

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

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

APPLICATION FOR PERMIT TO DRILL OR REENTER

5. Lease Serial No.
UTU-71417

6. If Indian, Allottee or Tribe Name

7. If Unit or CA Agreement, Name and No.

8. Lease Name and Well No.
BITTER CREEK 1122-4J

9. API Well No. **43-047-39757**

10. Field and Pool, or Exploratory
UNDESIGNATED Bitter Creek

11. Sec., T., R., M., or Blk, and Survey or Area

SEC. 4, T11S, R22E

12. County or Parish
UINTAH

13. State
UTAH

1a. Type of Work: DRILL REENTER
b. Type of Well: Oil Well Gas Well Other Single Zone Multiple Zone

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE LP

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements.)*
At surface **NW/SE 2007'FSL, 1954'FEL**
At proposed prod. Zone **1231944 X 44162354** **39.887809** **-109.456857**

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

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1954'

16. No. of Acres in lease
1520.00

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
8280'

20. BLM/BIA Bond No. on file
BOND NO. WYB000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5637'GL

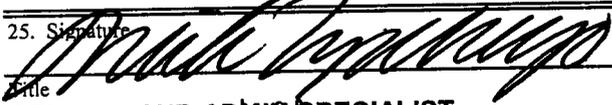
22. Approximate date work will start*

23. Estimated duration

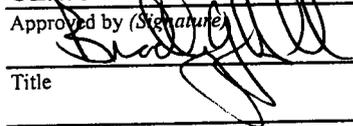
24. Attachments

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

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

25. Signature  Name (Printed/Typed) **SHEILA UPCHEGO** Date **10/30/2007**

Title **SENIOR LAND ADMIN SPECIALIST**

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

Title **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 1001 and 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)

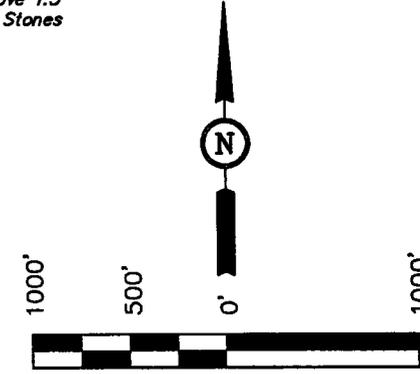
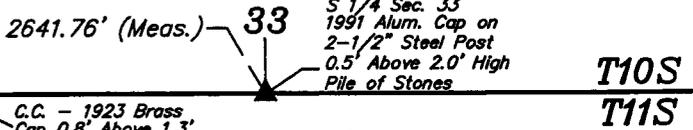
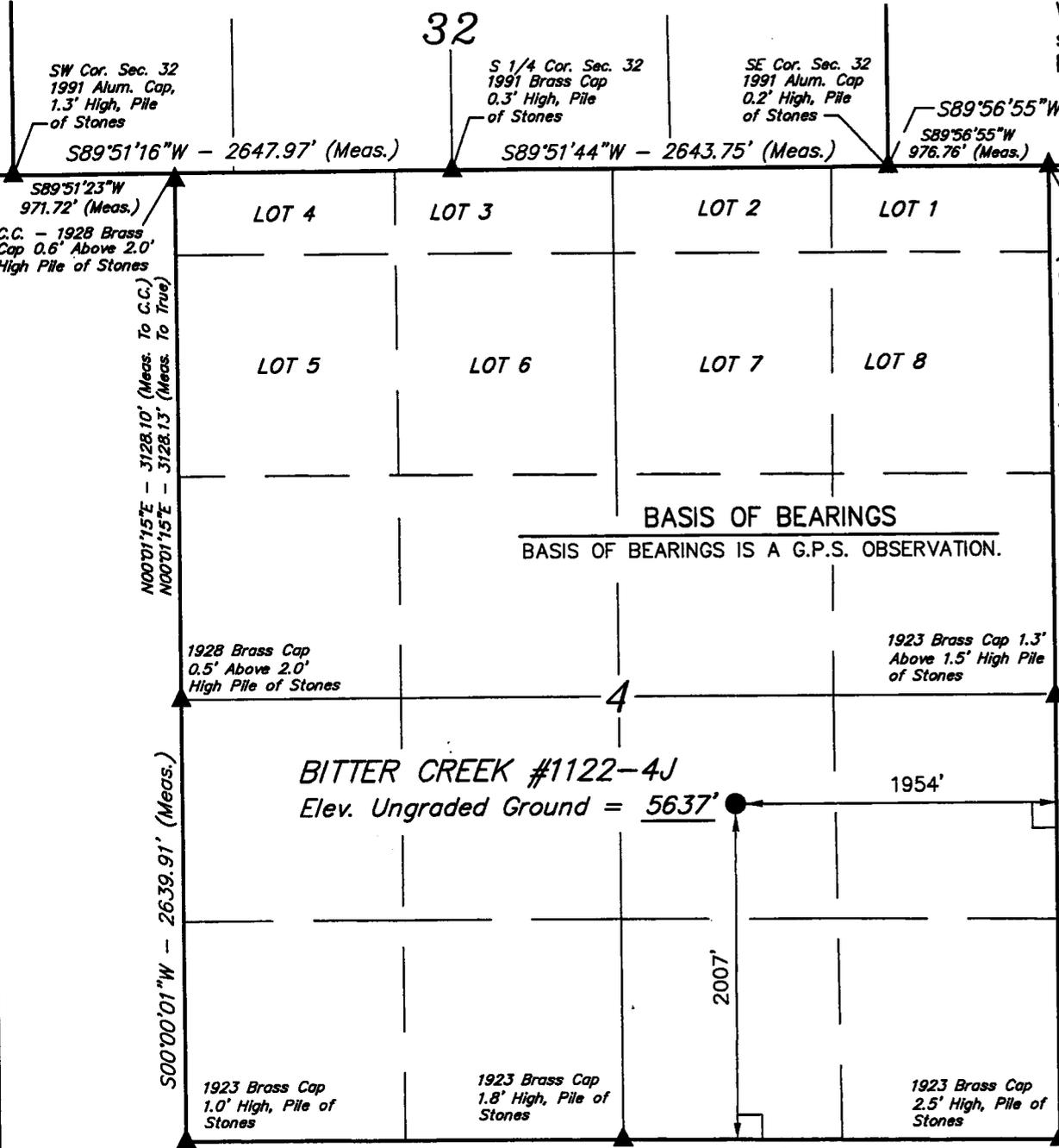
Federal Approval of this
Action is Necessary

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

T11S, R22E, S.L.B.&M.

Kerr-McGee Oil & Gas Onshore LP

Well location, BITTER CREEK #1122-4J, located as shown in the NW 1/4 SE 1/4 of Section 4, T11S, R22E, S.L.B.&M., Uintah County, Utah.

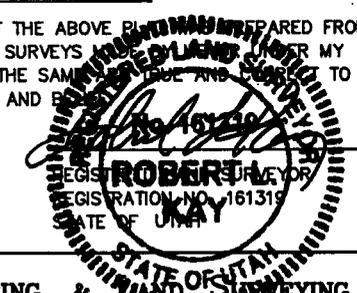


BASIS OF BEARINGS
BASIS OF BEARINGS IS A G.P.S. OBSERVATION.

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.

CERTIFICATE

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



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

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

(NAD 83)
LATITUDE = 39°53'18.13" (39.887814)
LONGITUDE = 109°27'27.16" (109.457544)
(NAD 27)
LATITUDE = 39°53'18.25" (39.887847)
LONGITUDE = 109°27'24.70" (109.458861)

SCALE 1" = 1000'	DATE SURVEYED: 06-07-07	DATE DRAWN: 06-18-07
PARTY J.M. B.C. L.K.	REFERENCES G.L.O. PLAT	
WEATHER WARM	FILE Kerr-McGee Oil & Gas Onshore LP	

**BITTER CREEK 1122-4J
NW/SE SEC. 4, T11S, R22E
UINTAH COUNTY, UTAH
UTU-71417**

ONSHORE ORDER NO. 1

DRILLING PROGRAM

1. Estimated Tops of Important Geologic Markers:

<u>Formation</u>	<u>Depth</u>
Uinta	0- Surface
Green River	916'
Top of Birds Nest Water	1222'
Mahogany	1546'
Wasatch	3915'
Mesaverde	6288'
MVU2	7242'
MVL1	7864'
TD	8280'

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

<u>Substance</u>	<u>Formation</u>	<u>Depth</u>
Water	Green River	916'
	Top of Birds Nest Water	1222'
	Mahogany	1546'
Gas	Wasatch	3915'
	Mesaverde	6288'
Gas	MVU2	7242'
Gas	MVL1	7864'
Water	N/A	
Other Minerals	N/A	

3. Pressure Control Equipment (Schematic Attached)

Please refer to the attached Drilling Program.

4. Proposed Casing & Cementing Program:

Please refer to the attached Drilling Program.

5. Drilling Fluids Program:

Please refer to the attached Drilling Program.

6. Evaluation Program:

Please refer to the attached Drilling Program.

7. **Abnormal Conditions:**

Maximum anticipated bottomhole pressure calculated at 8280' TD, approximately equals 5134 psi (calculated at 0.62 psi/foot).

Maximum anticipated surface pressure equals approximately 3312 psi (bottomhole pressure minus the pressure of a partially evacuated hole calculated at 0.22 psi/foot).

8. **Anticipated Starting Dates:**

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

9. **Variations:**

Please refer to the attached Drilling Program.

10. **Other Information:**

Please refer to the attached Drilling Program.



KERR-McGEE OIL & GAS ONSHORE LP DRILLING PROGRAM

CASING PROGRAM

	SIZE	INTERVAL	WT.	GR.	CPLG.	DESIGN FACTORS		
						BURST	COLLAPSE	TENSION
CONDUCTOR	14"	0-40'				2270	1370	254000
SURFACE	9-5/8"	0 to 1800	32.30	H-40	STC	7780	6350	201000
PRODUCTION	4-1/2"	0 to 8280	11.60	I-80	LTC	2.59	1.32	2.40

- 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 = 11.2 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 3001 psi

CEMENT PROGRAM

		FT. OF FILL	DESCRIPTION	SACKS	EXCESS	WEIGHT	YIELD
SURFACE Option 1	LEAD	500	Premium cmt + 2% CaCl + .25 pps flocele	215	60%	15.60	1.18
	TOP OUT CMT (1)	200	20 gals sodium silicate + Premium cmt + 2% CaCl + .25 pps flocele	50		15.60	1.18
	TOP OUT CMT (2)	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
SURFACE Option 2	LEAD	1500	NOTE: If well will circulate water to surface, option 2 will be utilized Prem cmt + 16% Gel + 10 pps gilsonite + 25 pps Flocele + 3% salt BWOC	70	35%	11.00	3.82
	TAIL	500	Premium cmt + 2% CaCl + .25 pps flocele	180	35%	15.60	1.18
	TOP OUT CMT	as required	Premium cmt + 2% CaCl	as req.		15.60	1.18
PRODUCTION	LEAD	3,410'	Premium Lite II + 3% KCl + 0.25 pps celloflake + 5 pps gilsonite + 10% gel + 0.5% extender	370	60%	11.00	3.38
	TAIL	4,870'	50/50 Poz/G + 10% salt + 2% gel +.1% R-3	1360	60%	14.30	1.31

*Substitute caliper hole volume plus 0% excess for LEAD if accurate caliper is obtained
 *Substitute caliper hole volume plus 10% excess for TAIL if accurate caliper is obtained

FLOAT EQUIPMENT & CENTRALIZERS

SURFACE	Guide shoe, 1 jt, insert float. Centralize first 3 joints with bow spring centralizers. Thread lock guide shoe.
PRODUCTION	Float shoe, 1 jt, float collar. Centralize first 3 joints & every third joint to top of tail cement with bow spring centralizers.

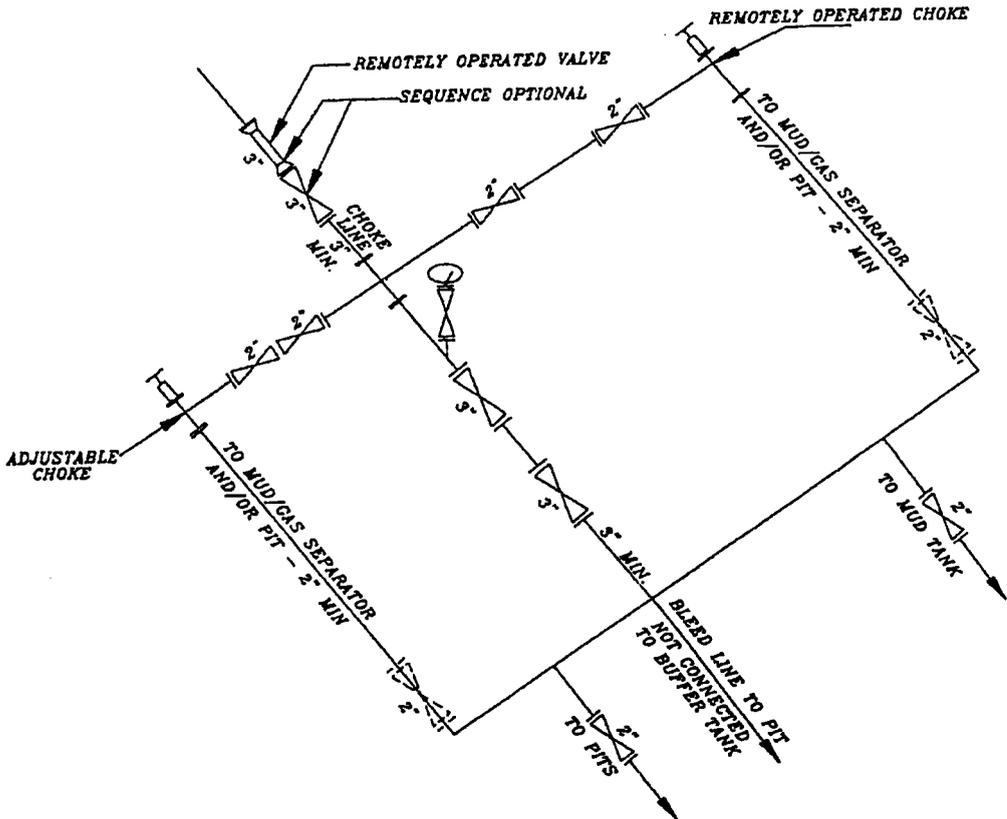
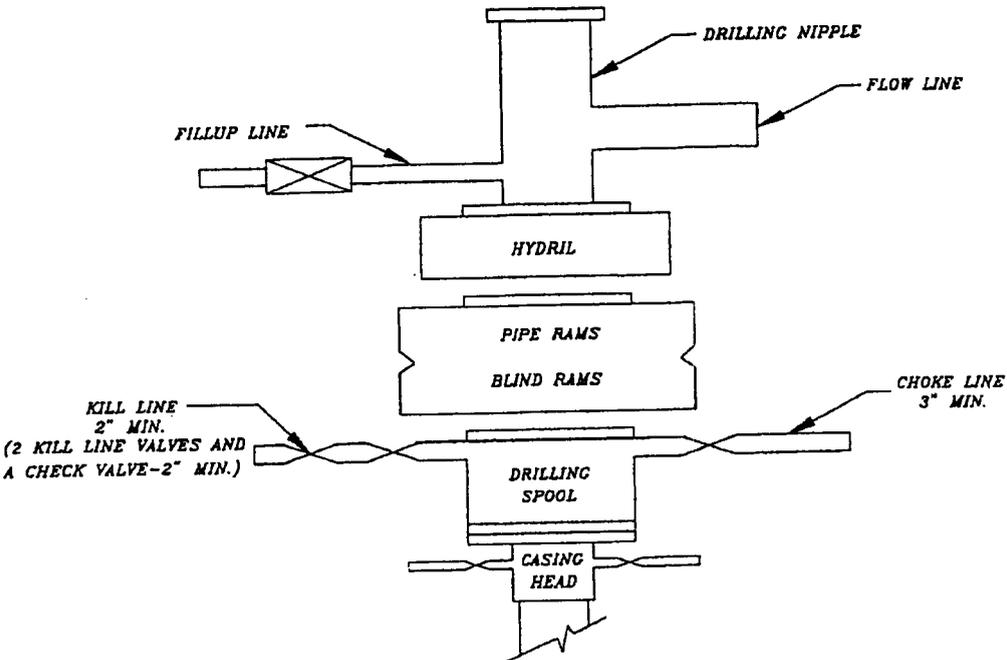
ADDITIONAL INFORMATION

Test casing head to 750 psi after installing. Test surface casing to 1,500 psi prior to drilling out.
 BOPE: 11" 5M with one annular and 2 rams. Test to 5,000 psi (annular to 2,500 psi) prior to drilling out. Record on chart recorder & tour sheet. Function test rams on each trip. Maintain safety valve & inside BOP on rig floor at all times. Kelly to be equipped with upper & lower kelly valves.
 Drop Totco surveys every 2000'. Maximum allowable hole angle is 5 degrees.
 Most rigs have PVT Systems for mud monitoring. If no PVT is available, visual monitoring will be utilized.

DRILLING ENGINEER: _____
 Brad Laney
 DRILLING SUPERINTENDENT: _____
 Randy Bayne

DATE: _____
 DATE: _____

5M BOP STACK and CHOKE MANIFOLD SYSTEM



**BITTER CREEK 1122-4J
NW/SE SEC. 4, T11S, R22E
UINTAH COUNTY, UTAH
UTU-71417**

ONSHORE ORDER NO. 1

MULTI-POINT SURFACE USE & OPERATIONS PLAN

1. Existing Roads:

Directions to the proposed location are attached.

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

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

2. Planned Access Roads:

Approximately 30' +/- of access road is proposed. Refer to Topo Map B for the access road.

The access road will be crowned (2 to 3%), ditched and constructed with a running surface of 18 feet and a maximum disturbed width of 30 feet. Graveling or capping the roadbed will be performed as necessary to provide a well constructed, safe road. Prior to construction or upgrading, the proposed road shall be cleared of any snow and allowed to dry completely.

Surface disturbance and vehicular traffic will be limited to the proposed location and proposed access route. Any additional area needed will be approved in advance. All construction shall be in conformance with the standards outlined in the BLM and Forest Service publication: Surface Operating Standards for Oil and Gas Exploration and Development. 1989.

The road surface and shoulders will be kept in a safe and usable condition and will be maintained in accordance with the original construction standards. All drainage ditches will be kept clear and free-flowing and will be maintained according to original construction standards. The access road surface will be kept free of trash during operations. All traffic will be confined to the approved disturbed surface. Road drainage crossings shall be designed so they will not cause siltation or accumulation of debris in the drainage crossing or shall the drainages be blocked by the road bed. Erosion of drainage ditches by runoff water shall be prevented by diverting water off at frequent intervals by means of cutouts. Should mud holes develop, they shall be filled in and detours around them avoided. When snow is removed from the road during the winter months, the snow shall be pushed outside of the borrow ditches, and the turnouts kept clear so that snowmelt will be channeled away from the road.

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

Please refer to Topo Map C.

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

The following guidelines will apply if the well is productive.

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

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

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

All facilities will be painted within six months of installation. Facilities required to comply with the Occupational Safety and Health Act (OSHA) will be excluded. The requested color is Carlsbad Canyon (2.5 Y 6/2) as determined during the on-site inspection.

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

Variations to Best Management Practices (BMP) Requests:

Approximately 76' +/- of 4" steel pipelines shall be installed to the proposed location. Refer to Topo Map D.

The pipeline will be butt-welded together. The pipeline shall be installed on surface within access corridor for the well location. As a Best Management Practice (BMP), the pipeline would be buried within the access road corridor if possible. The construction of pipelines requires the corridor of 30 feet.

This exception to the BMP should be granted by the BLM Authorized Officer because indurated bedrock, such as sandstone, is at or within 2 feet of the surface and the soil has a poor history for successful rehabilitation.

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

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

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

No water well is to be drilled on this lease.

6. Source of Construction Materials:

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

Any gravel will be obtained from a commercial source.

7. Methods of Handling Waste Materials:

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

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

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

A plastic reinforced liner is to be used as discussed during on-site inspection. It will be a minimum of 20 mil thick and felt with sufficient bedding used to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place. No trash or scrap that could puncture the liner will be disposed of in the pit.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site.

