-047-39381 NBU 1021-11J Sec 11 T10S R21E 2252 FSL 2402 FEL
43-047-39383 NBU 1021-12A Sec 12 T10S R21E 0835 FNL 0781 FEL
43-047-39382 NBU 1021-12M Sec 12 T10S R21E 1022 FSL 0329 FWL
43-047-39384 NBU 1021-12N Sec 12 T10S R21E 0677 FSL 2302 FWL
43-047-39385 NBU 1021-12K Sec 12 T10S R21E 1532 FSL 1952 FWL
43-047-39386 NBU 1021-12L Sec 12 T10S R21E 1580 FSL 0196 FWL
43-047-39360 NBU 921-16J Sec 16 T09S R21E 1994 FSL 1660 FEL
43-047-39361 NBU 921-16HT Sec 16 T09S R21E 1858 FNL 1013 FEL
43-047-39362 NBU 921-16MT Sec 16 T09S R21E 1261 FSL 1248 FWL
43-047-39363 NBU 921-17K Sec 17 T09S R21E 2147 FSL 1635 FWL
43-047-39364 NBU 921-17J Sec 17 T09S R21E 1508 FSL 1748 FEL
43-047-39365 NBU 921-20M Sec 20 T09S R21E 0568 FSL 0586 FWL
43-047-39366 NBU 921-20O Sec 20 T09S R21E 1026 FSL 1859 FEL
43-047-39367 NBU 921-23C Sec 23 T09S R21E 0817 FNL 1945 FWL
43-047-39368 NBU 921-25NT Sec 25 T09S R21E 1150 FSL 2607 FWL
43-047-39369 NBU 922-18O Sec 18 T09S R22E 1255 FSL 2083 FEL

43-047-39370 NBU 922-18I Sec 18 T09S R22E 1600 FSL 0901 FEL
43-047-39371 NBU 922-18G Sec 18 T09S R22E 2009 FNL 1936 FEL
43-047-39372 NBU 922-20E Sec 20 T09S R22E 2182 FNL 0452 FWL
43-047-39387 NBU 1022-6B-2 Sec 06 T10S R22E 0160 FNL 2289 FEL
43-047-39389 NBU 1022-24B Sec 24 T10S R22E 1035 FNL 1619 FEL
43-047-39374 NBU 1020-24BT Sec 24 T10S R20E 0914 FNL 1966 FEL
43-047-39373 NBU 1020-01KT Sec 01 T10S R20E 1731 FSL 1834 FWL

Our records indicate the NBU 1022-24B is closer than 460 feet from the Natural Buttes Unit boundary.

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:6-18-07

Helen Sadik-Macdonald - Surface Casing changes

From: "Laney, Brad"
To:
Date: 09/07/2007 3:26 PM
Subject: Surface Casing changes
CC: "Upchego, Sheila" , "Worthen, Rebecca"

Helen,

The following wells will have 36# casing run in them for the entire surface casing interval.

NBU 921-16P
NBU 921-16J
NBU 921-16HT
NBU 921-16MT
NBU 921-25NT
NBU 921-34MT

Anadarko is currently in the process of converting all future wells to a 36# surface casing string but we will continue to utilize our existing inventory of 32.3# until sometime in October. All future permits will reflect the changes to the surface casing. If you need any additional paperwork or have any questions, let me know.

Thanks again
Brad

JON M. HUNTSMAN, JR.
Governor

GARY R. HERBERT
Lieutenant Governor

State of Utah
DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil Gas and Mining

JOHN R. BAZA
Division Director

November 8, 2007

Kerr McGee Oil and Gas Onshore LP
1368 S 1200 East
Vernal, UT 84078

Re: NBU 921-16HT Well, 1858' FNL, 1013' FEL, SE NE, Sec. 16, T. 9 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 43-047-39361.

Sincerely,

Gil Hunt
Associate Director

pab
Enclosures

cc: Uintah County Assessor
Bureau of Land Management Vernal Office
SITLA

1594 West North Temple, Suite 1210, PO Box 145801, Salt Lake City, UT 84114-5801
telephone (801) 538-5340 • facsimile (801) 359-3940 • TTY (801) 538-7458 • www.ogm.utah.gov

UTAH DNR OIL, GAS & MINING

Operator: Kerr McGee Oil and Gas Onshore LP

Well Name & Number NBU 921-16HT

API Number: 43-047-39361

Lease: ML-3282

Location: SE NE **Sec.** 16 **T.** 9 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) 942-0873 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.

8. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: **NBU 921-16HT**

API No: **43-047-39361** Lease Type: **State/Indian**

Section **16** Township **09S** Range **21E** County **Uintah**

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

SPUDDED:

Date **5-24-08**

Time **9:00 AM**

How **Dry**

Drilling will Commence:

Reported by **Lew Weldon**

Telephone # **435-781-7060**

Date 5-27-08 **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
Operator Account Number: N 2995
Address: 1368 SOUTH 1200 EAST
city VERNAL
state UT zip 84078
Phone Number: (435) 781-7024

Well 1

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304737381	BONANZA 1023-1D		NWNW	1	10S	23E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
A	99999	16813	5/26/2008			5/29/08	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 05/26/2008 AT 1030 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739361	NBU 921-16HT		SENE	16	9S,	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/24/2008			5/29/08	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 05/24/2008 AT 0900 HRS							

Well 3

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739368	NBU 921-25NT		SESW	25	9S	21E	UINTAH
Action Code	**Current Entity Number**	**New Entity Number**	**Spud Date**			**Entity Assignment Effective Date**	
B	99999	2900	5/25/2008			5/29/08	
Comments: MIRU PETE MARTIN BUCKET RIG. WSMVD SPUD WELL LOCATION ON 05/25/2008 AT 1000 HRS.							

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)
Signature
SENIOR LAND SPECIALIST 5/28/2008
Title Date

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(5/2000)

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: UTSLML-3282

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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

1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER

8. WELL NAME and NUMBER: NBU 921-16HT

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

9. API NUMBER: 4304739361

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: 1858'FNL, 1013'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: WELL SPUD
	☐ CONVERT WELL TYPE	☐ 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 05/24/2008 AT 0900 HRS.

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

SIGNATURE DATE 5/28/2008

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DIV. OF OIL, GAS & MINING

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FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTSLML-3282

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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 921-16HT

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

9. API NUMBER: 4304739361

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: 1858'FNL, 1013'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: SET SURFACE CSG
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

MIRU CRAIGS AIR RIG ON 05/30/2008. DRILLED 20" CONDUCTOR HOLE TO 2760'. RAN 9 5/8" 36# J-55 SURFACE CSG. LEAD CMT W/240 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 THROUGH OUT JOB NO LEAD CMT TO PIT 600 PSI LIFT. RAN 200' OF 1" PIPE. CMT W/125 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK. TOP OUT W/75 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT

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DIV. OF OIL, GAS & MINING

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

SIGNATURE DATE 6/4/2008

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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:	UT ST ML-3282
6. IF INDIAN, ALLOTTEE OR TRIBE NAME:	TRIBAL SURFACE
7. UNIT or CA AGREEMENT NAME:	UNIT #891008900A
1. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ OTHER	8. WELL NAME and NUMBER: NBU 921-16HT
2. NAME OF OPERATOR: KERR McGEE OIL & GAS ONSHORE LP	9. API NUMBER: 4304739361
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: 1858' FNL, 1013' FEL	COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☐ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start:	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☑ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion:	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☑ OTHER: FINAL DRILLING OPERATIONS
	☐ CONVERT WELL TYPE	☐ RECOMPLETE - DIFFERENT FORMATION	

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

FINISHED DRILLING FROM 2760' to 10450' on 10/7/2008. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. LEAD CMT W/580 SX PREM LITE II @11.5 PPG 2.82 YIELD. TAILED CMT W/1570 SX 50/50 POZ @14.3 PPG 1.31 YIELD. DISPLACE W/150 BBLS CLAY TREAT NO RETURNS DURING JOB UNTIL START OF DISPLACEMENT 29 BBLS CMT BACK BUMP PLUG @3677 PSI HELD. NIPPLE DOWN SET SLIPS W/70K CUT OFF CSG. CLEAN PITS.

RELEASED PIONEER RIG 41 ON 10/7/2008 AT 0600 HRS.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE Sheila Upchego mc DATE 10/10/2008

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FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTSTML-3282

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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 921-16HT

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

9. API NUMBER: 4304739361

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: 1858' FNL, 1013' FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E

STATE: UTAH

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

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

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 10/25/2008 AT 10:00 AM.

PLEASE REFER TO THE ATTACHED CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE Sheila Upchego DATE 10/28/2008

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(5/2000) (See Instructions on Reverse Side)

Wins No.: 94958

NBU 921-16HT

Well Operations Summary Long

Operator	FIELD NAME	SPUD DATE	GL	KB	ROUTE
KERR MCGEE OIL & GAS ONSHORE LP	NATURAL BUTTES	05/30/2008	4,867	4885	V23

API	STATE	COUNTY	DIVISION
4304739361	UTAH	UINTAH	ROCKIES

Long/Lat.: 40.03827 / -109.55097 Q-Q/Sect/Town/Range: SENE / 16 / 9S / 21E Footages: 1,858.00' FNL 1,013.00' FEL

Wellbore: NBU 921-16HT

MTD	TVD	PBMD	PBTVD
10,450	12,660	10,400	10,400

EVENT INFORMATION:
EVENT ACTIVITY: DRILLING
OBJECTIVE: DEVELOPMENT
OBJECTIVE 2: ORIGINAL
REASON: MV
START DATE: 5/24/2008
END DATE: 10/5/2008
DATE WELL STARTED PROD.: 5/30/2008
Event End Status: COMPLETE
AFE NO.: 2007713

RIG OPERATIONS:	Begin Mobilization	Rig On Location	Rig Charges	Rig Operation Start	Finish Drilling	Rig Release	Rig Off Location
CRAIGS / UNK	05/30/2008	05/30/2008	05/30/2008	05/30/2008	06/01/2008	06/02/2008	06/02/2008

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
5/24/2008	SUPERVISOR: LEW WELDON						
	9:00 - 14:30	5.50	DRLCON	02		P	MOVE IN AND RIG UP BUCKET RIG SPUD WELL @ 0900 HR 5/24/08 DRILL AND SET 40' OF SCHEDULE 10 PIPE DRILL RODENT HOLES FOR RIG 54 BLM AND STATE NOTFID OF SPUD
5/30/2008	SUPERVISOR: LEW WELDON						
	8:30 - 12:00	3.50	DRLSUR	02		P	MOVE IN AND RIG UP CRAIGS AIR RIG SPUD WELL @ 0830 HR 5/30/08 DA AT REPORT TIME 480'
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1020'
5/31/2008	SUPERVISOR: LEW WELDON						
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 1740'
	12:00 - 0:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 2040'
6/1/2008	SUPERVISOR: LEW WELDON						
	0:00 - 12:00	12.00	DRLSUR	02		P	RIG DRILLING AHEAD NO WATER 2480'
	12:00 - 23:00	11.00	DRLSUR	02		P	RIG T/D @ 2760' CONDTION HOLE 1 HR
	23:00 - 0:00	1.00	DRLSUR	05		P	TRIP DP OUT OF HOLE @ REPORT TIME
6/2/2008	SUPERVISOR: LEW WELDON						
	0:00 - 7:00	7.00	DRLSUR	05		P	TRIP DP OUT OF HOLE
	7:00 - 11:30	4.50	DRLSUR	11		P	RUN 2711' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG