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

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

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

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

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

Any produced water from the proposed well will be contained in a water tank and will then be hauled by truck to one of the pre-approved disposal sites: RNI, Sec. 5, T9S, R22E, NBU #159, Sec.35, T9S, R21E, Ace Oilfield, Sec. 2, T6S, R20E, MC&MC, Sec. 12, T6S, R19E. (Request is in lieu of filing Form 3160-5, after initial production).

8. **Ancillary Facilities:**

None are anticipated.

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

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

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

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

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

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

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

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

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

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

Producing Location:

Interim Surface Reclamation Plan:

When the pit is backfilled within 180 days of well completion, the operator shall spread the top soil pile on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The operator will reseed the area using the BLM recommended seed mixture and reclamation methods.

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

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

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

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

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

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

Dry Hole/Abandoned Location:

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

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

When the pit is backfilled, the topsoil pile shall be spread on the location up to the rig anchor points. The location will be reshaped to the original contour to the extent possible. The following seed mixture will be used to reclaim the surface for interim reclamation using appropriate reclamation methods. A total of 12 lbs/acre will be used if the seeds are drilled (24 lbs/acre if the seeds are broadcast). The per acre requirements for drilled seeds are:

Galletta Grass	10 lbs.
Needle and Thread Grass	10 lbs

The operator shall call BLM for the seed mixture when final reclamation occurs.

11. Surface Ownership:

United States of America
Bureau of Land Management
170 South 500 East
Vernal, UT 84078
(435) 781-4400

12. STIPULATIONS:

WILDLIFE STIPULATIONS:

ANTELOPE: No drilling or construction from May 15th – June 20th.

SAGE GROUSE: No drilling or construction from March 1st – June 30th.

13. Other Information:

A Class III Archaeological Survey has been performed the report will be submitted when the report becomes available.

The Paleontological Reconnaissance Survey has been performed will be submitted when report becomes available.

All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, the approved Plan of Operations, and any applicable Notice of Lessees. The Operator is fully responsible for the actions of his subcontractors. A copy of these conditions will be furnished to the field representative to ensure compliance. The Operator will control noxious weeds along Rights-Of-Way for roads, pipelines, well sites, or other applicable facilities.

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

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

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

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

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

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

Bond coverage pursuant to 43 CFR 3104 for the lease activities is being provided by BLM Nationwide Bond #WYB000291.

I hereby certify that the proposed drill site and access route has been inspected and 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

October 30, 2007

Date

Kerr-McGee Oil & Gas Onshore LP
BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, 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; EXIT LEFT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.0 MILES TO OURAY, UTAH; PROCEED IN A SOUTHERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 11.2 MILES ON THE SEEP RIDGE ROAD TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY, THEN SOUTHEASTERLY DIRECTION APPROXIMATELY 10.7 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY, THEN SOUTHWESTERLY DIRECTION APPROXIMATELY 2.5 MILES TO THE BEGINNING OF THE PROPOSED ACCESS ROAD TO THE EAST; FOLLOW ROAD FLAGS IN AN EASTERLY DIRECTION APPROXIMATELY 30' TO THE PROPOSED LOCATION.

TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED WELL LOCATION IS APPROXIMATELY 55.4 MILES.

Kerr-McGee Oil & Gas Onshore LP

BITTER CREEK #1122-4J

LOCATED IN UINTAH COUNTY, UTAH

SECTION 4, T11S, R22E, S.L.B.&M.

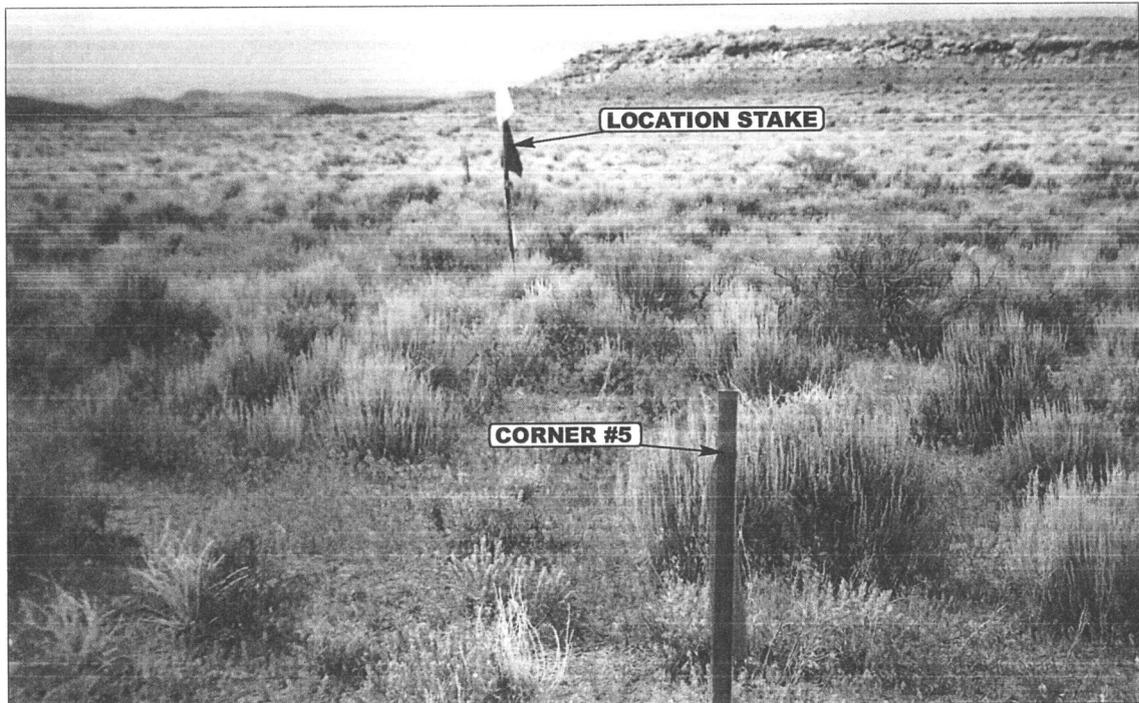


PHOTO: VIEW FROM CORNER #5 TO LOCATION STAKE

CAMERA ANGLE: NORTHWESTERLY



PHOTO: VIEW FROM BEGINNING OF PROPOSED ACCESS

CAMERA ANGLE: EASTERLY



- Since 1964 -

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

LOCATION PHOTOS

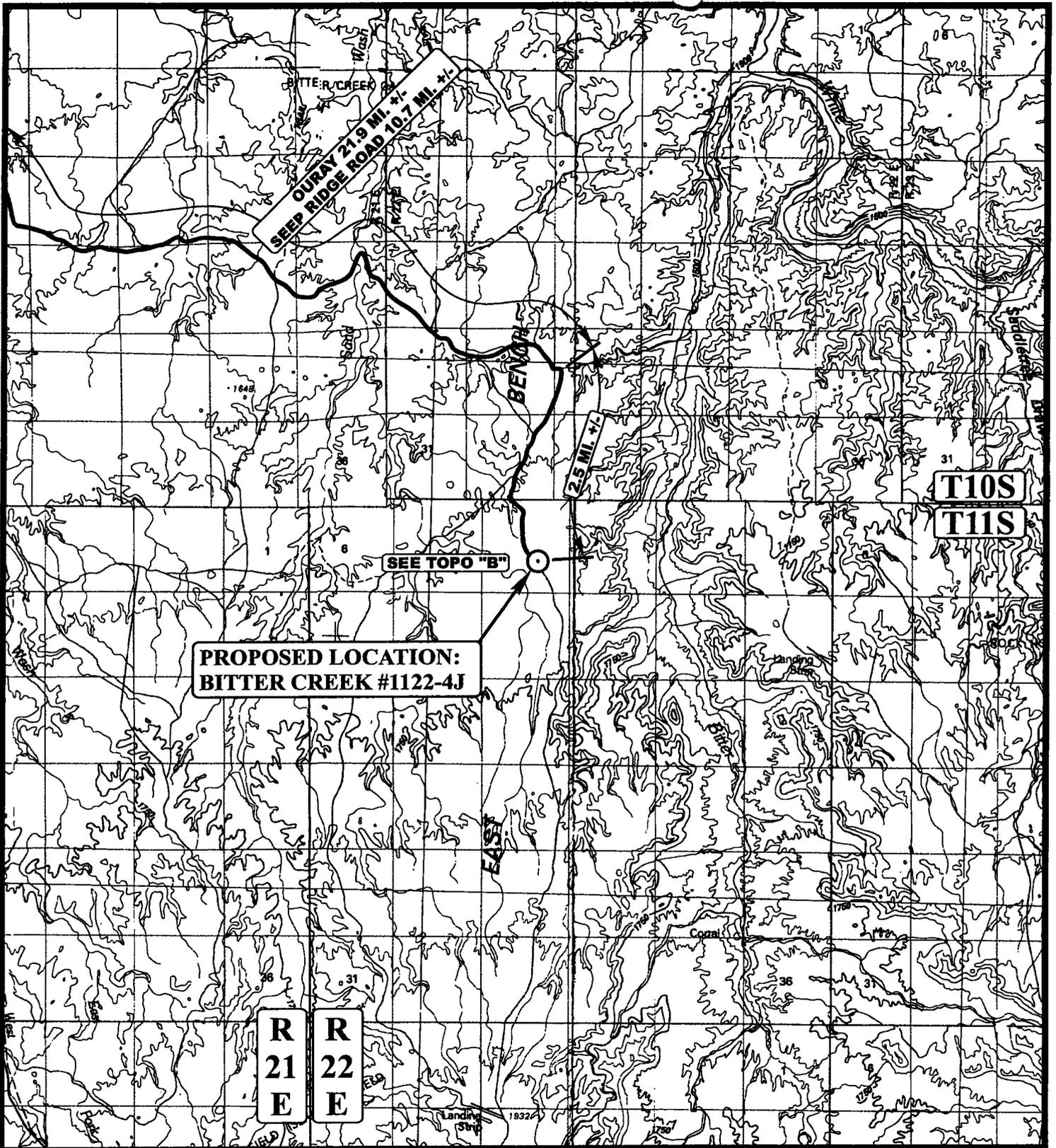
06 | 15 | 07
MONTH | DAY | YEAR

PHOTO

TAKEN BY: J.M.

DRAWN BY: C.P.

REVISED: 00-00-00



LEGEND:

○ PROPOSED LOCATION

Kerr-McGee Oil & Gas Onshore LP

**BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, S.L.B.&M.
2007' FSL 1954' FEL**



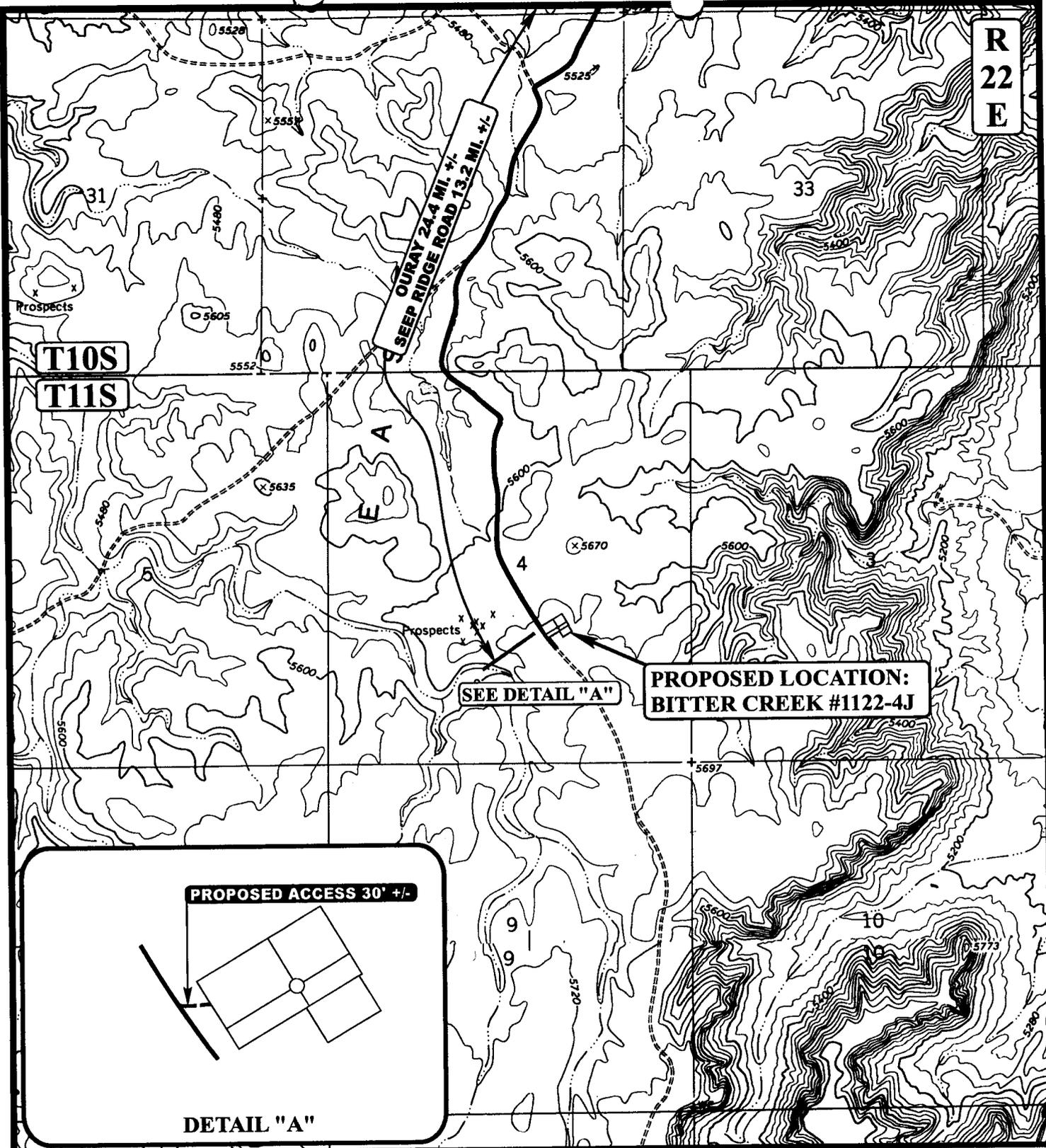
Uintah Engineering & Land Surveying
85 South 200 East Vernal, Utah 84078
(435) 789-1017 * FAX (435) 789-1813

**TOPOGRAPHIC
MAP**

06	15	07
MONTH	DAY	YEAR

SCALE: 1:100,000 | DRAWN BY: C.P. | REVISED: 00-00-00





R
22
E

T10S

T11S

**PROPOSED LOCATION:
BITTER CREEK #1122-4J**

SEE DETAIL "A"

PROPOSED ACCESS 30' +/-

DETAIL "A"

LEGEND:

- EXISTING ROAD
- - - - - PROPOSED ACCESS ROAD

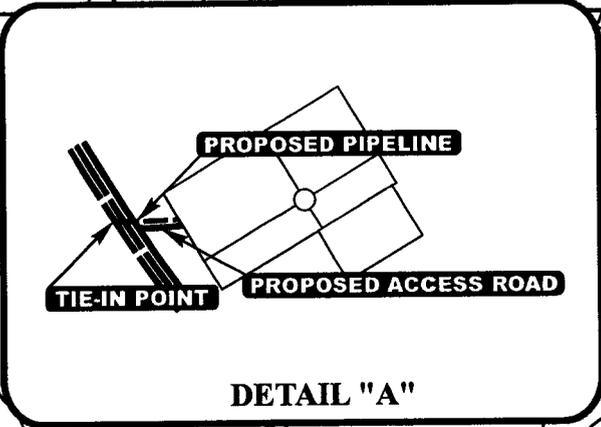
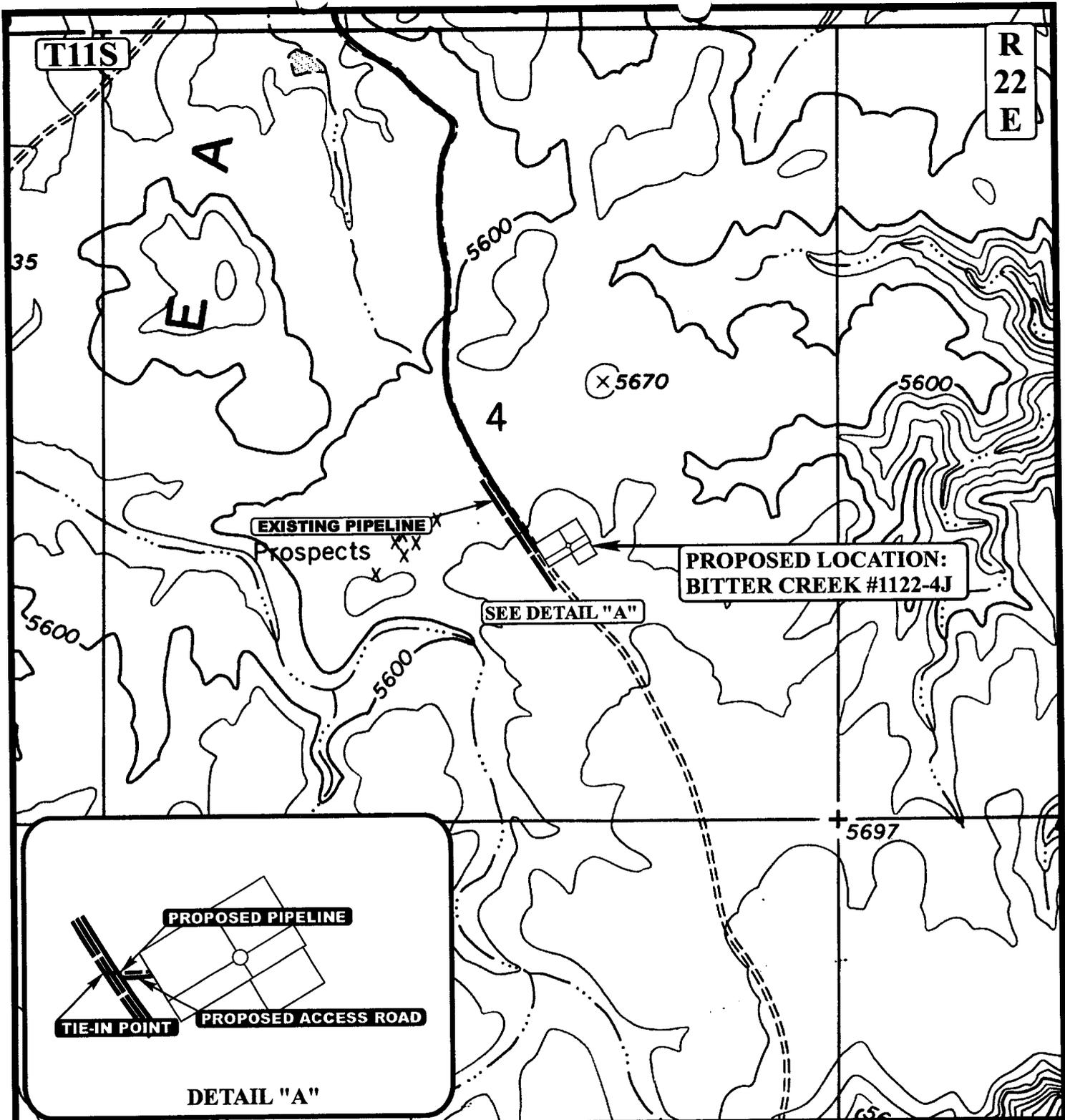


Kerr-McGee Oil & Gas Onshore LP

**BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, S.L.B.&M.
2007' FSL 1954' FEL**

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

TOPOGRAPHIC MAP	06	15	07	B TOPO
	MONTH	DAY	YEAR	
SCALE: 1" = 2000'	DRAWN BY: C.P.		REVISED: 00-00-00	



APPROXIMATE TOTAL PIPELINE DISTANCE = 76' +/-

LEGEND:

- PROPOSED ACCESS ROAD
- EXISTING PIPELINE
- PROPOSED PIPELINE

Kerr-McGee Oil & Gas Onshore LP

BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, S.L.B.&M.
2007' FSL 1954' FEL