	7:00 - 11:30	4.50	DRLSUR	11		P	RUN 2711' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	11:30 - 12:30	1.00	DRLSUR	15		P	CEMENT 1ST STAGE WITH 240 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRUOUT JOB NO LEAD CMT TO PIT 600 PSI LIFT
	12:30 - 13:00	0.50	DRLSUR	15		P	1ST TOP JOB 125 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	13:00 - 14:30	1.50	DRLSUR	15		P	2ND TOP JOB 75 SKS DOWN BS GOOD CMT TO SURFACE AND STAYED AT SURFACE
	14:30 - 14:30	0.00	DRLSUR				NO VISIBLE LEAKS PIT 1/4 FULL WORT
9/19/2008	SUPERVISOR: JIM MURRAY						
	12:00 - 0:00	12.00	DRLPRO	01	E	P	RD ON 920-22A SET OUT FRONT END,LOWER DERRICK,RDRT
9/20/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 18:00	18.00	DRLPRO	01	A	P	RIG DOWN ON NBU 920-22A,SM W/ CREWS LOAD OUT CAMPS,PUMPS,MUD PITS,LP J&C CRANE LOCKED UP COMPUTER PROBLEMS 2.5 HRS GETTING ANOTHER CRANE LOWER A-LEGS,REMOVE DERRICK & DWKS,RD SUBS,MOB RIG 11 MILES,SET MATS, 8 HAUL TRUCKS,7 BED TRUCKS 2 FORKLIFTS,1 CRANE RIG 100% MOVED 0% RIGGED UP,MAN HRS TODAY=138 TOTAL=198
	18:00 - 0:00	6.00	DRLPRO	12	D	P	SFTN
9/21/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 6:00	6.00	DRLPRO	12	D	P	WAIT ON DAYLITE
	6:00 - 0:00	18.00	DRLPRO	01	B	P	SM RIG UP,STACK SUBS PUT FROGS IN SUB,DERRICK ON FLOOR @1100 PIN A-LEGS@1200 SET WIND WALLS@1430,SET IN & RIG UP BACK YARD, W/ 5 BED TRUCKS ,1 FORKLIFT,1 CRANE TRUCKS RELEASED @1400 CRANE @ 1500,DERRICK UP @ 1730,RIG UP FLOOR,GAS BUSTER & FLARE LINES MAN HRS TODAY=90 TOTAL F/ MOVE=288
9/22/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 3:00	3.00	DRLPRO	13	A	P	NIPPLE UP BOPE
	3:00 - 8:30	5.50	DRLPRO	13	C	P	TEST BOP'S BLIND & PIPE RAMS,KELLY,CHOKE LINE & ALL VALVES 5000# HIGH,250# LO,ANNULAR 2500#,CSG 1500#,SET WEAR BUSHING
	8:30 - 12:30	4.00	DRLPRO	05	A	P	SM RU WEATHERFORD PU BHA & 60 JTS DPTAG @ 2700',RD SAME
	12:30 - 13:00	0.50	DRLPRO	05	A	P	IN STALL ROTATING HEAD & DRIVE BUSHING

	13:00 - 14:30	1.50	DRLPRO	02	F	P	DRILL CMT & FC
	14:30 - 15:00	0.50	DRLPRO	09	A	P	WL SURVEY 4.79 DEG @ 2662'
	15:00 - 15:30	0.50	DRLPRO	02	F	P	DRILL CMT & CSG SHOE @ 2770'
	15:30 - 16:00	0.50	DRLPRO	09	A	S	WL SURVEY 4.76 DEG @ 2694'
	16:00 - 19:00	3.00	DRLPRO	05	A	S	TRIP FOR DROPPING BIT
	19:00 - 23:00	4.00	DRLPRO	02	B	P	DRILLING ROTARY SPUD @ 19:00 HRS 9/22/2008,DRILL F/ 2778 - 3054=276=69 / 9.6
	23:00 - 23:30	0.50	DRLPRO	09	A	P	WL SURVEY 4.37 DEG @ 2980'
	23:30 - 0:00	0.50	DRLPRO	02	B	P	DRILLING 3054 - 3118=64 9.6
9/23/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 7:00	7.00	DRLPRO	02	B	P	DRILLING 3118-3560=442=63.1 9.7
	7:00 - 7:30	0.50	DRLPRO	09	A	P	WL SURVEY4.07 DEG @ 3485'
	7:30 - 15:30	8.00	DRLPRO	02	B	P	DRILLING 3560-4067=507=63.3 9.7
	15:30 - 16:00	0.50	DRLPRO	09	A	P	WL SURVEY 3.17 DEG @ 3992
	16:00 - 17:00	1.00	DRLPRO	02	B	P	DRILLING 4067-4099=32 9.7
	17:00 - 17:30	0.50	DRLPRO	06	A	P	RIG SERVICE
	17:30 - 0:00	6.50	DRLPRO	02	B	P	DRILLING-4099-4436=337=51.8 / 9.8
9/24/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 14:00	14.00	DRLPRO	02	B	P	DRILLING 4436-5143=707=50.5 10.0
	14:00 - 14:30	0.50	DRLPRO	09	A	P	WL SURVEY 2.87 DEG @ 5060'
	14:30 - 16:00	1.50	DRLPRO	02	B	P	DRILLING 5143-5206=63=42 10.0
	16:00 - 16:30	0.50	DRLPRO	06	A	P	RIG SERVICE

	16:00 - 16:30	0.50	DRLPRO	06	A	P	RIG SERVICE
	16:30 - 20:30	4.00	DRLPRO	02	B	P	DRILLING 5206-5341=135=33.7 10.0
	20:30 - 21:00	0.50	DRLPRO	04	C	P	CBU F/BIT TRIP
	21:00 - 23:30	2.50	DRLPRO	05	A	P	PUMP SLUG,DROP SURVEY,TOH
	23:30 - 0:00	0.50	DRLPRO	05	A	P	CHANGE BITS TIH
9/25/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 2:00	2.00	DRLPRO	05	A	P	TIH ,BREAK CIRC @ 2700,CIH ,WASH 30' TO BTM
	2:00 - 7:30	5.50	DRLPRO	02	B	P	DRILLING 5341-5743=402=73 10.1
	7:30 - 8:00	0.50	DRLPRO	09	A	P	WL SURVEY 3.54 DEG @ 5668'
	8:00 - 14:30	6.50	DRLPRO	02	B	P	DRILLING 5743-6083=340=52.3 10.1
	14:30 - 16:00	1.50	DRLPRO	04	D	X	LOST CIRC,MIX & PUMP LCM SWEEPS,BY PASS SHAKERS,LCM 5%,REGAIN CIRC ,LOST 250 BBLS
	16:00 - 19:00	3.00	DRLPRO	02	B	P	DRILLING 6083-6237=154=51.3 10.0
	19:00 - 20:00	1.00	DRLPRO	04	D	X	LOST CIRC ,PUMP LCM SWEEPS,CIRC W/ FULL RETURNS, 12% LCM LOST 60 BBLS
	20:00 - 21:00	1.00	DRLPRO	02	B	P	DRILLING 6237-6293 10.0
	21:00 - 21:30	0.50	DRLPRO	09	A	P	WL SURVEY 4.49 DEG @ 6205'
	21:30 - 22:30	1.00	DRLPRO	04	C	P	CIRC,MIX & PUMP SLUG
	22:30 - 0:00	1.50	DRLPRO	05	A	P	TOH F/ DROPPING BIT,TIGHT SPOT 5130',TOH
9/26/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 1:30	1.50	DRLPRO	05	A	P	TOH F/ DROPPING BIT
	1:30 - 5:00	3.50	DRLPRO	05	A	P	CHANGE BITS,FUNCT TEST BOPE,TIH BREAK CIRC @ 2700', CIH TIGHT SPOT 5130',CIH
	5:00 - 5:30	0.50	DRLPRO	03	D	P	WASH 45' TO BTM

	5:00 - 5:30	0.50	DRLPRO	03	D	P	WASH 45' TO BTM
	5:30 - 16:30	11.00	DRLPRO	02	B	P	DRILLING 6293-6471=178=16.1 10.0
	16:30 - 17:00	0.50	DRLPRO	06	A	P	RIG SERVICE
	17:00 - 22:30	5.50	DRLPRO	02	B	P	DRILLING 6471- 6556=85=15.4 10.0
	22:30 - 23:00	0.50	DRLPRO	09	A	P	WL SURVEY 3.94 DEG @ 6490'
	23:00 - 0:00	1.00	DRLPRO	02	B	P	DRILLING 6556-6576=20 10.0
9/27/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 12:30	12.50	DRLPRO	02	B	P	DRILLING 6576-6851=275=22 10.1
	12:30 - 13:00	0.50	DRLPRO	09	A	P	WL SURVEY 4.00 DEG @ 6776
	13:00 - 14:30	1.50	DRLPRO	02	B	P	DRILLING 6851-6882=31=20.6 10.1
	14:30 - 15:00	0.50	DRLPRO	06	A	P	RIG SERVICE
	15:00 - 0:00	9.00	DRLPRO	02	B	P	DRILLING 6882-7031=149=16.5 10.2
9/28/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILLING 7031-7040
	0:30 - 1:30	1.00	DRLPRO	07	B	S	RIG REPAIR,WORK ON PUMPS #1 X/O VALVES & SEATS #2 OVER HEATED LOST FAN BELTS
	1:30 - 7:30	6.00	DRLPRO	02	B	P	DRILLING 7040 - 7166=126=21 10.2
	7:30 - 8:00	0.50	DRLPRO	09	A	P	WL SURVEY 2.78 DEG @ 7093'
	8:00 - 9:00	1.00	DRLPRO	02	A	P	DRILLING 7166-7198
	9:00 - 10:00	1.00	DRLPRO	05	A	P	CBU,MIX & PUMP SLUG
	10:00 - 13:00	3.00	DRLPRO	05	A	P	TOH,FUNCT TEST BOP,S CHANGE BITS
	13:00 - 16:30	3.50	DRLPRO	03	D	P	TIH, BREAK CIRC @ 2800' CIH,HOLE SLICK

	13:00 - 16:30	3.50	DRLPRO	03	D	P	TIH, BREAK CIRC @ 2800' CIH,HOLE SLICK
	16:30 - 17:00	0.50	DRLPRO	03	D	P	W & R 45' TO BTM 3' FILL
	17:00 - 0:00	7.00	DRLPRO	02	B	P	DRILLING 7198-7435=237=33.8 10.2
9/29/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 0:30	0.50	DRLPRO	02	B	P	DRILLING 7435-7451
	0:30 - 1:00	0.50	DRLPRO	09	A	P	WL SURVEY 2.79 DEG @ 7376
	1:00 - 15:00	14.00	DRLPRO	02	B	P	DRILLING 7451-7768=317=21.1 10.4
	15:00 - 15:30	0.50	DRLPRO	09	A	P	WL SURVEY 2.75 DEG @ 7693
	15:30 - 17:30	2.00	DRLPRO	02	B	P	DRILLING 7768-7821 =53=26.5 10.5
	17:30 - 18:00	0.50	DRLPRO	06	A	P	RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	B	P	DRILLING 7821-7958=22.8 10.5
9/30/2008	SUPERVISOR: JIM MURRAY						
	0:00 - 3:30	3.50	DRLPRO	02	B	P	DRILLING 7958-8039=81=23.1 10.5 MUD MTR LOCKED UP
	3:30 - 4:30	1.00	DRLPRO	04	C	P	CBU,MIX & PUMP SLUG
	4:30 - 9:00	4.50	DRLPRO	05	H	S	TOH,F/ MUD MTR
	9:00 - 11:30	2.50	DRLPRO	05	B	P	CHANGE OUT M MTR & BIT,TIH TO 2800',BREAK CIRC
	11:30 - 13:00	1.50	DRLPRO	06	D	P	CUT DRLG LINE
	13:00 - 15:00	2.00	DRLPRO	05	A	P	TIH,BREAK CIRC @ 6000',CIH
	15:00 - 15:30	0.50	DRLPRO	03	D	P	W & R 65 ' TO BTM
	15:30 - 17:30	2.00	DRLPRO	02	B	P	DRILLING 8039-8095=56=28 10.5
	17:30 - 18:00	0.50	DRLPRO	06	A	P	RIG SERVICE
	18:00 - 0:00	6.00	DRLPRO	02	B	P	DRILLING 8095-8327=232=38.6 10.5