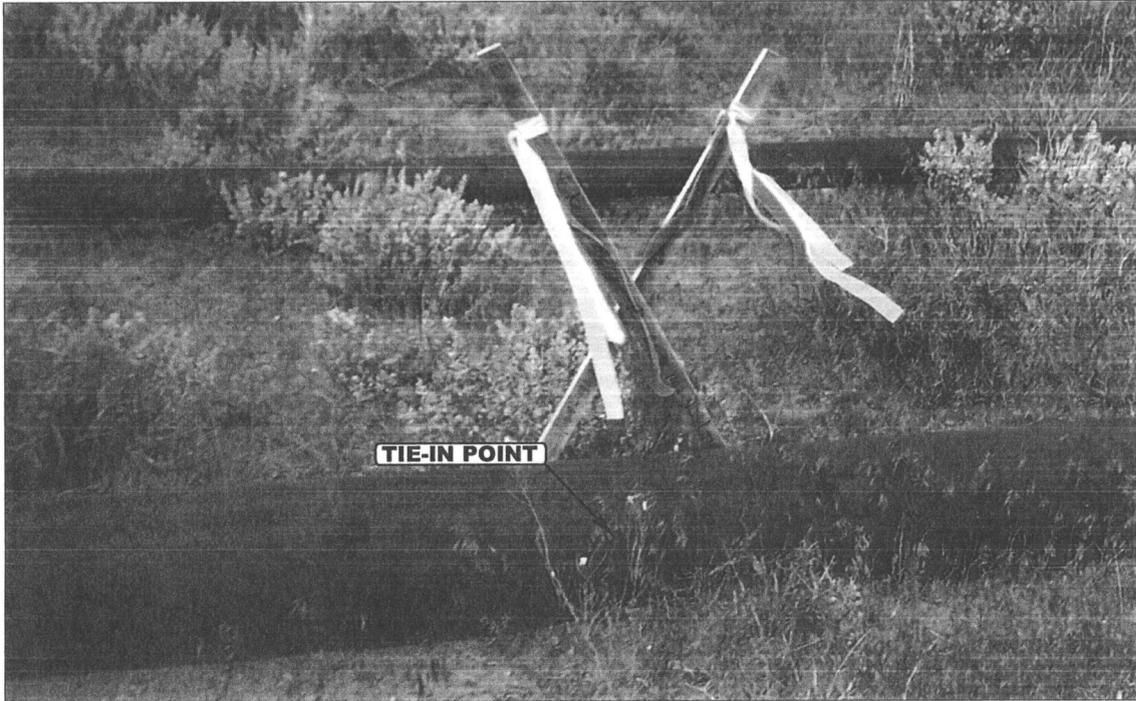


U E L S
Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 (435) 789-1017 * FAX (435) 789-1813

TOPOGRAPHIC 06 15 07
M A P MONTH DAY YEAR
 SCALE: 1" = 1000' DRAWN BY: C.P. REVISED: 00-00-00

D
TOPO

Kerr-McGee Oil & Gas Onshore LP
BITTER CREEK #1122-4J
 PIPELINE ALIGNMENT
 LOCATED IN UTAH COUNTY, UTAH
 SECTION 4, T11S, R22E, S.L.B.&M.



TIE-IN POINT

PHOTO: VIEW FROM TIE-IN POINT

CAMERA ANGLE: EASTERLY

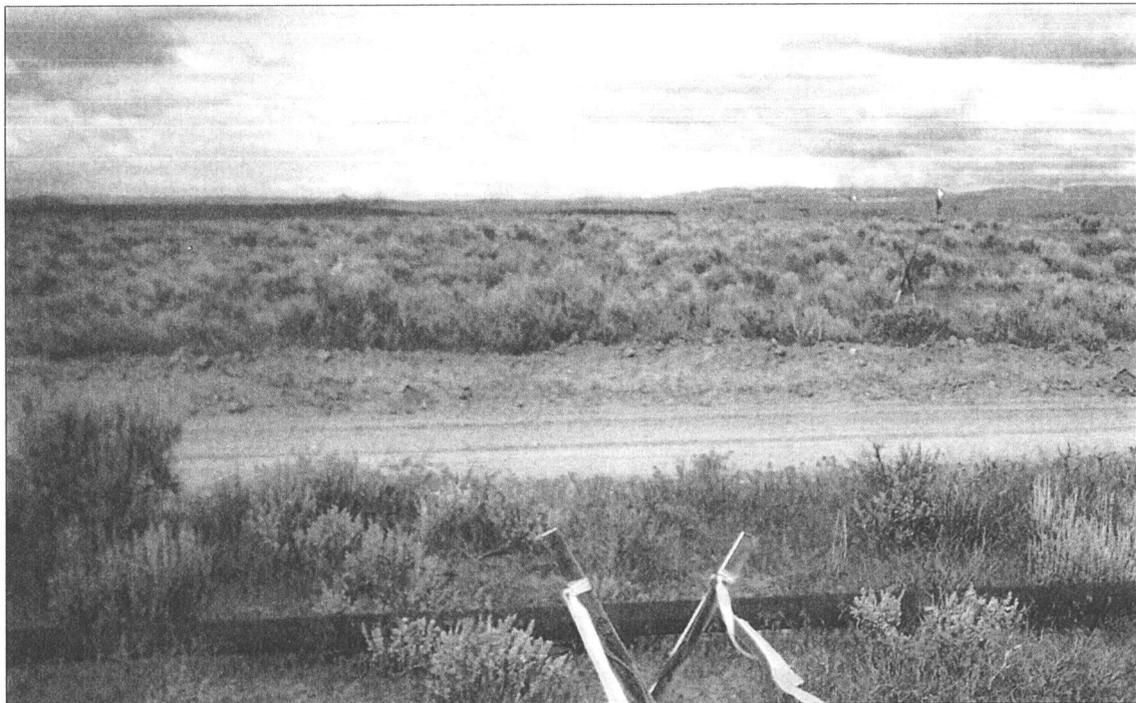


PHOTO: VIEW OF PIPELINE ALIGNMENT

CAMERA ANGLE: EASTERLY



- Since 1964 -

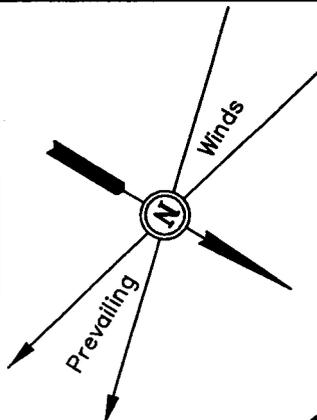
UELS Uintah Engineering & Land Surveying
 85 South 200 East Vernal, Utah 84078
 435-789-1017 uels@uelsinc.com

PIPELINE PHOTOS	06	15	07	PHOTO
	MONTH	DAY	YEAR	
TAKEN BY: J.M.	DRAWN BY: C.P.		REVISED: 00-00-00	

Kerr-McGee Oil & Gas Onshore LP

FIGURE #1

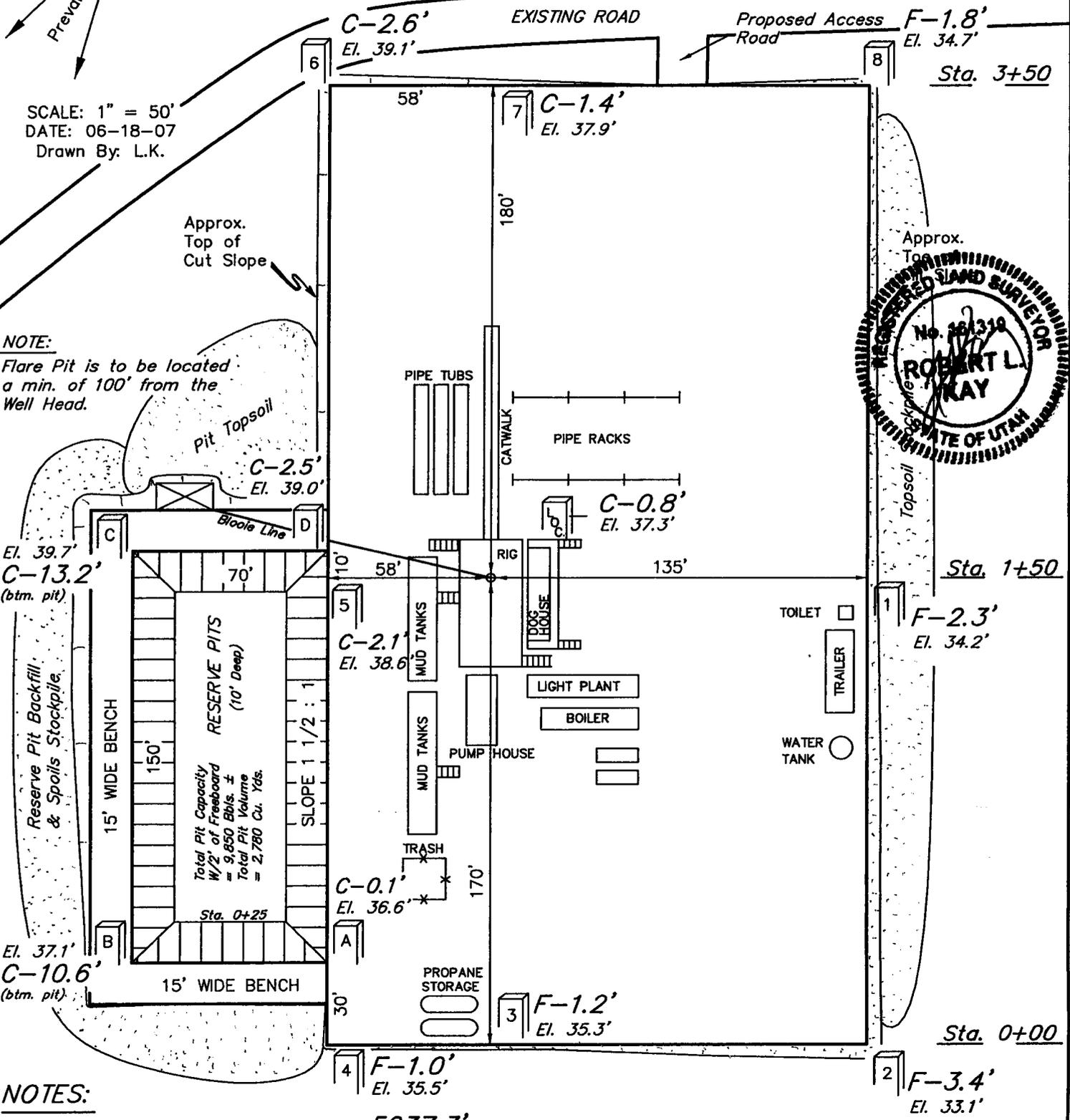
LOCATION LAYOUT FOR
BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, S.L.B.&M.
2007' FSL 1954' FEL



SCALE: 1" = 50'
DATE: 06-18-07
Drawn By: L.K.

NOTE:

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



NOTES:

Elev. Ungraded Ground At Loc. Stake = 5637.3'
FINISHED GRADE ELEV. AT LOC. STAKE = 5636.5'

Kerr-McGee Oil & Gas Onshore LP

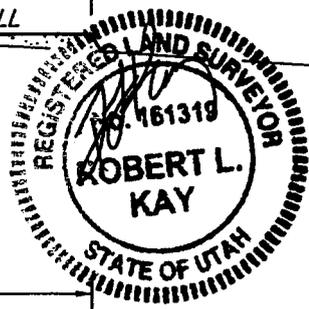
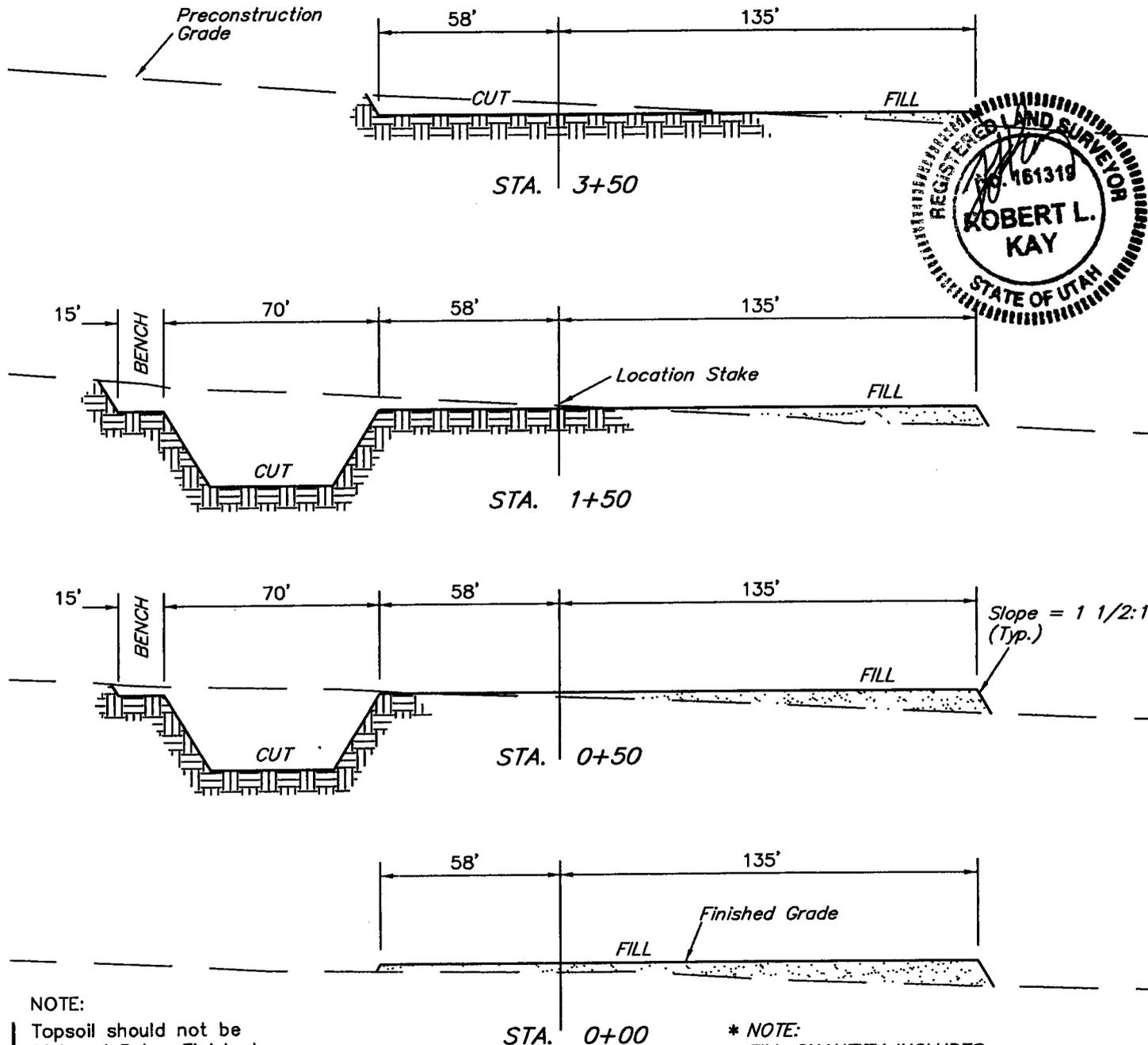
FIGURE #2

TYPICAL CROSS SECTIONS FOR

BITTER CREEK #1122-4J
SECTION 4, T11S, R22E, S.L.B.&M.
2007' FSL 1954' FEL

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

DATE: 06-18-07
Drawn By: L.K.



NOTE:

Topsoil should not be Stripped Below Finished Grade on Substructure Area.

* NOTE:

FILL QUANTITY INCLUDES 5% FOR COMPACTION

APPROXIMATE YARDAGES

CUT	
(6") Topsoil Stripping	= 1,650 Cu. Yds.
Remaining Location	= 4,560 Cu. Yds.
TOTAL CUT	= 6,210 CU.YDS.
FILL	= 3,170 CU.YDS.

EXCESS MATERIAL	= 3,040 Cu. Yds.
Topsoil & Pit Backfill (1/2 Pit Vol.)	= 3,040 Cu. Yds.
EXCESS UNBALANCE (After interim Rehabilitation)	= 0 Cu. Yds.

**WORKSHEET
APPLICATION FOR PERMIT TO DRILL**

APD RECEIVED: 11/02/2007

API NO. ASSIGNED: 43-047-39757

WELL NAME: BITTER CREEK 1122-4J
 OPERATOR: KERR-MCGEE OIL & GAS (N2995)
 CONTACT: SHEILA UPCHEGO

PHONE NUMBER: 435-781-7024

PROPOSED LOCATION:

NWSE 04 110S 220E
 SURFACE: 2007 FSL 1954 FEL
 BOTTOM: 2007 FSL 1954 FEL
 COUNTY: UINTAH
 LATITUDE: 39.88781 LONGITUDE: -109.4569
 UTM SURF EASTINGS: 631944 NORTHINGS: 4416235
 FIELD NAME: BITTER CREEK (547)

INSPECT LOCATN BY: / /		
Tech Review	Initials	Date
Engineering		
Geology		
Surface		

LEASE TYPE: 1 - Federal
 LEASE NUMBER: UTU-71417
 SURFACE OWNER: 1 - Federal

PROPOSED FORMATION: WSMVD
 COALBED METHANE WELL? NO

RECEIVED AND/OR REVIEWED:

- Plat
- Bond: Fed[1] Ind[] Sta[] Fee[]
(No. WYB000291)
- Potash (Y/N)
- Oil Shale 190-5 (B) or 190-3 or 190-13
- Water Permit
(No. 43-8496)
- RDCC Review (Y/N)
(Date: _____)
- Fee Surf Agreement (Y/N)
- Intent to Commingle (Y/N)

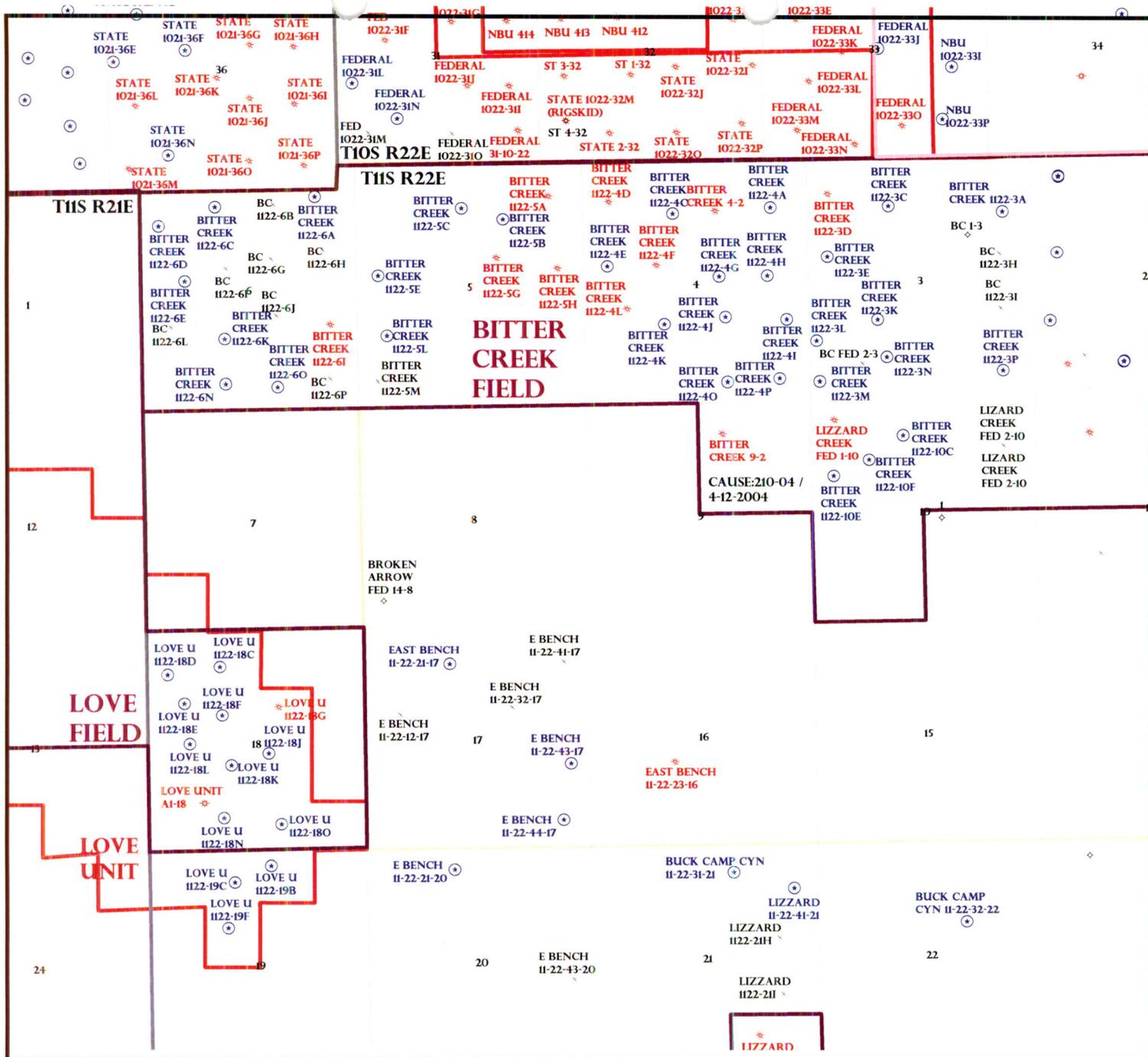
LOCATION AND SITING:

- _____ R649-2-3.
- Unit: _____
- _____ R649-3-2. General
Siting: 460' From Qtr/Qtr & 920' Between Wells
- _____ R649-3-3. Exception
- Drilling Unit
Board Cause No: 210-04
Eff Date: 4.12.04
Siting: 460' fr ext dir u bary & 920' fr other wells.
- _____ R649-3-11. Directional Drill

COMMENTS: _____

STIPULATIONS: _____

Sheila Upchego



OPERATOR: KERR MCGEE O&G (N2995)

SEC: 3,4,6,10 T.11S R. 22E

FIELD: BITTER CREEK (547)

COUNTY: UINTAH

CAUSE:210-04 / 4-12-2004

- 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



OIL, GAS & MINING



PREPARED BY: DIANA MASON
DATE: 07-NOVEMBER-2007



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 7, 2007

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

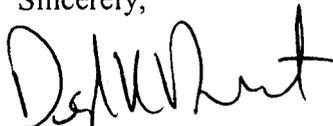
Re: Bitter Creek 1122-4J Well, 2007' FSL, 1954' FEL, NW SE, Sec. 4, T. 11 South,
R. 22 East, Uintah County, Utah

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 43-047-39757.

Sincerely,


(for) Gil Hunt
Associate Director

pab
Enclosures

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



Operator: Kerr McGee Oil & Gas Onshore LP

Well Name & Number Bitter Creek 1122-4J

API Number: 43-047-39757

Lease: UTU-71417

Location: NW SE Sec. 4 T. 11 South R. 22 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

Notify the division within 24 hours of spudding the well.

- Contact Carol Daniels at (801) 538-5284.

Notify the Division prior to commencing operations to plug and abandon the well.

- Contact Dustin Doucet at (801) 538-5281 (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. State approval of this well does not supersede the required federal approval, which must be obtained prior to drilling.

RECEIVED
VERNAL FIELD OFFICE

2007 OCT 31 PM 3:22

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.
UTU-71417

6. If Indian, Allottee or Tribe Name

7. If Unit of ~~CA~~ Agreement, Name and No.

UTU-80666

8. Lease Name and Well No.
BITTER CREEK 1122-4J

9. API Well No.
43 047 39757

10. Field and Pool, or Exploratory
UNDESIGNATED

11. Sec., T., R., M., or Blk, and Survey or Area
SEC. 4, T11S, R22E

12. County or Parish
UINTAH

13. State
UTAH

1a. Type of Work: DRILL REENTER

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

2. Name of Operator
KERR MCGEE OIL & GAS ONSHORE LP

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

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

4. Location of Well (Report location clearly and in accordance with any State requirements. *)
At surface **NW/SE 2007'FSL, 1954'FEL**
At proposed prod. Zone

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

15. Distance from proposed* location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)
1954'

16. No. of Acres in lease
1520.00

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
8280'

20. BLM/BIA Bond No. on file
BOND NO. WYB000291

21. Elevations (Show whether DF, KDB, RT, GL, etc.)
5637'GL

22. Approximate date work will start*

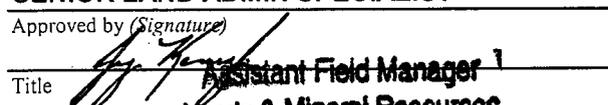
23. Estimated duration

24. Attachments

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

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

25. Signature  Name (Printed/Typed) **SHEILA UPCHEGO** Date **10/30/2007**
Title **SENIOR LAND ADMIN SPECIALIST**

Approved by  Name (Printed/Typed) **Terry Kenzka** Date **6-24-2008**
Title **Assistant Field Manager 1** Office **VERNAL FIELD OFFICE**
Lands & Mineral Resources

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. **CONDITIONS OF APPROVAL ATTACHED**

Title 18 U.S.C. Section 1001 and 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)

NOTICE OF APPROVAL

UDOGM

NOS: 07/10/2007
OFFP 2382A

RECEIVED
JUN 26 2008
DIV. OF OIL, GAS & MINING



**UNITED STATES DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
VERNAL FIELD OFFICE**

170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	Kerr-McGee Oil & Gas Onshore, LP	Location:	NWSE, Sec. 4, T11S, R22E
Well No:	Bitter Creek 1122-4J	Lease No:	UTU-71417
API No:	43-047-39757	Agreement:	CA UTU-80666

Title	Name	Office Phone Number	Cell Phone Number
Petroleum Engineer:	Matt Baker	(435) 781-4490	(435) 828-4470
Petroleum Engineer:	Michael Lee	(435) 781-4432	(435) 828-7875
Petroleum Engineer:	James Ashley	(435) 781-4470	(435) 828-7874
Petroleum Engineer:	Ryan Angus	(435) 781-4430	(435) 828-7368
Supervisory Petroleum Technician:	Jamie Sparger	(435) 781-4502	(435) 828-3913
Supervisory NRS:	Karl Wright	(435) 781-4484	(435) 828-7381
NRS/Enviro Scientist:	Holly Villa	(435) 781-4404	(435) 828-3544
NRS/Enviro Scientist:	James Hereford	(435) 781-3412	
NRS/Enviro Scientist:	Chuck Macdonald	(435) 781-4441	(435) 828-7481
NRS/Enviro Scientist:	Dan Emmett	(435) 781-3414	
NRS/Enviro Scientist:	Paul Percival	(435) 781-4493	
NRS/Enviro Scientist:	Michael Cutler	(435) 781-3401	(435) 828-3546
NRS/Enviro Scientist:	Anna Figueroa	(435) 781-3407	(435) 828-3548
NRS/Enviro Scientist:	Verlyn Pindell	(435) 781-3402	(435) 828-3547
NRS/Enviro Scientist:	Darren Williams	(435) 781-4447	(435) 828-4029
NRS/Enviro Scientist:	Nathan Packer	(435) 781-3405	(435) 828-3545

Fax: (435) 781-3420

**A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR
FIELD REPRESENTATIVE TO INSURE COMPLIANCE**

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. **This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.**

NOTIFICATION REQUIREMENTS

Location Construction (Notify Environmental Scientist)	-	Forty-Eight (48) hours prior to construction of location and access roads.
Location Completion (Notify Environmental Scientist)	-	Prior to moving on the drilling rig.
Spud Notice (Notify Petroleum Engineer)	-	Twenty-Four (24) hours prior to spudding the well.
Casing String & Cementing (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to running casing and cementing all casing strings.
BOP & Related Equipment Tests (Notify Supv. Petroleum Tech.)	-	Twenty-Four (24) hours prior to initiating pressure tests.
First Production Notice (Notify Petroleum Engineer)	-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.

***SURFACE USE PROGRAM
CONDITIONS OF APPROVAL (COAs)***

Surface COAs:

- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COAs:

- Adhere to Executive Order 5327 of April 15, 1930, stipulations for lands in oil shale withdrawal.
- All applicable local, state, and/or federal laws, regulations, and/or statutes will be complied with.
- All traffic related to this action will be restricted to approved routes. Cross-country vehicle travel will not be allowed.
- No vehicle travel, construction or routine maintenance activities shall be performed during periods when the soil is too wet to adequately support vehicles and/or construction equipment. If such equipment creates ruts in excess of four inches deep, the soil shall be deemed too wet to adequately support construction equipment.
- The access roads will be crowned and ditched. Flat-bladed roads are not allowed.
- If additional erosion occurs during the life of this project, more culverts, low water crossings, berms, wing ditches or etc. will be needed to control the erosion.
- All secondary drainages shall be rerouted around the location, as needed.
- Low-water crossings will be appropriately constructed to avoid sedimentation of drainage ways and other water resources.
- Pipelines will be buried at all major drainage crossings.
- Prevent fill and stock piles from entering drainages.
- The reserve pit will be lined with a 16 ml or greater liner and doubled felted prior to spudding.
- The liner is to be cut 5 feet below ground surface or at the level of the cuttings, whichever is deeper, and the excess liner material is to be disposed of at an authorized disposal site.

- When the reserve pit contains fluids or toxic substances, the operator must ensure animals do not ingest or become entrapped in pit fluids.
- If Uinta Basin hookless cactus or other special status plants are found, construction will cease and the AO will be notified to determine the appropriate mitigation.
- The interim seed mix for this location shall be:

Galleta grass	Hilaria jamesii	10 lbs. acre
Indian rice grass	Oryzopsis hymenoides	10 lbs. acre
Needle & Thread grass	Stipa comata	10 lbs. acre

All pounds are in pure live seed.

- Rates are set for drill seeding; double the rate if broadcasting.
 - Reseeding may be required if initial seeding is not successful.
- The operator will be responsible for treatment and control of invasive and noxious weeds following the operator submitted PUP plan provided the BLM before this project construction begins.
 - The topsoil from the reserve pit shall be stripped and piled separately near the reserve pit and posted/marked topsoil. When the reserve pit is closed, it shall be contoured and the topsoil spread, and the area shall be seeded in the same manner as the location topsoil to comply with natural topography.
 - Once the location is plugged and abandoned, it shall be contoured to natural topography, topsoil shall be spread, and the entire location shall be seeded with a seed mix recommended by the AO (preferably of native origin). Seed application will follow all guidelines in the interim seed mix bullet statement above. Seeding guidelines will be provided by the BLM to the operator with prescribed seeding recommendations.
 - The authorized officer may prohibit surface disturbing activities during severe winter conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
 - The authorized officer may prohibit surface disturbing activities during wet or muddy conditions to minimize watershed damage. This limitation does not apply to operation and maintenance of producing wells.
 - All well facilities not regulated by OSHA will be painted Carlsbad Canyon.
 - All boulders with a length or diameter greater than 3 feet, that are found showing at the surface, will be stockpiled for use during final reclamation.
 - The habitat will be protected (no or little development) within 2 miles (3.2 km) of active leks.

- a. All human disturbances will be minimized within sight or 0.3 mile (0.5 km) of active leks during breeding season during early morning or evening when birds are likely to be found on the leks; and
 - a. Avoid constructing above ground powerlines, or other tall structures within two (2) miles of seasonal habitat.
- Well pads will be located out of the line of sight/hearing at the leks by considering topographical or vegetative screening features as well as centralized tank batteries, use of low profile tanks, and pointing exhaust from heater-treater to the north and northeast at proposed locations.
 - a. Proper placement of well locations can reduce the impact out of hearing >10 dBA above natural ambient noise.
- Construction, drilling, completion and workover activities will not be allowed within two miles of active leks from March 1 through June 15.
- Other structures such as fences, poles, utilities, will not be constructed within the two mile buffer of active leks, unless the proposed project is reviewed by BLM and UDWR and a waiver issued for this measure on an approved design.
- Operational activities (trucks driving to well locations, well, road, pipeline surveys, pipeline maintenance etc.) will be minimized March 1 through June 15 one hour prior to sunrise to three hours after sunrise.
- No construction, drilling, completion activities will be allowed from May 15-June 20 to help protect pronghorn kidding in the area.
- Golden eagle nesting a timing restriction from February 1 through July 30 will be applied to the following well locations:

Bitter Creek Well 1121 6K Location NESW Section 6, T 11 S R22 E.
Bitter Creek Well 1121 6E Location SWNW Section 6, T 11 S R22 E.
Bitter Creek Well 1121 6D Location NWNW Section 6, T 11 S R22 E.

- Notify the Authorized Officer 48 hours prior to surface disturbing activities.

DOWNHOLE CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

- **Communitization Agreement UTU-80666, (S2NE, SE, Lots 1,2,7,8, Section 4, T11S, R22E) was approved to include only production from the WSTC-MSVD formation. Prior to well completion, approval by this office shall be required before production is established from any other formation(s).**
- A surface casing shoe integrity test shall be performed.
- Production casing cement top shall be at a minimum of 200' above the surface casing shoe.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.
- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and **NOT** by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- **Cement baskets shall not be run on surface casing.**

- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- Chronologic drilling progress reports shall be filed directly with the BLM, Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- **Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Wellogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.**
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

OPERATING REQUIREMENT REMINDERS:

- All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be notified when it is placed in a producing status. Such notification will be by written communication and must be received in this office by not later than the fifth business day following the date on which the well is placed on production. The notification shall provide, as a minimum, the following informational items:
 - Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.

- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.
- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office Petroleum Engineers will be provided with a date and time for the initial meter calibration and all future meter proving schedules. A copy of the meter calibration reports shall be submitted to the BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover equipment shall be removed from a well to be placed in a suspended status without prior approval of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior approval of the BLM Vernal Field Office shall be obtained and notification given before resumption of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.

- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

DIVISION OF OIL, GAS AND MINING

SPUDDING INFORMATION

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

Well Name: **Bitter Creek 1122-4J**

API No: **43-047-39757** Lease Type: **Federal**

Section **04** Township **11S** Range **22E** County **Uintah**

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

SPUDDED:

Date **10-20-08**

Time **8:00 AM**

How **Dry**

Drilling will Commence: _____

Reported by **Lew Weldon**

Telephone # **435-781-7060**

Date **10-23-08** Signed **RM**

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
4304739757	BITTER CREEK 1122-4J		NWSE	4	11	22	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17168	10/20/2008		10/28/08		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W57MVD</i> SPUD WELL LOCATION ON 10/20/2008 AT 0800 HRS.							

Well 2

API Number	Well Name		QQ	Sec	Twp	Rng	County
4304739752	BITTER CREEK 1122-4G		SWNE	4	11	22	UINTAH
Action Code	Current Entity Number	New Entity Number	Spud Date		Entity Assignment Effective Date		
A	99999	17169	10/28/2008		10/28/08		
Comments: MIRU PETE MARTIN BUCKET RIG. <i>W57MVD</i> SPUD WELL LOCATION ON 10/28/2008 AT 0800 HRS.							

Well 3

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

ACTION CODES:

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

SHEILA UPCHEGO

Name (Please Print)

Signature

REGULATORY ANALYST

Title

10/28/2008

Date

RECEIVED

OCT 28 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.
UTU-71417

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU-80666

8. Well Name and No.
BITTER CREEK 1122-4J

9. API Well No.
4304739757

10. Field and Pool, or Exploratory Area
UNDESIGNATED

11. County or Parish, State
UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE – Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**2007' FSL, 1954' FEL
NW/SE, SEC.4, T11S-R22E**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

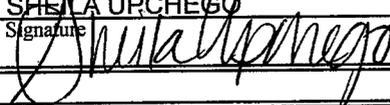
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other <u>WELL SPUD</u>
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

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 10/20/2008 AT 0800 HRS.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) SHEILA URCHEGO	Title REGULATORY ANALYST
Signature 	Date October 28, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

Title 18 U.S.C. Section 1001, 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)

RECEIVED

NOV 04 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT
SUNDRY NOTICES AND REPORTS ON WELLS

Do not use this form for proposals to drill or reenter an abandoned well. Use Form 3160-3 (APD) for such proposals.

FORM APPROVED
OMB No. 1004-0135
Expires November 30, 2000

5. Lease Serial No.
UTU-71417

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.
UTU-80666

8. Well Name and No.
BITTER CREEK 1122-4J

9. API Well No.
4304739757

10. Field and Pool, or Exploratory Area
UNDESIGNATED

11. County or Parish, State
UINTAH COUNTY, UTAH

SUBMIT IN TRIPLICATE - Other instructions on reverse side

1. Type of Well
 Oil Well Gas Well Other

2. Name of Operator
KERR-McGEE OIL & GAS ONSHORE LP

3a. Address
1368 SOUTH 1200 EAST VERNAL, UT 84078

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

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
**2007' FSL, 1954' FEL
NW/SE, SEC.4, T11S-R22E**

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input checked="" type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other SET SURFACE
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	CSG
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	

13. Describe Proposed or Completed Operations (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.

MIRU PROPETRO AIR RIG ON 10/22/2008. DRILLED 12 1/4" SURFACE HOLE TO 1845'. RAN 9 5/8" 36# J-55 SURFACE CSG. CMT W/150 SX PREM CLASS G @15.8 PPG 1.15 YIELD. NO RETURNS TO PIT +/- 220 PSI LIFT TOP OUT W/100 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE. 2ND TOP OUT W/ 75 SX PREM CLASS G @15.8 PPG 1.15 YIELD. DOWN BACKSIDE GOOD CMT TO SURFACE HOLE STAYED FULL.

WORT.

14. I hereby certify that the foregoing is true and correct

Name (Printed/Typed) SHEILA UPCHEGO	Title REGULATORY ANALYST
Signature <i>Sheila Upchego</i>	Date October 27, 2008

THIS SPACE FOR FEDERAL OR STATE USE

Approved by	Title	Date
Conditions of approval, if any, are attached. Approval of this notice 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.	Office	

Title 18 U.S.C. Section 1001, 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)

RECEIVED

NOV 04 2008

DIV. OF OIL, GAS & MINING

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

FORM APPROVED
OMB NO. 1004-0135
Expires: July 31, 2010

SUNDRY NOTICES AND REPORTS ON WELLS
Do not use this form for proposals to drill or to re-enter an abandoned well. Use form 3160-3 (APD) for such proposals.

5. Lease Serial No.
UTU71417

6. If Indian, Allottee or Tribe Name

7. If Unit or CA/Agreement, Name and/or No.

SUBMIT IN TRIPLICATE - Other instructions on reverse side.

1. Type of Well
 Oil Well Gas Well Other

8. Well Name and No.
BITTER CREEK 1122-4J

2. Name of Operator
KERR-MCGEE OIL & GAS ONSHORE
Contact: SHEILA UPCHEGO
Email: sheila.upchego@anadarko.com

9. API Well No.
43-047-39757

3a. Address
1368 SOUTH 1200 EAST
VERNAL, UT 84078

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

10. Field and Pool, or Exploratory
UNDESIGNATED

4. Location of Well (Footage, Sec., T., R., M., or Survey Description)
Sec 4 T11S R22E NWSE 2007FSL 1954FEL

11. County or Parish, and State
UINTAH COUNTY, UT

12. CHECK APPROPRIATE BOX(ES) TO INDICATE NATURE OF NOTICE, REPORT, OR OTHER DATA

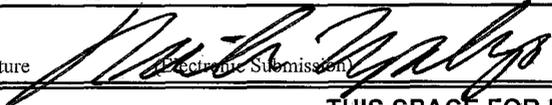
TYPE OF SUBMISSION	TYPE OF ACTION			
<input type="checkbox"/> Notice of Intent	<input type="checkbox"/> Acidize	<input type="checkbox"/> Deepen	<input type="checkbox"/> Production (Start/Resume)	<input type="checkbox"/> Water Shut-Off
<input type="checkbox"/> Subsequent Report	<input type="checkbox"/> Alter Casing	<input type="checkbox"/> Fracture Treat	<input type="checkbox"/> Reclamation	<input type="checkbox"/> Well Integrity
<input type="checkbox"/> Final Abandonment Notice	<input type="checkbox"/> Casing Repair	<input type="checkbox"/> New Construction	<input type="checkbox"/> Recomplete	<input checked="" type="checkbox"/> Other
	<input type="checkbox"/> Change Plans	<input type="checkbox"/> Plug and Abandon	<input type="checkbox"/> Temporarily Abandon	Suspension of Operations and/or Production
	<input type="checkbox"/> Convert to Injection	<input type="checkbox"/> Plug Back	<input type="checkbox"/> Water Disposal	on

13. Describe Proposed or Completed Operation (clearly state all pertinent details, including estimated starting date of any proposed work and approximate duration thereof. If the proposal is to deepen directionally or recomplete horizontally, give subsurface locations and measured and true vertical depths of all pertinent markers and zones. Attach the Bond under which the work will be performed or provide the Bond No. on file with BLM/BIA. Required subsequent reports shall be filed within 30 days following completion of the involved operations. If the operation results in a multiple completion or recompletion in a new interval, a Form 3160-4 shall be filed once testing has been completed. Final Abandonment Notices shall be filed only after all requirements, including reclamation, have been completed, and the operator has determined that the site is ready for final inspection.)