	18:00 - 0:00	6.00	DRLPRO	02	B	P	DRILLING 8095-8327=232=38.6 10.5
10/1/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 12:30	12.50	DRLPRO	02	B	P	DRILLING 8327-8750 = 423' = 33.8, MW 10.5
	12:30 - 13:00	0.50	DRLPRO	06	A	P	RIG SERVICE
	13:00 - 13:30	0.50	DRLPRO	09	A	P	WIRELINE SURVEY @ 8675 = 2.88 DEG
	13:30 - 0:00	10.50	DRLPRO	02	B	P	DRILL 8750-9085 = 335' = 31.9 FPH, MW 10.6
10/2/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 6:30	6.50	DRLPRO	02	B	P	DRILL 9087-9256, 169' = 26 FPH, MW 10.6#
	6:30 - 7:00	0.50	DRLPRO	09	A	P	WL SURVEY @ 9180 = 2.91 DEG
	7:00 - 14:00	7.00	DRLPRO	02	B	P	DRILL 9256-9415 = 159' = 22.7 FPH, MW 11.0#
	14:00 - 14:30	0.50	DRLPRO	06	A	P	RIG SERVICE
	14:30 - 0:00	9.50	DRLPRO	02	B	P	DRILL 9415-9582 = 167' = 17.6 FPH, INC MW TO 11.2# DUE TO GAS, LCM 10% DUE TO SEEPING, TOTAL LOST 100 BBL +/-
10/3/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 2:30	2.50	DRLPRO	02	B	P	DRILL 9582-9592 = 10' = 4 FPH, MW 11.4#, 18% LCM
	2:30 - 4:00	1.50	DRLPRO	04	C	P	CCH FOR TRIP, DROP SURVEY, PUMP SLUG
	4:00 - 8:00	4.00	DRLPRO	05	A	P	TRIP OUT, CHANGE MUD MOTOR & BIT
	8:00 - 12:00	4.00	DRLPRO	05	A	P	TRIP IN WITH BIT#6
	12:00 - 13:00	1.00	DRLPRO	03	D	P	PRECAUTIONARY WASH & REAM 100' TO TD
	13:00 - 16:00	3.00	DRLPRO	02	B	P	DRILL9592-9698 = 106' = 35.3 FPH, MW 11.8#
	16:00 - 16:30	0.50	DRLPRO	06	A	P	RIG SERVICE
	16:30 - 0:00	7.50	DRLPRO	02	B	P	DRILL 9698-9795 = 97' = 12.9 FPH, MW 11.9# LCM 9%

10/4/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 11:30	11.50	DRLPRO	02	B	P	DRILLING 9795-9888 = 93' = 8 FPH, MW 12.0# 18% LCM, SLIGHT SEEPAGE
	11:30 - 15:30	4.00	DRLPRO	05	A	P	PUMP SLUG, DROP SURVEY, TRIP OUT WITH BIT #6, HOLE GOOD, SURVEY 2.56 DEG @ 9814
	15:30 - 20:30	5.00	DRLPRO	05	A	P	TRIP IN WITH BIT #7, PRECAUTIONARY WASH 100' TO TD, HOLE GOOD
	20:30 - 0:00	3.50	DRLPRO	02	B	P	DRILLING 9888-9994 = 106' = 30.3 FPH, MW 12.0#, 20% LCM, HOLE SEEPING 15 BPH
10/5/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 10:30	10.50	DRLPRO	02	B	P	DRILLING 9994-10450 = 456' = 43.4 FPH, MW 12.0#, 22% LCM, HOLE SEEPING 15 BPH
	10:30 - 12:00	1.50	DRLPRO	04	C	P	CIRCULATE & CONDITION MUD PRIOR TO WIPER TRIP
	12:00 - 13:00	1.00	DRLPRO	05	E	P	WIPER TRIP-HOLE GOOD
	13:00 - 16:00	3.00	DRLPRO	04	B	P	CIRCULATE & RAISE MW TO 12.1 DUE TO TRIP GAS, LCM 21%
	16:00 - 0:00	8.00	DRLPRO	05	A	P	PUMP SLUG, DROP SURVEY, LAY DOWN DRILL STRING, SOFT BREAK KELLY
10/6/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 0:30	0.50	DRLPRO	05	A	P	LAY DOWN DRILLSTRING, PULL WEAR BUSHING
	0:30 - 6:30	6.00	DRLPRO	08	A	P	R/U HALLIBURTON, RUN TRIPLE COMBO E-LOG TO 10444, R/D HALLIBURTON
	6:30 - 13:30	7.00	DRLPRO	11	B	P	R/U CASERS, RUN 243 JTS 4-1/2 P-110 11.6# CASING, SHOE SET AT 10438 KB.
	13:30 - 15:00	1.50	DRLPRO	04	E	P	CIRCULATE DOWN CASING, CIRCULATE BOTTOMS UP
	15:00 - 21:00	6.00	DRLPRO	04	E	P	CIRCULATE & RECIPROCATE CASING WHILE WAITING ON HALLIBURTON CEMENT TO ARRIVE
	21:00 - 0:00	3.00	DRLPRO	15	A	P	TEST LINES, MIX & PUMP CEMENT
10/7/2008	SUPERVISOR: RON SJOSTROM						
	0:00 - 1:30	1.50	DRLPRO	15	A	P	CEMENT PRODUCTION CASING, 20SX SCAVENGER 9.5#, 580SX LEAD 11.9#, 1570 SX TAIL 14.3#, DISPLACE WITH 142 BBL DISPLACEMENT, BUMP PLUG, FLOAT HELD

Wins No.: 94958							NBU 921-16HT	API No.: 4304739361
0:00 - 1:30	1.50	DRLPRO	15	A	P	CEMENT PRODUCTION CASING, 20SX SCAVENGER 9.5#, 580SX LEAD 11.9#, 1570 SX TAIL 14.3#, DISPLACE WITH 142 BBL DISPLACEMENT, BUMP PLUG, FLOAT HELD		
1:30 - 2:00	0.50	DRLPRO	11	B	P	LAND CASING HANGER WITH 65000, TEST SEALS-OKAY		
2:00 - 6:00	4.00	DRLPRO	13	A	P	CLEAN PITS, RELEASE RIG TO NBU 921-16MT @ 0600 HRS 10/7/08		

Wins No.: 94958	NBU 921-16HT	API No.: 4304739361

EVENT INFORMATION:
EVENT ACTIVITY: COMPLETION
OBJECTIVE: DEVELOPMENT
OBJECTIVE 2: ORIGINAL
REASON: MV
START DATE: 10/17/2008
END DATE: 10/23/2008
DATE WELL STARTED PROD.: 5/30/2008
Event End Status: COMPLETE
AFE NO.: 2007713

RIG OPERATIONS: Begin Mobilization | Rig On Location | Rig Charges | Rig Operation Start | Finish Drilling | Rig Release | Rig Off Location

MILES 2 / 2

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode	P/U	Operation
10/17/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 15:00	8.00	COMP	30	A	P	7:00 A.M. HSM ROAD RIG & EQUIP F/ NBU 920-36M TO LOC. MIRU. SPOT EQUIP. NDWH, NU BOPE. PREP TO RIH P/U TBG MONDAY A.M. SDFWE
10/20/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 18:00	11.00	COMP	31	I	P	7:00 A.M. HSM PREP & TALLY 337 JTS 2 3/8" L-80 8RD 4.7# TBG. P/U 3 7/8" BIT, BIT SUB & RIH. P/U TBG OFF TRAILER. TAG FILL @ 10386'. R/U DRL EQUIP. R/U PMP & LINES. BRK REV CIRC W/ TFW & BEG TO DRL. C/O 16' CMT & FLOAT COLLAR. EOT @ 10402'. CIRC WELL CLEAN W/ 110 BBLS. POOH L/D 16 JTS ON TRAILER. SWI. SDFN
10/21/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 17:00	10.00	COMP	36	B	P	7:00 A.M. HSM CONT TO POOH W/ TBG F/ 9892'. L/D BHA. ND BOPE. NU FRAC VLV'S. MIRU B&C QUICK TST. FILL CSG & PSI TST CSG & FRAC VLV'S TO 7500# (HELD). MIRU CUTTERS. MIRU WEATHERFORD. PRIME PMP'S & PREP TO FRAC. NOTE: ALL STAGES SHOT W/ 3 3/8" EXP PERF GUNS LOADED W/ 23 GM CHARGES. 3 & 4 SPF, 90 & 120 DEG PHS. ALL CBP'S ARE 4 1/2" BAKER 8K CBP'S. ALL STAGES INCLUDE NALCO DVE-005 SCALE INHIB. 3 GPT IN PAD & 1/2 RAMP, 10 GPT IN FLUSH & PRE PAD. ALL CLEAN FLUID INCLUDE NALCO BIOCIDE @ .5 GPT. STG 1: P/U 3 3/8" PERF GUNS & RIH. SHOOT 16 HOLES F/ 10380' - 84', P/U SHOOT 16 HOLES F/ 10334' - 38', P/U SHOOT 8 HOLES F/ 10310' - 12'. POOH. BRK DWN PERF'S @ 4058#, EST INJ RT @ 50.3 BPM @ 5420#, ISIP 3031#, FG .74, TREAT STG 1 W/ 34,893# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1067 BBLS. ISIP 3484#, NPI 453#, FG .78 STG 2: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 10248', P/U SHOOT 24 HOLES F/ 10212' - 18', P/U SHOOT 16 HOLES F/ 10180' - 84'. POOH, BRK DWN PERF'S @ 4835#, EST INJ RT @ 53.3 BPM @ 5600#, ISIP 3321#, FG .79, TREAT STG 2 W/ 41,133# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 1116 BBLS. ISIP 3200#, NPI -121#, FG .77 (TREATER MIXED UP ON FLUSH NUMBERS. OVER FLUSH BY 7 BBLS) STG 3: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 10054', P/U SHOOT 8 HOLES F/ 10022' - 24', P/U SHOOT 16 HOLES F/ 9984' - 88', P/U SHOOT 16 HOLES F/ 9890' - 94'. POOH. SWI. SDFN
10/22/2008	SUPERVISOR: JEFF SAMUELS						

	7:00 - 17:00	10.00	COMP	36	B	P	7:00 A.M. HSM CONT FRAC MESA VERDE, CIRC PMP BROKE DWN. MAKE REPAIRS. BEG PMP @ 9:30 A.M. TOT DWN HRS 2.5 HRS STG 3: BRK DWN PERF'S @ 3773#, EST INJ RT @ 53.2 BPM @ 5400#, ISIP 3107#, FG .76, TREAT STG 3 W/ 187,778# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 5031 BBLS. ISIP 3688#, NPI 581#, FG .82 HAD TO REHEAD W.L. & WAIT ON REPLACEMENT PMP F/ WEATHERFORD. MIRU NEW PMP PRIME UP & CONT TO FRAC. TOT DWN HRS 1.5 HRS STG 4: P/U 3 3/8" PERF GUNS & 4 1/2" CBP & RIH. SET CBP @ 9740'. P/U SHOOT 16 HOLES F/ 9706' - 10', P/U SHOOT 16 HOLES F/ 9582' - 86', P/U SHOOT 12 HOLES F/ 9514' - 18'. POOH. BRK DWN PERF'S @ 4097#, EST INJ RT @ 55.6 BPM @ 5330#, ISIP 2899#, FG .75. TREAT STG 4 W/ 231,181# SAND TAILED IN W/ 5000# TLC SAND W/ SLK WTR. TOT CL FL 5590 BBLS. ISIP 3360#, NPI 461#, FG .79 P/U 4 1/2" CBP & RIH. SET KILL PLUG @ 9455'. POOH. RDMO CUTTERS. RDMO WEATHERFORD. SWI. SDFN TOT DWN HRS FOR JOB 4 HRS.
10/23/2008	SUPERVISOR: JEFF SAMUELS						
	7:00 - 17:00	10.00	COMP	44	C	P	7:00 A.M. HSM ND FRAC VLV'S. NU BOPE. P/U 3 7/8" BIT, POBS & RIH W/ TBG. TAG KILL PLUG @ 9455'. R/U DRL EQUIP, R/U PMP & LINES. BRK CONV CIRC W/ TFW & BEG TO DRL DRL UP 1ST CBP (1000# PSI INC). CONT TO RIH. TAG FILL @ 9710', (30' FILL). C/O TO 2ND CBP @ 9740'. DRL UP 2ND CBP (300# PSI INC). CONT TO RIH. TAG FILL @ 10030'. (30' FILL). C/O TO 3RD CBP @ 10060'. DRL UP 3RD CBP (200# PSI INC). CONT TO RIH. TAG FILL @ 10218', (30' FILL). C/O TO 4TH CBP @ 10248'. DRL UP 4TH CBP (300# PSI INC). CONT TO RIH. TAG FILL @ 10385', (15' FILL). C/O TO PBTD @ 10400'. CIRC WELL CLEAN. R/D DRL EQUIP. POOH L/D 17 JTS. LUBRICATE TBG HANGER INTO WELL. LAND TBG W/ EOT @ 10158'. NDBOPE. DROP BALL, NUWH. PMP OFF THE BIT SUB @ 3500#. R/U FLOW BACK EQUIP. RACK EQUIP. TURN OVER TO FLOW BACK CREW SICP 2350# FTP 150# 48/64 CHOKE TBG ON LOC 337 JTS TBG IN WELL 320 JTS TBG LEFT ON TRAILER 17 JTS
10/24/2008	SUPERVISOR: JESSE ATWOOD						
	7:00 -			33	A		7 AM FLBK REPORT: CP 1975#, TP 1650#, 20/64" CK, 60 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 335 BBLS LEFT TO RECOVER: 9454
10/25/2008	SUPERVISOR: JESSE ATWOOD						
	10:00 -		PROD				WELL TURNED TO SALES @ 1000 HR ON 10/25/2008 - FTP 2175#, CP 2300#, CK 16/64", 636 MCFD, 1080 BWPD
10/25/2008	SUPERVISOR: JESSE ATWOOD						
	7:00 -			33	A		7 AM FLBK REPORT: CP 2100#, TP 2100#, 16/64" CK, 45 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 4745 BBLS LEFT TO RECOVER: 8059
10/26/2008	SUPERVISOR: JESSE ATWOOD						

	7:00 -	33	A	7 AM FLBK REPORT: CP 2700#, TP 3250#, 16/64" CK, 35 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 5697 BBLS LEFT TO RECOVER: 7107
10/27/2008	SUPERVISOR: JESSE ATWOOD			
	7:00 -	33	A	7 AM FLBK REPORT: CP 3300#, TP 2275#, 16/64" CK, 30 BWPH, TRACE SAND, - GAS TTL BBLS RECOVERED: 6452 BBLS LEFT TO RECOVER: 6352

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

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST ML-3282

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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

8. WELL NAME and NUMBER: NBU 921-16HT

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

9. API NUMBER: 4304739361

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: 1858'FNL, 1013'FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S, 21E

12. COUNTY: UINTAH

13. STATE: UTAH

14. DATE SPUDDED:	15. DATE T.D. REACHED:	16. DATE COMPLETED:			17. ELEVATIONS (DF, RKB, RT, GL):
5/24/2008	10/7/2008	10/25/2008	ABANDONED ☐	READY TO PRODUCE ☑	4867'GL

18. TOTAL DEPTH: MD 10,450 TVD	19. PLUG BACK T.D.: MD 10,400 TVD	20. IF MULTIPLE COMPLETIONS, HOW MANY? *	21. DEPTH BRIDGE PLUG SET: MD TVD

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

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

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

HOLE SIZE	SIZE/GRADE	WEIGHT (#/ft.)	TOP (MD)	BOTTOM (MD)	STAGE CEMENTER DEPTH	CEMENT TYPE & NO. OF SACKS	SLURRY VOLUME (BBL)	CEMENT TOP **	AMOUNT PULLED
20"	14" STL	36.7#		40		28			
12 1/4"	9 5/8 J-55	36#		2,760		640			
7 7/8"	4 1/2 I-80	11.6#		10,450		2150			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,158							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) MESAVERDE	9,514	10,384		
(B)				
(C)				
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)	SIZE	NO. HOLES	PERFORATION STATUS
9,514 10,384	0.36	164	Open ☑ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐
			Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
9514'-10384'	PMP 12,804 BBLS SLICK H2O & 494,985# 30/50 OTTOWA 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
DEC 08 2008
DIV. OF OIL, GAS & MINING

(5/2000) (CONTINUED ON BACK)

31. INITIAL PRODUCTION — **INTERVAL A (As shown in item #26)**

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
10/25/2008	10/29/2008	24`		200	1,504	800	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
16/64	426	3,132					200	1,504	800	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)
GREEN RIVER	1,778				
MAHOGANY	2,598				
WASATCH	5,203	8,112			
MESAVERDE	8,195	10,385			

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 11/25/2008

This report must be submitted within 30 days of

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

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

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

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

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTSLML-3282

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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 921-16HT

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

9. API NUMBER: 4304739361

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: 1858'FNL, 1013'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E

STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
☑ NOTICE OF INTENT (Submit in Duplicate)	☐ ACIDIZE	☐ DEEPEN	☐ REPERFORATE CURRENT FORMATION
Approximate date work will start: _____	☐ ALTER CASING	☐ FRACTURE TREAT	☐ SIDETRACK TO REPAIR WELL
	☐ CASING REPAIR	☐ NEW CONSTRUCTION	☐ TEMPORARILY ABANDON
	☐ CHANGE TO PREVIOUS PLANS	☐ OPERATOR CHANGE	☐ TUBING REPAIR
	☐ CHANGE TUBING	☐ PLUG AND ABANDON	☐ VENT OR FLARE
☐ SUBSEQUENT REPORT (Submit Original Form Only)	☐ CHANGE WELL NAME	☐ PLUG BACK	☐ WATER DISPOSAL
Date of work completion: _____	☐ CHANGE WELL STATUS	☐ PRODUCTION (START/RESUME)	☐ WATER SHUT-OFF
	☐ COMMINGLE PRODUCING FORMATIONS	☐ RECLAMATION OF WELL SITE	☐ OTHER: _____
	☐ CONVERT WELL TYPE	☑ 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 AND MESAVERDE FORMATIONS. THE OPERATOR REQUESTS AUTHORIZATION TO COMMINGLE THE NEWLY WASATCH AND MESAVERDE FORMATIONS.

PLEASE REFER TO THE ATTACHED RECOMPLETION PROCEDURE.

COPY SENT TO OPERATOR
Date: 3.4.2009
Initials: KS

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE [signature] DATE 2/20/2009

(This space for State use only)

APPROVED BY THE STATE OF UTAH DIVISION OF OIL, GAS, AND MINING
DATE: 2/26/09
BY: [signature]
*Cause 173-14

RECEIVED
FEB 23 2009
DIV. OF OIL, GAS & MINING

(5/2000) (See Instructions on Reverse Side)

Name: **NBU 921-16HT**
Location: **SENE Sec. 16 T9S R21E**
Uintah County, UT
Date: **2/13/09**

ELEVATIONS: 4867 GL 4885 KB

TOTAL DEPTH: 10450 **PBTD:** 10393
SURFACE CASING: 9 5/8", 36# J-55 ST&C @ 2749'
PRODUCTION CASING: 4 1/2", 11.6#, I-80 LT&C @ 10438'
Marker Joint **5142' - 5152'**

TUBULAR PROPERTIES:

	BURST (psi)	COLLAPSE (psi)	DRIFT DIA. (in.)	CAPACITIES (bbl/ft)	(gal/ft)
2 3/8" 4.7# J-55 tbg	7,700	8,100	1.901"	0.00387	0.1624
4 ½" 11.6# I-80 (See above)	7780	6350	3.875"	0.0155	0.6528
2 3/8" by 4 ½" Annulus				0.0101	0.4227

TOPS:

1778' Green River
2090' Birds Nest
2598' Mahogany
5203' Wasatch
8195' Mesaverde

CBL indicates good cement below 1900'

GENERAL:

- A minimum of **24** 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 10/5/08
- **8** fracturing stages required for coverage.
- Procedure calls for 9 CBP's (**8000** psi).
- Calculate open perforations after each breakdown. If less than 60% of the perforations appear to be open, ball out with 15% HCl.
- Put scale inhibitor 3 gals/1000 gals (in pad and ½ 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 @~10159
- Originally completed on 10/21/08

Existing Perforations:

PERFORATIONS					
Formation (Bench)	Top	Btm	spf	Shots	Date
MESA VERDE	9514	9518	3	12	10/21/2008
MESA VERDE	9582	9586	4	16	10/21/2008
MESA VERDE	9706	9710	4	16	10/21/2008
MESA VERDE	9890	9894	4	16	10/21/2008
MESA VERDE	9984	9988	4	16	10/21/2008
MESA VERDE	10022	10024	4	8	10/21/2008
MESA VERDE	10180	10184	4	16	10/21/2008
MESA VERDE	10212	10218	4	24	10/21/2008
MESA VERDE	10310	10312	4	8	10/21/2008
MESA VERDE	10334	10338	4	16	10/21/2008
MESA VERDE	10380	10384	4	16	10/21/2008

PROCEDURE:

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

2. TOOH with 2-3/8", 4.7#, J-55 (or N-80) tubing (currently landed at ~10159'). Visually inspect for scale and consider replacing if needed.

3. If tbg looks ok consider running a gauge ring to 9504 (10' above existing perfs). Otherwise P/U a mill and C/O to 9504 (10' above existing perfs).

4. Set 8000 psi CBP at ~ 9476'. 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
MESAVERDE	9278	9282	3	12
MESAVERDE	9321	9326	3	15
MESAVERDE	9382	9384	3	6
MESAVERDE	9444	9446	3	6

6. Breakdown perfs and establish injection rate (include scale inhibitor in fluid). Spot 250 gal of 15% HCl and let soak. Fracture as outlined in Stage 1 on attached listing. Under-displace to ~9228' and trickle 250gal 15%HCL w/ scale inhibitor in flush . Note: TIGHT SPACING

7. Set 8000 psi CBP at ~9218'. Perf the following 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
MESAVERDE	9024	9026	3	6

MESAVERDE	9112	9114	4	8
MESAVERDE	9134	9136	4	8
MESAVERDE	9182	9188	3	18

8. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 2 on attached listing. Under-displace to ~8974' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

9. Set 8000 psi CBP at ~8895'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8678	8682	3	12
MESAVERDE	8750	8752	3	6
MESAVERDE	8812	8814	3	6
MESAVERDE	8860	8865	3	15

10. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 3 on attached listing. Under-displace to ~8645' trickle 250gal 15%HCL w/ scale inhibitor in flush. Note: TIGHT SPACING

11. Set 8000 psi CBP at ~8635'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
MESAVERDE	8370	8372	3	6
MESAVERDE	8456	8460	3	12
MESAVERDE	8554	8556	3	6
MESAVERDE	8600	8605	4	20

12. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 4 on attached listing. Under-displace to ~8320' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

13. Set 8000 psi CBP at ~8294'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	8220	8222	2	4
MESAVERDE	8254	8264	4	40

14. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 5 on attached listing. Under-displace to ~8170' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

15. Set 8000 psi CBP at ~7366'. Perf the following with 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	7260	7266	4	24
WASATCH	7332	7336	4	16

16. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 6 on attached listing. Under-displace to ~7210' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

17. Set 8000 psi CBP at ~7014'. Perf the following 3-3/8" gun, 23 gm, 0.36" hole:

Zone	From	To	spf	# of shots
WASATCH	6800	6804	4	16

WASATCH	6862	6864	4	8
WASATCH	6946	6950	3	12
WASATCH	6982	6984	3	6

18. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 7 on attached listing. Under-displace to ~6750' and trickle 250gal 15%HCL w/ scale inhibitor in flush.