THE OPERATOR REQUESTS AUTHORIZATION TO SUSPEND THE DRILLING OPERATIONS. THE OPERATOR HAS SET SURFACE CSG TO 1845'. AT THIS TIME THE SUBJECT WELL LOCATION IS ON OUR DRILLING SCHEDULE TO BE DRILLED BETWEEN THE 4TH QUARTER OF 2009 OR 1ST QUARTER OF 2010.

14. I hereby certify that the foregoing is true and correct.
**Electronic Submission #67836 verified by the BLM Well Information System
 For KERR-MCGEE OIL & GAS ONSHORE L, sent to the Vernal**

Name (Printed/Typed) SHEILA UPCHEGO Title OPERATIONS

Signature  Date 03/05/2009

THIS SPACE FOR FEDERAL OR STATE OFFICE USE

Approved By _____ Title _____ Date _____

Conditions of approval, if any, are attached. Approval of this notice 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.

Office _____

Title 18 U.S.C. Section 1001 and 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.

**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

**RECEIVED
MAR 09 2009**

DIV. OF OIL, GAS & MINING

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71417
---	--

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BITTER CREEK 1122-4J
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047397570000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2007 FSL 1954 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 04 Township: 11.0S Range: 22.0E Meridian: S	COUNTY: Uintah STATE: Utah
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 11/13/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: OPERATIONS SUSPEN

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

THE OPERATOR REQUESTS AUTHORIZATION TO SUSPEND THE DRILLING OPERATIONS. THE OPERATOR HAS SET SURFACE CASING TO 1845'. AT THIS TIME THE SUBJECT WELL LOCATION IS ON OUR DRILL SCHEDULE TO BE DRILLED BY FOURTH QUARTER 2010.

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Date: November 16, 2009
By: *Derek [Signature]*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 11/12/2009



The Utah Division of Oil, Gas, and Mining

- State of Utah
- Department of Natural Resources

Electronic Permitting System - Sundry Notices

Sundry Conditions of Approval Well Number 43047397570000

See requirements of R649-3-36.

REQUEST DENIED
Utah Division of
Oil, Gas and Mining

Date: November 16, 2009
By: *Dan K. Quist*

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9
5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71417	

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BITTER CREEK 1122-4J
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047397570000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2007 FSL 1954 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 04 Township: 11.0S Range: 22.0E Meridian: S	COUNTY: UINTAH
	STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 12/18/2009 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input type="checkbox"/> OTHER	<input type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input checked="" type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER:

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

The Operator requests authorization to Temporarily Abandon and defer drilling operations on this well. Current status of this wellbore is: The 9 5/8" surface casing for this well was set and cemented in place on 10/24/2008 to a depth of 1845' feet. The casing was run with a float collar approximately 42' above the guide shoe. Cement was circulated down the casing with the wiper plug bumped with 500 psi over circulating pressure. Cement was circulated to surface up the backside and topped off with cement down the backside to ensure complete fill up of the annulus to surface. The well has been inspected in the last month to ensure well integrity. Covers have been installed on the well, the cellar rings and pits have been backfilled. This well is on the drill schedule to be drilled by the end of the year 2010.

Accepted by the Utah Division of Oil, Gas and Mining

Date: December 17, 2009

By: *Dart K. Lytle*

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 12/17/2009	

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71417
---	--

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BITTER CREEK 1122-4J
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047397570000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2007 FSL 1954 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 04 Township: 11.0S Range: 22.0E Meridian: S	COUNTY: Uintah STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 7/14/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER:

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

FINISHED DRILLING FROM 1845' TO 8460' ON JULY 12, 2010. RAN 4 1/2" 11.6# I-80 PRODUCTION CSG. PUMP 40 BBLS SPACER, LEAD CEMENT W/ 380 SX CLASS G PREM LITE @ 11.6 PPG, 2.62 YD. TAILED CEMENT W/ 1062 SX CLASS G 50/50 POZ MIX @ 14.3 PPG, 1.31 YD. DISPLACED W/ 131 BBLS CLAY TREAT WATER, BUMPED PLUG, FLOATS HELD. 10 BBLS LEAD BACK TO SURFACE. EST. TOP OF TAIL @ 2336'. RD CEMENTERS AND CLEANED PITS. RELEASED PIONEER RIG #69 ON JULY 14, 2010 @ 18:00 HRS.

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

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A		DATE 7/15/2010

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71417
---	--

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

1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BITTER CREEK 1122-4J
------------------------------------	---

2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047397570000
---	---

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

4. LOCATION OF WELL FOOTAGES AT SURFACE: 2007 FSL 1954 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 04 Township: 11.0S Range: 22.0E Meridian: S	COUNTY: UINTAH STATE: UTAH
---	---

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input type="checkbox"/> NOTICE OF INTENT Approximate date work will start:	<input type="checkbox"/> ACIDIZE	<input type="checkbox"/> ALTER CASING	<input type="checkbox"/> CASING REPAIR
<input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion:	<input type="checkbox"/> CHANGE TO PREVIOUS PLANS	<input type="checkbox"/> CHANGE TUBING	<input type="checkbox"/> CHANGE WELL NAME
<input type="checkbox"/> SPUD REPORT Date of Spud:	<input type="checkbox"/> CHANGE WELL STATUS	<input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS	<input type="checkbox"/> CONVERT WELL TYPE
<input checked="" type="checkbox"/> DRILLING REPORT Report Date: 8/2/2010	<input type="checkbox"/> DEEPEN	<input type="checkbox"/> FRACTURE TREAT	<input type="checkbox"/> NEW CONSTRUCTION
	<input type="checkbox"/> OPERATOR CHANGE	<input type="checkbox"/> PLUG AND ABANDON	<input type="checkbox"/> PLUG BACK
	<input checked="" type="checkbox"/> PRODUCTION START OR RESUME	<input type="checkbox"/> RECLAMATION OF WELL SITE	<input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION
	<input type="checkbox"/> REPERFORATE CURRENT FORMATION	<input type="checkbox"/> SIDETRACK TO REPAIR WELL	<input type="checkbox"/> TEMPORARY ABANDON
	<input type="checkbox"/> TUBING REPAIR	<input type="checkbox"/> VENT OR FLARE	<input type="checkbox"/> WATER DISPOSAL
	<input type="checkbox"/> WATER SHUTOFF	<input type="checkbox"/> SI TA STATUS EXTENSION	<input type="checkbox"/> APD EXTENSION
	<input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> OTHER	OTHER: <input style="width: 100px;" type="text"/>

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

THE SUBJECT WELL WAS PLACED ON PRODUCTION ON AUGUST 2, 2010 AT 11:00 A.M. THE CHRONOLOGICAL WELL HISTORY WILL BE SUBMITTED WITH THE WELL COMPLETION REPORT.

Accepted by the
Utah Division of
Oil, Gas and Mining
FOR RECORD ONLY
 August 03, 2010

NAME (PLEASE PRINT) Andy Lytle	PHONE NUMBER 720 929-6100	TITLE Regulatory Analyst
SIGNATURE N/A	DATE 8/3/2010	

UNITED STATES
DEPARTMENT OF THE INTERIOR
BUREAU OF LAND MANAGEMENT

COPY

FORM APPROVED
OMB No. 1004-0137
Expires: July 31, 2010

WELL COMPLETION OR RECOMPLETION REPORT AND LOG

5. Lease Serial No.
UTU71417

1a. Type of Well Oil Well Gas Well Dry Other
 b. Type of Completion New Well Work Over Deepen Plug Back Diff. Resvr.
 Other _____

6. If Indian, Allottee or Tribe Name _____
 7. Unit or CA Agreement Name and No. _____

2. Name of Operator
KERR-MCGEE OIL&GAS ONSHORELLP Contact: ANDY LYTLE
 Email: andrew.lytle@anadarko.com

8. Lease Name and Well No.
BITTER CRREK 1122-4J

3. Address P.O. BOX 173779
DENVER, CO 80217 3a. Phone No. (include area code)
Ph: 720-929-6100

9. API Well No. 43-047-39757

4. Location of Well (Report location clearly and in accordance with Federal requirements)*
 At surface NWSE 2007FSL 1954FEL 39.88785 N Lat, 109.45686 W Lon
 At top prod interval reported below NWSE 2007FSL 1954FEL 39.88785 N Lat, 109.45686 W Lon
 At total depth NWSE 2007FSL 1954FEL 39.88785 N Lat, 109.45686 W Lon

10. Field and Pool, or Exploratory
NATURAL BUTTES

11. Sec., T., R., M., or Block and Survey
or Area Sec 4 T11S R22E Mer SLB

12. County or Parish UINTAH 13. State UT

14. Date Spudded 10/20/2008 15. Date T.D. Reached 07/12/2010 16. Date Completed
 D & A Ready to Prod. 08/02/2010

17. Elevations (DF, KB, RT, GL)* 5637 GL

18. Total Depth: MD 8460 TVD 8457 19. Plug Back T.D.: MD 8405 TVD 8402 20. Depth Bridge Plug Set: MD TVD

21. Type Electric & Other Mechanical Logs Run (Submit copy of each)
 CBL/GR-HDIL/ZDL/CN/GR

22. Was well cored? No Yes (Submit analysis)
 Was DST run? No Yes (Submit analysis)
 Directional Survey? No Yes (Submit analysis)

23. Casing and Liner Record (Report all strings set in well)

Hole Size	Size/Grade	Wt. (#/ft.)	Top (MD)	Bottom (MD)	Stage Cementer Depth	No. of Sks. & Type of Cement	Slurry Vol. (BBL)	Cement Top*	Amount Pulled
20.000	14.000 STEEL	36.7		40		28			
12.250	9.625 J55	36.0		1834		525			
7.875	4.500 180	11.6		8449		1442			

24. Tubing Record

Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)	Size	Depth Set (MD)	Packer Depth (MD)
2.375	7256							

25. Producing Intervals 26. Perforation Record

Formation	Top	Bottom	Perforated Interval	Size	No. Holes	Perf. Status
A) WASATCH	5044	5428	5044 TO 5428	0.360	48	OPEN
B) MESAVERDE	6871	8064	6871 TO 8064	0.360	72	OPEN
C)						
D)						

27. Acid, Fracture, Treatment, Cement Squeeze, Etc.

Depth Interval	Amount and Type of Material
5044 TO 5428	PUMP 1,505 BBLs SLICK H2O & 60,654 LBS 30/50 SAND.
6871 TO 8064	PUMP 3,110 BBLs SLICK H2O & 111,239 LBS 30/50 SAND.

28. Production - Interval A

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
08/02/2010	08/06/2010	24	→	0.0	1843.0	312.0			FLows FROM WELL
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
20/64	SI 1139	1416.0	→	0	1843	312		PGW	

28a. Production - Interval B

Date First Produced	Test Date	Hours Tested	Test Production	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
			→						
Choke Size	Tbg. Press. Flwg.	Csg. Press.	24 Hr. Rate	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	
	SI		→						

(See Instructions and spaces for additional data on reverse side)
 ELECTRONIC SUBMISSION #92119 VERIFIED BY THE BLM WELL INFORMATION SYSTEM
**** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ** OPERATOR-SUBMITTED ****

RECEIVED
SEP 09 2010

28b. Production - Interval C

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

28c. Production - Interval D

Date First Produced	Test Date	Hours Tested	Test Production →	Oil BBL	Gas MCF	Water BBL	Oil Gravity Corr. API	Gas Gravity	Production Method
Choke Size	Tbg. Press. Flwg. SI	Csg. Press.	24 Hr. Rate →	Oil BBL	Gas MCF	Water BBL	Gas:Oil Ratio	Well Status	

29. Disposition of Gas (Sold, used for fuel, vented, etc.)
SOLD

30. 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.

31. Formation (Log) Markers

Formation	Top	Bottom	Descriptions, Contents, etc.	Name	Top
					Meas. Depth
GREEN RIVER	911				
BIRD'S NEST	1233				
MAHOGANY	1636				
WASATCH	3933	6408			
MESAVERDE	6408	8460	TD		

32. Additional remarks (include plugging procedure):

ATTACHED IS THE DRILLING AND COMPLETION CHRONOLOGICAL WELL HISTORY AND FINAL SURVEY.

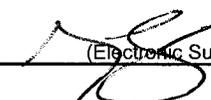
33. Circle enclosed attachments:

- | | | | |
|---|--------------------|---------------|-----------------------|
| 1. Electrical/Mechanical Logs (1 full set req'd.) | 2. Geologic Report | 3. DST Report | 4. Directional Survey |
| 5. Sundry Notice for plugging and cement verification | 6. Core Analysis | 7 Other: | |

34. I hereby certify that the foregoing and attached information is complete and correct as determined from all available records (see attached instructions):

**Electronic Submission #92119 Verified by the BLM Well Information System.
For KERR-MCGEE OIL&GAS ONSHORE, LP, sent to the Vernal**

Name (please print) ANDY LYTLE Title REGULATORY ANALYST

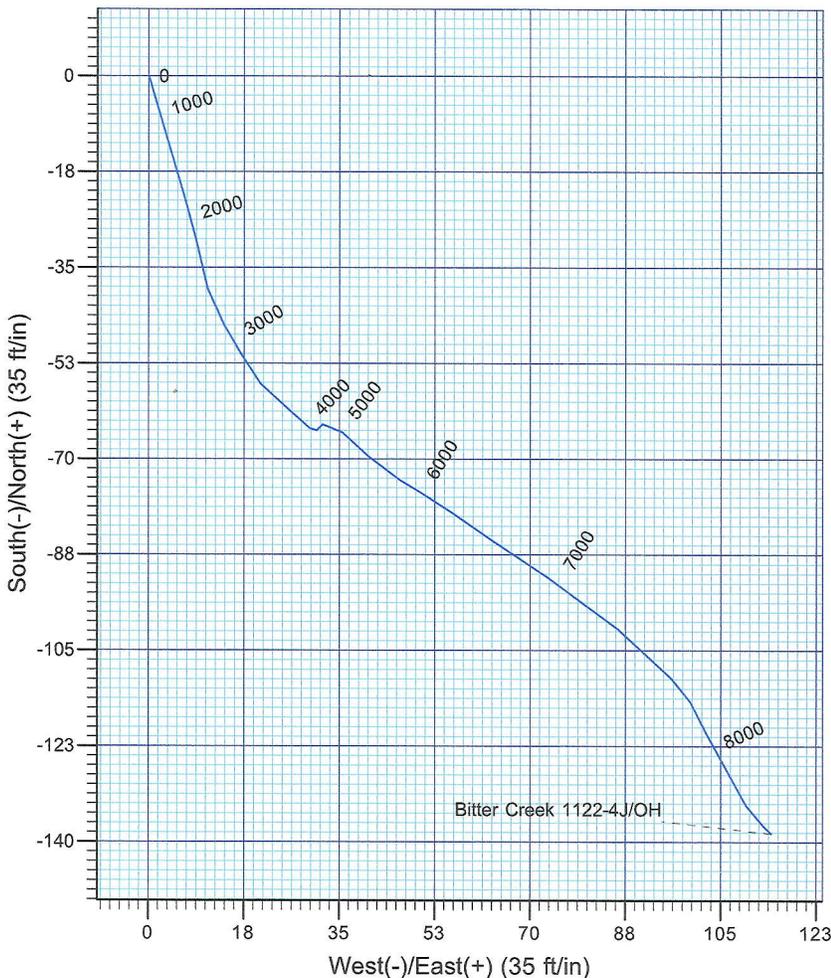
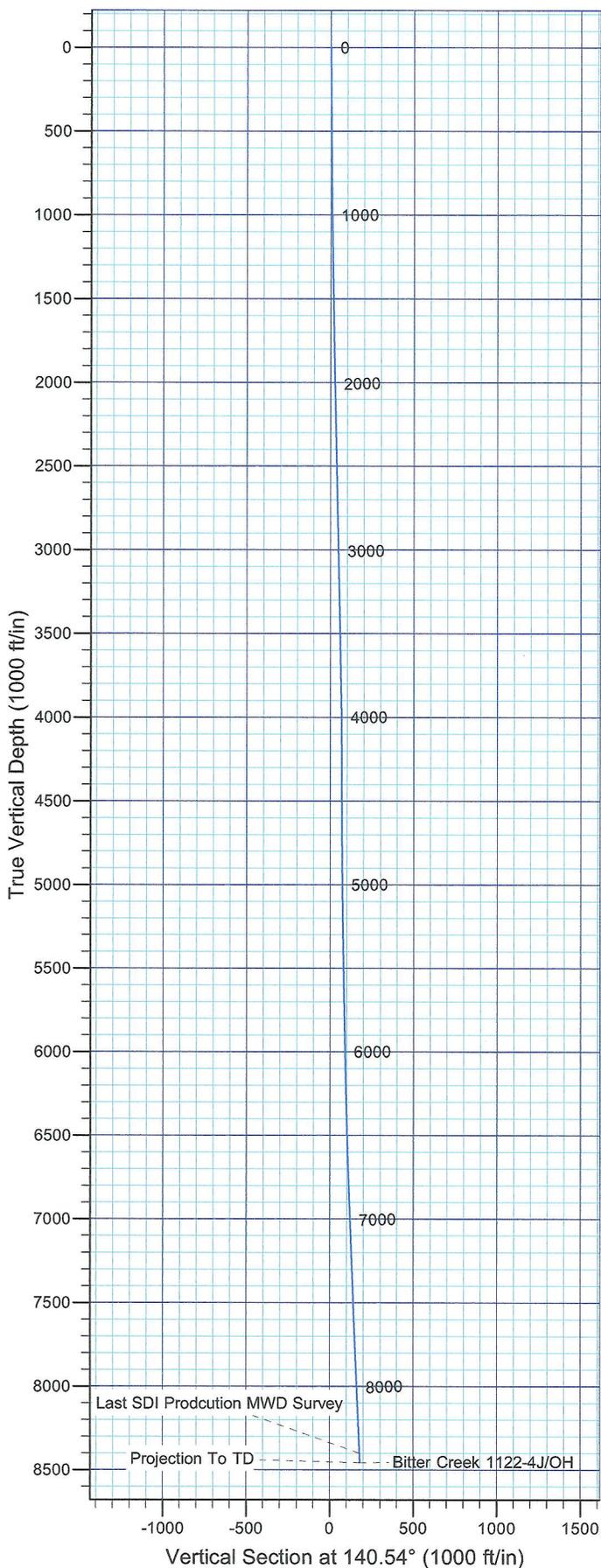
Signature  (Electronic Submission) Date 08/31/2010

Title 18 U.S.C. Section 1001 and 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.