19. Set 8000 psi CBP at ~6666'. Perf the following with 3-3/8" gun, 23 gm, 0.36"hole:

Zone	From	To	spf	# of shots
WASATCH	6437	6439	3	6
WASATCH	6499	6501	3	6
WASATCH	6540	6542	4	8
WASATCH	6620	6622	3	6
WASATCH	6632	6636	4	16

20. Breakdown perfs and establish injection rate. Fracture as outlined in Stage 8 on attached listing. Under-displace to ~6387' and flush only with recycled water.

21. Set 8000 psi CBP at~6387'.

22. TIH with 3 7/8" mill, pump off sub, SN and tubing.

23. Mill ALL plugs and clean out to PBTD at 10393. Land tubing at ±**10150**' pump off bit and bit sub. This well WILL be commingled at this time.

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

25. RDMO

For design questions, please call
Conner Staley, Denver, CO
(720)-929-6419 (Office)

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

NOTES:
Tight spacing on stages 1,3

Fracturing Schedules
Name NBU 921-16HT
Stickwater Frac

Stage	Zone	Perfs Top, ft	Perfs Bot., ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum. Sand lbs	Footage from CBP to Flush	Scale Inhib., gal.
1	MESAVERDE	9278	9282	3	12	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	9321	9326	3	15	0	ISIP and 5 min ISIP													60
	MESAVERDE		no perfs			50	Slickwater Pad			Slickwater	11,408	11,408	272	272	15.0%	0.0%	0	0		34
	MESAVERDE		no perfs			50	Slickwater Ramp	0.25	1	Slickwater	21,548	32,955	513	785	28.3%	16.6%	13,467	13,467		32
	MESAVERDE	9382	9384	3	6	50	SW Sweep	0	0	Slickwater	0	32,955	0	785		0.0%	0	13,467		0
	MESAVERDE		no perfs			50	Slickwater Ramp	1	1.5	Slickwater	21,548	54,503	513	1,298	28.3%	33.2%	26,934	40,402		32
	MESAVERDE		no perfs			50	SW Sweep	0	0	Slickwater	5,250	59,753	125	1,423		0.0%	0	40,402		0
	MESAVERDE	9444	9446	3	6	50	Slickwater Ramp	0.5	1.5	Slickwater	3,000	62,753	71	1,494		3.7%	3,000	43,402		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	21,548	81,300	513	1,936	28.3%	46.5%	37,708	81,110		0
	MESAVERDE					50	Flush (4-1/2")				6,024	87,324	143	2,079				81,110		60
	MESAVERDE						ISDP and 5 min ISDP					87,324								219
			# of Perfs/stage		39									Flush depth	9228	gal/ft	65,000	69,325	lbs sand/ft	
						41.6	<< Above pump time (min)									CBP depth	9,218		10	
2	MESAVERDE		no perfs			Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	9024	9026	3	6	0	ISIP and 5 min ISIP													
	MESAVERDE	9112	9114	4	8	50	Slickwater Pad			Slickwater	4,583	4,583	109	109	15.0%	0.0%	0	0		14
	MESAVERDE	9134	9136	4	8	50	Slickwater Ramp	0.25	1	Slickwater	8,656	13,238	206	315	28.3%	17.2%	5,410	5,410		13
	MESAVERDE	9182	9188	3	18	50	SW Sweep	0	0	Slickwater	0	13,238	0	315		0.0%	0	5,410		0
	MESAVERDE					50	Slickwater Ramp	1	1.5	Slickwater	8,658	21,894	206	521	28.3%	34.5%	10,820	16,230		13
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	21,894	0	521		0.0%	0	16,230		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	21,894	0	521		0.0%	0	16,230		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	8,656	30,550	206	727	28.3%	48.3%	15,148	31,377		0
	MESAVERDE					50	Flush (4-1/2")				5,858	36,408	139	867				31,377		58
	MESAVERDE						ISDP and 5 min ISDP					36,408								98
			# of Perfs/stage		40									Flush depth	8974	gal/ft	65,000	66,760	lbs sand/ft	
						14.5	<< Above pump time (min)									CBP depth	8,895		79	
3	MESAVERDE		no perfs			Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE	8678	8682	3	12	0	ISIP and 5 min ISIP													
	MESAVERDE	8750	8752	3	6	50	Slickwater Pad			Slickwater	8,385	8,385	200	200	15.0%	0.0%	0	0		25
	MESAVERDE		no perfs			50	Slickwater Ramp	0.25	1	Slickwater	15,838	24,223	377	577	28.3%	17.2%	9,899	9,899		24
	MESAVERDE	8812	8814	3	6	50	SW Sweep	0	0	Slickwater	0	24,223	0	577		0.0%	0	9,899		0
	MESAVERDE	8860	8865	3	15	50	Slickwater Ramp	1	1.5	Slickwater	15,838	40,062	377	954	28.3%	34.5%	19,798	29,697		24
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	40,062	0	954		0.0%	0	29,697		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	40,062	0	954		0.0%	0	29,697		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	15,838	55,900	377	1,331	28.3%	48.3%	27,717	57,414		0
	MESAVERDE					50	Flush (4-1/2")				5,643	61,543	134	1,465				57,414		56
	MESAVERDE						ISDP and 5 min ISDP					61,543								129
			# of Perfs/stage		39									Flush depth	8645	gal/ft	65,000	66,760	lbs sand/ft	
						26.6	<< Above pump time (min)									CBP depth	8,635		10	
4	MESAVERDE	8370	8372	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	MESAVERDE		no perfs			0	ISIP and 5 min ISIP													
	MESAVERDE	8456	8460	3	12	50	Slickwater Pad			Slickwater	8,733	8,733	208	208	15.0%	0.0%	0	0		26
	MESAVERDE	8554	8556	3	6	50	Slickwater Ramp	0.25	1	Slickwater	16,495	25,228	393	601	28.3%	17.2%	10,310	10,310		25
	MESAVERDE	8600	8605	4	20	50	SW Sweep	0	0	Slickwater	0	25,228	0	601		0.0%	0	10,310		0
	MESAVERDE					50	Slickwater Ramp	1	1.5	Slickwater	16,495	41,723	393	993	28.3%	34.5%	20,619	30,929		25
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	41,723	0	993		0.0%	0	30,929		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	0	41,723	0	993		0.0%	0	30,929		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	16,495	58,219	393	1,386	28.3%	46.3%	28,867	59,796		0
	MESAVERDE					50	Flush (4-1/2")				5,431	63,650	129	1,515				59,796		54
	MESAVERDE						ISDP and 5 min ISDP					63,650								130
			# of Perfs/stage		44									Flush depth	8320	gal/ft	50,625	61,996	lbs sand/ft	
						27.7	<< Above pump time (min)									CBP depth	8,294		26	
5	WASATCH		no perfs			Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	8220	8222	2	4	0	ISIP and 5 min ISIP													
	MESAVERDE	8254	8264	4	40	50	Slickwater Pad			Slickwater	10,479	10,479	250	250	15.0%	0.0%	0	0		31
	MESAVERDE					50	Slickwater Ramp	0.25	1	Slickwater	19,794	30,273	471	721	28.3%	16.5%	12,371	12,371		30
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	30,273	0	721		0.0%	0	12,371		0
	MESAVERDE					50	Slickwater Ramp	1	1.5	Slickwater	19,794	50,067	471	1,192	28.3%	33.1%	24,742	37,114		30
	MESAVERDE					50	SW Sweep	0	0	Slickwater	5,250	55,317	125	1,317		0.0%	0	37,114		0
	MESAVERDE					50	Slickwater Ramp	0.5	1.5	Slickwater	3,000	58,317	71	1,389		4.0%	3,000	40,114		0
	MESAVERDE					50	Slickwater Ramp	1.5	2	Slickwater	19,794	78,111	471	1,788	28.3%	46.3%	34,639	74,753		0
	MESAVERDE					50	Flush (4-1/2")				5,333	80,444	127	1,915				74,753		48
	MESAVERDE						ISDP and 5 min ISDP					80,444								139
			# of Perfs/stage		44									Flush depth	8170	gal/ft	25,312	27,084	lbs sand/ft	
						35.8	<< Above pump time (min)									CBP depth	7,366		864	
6	WASATCH	7260	7266	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7332	7336	4	16	0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	2,610	2,610	62	62	15.0%	0.0%	0	0		8
	WASATCH					50	Slickwater Ramp	0.25	1	Slickwater	4,930	7,540	117	180	28.3%	17.2%	3,081	3,081		7
	WASATCH					50	SW Sweep	0	0	Slickwater	0	7,540	0	180		0.0%	0	3,081		0
	WASATCH					50	Slickwater Ramp	1	1.5	Slickwater	4,930	12,470	117	297	28.3%	34.5%	6,163	9,244		7
	WASATCH					50	SW Sweep	0	0	Slickwater	0	12,470	0	297		0.0%	0	9,244		0
	WASATCH					50	Slickwater Ramp	0.5	1.5	Slickwater	0	12,470	0	297		0.0%	0	9,244		0
	WASATCH					50	Slickwater Ramp	1.5	2	Slickwater	4,930	17,400	117	414	28.3%	46.3%	8,628	17,871		0
	WASATCH					50	Flush (4-1/2")				4,707	22,107	112	526				17,871		46
	WASATCH						ISDP and 5 min ISDP					22,107								68
			# of Perfs/stage		40							LOOK		LOOK		gal/ft	60,000	61,625	lbs sand/ft	
						6.3								Flush depth	7210	CBP depth	7,014		196	
7	WASATCH		no perfs			Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6800	6804	4	16	0	ISIP and 5 min ISIP													
	WASATCH		no perfs			50	Slickwater Pad			Slickwater	5,999	5,999	143	143	15.0%	0.0%	0	0		18
	WASATCH	6862	6864	4	8	50	Slickwater Ramp	0.25	1	Slickwater	11,331	17,330	270	413	28.3%	17.2%	7,082	7,082		17
	WASATCH		no perfs			50	SW Sweep	0	0	Slickwater	0	17,330	0	413		0.0%	0	7,082		0
	WASATCH		no perfs			50	Slickwater Ramp	1	1.5	Slickwater	11,331	28,662	270	682	28.3%	34.5%	14,164	21,246		17
	WASATCH	6946	6950	3	12	50	SW Sweep	0	0	Slickwater	0	28,662	0	682		0.0%	0	21,246		0
	WASATCH		no perfs			50	Slickwater Ramp	0.5	1.5	Slickwater	0	28,662	0	682		0.0%	0	21,246		0
	WASATCH	6982	6984	3	6	50	Slickwater Ramp	1.5	2	Slickwater	11,331	39,993	270	952	28.3%	48.3%	19,830	41,076		0
	WASATCH					50	Flush (4-1/2")				4,408	44,399	105	1,057				41,076		43
	WASATCH						ISDP and 5 min ISDP					44,399								95
			# of Perfs/stage		42									Flush depth	6750	gal/ft	25,312	25,998	lbs sand/ft	
						19.0										CBP depth	6,666		84	
8	WASATCH	6437	6439	3	6	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	6499	6501	3	6	0	ISIP and 5 min ISIP													
	WASATCH	6540	6542	4	8	50	Slickwater Pad			Slickwater	4,139	4,139	99	99	15.0%	0.0%	0	0		12
	WASATCH	6620	6622	3	6	50	Slickwater Ramp	0.25	1	Slickwater	7,817	11,956	186	285	28.3%	17.2%	4,886	4,886		12
	WASATCH	6632	6636	4	16	50	SW Sweep	0	0	Slickwater	0	11,956	0	285		0.0%	0	4,886		0
	WASATCH					50	Slickwater Ramp	1	1.5	Slickwater	7,817	19,773	186	471	28.3%	34.5%	9,771	14,657		12
	WASATCH					50	SW Sweep	0	0	Slickwater	0	19,773	0	471		0.0%	0	14,657		0
	WASATCH					50	Slickwater Ramp	0.5	1.5	Slickwater	0	19,773	0	471		0.0%	0	14,657		0
	WASATCH					50	Slickwater Ramp	1.5	2	Slickwater	7,817	27,590	186	657	28.3%	48.3%	13,680	28,337		0
	WASATCH					50	Flush (4-1/2")				4,169	31,760	99	756				28,337		0
	WASATCH						ISDP and 5 min ISDP					31,760								36
			# of Perfs/stage		42									Flush depth	6397	gal/ft	25,312	26,998	lbs sand/ft	
						13.1										CBP depth	6,387		0	LOOK
	Totals				330					Total Fluid	422,205	gals	10,182	bbls		Total Sand		391,734		
											10,052	bbls								
						3.1							22.6	tanks					Total Scale Inhib. =	913

Name NBU 921-16HT
Perforation and CBP Summary

Stage	Zones	Perforations		SPF	Holes		Fracture Coverage		
		Top, ft	Bottom, ft						
1	MESAVERDE	9278	9282	3	12		9246.5	to	9299
	MESAVERDE	9321	9326	3	15		9308	to	9330.5
	MESAVERDE		no perfs				9356.5	to	9366.5
	MESAVERDE		no perfs				9368.5	to	9377.5
	MESAVERDE	9382	9384	3	6		9379	to	9391.5
	MESAVERDE		no perfs				9425	to	9427.5
	MESAVERDE		no perfs				9432	to	9441.5
	MESAVERDE	9444	9446	3	6		9442.5	to	9449
	# of Perfs/stage				39		CBP DEPTH	9,218	
2	MESAVERDE		no perfs				8931.5	to	8936
	MESAVERDE	9024	9026	3	6		9021.5	to	9030
	MESAVERDE	9112	9114	4	8		9107	to	9114
	MESAVERDE	9134	9136	4	8		9133.5	to	9143
	MESAVERDE	9182	9188	3	18		9153.5	to	9191.5
	# of Perfs/stage				40		CBP DEPTH	8,895	
3	MESAVERDE		no perfs				8653	to	8657
	MESAVERDE	8678	8682	3	12		8667	to	8684
	MESAVERDE	8750	8752	3	6		8747.5	to	8753.5
	MESAVERDE		no perfs				8797.5	to	8802
	MESAVERDE	8812	8814	3	6		8809	to	8824
	MESAVERDE	8860	8865	3	15		8859.5	to	8883
	# of Perfs/stage				39		CBP DEPTH	8,635	
4	MESAVERDE	8370	8372	3	6		8367.5	to	8384.5
	MESAVERDE		no perfs				8410.5	to	8424.5
	MESAVERDE	8456	8460	3	12		8448.5	to	8465
	MESAVERDE	8554	8556	3	6		8549.5	to	8559
	MESAVERDE	8600	8605	4	20		8593.5	to	8620
	# of Perfs/stage				44		CBP DEPTH	8,294	
5	WASATCH		no perfs				8197	to	8203.5
	WASATCH	8220	8222	2	4		8214.5	to	8223.5
	MESAVERDE	8254	8264	4	40		8243	to	8289
	# of Perfs/stage				44		CBP DEPTH	7,366	
6	WASATCH	7260	7266	4	24		7257.5	to	7270.5
	WASATCH	7332	7336	4	16		7321	to	7340
	# of Perfs/stage				40		CBP DEPTH	7,014	
7	WASATCH		no perfs				6794	to	6798
	WASATCH	6800	6804	4	16		6800	to	6804
	WASATCH		no perfs				6804.5	to	6808
	WASATCH	6862	6864	4	8		6855.5	to	6864.5
	WASATCH		no perfs				6910.5	to	6916.5
	WASATCH		no perfs				6927.5	to	6936.5
	WASATCH	6946	6950	3	12		6944	to	6950
	WASATCH		no perfs				6961.5	to	6965
	WASATCH	6982	6984	3	6		6981	to	6984
	# of Perfs/stage				42		CBP DEPTH	6,666	
8	WASATCH	6437	6439	3	6		6436.5	to	6439.5
	WASATCH	6499	6501	3	6		6498.5	to	6503.5
	WASATCH	6540	6542	4	8		6537.5	to	6542
	WASATCH	6620	6622	3	6		6619	to	6623
	WASATCH	6632	6636	4	16		6630.5	to	6637.5
	# of Perfs/stage				42		CBP DEPTH	6,387	
	Totals				330				

Fracturing Schedules
Name NBU 921 16HT
Stickwater Frac

Stage	Zone	Perfs Top, ft	Perfs Bot, ft	SPF	Holes	Rate BPM	Fluid Type	Initial ppg	Final ppg	Fluid	Volume gals	Cum Vol gals	Volume BBLs	Cum Vol BBLs	Fluid % of frac	Sand % of frac	Sand lbs	Cum Sand lbs	Footage from CBP to Flush	Scale Inhib gal
1	MESAVERDE	9278	9282	3	12	Varied	Pump In test			Slickwater		0	0	0						
	MESAVERDE	9321	9326	3	15	0	ISIP and 5 min ISIP													60
	MESAVERDE		no perfs			50	Slickwater Pad			Slickwater	11 408	11 408	272	272	15 0%	0 0%	0	0		34
	MESAVERDE		no perfs			50	Slickwater Ramp	0 25	1	Slickwater	21 548	32 955	513	785	28 3%	16 6%	13 467	13 467		32
	MESAVERDE	9382	9384	3	6	50	SW Sweep	0	0	Slickwater	0	32 955	0	785		0 0%	0	13 467		0
	MESAVERDE		no perfs			50	Slickwater Ramp	1	1 5	Slickwater	21 548	54,503	513	1 298	28 3%	33 2%	26 934	40 402		32
	MESAVERDE		no perfs			50	SW Sweep	0	0	Slickwater	5 250	59 753	125	1 423		0 0%	0	40 402		0
	MESAVERDE	9444	9446	3	6	50	Slickwater Ramp	0 5	1 5	Slickwater	3 000	62 753	71	1 494		3 7%	3 000	43 402		0
	MESAVERDE					50	Slickwater Ramp	1 5	2	Slickwater	21 548	81 300	513	1 936	28 3%	46 5%	37 708	81 110		0
	MESAVERDE					50	Flush (4 1/2)				6 024	87 324	143	2 079				81 110		60
	MESAVERDE						ISDP and 5 min ISDP					87 324								219
																gal/ft	65 000	69 325	lbs sand/ft	
			# of Perfs/stage		39									Flush depth	9228	CBP depth	9 218		10	
					41 6		<< Above pump time (min)													
2	MESAVERDE		no perfs			Varied	Pump In test			Slickwater		0	0	0						
	MESAVERDE	9024	9026	3	6	0	ISIP and 5 min ISIP													
	MESAVERDE	9112	9114	4	8	50	Slickwater Pad			Slickwater	4 583	4 583	109	109	15 0%	0 0%	0	0		14
	MESAVERDE	9134	9136	4	8	50	Slickwater Ramp	0 25	1	Slickwater	8 656	13 238	206	315	28 3%	17 2%	5 410	5 410		13
	MESAVERDE	9182	9185	3	15	50	SW Sweep	0	0	Slickwater	0	13 238	0	315		0 0%	0	5 410		0
	MESAVERDE					50	Slickwater Ramp	1	1 5	Slickwater	8 656	21 894	206	521	28 3%	34 5%	10 820	16 230		13
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	21 894	0	521		0 0%	0	16 230		0
	MESAVERDE					50	Slickwater Ramp	0 5	1 5	Slickwater	0	21 894	0	521		0 0%	0	16 230		0
	MESAVERDE					50	Slickwater Ramp	1 5	2	Slickwater	8 656	30 550	206	727	28 3%	48 3%	15 148	31 377		0
	MESAVERDE					50	Flush (4-1/2)				5 959	36 408	138	867				31 377		58
	MESAVERDE						ISDP and 5 min ISDP					36 408								98
																gal/ft	65,000	66 760	lbs sand/ft	
			# of Perfs/stage		40									Flush depth	8974	CBP depth	8 895		79	
					14 5		<< Above pump time (min)													
3	MESAVERDE		no perfs			Varied	Pump In test			Slickwater		0	0	0						
	MESAVERDE	8678	8682	3	12	0	ISIP and 5 min ISIP													
	MESAVERDE	8750	8752	3	6	50	Slickwater Pad			Slickwater	8 385	8 385	200	200	15 0%	0 0%	0	0		25
	MESAVERDE		no perfs			50	Slickwater Ramp	0 25	1	Slickwater	15 838	24 223	377	577	28 3%	17 2%	9 888	9 889		24
	MESAVERDE	8812	8814	3	6	50	SW Sweep	0	0	Slickwater	0	24 223	0	577		0 0%	0	9 889		0
	MESAVERDE	8860	8865	3	15	50	Slickwater Ramp	1	1 5	Slickwater	15 838	40 062	377	954	28 3%	34 5%	19 795	29 697		24
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	40 062	0	954		0 0%	0	29 697		0
	MESAVERDE					50	Slickwater Ramp	0 5	1 5	Slickwater	0	40 062	0	954		0 0%	0	29 697		0
	MESAVERDE					50	Slickwater Ramp	1 5	2	Slickwater	15 838	55 900	377	1 331	28 3%	48 3%	27 717	57 414		0
	MESAVERDE					50	Flush (4 1/2)				5,643	61 543	134	1 465				57,414		56
	MESAVERDE						ISDP and 5 min ISDP					61 543								128
																gal/ft	65 000	66,760	lbs sand/ft	
			# of Perfs/stage		39									Flush depth	8645	CBP depth	8 635		10	
					26 6		<< Above pump time (min)													
4	MESAVERDE	8370	8372	3	6	Varied	Pump In test			Slickwater		0	0	0						
	MESAVERDE		no perfs			0	ISIP and 5 min ISIP													
	MESAVERDE	8456	8460	3	12	50	Slickwater Pad			Slickwater	8 733	8 733	208	208	15 0%	0 0%	0	0		26
	MESAVERDE	8554	8556	3	6	50	Slickwater Ramp	0 25	1	Slickwater	16 495	25 228	393	601	28 3%	17 2%	10 310	10 310		25
	MESAVERDE	8600	8605	4	20	50	SW Sweep	0	0	Slickwater	0	25 228	0	601		0 0%	0	10 310		0
	MESAVERDE					50	Slickwater Ramp	1	1 5	Slickwater	16 495	41 723	393	993	28 3%	34 5%	20 619	30 929		25
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	41 723	0	993		0 0%	0	30 929		0
	MESAVERDE					50	Slickwater Ramp	0 5	1 5	Slickwater	0	41 723	0	993		0 0%	0	30 929		0
	MESAVERDE					50	Slickwater Ramp	1 5	2	Slickwater	16 495	58 218	393	1 386	28 3%	48 3%	28 867	59 796		0
	MESAVERDE					50	Flush (4 1/2)				5 431	63 650	129	1 515				59 796		54
	MESAVERDE						ISDP and 5 min ISDP					63 650								130
																gal/ft	60 625	51 996	lbs sand/ft	
			# of Perfs/stage		44									Flush depth	8320	CBP depth	8 294		26	
					27 7		<< Above pump time (min)													
5	WASATCH		no perfs			Varied	Pump In test			Slickwater		0	0	0						
	WASATCH	8220	8222	2	4	0	ISIP and 5 min ISIP													
	MESAVERDE	8254	8264	4	40	50	Slickwater Pad			Slickwater	10 479	10 479	250	250	15 0%	0 0%	0	0		31
	MESAVERDE					50	Slickwater Ramp	0 25	1	Slickwater	19 794	30 273	471	721	28 3%	16 5%	12 371	12 371		30
	MESAVERDE					50	SW Sweep	0	0	Slickwater	0	30 273	0	721		0 0%	0	12 371		0
	MESAVERDE					50	Slickwater Ramp	1	1 5	Slickwater	19 794	50 067	471	1 192	28 3%	33 1%	24 742	37 114		30
	MESAVERDE					50	SW Sweep	0	0	Slickwater	5 250	55 317	125	1 317		0 0%	0	37 114		0
	MESAVERDE					50	Slickwater Ramp	0 5	1 5	Slickwater	3 000	58 317	71	1 388		4 0%	3 000	40 114		0
	MESAVERDE					50	Slickwater Ramp	1 5	2	Slickwater	19 794	78 111	471	1 858	28 3%	46 3%	34 639	74 753		0
	MESAVERDE					50	Flush (4 1/2)				5 333	80 444	127	1 915				74 753		48
	MESAVERDE						ISDP and 5 min ISDP					80 444								139
																gal/ft	25 312	27 084	lbs sand/ft	
			# of Perfs/stage		44									Flush depth	8170	CBP depth	7 366		804	
					35 8		<< Above pump time (min)													
6	WASATCH	7260	7265	4	24	Varied	Pump-in test			Slickwater		0	0	0						
	WASATCH	7332	7336	4	16	0	ISIP and 5 min ISIP													
	WASATCH					50	Slickwater Pad			Slickwater	2 610	2 610	62	62	15 0%	0 0%	0	0		8
	WASATCH					50	Slickwater Ramp	0 25	1	Slickwater	4 930	7 540	117	180	28 3%	17 2%	3 061	3 061		7
	WASATCH					50	SW Sweep	0	0	Slickwater	0	7 540	0	180		0 0%	0	3 061		0
	WASATCH					50	Slickwater Ramp	1	1 5	Slickwater	4 930	12 470	117	297	28 3%	34 5%	6 183	9 244		7
	WASATCH					50	SW Sweep	0	0	Slickwater	0	12 470	0	297		0 0%	0	9 244		0
	WASATCH					50	Slickwater Ramp	0 5	1 5	Slickwater	0	12 470	0	297		0 0%	0	9 244		0
	WASATCH					50	Slickwater Ramp	1 5	2	Slickwater	4 930	17 400	117	414	28 3%	48 3%	8 628	17 871		0
	WASATCH					50	Flush (4 1/2)				4 707	22 107	112	526				17 871		46
	WASATCH						ISDP and 5 min ISDP					22 107								68
												LOOK		LOOK		gal/ft	60 000	61,625	lbs sand/ft	
			# of Perfs/stage		48									Flush depth	7210	CBP depth	7 014		196	
					8 3															
7	WASATCH		no perfs			Varied	Pump In test			Slickwater		0	0	0						
	WASATCH	6800	6804	4	16	0	ISIP and 5 min ISIP													
	WASATCH		no perfs			50	Slickwater Pad			Slickwater	5 888	5 888	143	143	15 0%	0 0%	0	0		18
	WASATCH	6862	6864	4	8	50	Slickwater Ramp	0 25	1	Slickwater	11 331	17 330	270	413	28 3%	17 2%	7 082	7 082		17
	WASATCH		no perfs			50	SW Sweep	0	0	Slickwater	0	17 330	0	413		0 0%	0	7 082		0
	WASATCH		no perfs			50	Slickwater Ramp	1	1 5	Slickwater	11 331	28 662	270	682	28 3%	34 5%	14 164	21 246		17
	WASATCH	6948	6950	3	12	50	SW Sweep	0	0	Slickwater	0	28 662	0	682		0 0%	0	21 246		0
	WASATCH		no perfs			50	Slickwater Ramp	0 5	1 5	Slickwater	0	28 662	0	682		0 0%	0	21 246		0
	WASATCH	6882	6884	3	6	50	Slickwater Ramp	1 5	2	Slickwater	11 331	39 993	270	952	28 3%	48 3%	19 830	41 076		0
	WASATCH					50	Flush (4 1/2)				4 406	44 399	105	1 057				41 076		43
	WASATCH						ISDP and 5 min ISDP					44 399								85
																gal/ft	25 312	25 998	lbs sand/ft	
			# of Perfs/stage		42									Flush depth	6750	CBP depth	6 666		84	
					19 0															
8	WASATCH	6437	6439	3	6	Varied	Pump In test			Slickwater		0	0	0						
	WASATCH	6488	6501	3	6	0	ISIP and 5 min ISIP													
	WASATCH	6540	6542	4	8	50	Slickwater Pad			Slickwater	4 139	4 139	99	99	15 0%	0 0%	0	0		12
	WASATCH	6620	6622	3	6	50	Slickwater Ramp	0 25	1	Slickwater	7 817	11 956	186	285	28 3%	17 2%	4 886	4,886		12
	WASATCH	6632	6636	4	16	50	SW Sweep	0	0	Slickwater	0	11 956	0	285		0 0%	0	4 886		0
	WASATCH					50	Slickwater Ramp	1	1 5	Slickwater	7 817	19 773	186	471	28 3%	34 5%	9 771	14 657		12
	WASATCH					50	SW Sweep	0	0	Slickwater	0	19 773	0	471		0 0%	0	14,657		0
	WASATCH					50	Slickwater Ramp	0 5	1 5	Slickwater	0	19 773	0	471		0 0%	0	14,657		0
	WASATCH					50	Slickwater Ramp	1 5	2	Slickwater	7 817	27 590	186	657	28 3%	48 3%	13 680	28 337		0
	WASATCH					50	Flush (4-1/2)				4 169	31 760	99	756				28 337		0
	WASATCH						ISDP and 5 min ISDP					31 760								36
																gal/ft	25 312	25,998	lbs sand/ft	
			# of Perfs/stage		42									Flush depth	6387	CBP depth	6 387		0	LOOK
	Totals				330	33 1				Total Fluid	422 205	gals	10 182	bbls		Total Sand	381 734			
											10 052	bbls								
						3 1							22 6	tanks					Total Scale Inhib, g	513