Scientific Drilling
Rocky Mountain Operations

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bitter Creek 1122-4J Pad
Well: Bitter Creek 1122-4J
Wellbore: OH
Design: OH



Well Details: Bitter Creek 1122-4J

TVD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69) Ground Level: 5637.00						Slot
+N-/S	+E-/W	Northing	Easting	Latitude	Longitude	
0.00	0.00	14488944.96	2073301.11	39° 53' 16.250 N	109° 27' 24.700 W	

REFERENCE INFORMATION

Co-ordinate (N/E) Reference: Well Bitter Creek 1122-4J, True North
Vertical (TVD) Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
Section (VS) Reference: Slot - (0.00N, 0.00E)
Measured Depth Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
Calculation Method: Minimum Curvature

PROJECT DETAILS: Uintah County, UT UTM12

Geodetic System: Universal Transverse Mercator (US Survey Feet)
Datum: NAD 1927 - Western US
Ellipsoid: Clarke 1866
Zone: Zone 12N (114 W to 108 W)

System Datum: Mean Sea Level

Plan: OH

16:10, August 04 2010
Created By: Rex Hall



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

Uintah County, UT UTM12
Bitter Creek 1122-4J Pad
Bitter Creek 1122-4J

OH

Design: OH

Standard Survey Report

04 August, 2010

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bitter Creek 1122-4J Pad
Well: Bitter Creek 1122-4J
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bitter Creek 1122-4J
TVD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
MD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Rockies-R5000.1

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

Site	Bitter Creek 1122-4J Pad, Sec 4 T11S R22E				
Site Position:		Northing:	14,488,944.96 usft	Latitude:	39° 53' 16.250 N
From:	Lat/Long	Easting:	2,073,301.10 usft	Longitude:	109° 27' 24.700 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.99 °

Well	Bitter Creek 1122-4J, 2007' FSL & 1954' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,488,944.96 usft	Latitude:	39° 53' 16.250 N
	+E/-W	0.00 ft	Easting:	2,073,301.10 usft	Longitude:	109° 27' 24.700 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,637.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/31/2009	11.21	65.83	52,444

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	140.54	

Survey Program	Date	8/4/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
1,903.00	8,460.00	Survey #1 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)	
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,903.00	1.43	163.49	1,902.80	-22.77	6.75	21.87	0.08	0.08	0.00	
First SDI Production MWD Survey										
2,187.00	1.53	166.77	2,186.71	-29.86	8.62	28.53	0.05	0.04	1.15	
2,540.00	1.49	166.25	2,539.59	-38.90	10.79	36.89	0.01	-0.01	-0.15	
2,856.00	1.13	141.20	2,855.50	-45.32	13.72	43.71	0.21	-0.11	-7.93	
3,171.00	1.09	158.28	3,170.45	-50.52	16.78	49.67	0.11	-0.01	5.42	
3,488.00	1.41	138.13	3,487.37	-56.23	20.50	56.44	0.17	0.10	-6.36	
3,799.00	1.20	125.88	3,798.29	-60.99	25.69	63.41	0.11	-0.07	-3.94	
4,117.00	0.66	141.56	4,116.25	-64.37	29.52	68.47	0.19	-0.17	4.93	
4,433.00	0.38	9.74	4,432.24	-64.77	30.83	69.60	0.30	-0.09	-41.72	

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bitter Creek 1122-4J Pad
Well: Bitter Creek 1122-4J
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bitter Creek 1122-4J
TVD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
MD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Rockies-R5000.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Vertical Section (ft)	Dogleg Rate (°/100ft)	Build Rate (°/100ft)	Turn Rate (°/100ft)
4,686.00	0.45	71.81	4,685.24	-63.63	31.92	69.41	0.17	0.03	24.53
5,068.00	0.87	132.03	5,067.21	-65.10	35.50	72.83	0.20	0.11	15.76
5,415.00	1.29	132.57	5,414.15	-69.51	40.33	79.30	0.12	0.12	0.16
5,766.00	1.04	120.36	5,765.08	-73.79	45.99	86.20	0.10	-0.07	-3.48
6,081.00	0.77	122.78	6,080.04	-76.38	50.24	90.90	0.09	-0.09	0.77
6,396.00	1.62	122.80	6,394.97	-79.94	55.76	97.16	0.27	0.27	0.01
6,655.00	2.34	125.87	6,653.81	-85.02	63.12	105.76	0.28	0.28	1.19
6,970.00	2.14	120.21	6,968.57	-91.75	73.41	117.50	0.09	-0.06	-1.80
7,342.00	2.73	131.35	7,340.24	-101.10	86.07	132.75	0.20	0.16	2.99
7,659.00	2.12	133.89	7,656.95	-110.15	95.96	146.03	0.20	-0.19	0.80
7,943.00	2.69	158.11	7,940.71	-119.98	102.23	157.60	0.41	0.20	8.53
8,290.00	2.39	143.16	8,287.37	-133.32	109.60	172.59	0.21	-0.09	-4.31
8,403.00	2.31	135.43	8,400.28	-136.83	112.62	177.21	0.29	-0.07	-6.84
Last SDI Production MWD Survey									
8,460.00	2.31	135.43	8,457.23	-138.47	114.23	179.50	0.00	0.00	0.00
Projection To TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,903.00	1,902.80	-22.77	6.75	First SDI Production MWD Survey
8,403.00	8,400.28	-136.83	112.62	Last SDI Production MWD Survey
8,460.00	8,457.23	-138.47	114.23	Projection To TD

Checked By: _____ Approved By: _____ Date: _____



Scientific Drilling
Rocky Mountain Operations

Kerr McGee Oil and Gas Onshore LP

**Uintah County, UT UTM12
Bitter Creek 1122-4J Pad
Bitter Creek 1122-4J**

OH

Design: OH

Survey Report - Geographic

04 August, 2010

Anadarko 
Petroleum Corporation

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bitter Creek 1122-4J Pad
Well: Bitter Creek 1122-4J
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bitter Creek 1122-4J
TVD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
MD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Rockies-R5000.1

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

Site	Bitter Creek 1122-4J Pad, Sec 4 T11S R22E				
Site Position:		Northing:	14,488,944.96 usft	Latitude:	39° 53' 16.250 N
From:	Lat/Long	Easting:	2,073,301.10 usft	Longitude:	109° 27' 24.700 W
Position Uncertainty:	0.00 ft	Slot Radius:	13.200 in	Grid Convergence:	0.99 °

Well	Bitter Creek 1122-4J, 2007' FSL & 1954' FEL					
Well Position	+N/-S	0.00 ft	Northing:	14,488,944.96 usft	Latitude:	39° 53' 16.250 N
	+E/-W	0.00 ft	Easting:	2,073,301.10 usft	Longitude:	109° 27' 24.700 W
Position Uncertainty	0.00 ft	Wellhead Elevation:	ft	Ground Level:	5,637.00 ft	

Wellbore	OH				
Magnetics	Model Name	Sample Date	Declination (°)	Dip Angle (°)	Field Strength (nT)
	IGRF2005-10	12/31/2009	11.21	65.83	52,444

Design	OH				
Audit Notes:					
Version:	1.0	Phase:	ACTUAL	Tie On Depth:	0.00
Vertical Section:	Depth From (TVD) (ft)	+N/-S (ft)	+E/-W (ft)	Direction (°)	
	0.00	0.00	0.00	140.54	

Survey Program	Date	8/4/2010			
From (ft)	To (ft)	Survey (Wellbore)	Tool Name	Description	
1,903.00	8,460.00	Survey #1 - Production MWD (OH)	MWD SDI	MWD - Standard ver 1.0.1	

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
0.00	0.00	0.00	0.00	0.00	0.00	14,488,944.96	2,073,301.10	39° 53' 16.250 N	109° 27' 24.700 W
1,903.00	1.43	163.49	1,902.80	-22.77	6.75	14,488,922.32	2,073,308.24	39° 53' 16.025 N	109° 27' 24.613 W
First SDI Production MWD Survey									
2,187.00	1.53	166.77	2,186.71	-29.86	8.62	14,488,915.26	2,073,310.24	39° 53' 15.955 N	109° 27' 24.589 W
2,540.00	1.49	166.25	2,539.59	-38.90	10.79	14,488,906.25	2,073,312.56	39° 53' 15.865 N	109° 27' 24.562 W
2,856.00	1.13	141.20	2,855.50	-45.32	13.72	14,488,899.89	2,073,315.60	39° 53' 15.802 N	109° 27' 24.524 W
3,171.00	1.09	158.28	3,170.45	-50.52	16.78	14,488,894.74	2,073,318.75	39° 53' 15.751 N	109° 27' 24.485 W
3,488.00	1.41	138.13	3,487.37	-56.23	20.50	14,488,889.10	2,073,322.57	39° 53' 15.694 N	109° 27' 24.437 W
3,799.00	1.20	125.88	3,798.29	-60.99	25.69	14,488,884.43	2,073,327.84	39° 53' 15.647 N	109° 27' 24.370 W
4,117.00	0.66	141.56	4,116.25	-64.37	29.52	14,488,881.11	2,073,331.73	39° 53' 15.614 N	109° 27' 24.321 W
4,433.00	0.38	9.74	4,432.24	-64.77	30.83	14,488,880.74	2,073,333.05	39° 53' 15.610 N	109° 27' 24.304 W
4,686.00	0.45	71.81	4,685.24	-63.63	31.92	14,488,881.89	2,073,334.12	39° 53' 15.621 N	109° 27' 24.290 W

Company: Kerr McGee Oil and Gas Onshore LP
Project: Uintah County, UT UTM12
Site: Bitter Creek 1122-4J Pad
Well: Bitter Creek 1122-4J
Wellbore: OH
Design: OH

Local Co-ordinate Reference: Well Bitter Creek 1122-4J
TVD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
MD Reference: GL 5637' & RKB 18' @ 5655.00ft (Pioneer 69)
North Reference: True
Survey Calculation Method: Minimum Curvature
Database: Rockies-R5000.1

Survey

Measured Depth (ft)	Inclination (°)	Azimuth (°)	Vertical Depth (ft)	+N/-S (ft)	+E/-W (ft)	Map Northing (usft)	Map Easting (usft)	Latitude	Longitude
5,068.00	0.87	132.03	5,067.21	-65.10	35.50	14,488,880.48	2,073,337.72	39° 53' 15.606 N	109° 27' 24.245 W
5,415.00	1.29	132.57	5,414.15	-69.51	40.33	14,488,876.16	2,073,342.63	39° 53' 15.563 N	109° 27' 24.183 W
5,766.00	1.04	120.36	5,765.08	-73.79	45.99	14,488,871.98	2,073,348.36	39° 53' 15.521 N	109° 27' 24.110 W
6,081.00	0.77	122.78	6,080.04	-76.38	50.24	14,488,869.46	2,073,352.65	39° 53' 15.495 N	109° 27' 24.055 W
6,396.00	1.62	122.80	6,394.97	-79.94	55.76	14,488,866.00	2,073,358.23	39° 53' 15.460 N	109° 27' 23.985 W
6,655.00	2.34	125.87	6,653.81	-85.02	63.12	14,488,861.04	2,073,365.68	39° 53' 15.410 N	109° 27' 23.890 W
6,970.00	2.14	120.21	6,968.57	-91.75	73.41	14,488,854.50	2,073,376.09	39° 53' 15.343 N	109° 27' 23.758 W
7,342.00	2.73	131.35	7,340.24	-101.10	86.07	14,488,845.37	2,073,388.90	39° 53' 15.251 N	109° 27' 23.596 W
7,659.00	2.12	133.89	7,656.95	-110.15	95.96	14,488,836.49	2,073,398.95	39° 53' 15.161 N	109° 27' 23.469 W
7,943.00	2.69	158.11	7,940.71	-119.98	102.23	14,488,826.77	2,073,405.39	39° 53' 15.064 N	109° 27' 23.388 W
8,290.00	2.39	143.16	8,287.37	-133.32	109.60	14,488,813.55	2,073,412.99	39° 53' 14.932 N	109° 27' 23.294 W
8,403.00	2.31	135.43	8,400.28	-136.83	112.62	14,488,810.10	2,073,416.06	39° 53' 14.897 N	109° 27' 23.255 W
Last SDI Production MWD Survey									
8,460.00	2.31	135.43	8,457.23	-138.47	114.23	14,488,808.49	2,073,417.70	39° 53' 14.881 N	109° 27' 23.234 W
Projection To TD									

Design Annotations

Measured Depth (ft)	Vertical Depth (ft)	Local Coordinates		Comment
		+N/-S (ft)	+E/-W (ft)	
1,903.00	1,902.80	-22.77	6.75	First SDI Production MWD Survey
8,403.00	8,400.28	-136.83	112.62	Last SDI Production MWD Survey
8,460.00	8,457.23	-138.47	114.23	Projection To TD

Checked By: _____ Approved By: _____ Date: _____

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008		Spud Date: 10/22/2008				
Project: UTAH-UINTAH			Site: BITTER CREEK 1122-4J			Rig Name No: PIONEER 69/69, PROPETRO/		
Event: DRILLING			Start Date: 10/22/2008			End Date: 7/14/2010		
Active Datum: RKB @5,655.01ft (above Mean Sea Level)				UWI: 4-11S-22E				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
10/22/2008	12:00 - 0:00	12.00	DRLSUR	02	A	P		MOVE IN AND RIG UP AIR RIG SPUD WELL @ 1200 HR 10/22/08 DA AT REPORT TIME 840'
10/23/2008	0:00 - 12:00	12.00	DRLSUR	02	A	P		RIG DRILLING AHEAD NO WATER 1020'
	12:00 - 0:00	12.00	DRLSUR	02	A	P		RIG DRILLING AHEAD NO WATER 1810'
10/24/2008	0:00 - 2:00	2.00	DRLSUR	02	C	P		RIG T/D @ 1845' CONDITION HOLE 1 HR
	2:00 - 5:00	3.00	DRLSUR	06	A	P		TRIP DP OUT OF HOLE
	5:00 - 8:00	3.00	DRLSUR	12	C	P		RUN 1814' OF 9 5/8 CSG AND 200' OF 1" PIPE RIG DOWN AIR RIG
	8:00 - 9:00	1.00	DRLSUR	12	E	P		CEMENT 1ST STAGE WITH 150 SKS LEAD @ 11# 3.82 23 GAL/SK AND 200 SKS TAIL @ 15.8# 1.15 5.0 GAL/SK GOOD RETURNS THRU OUT JOB NO LEAD CMT TO PIT 500 PSI LIFT
	9:00 - 9:30	0.50	DRLSUR	12	E	P		1ST TOP JOB 100 SKS DOWN 1" PIPE GOOD CMT TO SURFACE AND FELL BACK WOC
	9:30 - 10:30	1.00	DRLSUR	12	E	P		2ND TOP JOB 75 SKS DOWN BS GOOD CMT TO SURFACE AND SYAYED AT SURFACE
	10:30 - 10:30	0.00	DRLSUR	01	E	P		NO VISIBLE ELAKS PIT 30% FULL TRACE OIL WORT
7/6/2010	18:00 - 0:00	6.00	RDMO	01	E	P		RDRT,PREPARE RIG F/ 14 MILE MOVE THIS A.M.
7/7/2010	0:00 - 7:00	7.00	DRLPRO	01	E	P		RDRT,PREPARE RIG F/ 14 MILE MOVE THIS A.M.
	7:00 - 16:30	9.50	DRLPRO	01	A	P		MOVING CAMPS, RIG AND ASSOCIATED EQUIPMENT F/ STATE 1021-32H TO BC 1122-4J
	16:30 - 0:00	7.50	DRLPRO	01	B	P		RURT, PUMPS/PITS, CAMPS, ELECTRICAL, AND RIG FLOOR. NOTE: NO EXTRA PIONEER EMPLOYEES ON THE RIG MOVE.
7/8/2010	0:00 - 1:00	1.00	DRLPRO	01	B	P		RU THE FLARE LINE AND THE GERONIMO LINE.
	1:00 - 4:30	3.50	DRLPRO	14	A	P		NU THE BOP , FLOW LINE, AND CHOKE MANIFOLD
	4:30 - 9:00	4.50	DRLPRO	15	A	P		TESTED THE UPPER/LOWER KELLY VALVES, FLOOR VALVE, PIPE RAMS, INSIDE BOP VALVES, OUTSIDE BOP VALVES, KILL LINE, BLIND RAMS, CHOKE MANIFOLD VALVES TO 250 PSI/5 MIN. 5000 PSI/10 MIN.TESTED THE ANNULAR TO 250 PSI/5 MIN AND 2500 PSI/ 10 MIN.. TESTED THE SURFACE CASING TO 1500 PSI/30 MIN.
	9:00 - 9:30	0.50	DRLPRO	14	B	P		INSTALLED THE WEAR BUSHING
	9:30 - 10:30	1.00	DRLPRO	06	A	P		RIG UP KIMSEY LD MACHINE AND HOLD A SAFETY MEETING
	10:30 - 14:30	4.00	DRLPRO	06	A	P		PU BHA AND DP TAGGED CEMENT @ 1722' RIGGED DOWN KIMSEY LD MACHINE
	14:30 - 15:30	1.00	DRLPRO	14	B	P		PU THE KELLY. INSTALL THE ROTATING RUBBER AND THE DRIVE BUSHINGS
	15:30 - 18:30	3.00	DRLPRO	02	F	P		DRILLING CEMENT AND FLOAT EQUIP.
	18:30 - 19:30	1.00	DRLPRO	02	A	P		DRILLED 1847' - 1894' 47' @ 47'/HR W/ GT-1BIT CONVENTIONAL 65 RPM AND 25K WOB. WATER CIRC. TO TOH
	19:30 - 20:00	0.50	DRLPRO	05	C	P		TOH TO PU PDC, MWD AND MUD MOTOR
	20:00 - 22:00	2.00	DRLPRO	06	A	P		LD BIT BS. PU MUD MOTOR MWD AND PDC BIT.
	22:00 - 23:30	1.50	DRLPRO	06	A	P		ORIENT TOOLS
	23:30 - 0:00	0.50	DRLPRO	06	A	P		TIH
7/9/2010	0:00 - 1:00	1.00	DRLPRO	06	A	P		FINISH THE TIH W/ DRILLING ASSEMBLY

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008	Spud Date: 10/22/2008
Project: UTAH-UINTAH		Site: BITTER CREEK 1122-4J	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING		Start Date: 10/22/2008	End Date: 7/14/2010
Active Datum: RKB @5,655.01ft (above Mean Sea Level)		UWI: 4-11S-22E	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	1:00 - 6:30	5.50	DRLPRO	02	B	P		DRILLING 1894' - 2461', 567'/5.5 HR, 103.1'/HR, MMRPM/93, ROTARY RPM/50, 117SPM/443GPM, 950 PSI/OFF BOTTOM, 1200 PSI/ON BOTTOM, 250 - 350# DIFF
	6:30 - 7:00	0.50	DRLPRO	07	A	P		RIG SERVICE
	7:00 - 8:00	1.00	DRLPRO	02	B	P		DRILLING 2461' - 2566, 105'/1 HR, 115.8'/HR,SLID 5' @ 350 AZM. MMRPM/93, ROTARY RPM/50, 117SPM/443GPM, 950 PSI/OFF BOTTOM, 1200 PSI/ON BOTTOM, 250 - 350# DIFF
	8:00 - 9:00	1.00	DRLPRO	08	A	Z		RIG REPAIR FUEL FILTERS ON THE PUMP
	9:00 - 18:00	9.00	DRLPRO	02	B	P		DRILLING 2566' - 3609', 1043'/9 HR, 105'/HR,SLID 36' @ 350 AZM. MMRPM/93, ROTARY RPM/50, 117SPM/443GPM, 980 PSI/OFF BOTTOM, 1300 PSI/ON BOTTOM,250 - 350# DIFF
	18:00 - 0:00	6.00	DRLPRO	02	B	P		DRILLING 3609' - 4241', 632'/6 HR, 105.3'/HR,SLID 20' @ 350 AZM. MMRPM/93, ROTARY RPM/50, 117SPM/443GPM, 1000 PSI/OFF BOTTOM, 1350 PSI/ON BOTTOM,300 - 400# DIFF
7/10/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILLING 4241' - 4955', 714'/6 HR, 119'/HR, MMRPM/93, ROTARY RPM/50, 117SPM/443GPM, 1000 PSI/OFF BOTTOM, 1350 PSI/ON BOTTOM,300 - 400# DIFF. WATER
	6:00 - 16:00	10.00	DRLPRO	02	B	P		DRILLING 4955 -5885', 930'/10 HR, 93'/HR,SLID 15' @ 320 AZM. MMRPM/95, ROTARY RPM/50, 120SPM/454GPM, 1250 PSI/OFF BOTTOM, 1550 PSI/ON BOTTOM,250 - 400# DIFF.PU/SO/ROT 140/125/134. WATER START CLOSING IN THE PITS AND ADDING CHEMICALS @ 5700'
	16:00 - 16:30	0.50	DRLPRO	07	B	P		RIG SERVICE AND FIRE DRILL
	16:30 - 0:00	7.50	DRLPRO	02	B	P		DRILLING 5885' - 6422', 537'/7.5 HR, 71.6'/HR,SLID 5' @ 320 AZM. MMRPM/95, ROTARY RPM/50, 120SPM/454GPM, 1930 PSI/OFF BOTTOM, 2150 PSI/ON BOTTOM,220 - 350# DIFF. PU/SO/ROT 143/125/135 MUD:35/VIS 10.1/WT
7/11/2010	0:00 - 6:00	6.00	DRLPRO	02	B	P		DRILLING 6422' - 6769, 347'/6 HR, 57.8'/HR,SLID 10' @ 320 AZM. MMRPM/95, ROTARY RPM/50, 120SPM/454GPM, 1950 PSI/OFF BOTTOM, 2230 PSI/ON BOTTOM,220 - 350# DIFF. PU/SO/ROT 144/130/138 MUD:36/VIS 10.3/WT
	6:00 - 13:00	7.00	DRLPRO	02	B	P		DRILLING 6769' - 7179', 410'/7 HR, 58.6'/HR,SLID 25' @ 320 AZM. MMRPM/95, ROTARY RPM/50, 115SPM/435GPM, 1880 PSI/OFF BOTTOM, 2130 PSI/ON BOTTOM,220 - 350# DIFF. PU/SO/ROT 155/135/148 MUD:36/VIS 10.4/WT SOME SLOUGHING SHALE
	13:00 - 13:30	0.50	DRLPRO	07	A	P		RIG SERVICE/ WORKED THE PIPE RAMS AND THE ANNULAR
	13:30 - 0:00	10.50	DRLPRO	02	B	P		DRILLING 7179' -7759' , 580'/10.5 HR, 55.23'/HR,SLID 15' @ 320 AZM. MMRPM/91, ROTARY RPM/50, 115SPM/435GPM, 1900 PSI/OFF BOTTOM, 2280 PSI/ON BOTTOM,220 - 350# DIFF. PU/SO/ROT 163/144/157 MUD:37/VIS 10.5/WT
7/12/2010	0:00 - 10:00	10.00	DRLPRO	02	B	P		DRILLING 7759' - 8347' , 588'/10 HR, 58.8'/HR, MMRPM/91, ROTARY RPM/50, 115SPM/435GPM, 2020 PSI/OFF BOTTOM, 2340 PSI/ON BOTTOM,220 - 350# DIFF. PU/SO/ROT 175/150/171 MUD:39/VIS 11.0/WT
	10:00 - 10:30	0.50	DRLPRO	07	A	P		RIG SERVICE

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008		Spud Date: 10/22/2008	
Project: UTAH-UINTAH		Site: BITTER CREEK 1122-4J		Rig Name No: PIONEER 69/69, PROPETRO/	
Event: DRILLING		Start Date: 10/22/2008		End Date: 7/14/2010	
Active Datum: RKB @5,655.01ft (above Mean Sea Level)			UWI: 4-11S-22E		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/13/2010	10:30 - 12:30	2.00	DRLPRO	02	B	P		DRILLING 8347' - 8460' , 113/2 HR, 56.5'/HR, MMRPM/91, ROTARY RPM/50, 115SPM/435GPM, 2020 PSI/OFF BOTTOM, 2340 PSI/ON BOTTOM, 220 - 350# DIFF. PU/SO/ROT 175/150/171 MUD:39/VIS 11.0/WT
	12:30 - 14:30	2.00	DRLPRO	05	C	P		CIRCULATE FOR WIPER TRIP BRING MUD WT TO 11.3 /VIS 41
	14:30 - 20:00	5.50	DRLPRO	06	E	P		WIPER TRIP TO 3500' TIGHT SPOTS F/ 6000' - 6580'
	20:00 - 20:30	0.50	DRLPRO	03	E	S		WASHED THROUGH A BRIDGE @ 7550' - 7570'
	20:30 - 21:30	1.00	DRLPRO	06	E	P		FINISHED TIH
	21:30 - 23:30	2.00	DRLPRO	05	C	P		CIRCULATE FOR LOGS BROUGHT MUD WT. UP TO 11.5# 42 VIS
	23:30 - 0:00	0.50	DRLPRO	06	B	P		TOH F/ LOGS
	0:00 - 6:00	6.00	DRLPRO	06	B	P		TOH F/ LOGS. LD DIRECTIONAL TOOLS AND THE MUD MOTOR.
	6:00 - 11:00	5.00	DRLPRO	11	D	P		RIGGED UP BAKER ATLAS AND RAN TRIPLE COMBO LOGS. DRILLERS TD 8460'/ LOGGERS TD 8464' ONE TIGHT SPOT @ 7360' RD BAKER
	11:00 - 17:00	6.00	DRLPRO	06	A	P		TIH TO CONDITION AND LDDP. FILLED PIPE @ THE SHOE AND 5000'
7/14/2010	17:00 - 19:00	2.00	DRLPRO	05	A	P		CIRCULATE TO LDDP. HELD A SM W/ KIMSEY RU THE LD MACHINE AND PUMPED A PILL
	19:00 - 0:00	5.00	DRLPRO	06	A	P		LDDP
	0:00 - 3:00	3.00	DRLPRO	06	A	P		LDDP AND DC, BREAK THE KELLY, PULL THE WEAR RING
	3:00 - 3:30	0.50	DRLPRO	12	A	P		HELD A S/M, RU KIMSEY CASING CREW
	3:30 - 10:30	7.00	DRLPRO	12	C	P		RAN 201 JTS OF 4.5" I-80/ 11.6#/ BTC CASING. LANDED @ 8449.1', F/C @ 8405.38, MARKER JT @ 3868.14
	10:30 - 11:30	1.00	DRLPRO	05	D	P		CIRCULATED WHILE RU BJ SERVICES. HELD SM W/ BJ
7/14/2010	11:30 - 14:00	2.50	DRLPRO	12	E	P		CEMENT W/ 40 BBLS PRE FLUSH ,380 SX 11.6# ,2.62 YLD LEAD ,1062 SX 14.3# 1.31 YLD TAIL ,DISPLACE W/ 131 BBLS CLAY TREAT WATER ,FINAL LIFT 2280 PSI, BUMP PLUG @ 3170 PSI ,HELD 5 MIN ,10 BBLS LEAD BACK TO PIT ,EST TOP OF TAIL @ 2336', PD @ 13:40
	14:00 - 18:00	4.00	DRLPRO	14	A	P		ND BOP AND CLEAN PITS RIG RELEASED 7/14/2010 18:00

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008	Spud Date: 10/22/2008
Project: UTAH-UINTAH		Site: BITTER CREEK 1122-4J	Rig Name No: PIONEER 69/69, PROPETRO/
Event: DRILLING		Start Date: 10/22/2008	End Date: 7/14/2010
Active Datum: RKB @5,655.01ft (above Mean Sea Level)		UWI: 4-11S-22E	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	18:00 - 18:00	0.00	DRLPRO					<p>CONDUCTOR CASING: Cond. Depth set: Cement sx used:</p> <p>SPUD DATE/TIME: 10/22/2008 12:00</p> <p>SURFACE HOLE: Surface From depth: 18 Surface To depth: 1,847 Total SURFACE hours: 38.00 Surface Casing size: 9 5/8 # of casing joints ran: 42 Casing set MD: 1,818.6 # sx of cement: 150 / TOP OFF175 Cement blend (ppg:) LEAD 11 ,TAIL 15.8 ,TOP OUT 15.8 Cement yield (ft3/sk): 1.15 # of bbls to surface: Describe cement issues: Describe hole issues:</p> <p>PRODUCTION: Rig Move/Skid start date/time: 7/7/2010 7:00 Rig Move/Skid finish date/time: 7/7/2010 16:30 Total MOVE hours: 9.5 Prod Rig Spud date/time: 7/8/2010 15:30 Rig Release date/time: 7/14/2010 18:00 Total SPUD to RR hours:146.5 Planned depth MD 8,456 Planned depth TVD 8,456 Actual MD: 8,460 Actual TVD: 8,457 Open Wells \$: \$693,908 AFE \$: \$728,007 Open wells \$/ft: \$82.02</p> <p>PRODUCTION HOLE: Prod. From depth: 1,864 Prod. To depth: 8,460 Total PROD hours: 80.5 Log Depth: 8464 Production Casing size: 4 1/2 # of casing joints ran: 201 Casing set MD: 8,449.1 # sx of cement: LEAD/380 TAIL/1062 Cement blend (ppg:) LEAD/11.6# TAIL/14.3# Cement yield (ft3/sk): LEAD/2.62 TAIL/1.31 Est. TOC (Lead & Tail) or 2 Stage : LEAD /18' TAIL/2336' Describe cement issues: NONE Describe hole issues: FLUIDS LOSSES UPPER HOLE</p> <p>DIRECTIONAL INFO: KOP: Max angle: Departure: Max dogleg MD:</p>

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008		Spud Date: 10/22/2008				
Project: UTAH-UINTAH			Site: BITTER CREEK 1122-4J			Rig Name No: GWS 1/1		
Event: COMPLETION			Start Date: 7/26/2010			End Date: 7/30/2010		
Active Datum: RKB @5,655.01ft (above Mean Sea Level)				UWI: 4-11S-22E				

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
7/27/2010	6:30 - 6:45	0.25	COMP	48		P		HSM, PICKING UP TBG, PINCH POINTS.
	6:45 - 15:00	8.25	COMP	31	I	P		MIRU, ND WH, NU BOPS, RU FLOOR & TBG EQUIP, TALLY & PU TBG TO 6,960', POOH 110 STDS, RD FLOOR, ND BOPS, NU FRAC VALVE, RU FLOOR, FOR PRESS TEST & 1ST SHOOT IN AM. SWI SDFN.
7/28/2010	6:30 - 6:45	0.25	COMP	48		P		HSM, PRESSURIZED LINES, STAY OUT FROM UNDER WIRELINE TOOLS INCASE THEY FALL.
	6:45 - 8:15	1.50	COMP	33	C	P		MIRU, B&C QUICK TEST, TEST CSG TO 7,000 PSI, RD.
	8:15 - 9:30	1.25	COMP	37	B	P		MIRU CUTTERS TO PERF ZONE 1. PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING.
	9:30 - 15:45	6.25	COMP	36	B	P		RIH PERF MESA VERDE @ 8,061'-64' 4 SPF 12 HOLES, 7,947'-48' 4 SPF 4 HOLES, 7,856'-58' 4 SPF 8 HOLES, TOTAL 24 HOLES. [STAGE 1] WAIT ON SUPERIOR, MIRU SUPERIOR, PRIME UP PUMPING LINE & PRESS TEST SURFACE LINES TO 8,400 PSI. WHP= 1,940 PSI, BRK @ 3,089 PSI @ 3.0 GPM, ISIP 2511 PSI, FG .77. PUMP 100 BBLs @ 45.9 BPM 5,515 PSI,= 88% PERFS OPEN 21/24. MP 6,058 PSI MR 50.5 BPM, AP 5,422 PSI AR 47 BPM, ISIP 2,726 PSI, FG.78. NPI 215 PSI, PMPD 988 BBLs SW & 28,648 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 33,648 LBS.
	15:45 - 17:30	1.75	COMP					STAGE 2] PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 7,397 & PERF MESA VERDE @ 7,365'-67' 4 SPF 8 HOLES 7,290'-94' 4 SPF 16 HOLES, TOTAL 24 HOLES. WHP= 290 PSI, BRK @ 4,219 PSI @ 4.6 GPM, ISIP 2,323 PSI, FG .76. PUMP 100 BBLs @ 48.5 BPM 5,686 PSI,= 69% PERFS OPEN 17/24. MP 5,777 PSI MR 50.1 BPM, AP 5,233 PSI AR 49.6 BPM, ISIP 2,719 PSI, FG.81. NPI 396 PSI, PMPD 615 BBLs SW & 15,542 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 20,542 LBS.
7/29/2010	6:30 - 6:45	0.25	COMP	48		P		SWI, CONTINUE FRACING IN AM SDFN. HSM, TAKING WIRELINE LUBRACATOR ON & OFF FRAC MANIFOLD MAKE SURE PRESS IS BLED OFF.

**US ROCKIES REGION
Operation Summary Report**

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008	Spud Date: 10/22/2008
Project: UTAH-UINTAH		Site: BITTER CREEK 1122-4J	Rig Name No: GWS 1/1
Event: COMPLETION		Start Date: 7/26/2010	End Date: 7/30/2010
Active Datum: RKB @5,655.01ft (above Mean Sea Level)		UWI: 4-11S-22E	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 8:15	1.50	COMP	36	B	P		<p>SICP 1,000 PSI STAGE 3J PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 120 DEG PHASING. RIH SET CBP @ 7,118' & PERF MESA VERDE @ 7,086'-89' 3 SPF 9 HOLES 7,050'-52' 3 SPF 6 HOLES, 7,012'-14' 3 SPF 6 HOLES, 6,871'-72' 3 SPF 3 HOLES, TOTAL 24 HOLES.</p> <p>WHP= 265 PSI, BRK @ 3,217 PSI @ 4.7 GPM, ISIP 1,962 PSI, FG .72. PUMP 100 BBLS @ 39.4 BPM 4,406 PSI,= 66% PERFS OPEN 16/24. MP 6,031 PSI MR 49.4 BPM, AP 4,186 PSI AR 40.3 BPM, ISIP 2,511 PSI, FG.80. NPI 549 PSI, PMPD 1,507 BBLS SW & 52,049 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 57,049 LBS.</p>
	8:15 - 9:45	1.50	COMP	36	B	P		<p>STAGE 4J PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 5,458' & PERF WASATCH @ 5,424'-28' 4 SPF 16 HOLES 5,359'-61' 4 SPF 8 HOLES, TOTAL 24 HOLES.</p> <p>WHP= 300 PSI, BRK @ 2,765 PSI @ 4.7 GPM, ISIP 1,126 PSI, FG .65. PUMP 100 BBLS @ 52.9 BPM 5,002 PSI,= 66% PERFS OPEN 16/24. MP 5,092 PSI MR 54.0 BPM, AP 4,474 PSI AR 52.5 BPM, ISIP 2,031 PSI, FG.82. NPI 905 PSI, PMPD 975 BBLS SW & 36,665 LBS OF 30/50 SND & 5,000 LBS OF RESIN SND. TOTAL PROP 41,665 LBS.</p>
	9:45 - 12:00	2.25	COMP	36	B	P		<p>STAGE 5J PU 3 1/8" EXP GNS, 23 GRM, .36 HOLES, 90 DEG PHASING. RIH SET CBP @ 5,080' & PERF WASATCH @ 5,044'-50' 4 SPF 24 HOLES, TOTAL 24 HOLES.</p> <p>WHP= 160 PSI, BRK @ 1,925 PSI @ 3.6 GPM, ISIP 963 PSI, FG .63. PUMP 100 BBLS @ 51.3 BPM 4,503 PSI,= 66% PERFS OPEN 16/24. MP 4,538 PSI MR 51.5 BPM, AP 4,000 PSI AR 51.0 BPM, ISIP 1,869 PSI, FG.81. NPI 906 PSI, PMPD 530 BBLS SW & 6,800 LBS OF 30/50 SND & 12,189 LBS OF RESIN SND. TOTAL PROP 18,989 LBS. TOTAL FOR JOB 171,893 # PROP & 4,615 BBLS WATER</p>
	12:00 - 14:30	2.50	COMP	31	I	P		<p>SET KILL PLUG @ 4,994', RD SUPERIOR & CUTTERS. RD FLOOR, ND FRAC VALVE, NU BOPS, RU FLOOR, PU 3 7/8" BIT & POBS XN NIPPLE & TIH TO 4,900', RU POWER SWIVEL FOR DRILL OUT IN AM SWI, SDFN.</p>
7/30/2010	6:30 - 6:45	0.25	COMP	48		P		HSM, DRILLING PLUGS & LANDING TBG

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008		Spud Date: 10/22/2008	
Project: UTAH-UINTAH		Site: BITTER CREEK 1122-4J		Rig Name No: GWS 1/1	
Event: COMPLETION		Start Date: 7/26/2010		End Date: 7/30/2010	
Active Datum: RKB @5,655.01ft (above Mean Sea Level)			UWI: 4-11S-22E		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	6:45 - 14:30	7.75	COMP	44	C	P		<p>SICP 0 PSI, BREAK CIRC CONVENTIONAL W/ T-MAC , PRESS TEST BOPS TOO 3000 PSI, START DRLG PLUGS.</p> <p>C/O 0' SAND, TAG 1ST PLUG @ 4,994' DRL PLUG IN 5 MIN. 0 PSI INCREASE RIH.</p> <p>C/O 20' SAND, TAG 2ND PLUG @ 5,080' DRL PLUG IN 6 MIN. 300 PSI INCREASE RIH.</p> <p>C/O 30' SAND, TAG 3RD PLUG @ 5,458' DRL PLUG IN 5 MIN. 250 PSI INCREASE RIH.</p> <p>C/O 30' SAND, TAG 4TH PLUG @ 7,118' DRL PLUG IN 7 MIN. 250 PSI INCREASE RIH.</p> <p>C/O 30' SAND, TAG 5TH PLUG @ 7,397' DRL PLUG IN 8 MIN. 400 PSI INCREASE RIH</p> <p>RIH TAGGED UP @ 8,340' W/ 264 JTS 2 3/8" J-55 TBG 276' BELOW BTM PERF, LD 35 JTS, LAND TBG W/ 229 JTS 2 3/8" J-55 EOT 7,256.91', SN @ 7,254.71'</p> <p>RD FLOOR, ND BOPS, NU WH, DROP BALL TO SHEAR OFF BIT W/ 1,200 PSI.</p> <p>TURN OVER TO FLOW BACK CREW. RD Rig.</p> <p>KB= 18' 7 1/16 HANGER= .83' 229 JTS 2 3/8" J-55 = 7,235.88' TBG DELIVERED: 305 JTS POBS= 2.20' TBG USED: 229 JTS EOT @ 7,256.91' TBG RETURNED: 76 JTS (1 JT BAD THREADS) SN @ 7,254.71'</p> <p>TWTR= 4,615 BBLS TWR= 840 BBLS (PIT 70 BBLS PER INCH) SICP= 750 psi FTP= TWLTR= 3,775 BBLS TARGET FBT</p>
7/31/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1775#, TP 925#, 20/64" CK, 48 BWPH, HVY SAND, - GAS TTL BBLS RECOVERED: 2186 BBLS LEFT TO RECOVER: 2429</p>
8/1/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1800#, TP 1125#, 20/64" CK, 18 BWPH, HEAVY SAND, - GAS TTL BBLS RECOVERED: 2789 BBLS LEFT TO RECOVER: 1826</p>
8/2/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1750#, TP 1240#, 20/64" CK, 12 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3133 BBLS LEFT TO RECOVER: 1482</p>
	11:00 -		PRSPD	50				<p>WELL TURNED TO SALES @ 1100 HR ON 8/2/2010, 1600MCF, 288 BWPD, CP 1850#, FTP 1375#, CK 20/64"</p>
8/3/2010	7:00 -			33	A			<p>7 AM FLBK REPORT: CP 1625#, TP 1225#, 20/64" CK, 8 BWPH, MED SAND, - GAS TTL BBLS RECOVERED: 3391 BBLS LEFT TO RECOVER: 1224</p>

US ROCKIES REGION
Operation Summary Report

Well: BITTER CREEK 1122-4J		Spud Conductor: 10/20/2008		Spud Date: 10/22/2008	
Project: UTAH-UINTAH			Site: BITTER CREEK 1122-4J		Rig Name No: GWS 1/1
Event: COMPLETION			Start Date: 7/26/2010		End Date: 7/30/2010
Active Datum: RKB @5,655.01ft (above Mean Sea Level)			UWI: 4-11S-22E		

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
8/4/2010	7:00 -			33	A			7 AM FLBK REPORT: CP 1550#, TP 1175#, 20/64" CK, 9 BWPH, LIGHT SAND, 1.9 GAS TTL BBLs RECOVERED: 3603 BBLs LEFT TO RECOVER: 1012
8/11/2010	15:00 - 16:00	1.00	COMP	51	B	X		miru propetro. mix & pump 8 sks class g cmt down 9 5/8" x 4 1/2" surf csg ann. psi up to 500#. swi. rdmo propetro.