FORM 9

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

5. LEASE DESIGNATION AND SERIAL NUMBER: UTSLML-3282

SUNDRY NOTICES AND REPORTS ON WELLS

6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE

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 921-16HT

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

9. API NUMBER: 4304739361

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: 1858'FNL, 1013'FEL

COUNTY: UINTAH

QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S 21E

STATE: UTAH

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

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

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

THE OPERATOR HAS PERFORMED THE RECOMPLETE ON THE SUBJECT WELL LOCATION. THE OPERATOR HAS COMPLETED THE WASATCH AND MESAVERDE FORMATIONS, AND COMMINGLED THE NEWLY WASATCH AND MESAVERDE FORMATIONS. THE SUBJECT WELL LOCATION WAS PLACED ON PRODUCTION ON 04/04/2009 AT 9:45 AM.

PLEASE REFER TO THE ATTACHED RECOMPLETION CHRONOLOGICAL WELL HISTORY.

NAME (PLEASE PRINT) SHEILA UPCHEGO TITLE REGULATORY ANALYST

SIGNATURE _____ DATE 4/8/2009

RECEIVED
APR 20 2009
DIV. OF OIL, GAS & MINING

(This space for State use only)

(5/2000) (See Instructions on Reverse Side)

ROCKIES

Operation Summary Report

Well: NBU 921-16HT	Spud Conductor: 5/24/2008	Spud Date: 5/30/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/26/2009	End Date:
Active Datum: RKB @4,885.00ft (above Mean Sea Level)	UWI: NBU 921-16HT	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
3/25/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, R/D, MOVING RIG, R/U
	7:15 - 15:00	7.75	COMP	47	A	P		R/D ROAD RIG FROM NBU 921-14H TO NBU 921-16HT, MIRU, WAIT FOR DELSCO TO PULL PLUNGER & SPRING, BLOW WELL DN TO F/B TANK, PUMP 15 BBLS DN TBG TO CONTROL, N/D WELL HEAD, N/U BOPE, R/U TBG EQUIP, PULL HANGER OUT, POOH W/ 72 JNTS 2-3/8 L-80 TBG, SWIFN.
3/26/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, WORKING W/ WIRE LINE
	7:15 - 15:00	7.75	COMP	47	B	P		OPEN WLL 750# SICP, 750# SITP, BLOW WELL DN, CONTROL WELL W/ 40 BBLS, POOH W/ 160 STNDS, N/D BOPE, N/U FRAC VALVES, MIRU CUTTERS WIRE LINE, P/U RIH W/ 3-7/8 GAGE RING TO 9495', P/U RIH W/ HALIBURTON 10K CBP & SET @ 9476', FILL HOLE, MIRU B&C TESTERS, P/T CSG & FRAC VALVES TO 6200#. [GOOD TEST] P/U RIH PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 3 SPF, 120* PH, 9444'-9446' 6 HOLES, 9382'-9384' 6 HOLES, 9321'-9326' 15 HOLES, 9278'-9282' 12 HOLES, [39 HOLES] POOH R/D CUTTERS READY TO FRAC MON. SWI.
3/30/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, PRE FRAC

Operation Summary Report

Well: NBU 921-16HT	Spud Conductor: 5/24/2008	Spud Date: 5/30/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/26/2009	End Date:
Active Datum: RKB @4,885.00ft (above Mean Sea Level)	UWI: NBU 921-16HT	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 17:00	9.75	COMP	36		P		MIRU SCHLUMBERGER, CUTTERS WIRE LINE, FRAC STG #1 IN MESAVERDE, 9278'-9446' 39 HOLES. STG #1] WHP=2271#, BRK DN PERFS @ 4200#, INJT PSI=5180#, INNJT RT=51.6, ISIP=3750#, FG=.83, PUMP'D 2351.4 BBLS SLK WTR W/ 80994# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3250#, FG=.78, AR=51.8, AP=4851#, MR=51.9, MP=5901#, NPI=-500#, 32/39 CALC PERFS OPEN. STG#2] P/U RIH W/ HALLIBURTON 8K CBP & PERF GUN. SET CBP @ 9218', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 9182'-9188' 3 SPF, 120* PH, 18 HOLES, 9134'-9136' 4 SPF, 90* PH, 8 HOLES, 9112'-9114 4 SPF, 90* PH 8 HOLES, 9024'-9026' 3 SPF, 6 HOLES, [40 HOLES] WHP=2350#, BRK DN PERFS @ 3369#, INJ PSI=5695#, INJT RT=35, ISIP=2600#, FG=.72, PUMP'D 826 BBLS SLK WTR W/ 29574# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3050#, FG=.76, AR=41.3, AP=5484#, MR=49.8, MP=5932# NPI=450# W/ 26/40 CALC PERFS OPEN. STG #3] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8895', PERF MESAVERDE USING 3-3/8 EZPEND, 23 GRM, 0.36" HOLE, 3 SPF, 120* PH, 8860'-8865' 15 HOLES, 8812'-8814' 6 HOLES, 8750'-8752' 6 HOLES, 8678'-8682' 12 HOLES [39 HOLES] WHP=1065#, BRK DN PERFS @ 3301#, INJT PSI=5777, INJT RT=49.6, ISIP=2400#, FG=.70, PUMP'D 1386 BBLS SLK WTR W/ 54613# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=3000#, FG=.77, AR=46.5, AP=5157#, MR=50.3, MP=5854#, NPI=600# W/ 30/39 CALC PERFS OPEN. STG #4] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8635', PERF MESAVERDE USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 8600'-8605' 4 SPF, 90* PH, 20 HOLES, 8554'-8556' 3 SPF, 90* PH, 6 HOLES, 8456'-8460' 3 SPF, 120* PH, 12 HOLES, 8370'-8372' 3 SPF, 120* PH, 6 HOLES, [44 HOLES] WHP=900#, BRK DN PERFS @ 2942#, INJT PSI=5408, INJT RT=43, ISIP=2150#, FG=.60, PUMP'D 1438 BBLS SLK WTR W/ 60034# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2530#, FG=.73, AR=47.8, AP=4994#, MR=54.9, MP=5915#, NPI=380#, W/ 34/44 CALC PERFS OPEN. STG #5] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 8294', PERF MESAVERDE / WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 8254'-8264' 4 SPF, 90* PH, 40 HOLES, 8220'-8222' 2 SPF, 180* PH, 4 HOLES [44 HOLES] WHP630#, BRK DN PERFS @ 3387#, INJT PSI=5049#, INJT RT=50.1, ISIP=2550#, FG=.74,