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	FORM 9 5. LEASE DESIGNATION AND SERIAL NUMBER: UTU-71417
SUNDRY NOTICES AND REPORTS ON WELLS Do not use this form for proposals to drill new wells, significantly deepen existing wells below current bottom-hole depth, reenter plugged wells, or to drill horizontal laterals. Use APPLICATION FOR PERMIT TO DRILL form for such proposals.	6. IF INDIAN, ALLOTTEE OR TRIBE NAME: 7. UNIT or CA AGREEMENT NAME:
1. TYPE OF WELL Gas Well	8. WELL NAME and NUMBER: BITTER CREEK 1122-4J
2. NAME OF OPERATOR: KERR-MCGEE OIL & GAS ONSHORE, L.P.	9. API NUMBER: 43047397570000
3. ADDRESS OF OPERATOR: P.O. Box 173779 1099 18th Street, Suite 600, Denver, CO, 80217 3779	PHONE NUMBER: 720 929-6515 Ext
4. LOCATION OF WELL FOOTAGES AT SURFACE: 2007 FSL 1954 FEL QTR/QTR, SECTION, TOWNSHIP, RANGE, MERIDIAN: Qtr/Qtr: NWSE Section: 04 Township: 11.0S Range: 22.0E Meridian: S	9. FIELD and POOL or WILDCAT: BITTER CREEK COUNTY: UINTAH STATE: UTAH

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

TYPE OF SUBMISSION	TYPE OF ACTION		
<input checked="" type="checkbox"/> NOTICE OF INTENT Approximate date work will start: 6/28/2011 <input type="checkbox"/> SUBSEQUENT REPORT Date of Work Completion: <input type="checkbox"/> SPUD REPORT Date of Spud: <input type="checkbox"/> DRILLING REPORT Report Date:	<input type="checkbox"/> ACIDIZE <input type="checkbox"/> CHANGE TO PREVIOUS PLANS <input type="checkbox"/> CHANGE WELL STATUS <input type="checkbox"/> DEEPEN <input type="checkbox"/> OPERATOR CHANGE <input type="checkbox"/> PRODUCTION START OR RESUME <input type="checkbox"/> REPERFORATE CURRENT FORMATION <input type="checkbox"/> TUBING REPAIR <input type="checkbox"/> WATER SHUTOFF <input type="checkbox"/> WILDCAT WELL DETERMINATION	<input type="checkbox"/> ALTER CASING <input type="checkbox"/> CHANGE TUBING <input type="checkbox"/> COMMINGLE PRODUCING FORMATIONS <input type="checkbox"/> FRACTURE TREAT <input type="checkbox"/> PLUG AND ABANDON <input type="checkbox"/> RECLAMATION OF WELL SITE <input type="checkbox"/> SIDETRACK TO REPAIR WELL <input type="checkbox"/> VENT OR FLARE <input type="checkbox"/> SI TA STATUS EXTENSION <input checked="" type="checkbox"/> OTHER	<input checked="" type="checkbox"/> CASING REPAIR <input type="checkbox"/> CHANGE WELL NAME <input type="checkbox"/> CONVERT WELL TYPE <input type="checkbox"/> NEW CONSTRUCTION <input type="checkbox"/> PLUG BACK <input type="checkbox"/> RECOMPLETE DIFFERENT FORMATION <input type="checkbox"/> TEMPORARY ABANDON <input type="checkbox"/> WATER DISPOSAL <input type="checkbox"/> APD EXTENSION OTHER: <input style="width: 100px;" type="text" value="Wellhead Repair"/>

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

The operator requests approval to conduct wellhead/casing repair operations on the subject well location. Please find the attached procedure for the proposed repair work on the subject well location.

Accepted by the Utah Division of Oil, Gas and Mining

Date: 07/11/2011

By: *Derek Quist*

NAME (PLEASE PRINT) Gina Becker	PHONE NUMBER 720 929-6086	TITLE Regulatory Analyst II
SIGNATURE N/A	DATE 6/28/2011	

WORKORDER #: 88119294

Name: **BITTER CREEK 1122-4J**
 Surface Location: NWSE Sec. 4, T11S, R22E
 Uintah County, UT

6/23/2011

API: 4304739757 LEASE#: UTU-71417

ELEVATIONS: 5637' GL 5655' KB

TOTAL DEPTH: 8460' PBD: 8405'

SURFACE CASING: 9 5/8", 36# J-55 @ 1834'

PRODUCTION CASING: 4 1/2", 11.6#, I-80 @ 8449'
 TOC @ 66' per CBL

PERFORATIONS: Wasatch 5044' - 5428'
 Mesaverde 6871' - 8064'

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

GEOLOGICAL TOPS:

911' Green River
 1636' Mahogany
 3933' Wasatch
 6408' Mesaverde

BITTER CREEK 1122-4J- WELLHEAD REPAIR PROCEDURE

PREP-WORK PRIOR TO MIRU:

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

WORKOVER PROCEDURE:

1. MIRU workover rig.
2. Kill well with 10# brine / KCL (dictated by well pressure).
3. Remove tree, install double BOP with blind and 2 3/8" pipe rams, with accumulator closing unit and manual back-ups. Function test BOP system.
4. POOH w/ tubing laying down extra tubing.
5. Rig up wireline service. RIH and set CBP @ ~4994'. Dump bail 4 sx cement on top of plug. POOH and RD wireline service. TIH w/ tubing and seating nipple. Land tubing ±60' above cement. RDMO.
6. Monitor well pressures. If surface casing is dead. MIRU. ND WH and NU BOP. POOH w/ tubing.
7. Depending on conditions at wellsite, continue with either CUT/PATCH Procedure or BACK-OFF Procedure.

CUT/PATCH PROCEDURE:

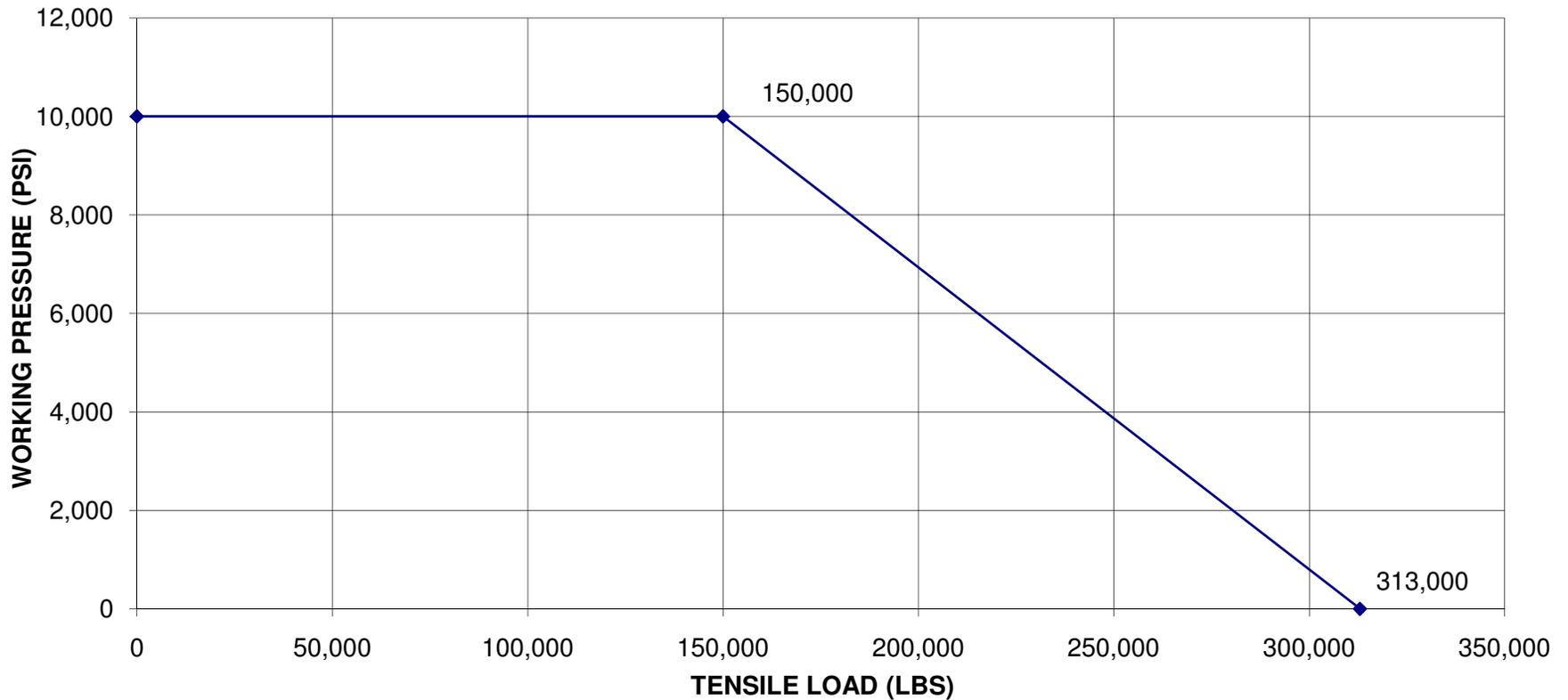
1. PU internal casing cutters and RIH. Cut casing at +/- 30' from surface.
2. POOH, LD cutters and casing.
3. PU 7 3/8" overshoot with 4 1/2" right hand standard wicker grapple, 1 - 4 3/4" drill collar with 3 1/2" IF threads, pup joint, manual bumper sub, and crossovers. If casing cut is deeper than ±30' utilize >7000 ft-lb torque pipe as needed. Pull a minimum of 10,000# to keep grapple engaged if cement top is high (<~900'). If cement top is low (>~900'), more weight will be required to put casing in neutral. Torque casing string to ±7000 ft-lbs, count number of turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ±7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out, release overshoot, POOH, and lay down.
4. TIH w/ skirted mill and dress off the fish top for approximately 1/2 hour. TOO H.
5. PU & RIH w/ 4 1/2" 10k external casing patch on 4 1/2" P-110 casing. Ensure that sliding sleeve assembly shifts ±3' and casing tags no-go portion of patch. NOTE: Shear pins will shear at 3500 to 4500 lbs.
6. Latch fish, PU to 100,000# tension. RU B&C. Cycle pressure test to 3500 psi.
7. Install slips. Land casing w/ 80,000# tension.
8. Cut-off and dress 4 1/2" casing stub.
9. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~4944'. Clean out to PBSD (8405').
10. POOH, land tbg and pump off POBS.
11. NUWH, RDMO. Turn well over to production ops.

BACK-OFF PROCEDURE:

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

6. PU new casing joint with buttress threads and entry guide and RIH. Tag casing top. Thread into casing and torque up to ± 7000 ft-lbs, count number of additional turns to make-up, and document in the daily report. Ensure that tongs are safely anchored to rig and that all personnel are at a safe working distance from the tongs during torque-up and torque release. After initial make-up, place pipe torque to neutral and mark pipe. Place ± 7000 ft-lbs on casing a second time, count turns, then return pipe torque to neutral and count turns. Repeat if torque-up turns do not equal torque release turns. Once torque-in equals torque-out go to step 7.
7. PU 100,000# tension string weight. RU B&C. Cycle pressure test to 3500 psi.
8. Install slips. Land casing w/ 80,000# tension.
9. Cut-off and dress 4 1/2" casing stub.
10. NUWH. PU 3 7/8" bit, POBS and RIH. D/O cement and plug ~4944'. Clean out to PBTD (8405').
11. POOH, land tbg and pump off POBS.
12. NUWH, RDMO. Turn well over to production ops.

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



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

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

DATA BY SLS 11/16/2009

RECEIVED Jun. 28, 2011

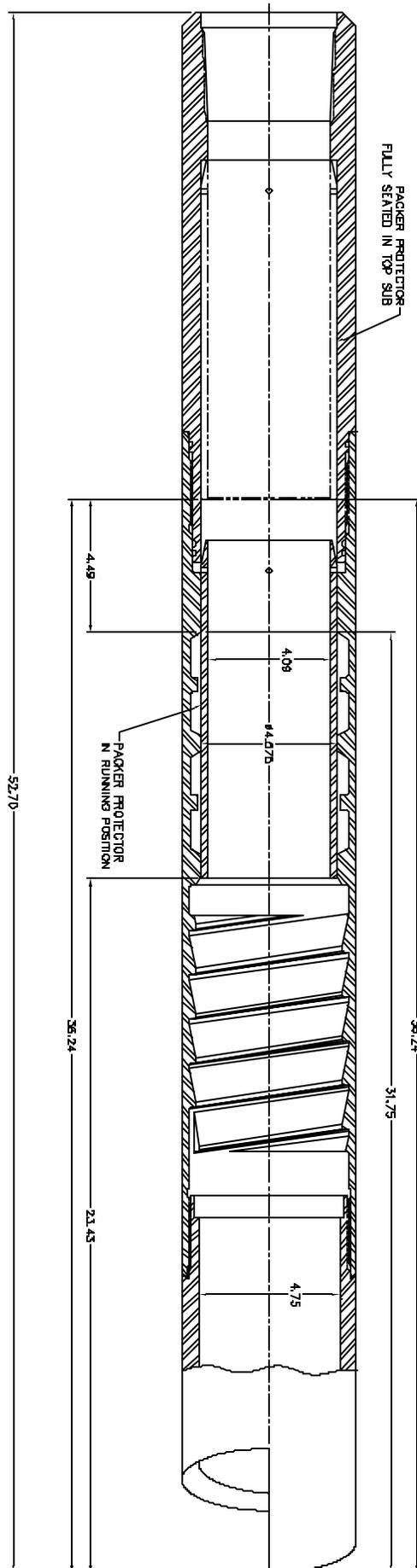


Logan High Pressure Casing Patches Assembly Procedure

All parts should be thoroughly greased before being assembled.

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

Follow recommended Make-Up Torque as provided in chart.



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

US ROCKIES REGION
Operation Summary Report

US ROCKIES REGION								
Operation Summary Report								
Well: BITTER CREEK 1122-4J			Spud Conductor: 10/20/2008			Spud Date: 10/22/2008		
Project: UTAH-UINTAH			Site: BITTER CREEK 1122-4J			Rig Name No:		
Event: WELL WORK EXPENSE			Start Date: 9/9/2011			End Date: 9/13/2011		
Active Datum: RKB @5,655.01ft (above Mean Sea Level)				UWI: 4-11S-22E				
Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
9/9/2011	12:00 - 13:30	1.50	ALL	30	G	P		ROAD RIG F/ BITTER CREEK 1122-4I TO BITTER CREEK 1122-4J.
	13:30 - 15:00	1.50	ALL	30	A	P		SPOT RIG, MIRU.
9/10/2011	7:00 - 7:15	0.25	COMP	48		P		SAFETY= R/U N/U SAFETY
	7:15 - 8:00	0.75	COMP	30		P		CSNG=60 PSI TBNG=60 PSI R/U & PUMP 10BBLs TMAC TO CNTRL TBNG NDWH NUBOP R/U FLOOR & TBNG EQUIPMENT
	8:00 - 9:30	1.50	COMP	30		P		POOH W/229 JTS 2-3/8" J-55 TBNG + XN POBS L/D BTTM JNT W / BAD JNT
	9:30 - 12:30	3.00	COMP	30		P		R/U JW WIRELINE RIH W/ GUAGE RING TO 5030' POOH W / GUAGE RING P/U RIH W / 4-1/2" CIBP SET @ 4994' POOH R/D WIRELINE LOAD HOLE W/TMAC & PRESSURE TEST GOOD @ 2500# BLEED OFF SWIFN
9/12/2011	6:30 - 6:45	0.25	ALL	48		P		JSA SAFTY MEETING
	6:45 - 7:00	0.25	ALL	47	A	P		RD FLOOR & TBG EQUIPMENT, ND BOP'S, ND CSG BOWL, RU PWR SWVL,
	7:00 - 14:30	7.50	ALL					PU INTERNAL CSG CUTTERS & RIH,CUT CSG @ 2' F/ SURFACE, POOH & LD CUTTER , RD PWR SWVL, PULL UP ON CSG WOULDNT COME FREE, RU PWR SWVL,PU INTERNAL CSG CUTTERS & RIH,CUT CSG @ 3' F/ SURFACE, POOH & LD CUTTER , RD PWR SWVL, PULL UP ON CSG STILL WOULDNT COME FREE, REPEAT AGIN FINALLY CUT ON THE 4TH TRY, PU 4-1/2 OVERSHOT, RIH, LATCH FISH, RU CSG CREW & WIRELINE SERVICES, BACK-OFF CSG W/ ONLY 400# NO STRING SHOT NEEDED, POOH, PU NEW 10' CSG PUP & RIH TAG CSG TOP, THREAD INTO CSG, TORQUE CSG TO 7000# W/ 13-3/4 EXTRA ROTATIONS ON CSG, PU 4-1/2 CSG TO 100,000# TENSION.
	14:30 - 15:45	1.25	ALL	33	C	P		RU B&C QUICK TEST, P.T. 4-1/2 CSG TO 1000 PSI. FOR 15 MINS, LOST 10 PSI. IN 15 MINS, P.T. 4-1/2 CSG TO 3500 PSI. FOR 30 MINS, LOST 21.25 PSI. IN 30 MINS, RD B&C QUICK TEST.
	15:45 - 17:30	1.75	ALL	47	C	P		SET C-21 SLIPS, LAND CSG W/ 80,000# TENSION, CUT-OFF & DRESS 4-1/2 CSG STUB, INSTALL FLANGE & CROSSOVER SPOOL, TORQUE ALL 1-7/8 BOLTS, NU CSG BOWL, NU BOP'S, RU FLOOR & TBG EQUIPMENT.
9/13/2011	6:45 - 7:00	0.25	ALL	48		P		HSM SAFTY MEETING.
	7:00 - 8:00	1.00	ALL	31	I	P		PU 3-7/8 MILL & RIH 158 JTS. 2-3/8 J-55 TBG, TAG CIBP @ 4994'
	8:00 - 8:30	0.50	ALL	47	A	P		RU PWR SWVL, RU TECH FOAM, EST CIRC IN 30 MINS
	8:30 - 9:00	0.50	ALL	44	C	P		D/O CIBP @ 4994' IN 15 MINS, HAD 50 PSI. INCREASE, KILL TBG, LD PWR SWVL
	9:00 - 9:30	0.50	ALL	31	I	P		RIH W/ TBG & PU 4 JTS. 2-3/8 J-55 TBG F/ TRAILER, TAG SCALE @ 7331' W/ 232 JTS.

US ROCKIES REGION

Operation Summary Report

Well: BITTER CREEK 1122-4J	Spud Conductor: 10/20/2008	Spud Date: 10/22/2008
Project: UTAH-UINTAH	Site: BITTER CREEK 1122-4J	Rig Name No:
Event: WELL WORK EXPENSE	Start Date: 9/9/2011	End Date: 9/13/2011
Active Datum: RKB @5,655.01ft (above Mean Sea Level)	UWI: 4-11S-22E	

Date	Time Start-End	Duration (hr)	Phase	Code	Sub Code	P/U	MD From (ft)	Operation
	9:30 - 11:00	1.50	ALL	44	D	P		RU PWR SWVL, EST CIRC IN 5 MINS, C/O SCALE FROM 7331' TO 7351', RIH TO 8190' NO MORE SCALE, CIRC HOLE CLEAN, KILL TBG, RD PWR SWVL
	11:00 - 17:30	6.50	ALL	31	I	P		LD 30 JTS. 2-3/8 J-55 TBG ON TRAILER, POOH LD MILL, PU 1.875 XN HALF POBS & RIH 115JTS. J-55 TBG, EOT @ 3642', RU SWAB EQUIPMENT, RIH BROACH TBG W/ 1.9 BROACH, POOH, LD SWAB EQUIPMENT, RIH 114 JTS. 2-3/8 J-55 TBG, EOT@ 7256', RU SWAB EQUIPMENT, RIH TO 3642' W/ 1.9 BROACH, POOH, LD SWAB EQUIPMENT, LAND TBG HANGER, RD FLOOR & TBG EQUIPMENT, ND BOP'S, NU WH, RD.