Operation Summary Report

Well: NBU 921-16HT	Spud Conductor: 5/24/2008	Spud Date: 5/30/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/26/2009	End Date:
Active Datum: RKB @4,885.00ft (above Mean Sea Level)	UWI: NBU 921-16HT	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
								PUMP'D 2013 BBLS SLK WTR W/ 73620# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=2700#, FG=.76, AR=47.8, AP=4755#, MR=54.8, MP=5532#, NPI=150#, W/ 32/44 CALC PERFS OPEN. STG #6] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7366', PERF WASATCH USING USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 4 SPF, 90* PH, 7332'-7336' 16 HOLES, 7260'-7266' 24 HOLES [40 HOLES] WHP=260#, BRK DN PERFS @ 2628#, INJT PSI=4430#, INJT RT=51.3, ISIP=1570#, FG=.65, PUMP'D 514 BBLS SLK WTR W/ 15640# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1850#, FG=.68, AR=45.2, AP=3672#, MR=55.3, MP=4686#, NPI=280#, W/ 35/40 CALC PERFS OPEN. DRAINED EQUIP, SWIFN.
3/31/2009	7:00 - 7:15	0.25	COMP	40		P		HSM, FRACING / WIRE LINE
	7:15 - 7:15	0.00	COMP	36		P		STG #7] OPEN WELL, 300# SICP, P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 7014', PERF WASATCH USING 3-3/8 EXPEN, 23 GRM, 0.36" HOLE, 6982'-6984 3 SPF, 120* PH, 6 HOLES, 6946'-6950' 3 SPF, 120* PF, 12 HOLES, 6862'-6864' 4 SPF, 90* PH, 8 HOLES, 6800'-6804' 4 SPF, 90* PH, 16 HOLES, [42 HOLES] WHP=120#, BRK DN PERFS @ 3000#, INJT PSI=3600#, INJT RT=54.4, ISIP=1350#, FG=.63, PUMP'D 1054.4 BBLS SLK WTR W/ 40646# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1375#, FG=.63, AR=51.2, AP=3530#, MR=55.4, MP=5265#, NPI=25#, W/ 31/42 CALC PERFS OPEN. STG #8] P/U RIH W/ HALIBURTON 8K CBP & PERF GUN, SET CBP @ 6666', PERF WASATCH USING 3-3/8 EXPEND, 23 GRM, 0.36" HOLE, 6632'-6636' 4 SPF, 90* PH, 16 HOLES, 6620'-6622' 3 SPH 120* PH, 6 HOLES, 6540'-6542' 4 SPF, 90* PH, 8 HOLES, 6499'-6501' 3 SPF, 120* PH, 6 HOLES, 6437'-6439' 3 SPF, 120* PH, 6 HOLES [42 HOLES] WHP=160#, BRK DN PERF @ 3417#, INJT RT=3200#, INJT RT=49.1, ISIP=1101#, FG=.61, PUMP'D 955.3 BBLS SLK WTR W/ 34471# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1150#, FG=.61, AR=46.4, AP=2940#, MR=51.8, MP=4876#, NPI=49#, 29/42 CALC PERFS OPEN. R/D FRAC EQUIP, CUTERS, N/D FRAC VALVES, N/U BOPE, P/U RIH W/ 3-7/8 HURRICANE MILL W/ POBS PKG, RIH TAG KILL PLUG @ 6380' PREP TO DRL IN A.M SWIFN. WHP=160#, BRK DN PERFS @ 3417#, INJT PSI=3200#, INJT RT=49.1, ISIP=1101#, FG=,61, PUMP'D 955.3 BBLS SLK WTR W/ 34471# 30/50 MESH W/ 5000# RESIN COAT IN TAIL, ISIP=1150#, FG=.61, AR=46.4, AP=2940#, MR=51.8, MP=4876#, NPI=49#, W/ 29/42 CALC PERFS OPEN.
4/1/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, P/U PWR SWVL / MAKING CONN.

Operation Summary Report

Well: NBU 921-16HT	Spud Conductor: 5/24/2008	Spud Date: 5/30/2008
Project: UTAH	Site: UINTAH	Rig Name No: MILES-GRAY 1/1
Event: RECOMPLETION	Start Date: 3/26/2009	End Date:
Active Datum: RKB @4,885.00ft (above Mean Sea Level)	UWI: NBU 921-16HT	

Date	Time Start-End	Duration (hr)	Phase	Code	Subcode2	P/U	MD From (ft)	Operation
	7:15 - 7:15	0.00	COMP	44	C	P		OPEN WELL 0# SITP, 0# SICP, EST CIRC W/ RIG PUMP. PLUG #1] DRL THROUGH HALIBURTON 8K CBP @ 6380' IN 6 MIN. W/ 0# INCREASE. PLUG #2] CONTINUE TO RIH, TAG SAND @ 6636 ', [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 6666 ' IN 10 MIN. W/ 400# INCREASE. PLUG #3] CONTINUE TO RIH TAG SAND @ 6984' [30' FILL] C/O & DRL THROUGH HALIBURTON CBP @ 7014' IN 7 MIN. W/ 200# INCREASE. PLUG #4] CONTINUE TO RIH TAG SAND @ 7340' [30' FILL] C/O & DRL THROUGH HLIBURTON 8K CBP @ 7370' IN 18 MIN. W/ 700# INCREASE. PLUG #5] CONTINUE TO RIH TAG SAND @ 8264' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 8294' IN 20 MIN. W/ 500# INCREASE. PLUG #6] CONTINUE TO RIH TAG SAND @ 8364' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 8294' IN 25 MIN. W/ 1700# INCREASE. PLUG #7] CONTINUE TO RIH TAG SAND @ 8865' [30' FILL] C/O & DRL THROUGH HALIBURTON 8K CBP @ 8895' IN 15 MIN. W/ 300# INCREASE. PLUG #8] CONTINUE TO RIH TAG SAND @ 9188' [30' FILL] C/O W/ AIR FOAM, DRL THROUGH HALIBURTON 10 K CBP @ 9218' IN 4 MIN. W/ 700# INCREASE, CONTINUE TO RIH TAG @ 10358' 35' FILL [BOTTOM PERFS COVER'D, POOH W/ 28 JNTS SWIFN.
4/2/2009	7:00 - 7:15	0.25	COMP	48		P		HSM, WORKING W/ PRESSURE
	7:15 - 17:00	9.75	COMP	31	H	P		RIIH TAG SAND @ 10353', P/U PWR SWVL BRK CIRC W/ AIR FOAM C/O TO 10390', PULL UP P/U HANGER LUBRICATE IN WELL, LAND WELL W/ 320 JNTS 2-3/8 L-80 TBG W/ EOT @ 10152.80', R/D TBG EQUIP, N/D BOPE, N/U WELL HEAD, DROP BALL, PUMP OFF MILL W/ 1800#, TURN WELL OVER TO F/B CREW. RDMO.
4/3/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2775#, TP 1750#, 20/64" CK, 30 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4155 BBLS LEFT TO RECOVER: 6491
4/4/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2650#, TP 1675#, 20/64" CK, 25 BWPH, MEDIUM SAND, - GAS TTL BBLS RECOVERED: 4798 BBLS LEFT TO RECOVER: 5848
4/5/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2475#, TP 1575#, 20/64" CK, 20 BWPH, LIGHT SAND, - GAS TTL BBLS RECOVERED: 5302 BBLS LEFT TO RECOVER: 5344
4/6/2009	7:00 -			33	A			7 AM FLBK REPORT: CP 2400#, TP 1475#, 20/64" CK, 15 BWPH, CLEAN SAND, - GAS TTL BBLS RECOVERED: 5722 BBLS LEFT TO RECOVER: 4924

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

AMENDED REPORT ☐ (highlight changes) FORM 8

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. LEASE DESIGNATION AND SERIAL NUMBER: UT ST ML-3282
6. IF INDIAN, ALLOTTEE OR TRIBE NAME: TRIBAL SURFACE
7. UNIT or CA AGREEMENT NAME: UNIT #891008900A
8. WELL NAME and NUMBER: NBU 921-16HT
9. API NUMBER: 4304739361
10. FIELD AND POOL, OR WILDCAT: NATURAL BUTTES

1a. TYPE OF WELL: OIL WELL ☐ GAS WELL ☑ DRY ☐ OTHER

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

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

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

4. LOCATION OF WELL (FOOTAGES)
AT SURFACE: 1858'FNL, 1013'FEL
AT TOP PRODUCING INTERVAL REPORTED BELOW:
AT TOTAL DEPTH:

11. QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: SENE 16 9S, 21E
12. COUNTY: UINTAH
13. STATE: UTAH

14. DATE SPUDDED: 5/24/2008
15. DATE T.D. REACHED: 10/7/2008
16. DATE COMPLETED: 4/4/2009 ABANDONED ☐ READY TO PRODUCE ☑
17. ELEVATIONS (DF, RKB, RT, GL): 4867'GL

18. TOTAL DEPTH: MD 10,450 TVD
19. PLUG BACK T.D.: MD 10,390 TVD
20. IF MULTIPLE COMPLETIONS, HOW MANY? *
21. DEPTH BRIDGE PLUG SET: MD TVD

22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Submit copy of each)
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 J-55	36#		2,760		640			
7 7/8"	4 1/2 I-80	11.6#		10,450		2150			

25. TUBING RECORD

SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)	SIZE	DEPTH SET (MD)	PACKER SET (MD)
2 3/8"	10,152							

26. PRODUCING INTERVALS

FORMATION NAME	TOP (MD)	BOTTOM (MD)	TOP (TVD)	BOTTOM (TVD)
(A) WASATCH	6,437	7,336		
(B) WSTCH/MESA	8,220	8,264		
(C) MESAVERDE	8,370	9,446		
(D)				

27. PERFORATION RECORD

INTERVAL (Top/Bot - MD)		SIZE	NO. HOLES	PERFORATION STATUS
6,437	7,336	0.36	124	Open ☑ Squeezed ☐
8,220	8,264	0.36	44	Open ☑ Squeezed ☐
8,370	9,446	0.36	162	Open ☑ Squeezed ☐
				Open ☐ Squeezed ☐

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

DEPTH INTERVAL	AMOUNT AND TYPE OF MATERIAL
6437'-7336'	PMP 2523 BBLS SLICK H2O & 90,757# 30/50 OTTOWA SD
8220'-8264'	PMP 2013 BBLS SLICK H2O & 73,620# 30/50 OTTOWA SD
8370'-9446'	PMP 4563 BBLS SLICK H2O & 165,151# 30/50 OTTOWA 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

(5/2000)

(CONTINUED ON BACK)

31. INITIAL PRODUCTION

INTERVAL A (As shown in item #26)

DATE FIRST PRODUCED:	TEST DATE:	HOURS TESTED:	TEST PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	PROD. METHOD:
4/4/2009	4/6/2009	24		0	2,351	528	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	1,700	2,500					0	2,351	528	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:
4/4/2009	4/6/2009	24		0	2,351	528	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	1,700	2,500					0	2,351	528	PROD

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:
4/4/2009	4/6/2009	24		0	2,351	528	FLOWING

CHOKE SIZE:	TBG. PRESS.	CSG. PRESS.	API GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS – MCF:	WATER – BBL:	INTERVAL STATUS:
20/64	1,700	2,500					0	2,351	582	PROD

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)
GREEN RIVER	1,778				
BIRDS NEST	2,090				
MAHOGANY	2,598				
WASATCH	5,203	8,112			
MESAVERDE	8,195	10,385			

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 5/11/2009

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
1594 West North Temple, Suite 1210
Box 145801
Salt Lake City, Utah 84114-5801

Phone: 801-538-5340

Fax: 801-359-3940

(5/2000)